

NIKON FULL LINE PRODUCT GUIDE

1996-97

\$4.95

The background of the entire advertisement is a large American flag. Two divers are shown in silhouette, performing a synchronized dive. They are positioned diagonally across the frame, with their bodies parallel to each other. The flag's stars are visible in the upper left, and the stripes extend across the rest of the image. The divers' shadows are cast onto the stripes of the flag.

Introducing the Nikon F5.  
Imported from the future.

**Nikon**  
We take the world's  
greatest pictures.<sup>®</sup>  
Yours.

Beyond cameras, lenses, scanners, binoculars and sunglasses, Nikon is dedicated to making tools. Tools that let you communicate more freely, see the world in all-new ways, and share visual information faster and better than ever before. From Nikon's exhilarating new F5 camera, to an array of new lenses, to cutting-edge scanners and printers, Nikon continues to lead the world in new ways of capturing and communicating images.

# Welcome to the World's Greatest Pictures

This Nikon Full Line Product Guide only begins to tell the story. Your Nikon dealer is your best source of information, along with more comprehensive brochures, literature and other publications by Nikon. At the back of this guide, you'll find out how to attend Nikon School,

subscribe to Nikon World Portfolio magazine, and purchase Nikon School video learning tapes. Remember, Nikon and your Nikon Dealer are dedicated to one thing — helping you take the world's greatest pictures. Yours.



## F5 - IMPORTED FROM THE FUTURE

Introducing a revolution in performance and handling. Learn how the Nikon F5 surpasses any other 35mm SLR on the market today, and establishes a whole new level of professional photography. At 8 fps with Nikon's exclusive Focus Tracking with Lock-on, the experience is exhilarating, and the images are totally out of this world.

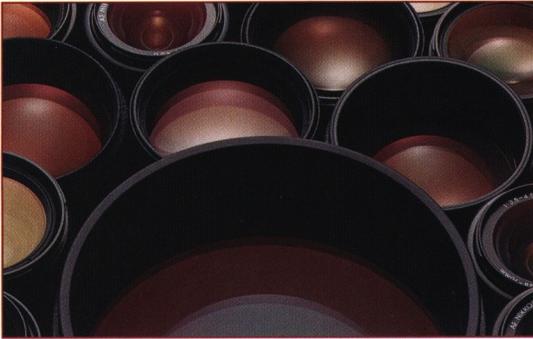
## DIGITAL IMAGING — POWER OF CHANGE

Thanks to advanced Nikon digital imaging technology, now you can digitize, store and share images in all-new ways. Nikon's E2N/E2s Digital Still Camera, LS-1000 Super Coolscan color scanner and NP-10 Coolprint printer give you all the technology you need to manipulate and communicate your images virtually instantaneously.



## PRONEA 6i — ADVANCE TO A NEW DIMENSION

Nikon's first SLR camera that offers all the convenient features of the Advanced Photo System. Like every Nikon SLR, the Pronea 6i sports a sleek, ergonomic design and near-silent operation. And with its ability to produce three different film types on the same roll, the Pronea 6i is your ticket to a new dimension in photography.



## LENSES — WORLD-CLASS OPTICS

Manufactured in Nikon's own glassworks, advanced Nikon optics offer the sharpest, most brilliant images available today. From zooms to wideangles to the Micro-Nikkor lens series, Nikon optics continue to set new standards of excellence in the photographic industry. What more can you say about the world's leader in optics? Plenty. Such as Nikon is now offering a host of brand new lenses, including the versatile and powerful 24-120mm f/3.5-5.6D AF Zoom-Nikkor.

## ACCESSORIES — EXPANDING YOUR VISION

Believe it or not, there's a way to improve upon your high-performance Nikon SLR camera and superb Nikon lenses. By adding fully compatible Nikon accessories. Teleconverters, lens caps, lens hoods, lens cases, filters, focusing screens, battery packs, remote cords and technologically advanced Nikon AF Speedlights are just some of the many Nikon accessories directly available to you.



## SUNGLASSES, BINOCULARS AND MORE

Nikon isn't just about photography. For the latest in fashion and ultraviolet protection, Nikon eyewear is second to none. Choose from up to seven lightweight, contemporary sunglass collections for all types of light conditions. And if getting close is your game, then look no further than state-of-the-art Nikon binoculars. Perfect for serious birdwatchers or just casual outdoor enthusiasts, Nikon binoculars offer unparalleled clarity and strain-free viewing.



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### Nikon Advanced Systems Dealers (NAS)

Nikon Advanced Systems Dealers displaying this logo are authorized to sell Nikon advanced systems cameras and equipment, including specialized lenses, attachments and accessories.



### Nikon Consumer Products Dealers (NCP)

Nikon Consumer Products Dealers displaying this logo are authorized to sell Nikon consumer products, including selected 35mm cameras, lenses and accessories.



# The World of Nikon

*Making pictures is about change. Changing situations. Changing opportunities. And changing needs. It's no wonder then that Nikon, the world's leader in 35mm SLR photography, is also the leader in the changing field of imaging.*

*The world of Nikon is a world of new methods, tools and opportunities. Digital cameras, desktop scanners, color printers and other cutting edge Nikon products are designed to empower you to see the world in new and different ways. Our goal is to create products that turn technical possibilities into real-world solutions. So whether you produce your images on film, digital or a combination of both, Nikon is your partner, delivering all the quality, performance and reliability you've come to expect from the name you know so well. Nikon. The World's Greatest Pictures. Yours.*



## NEW CAMERA TECHNOLOGIES

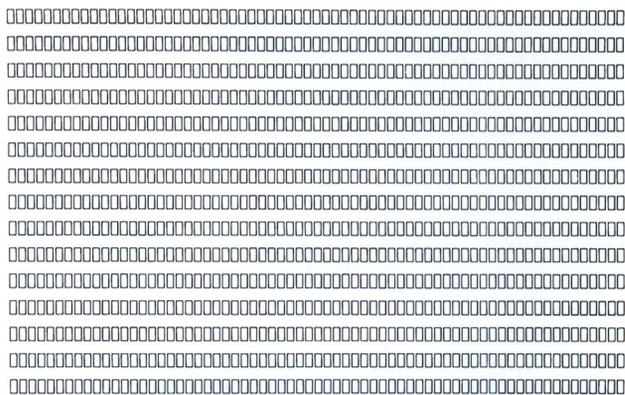
Nikon continues as the undisputed leader in 35mm SLR photography. Having pioneered such breakthroughs as spot metering, multi-pattern matrix metering and high-speed motor drive, Nikon now adds all-new picture-taking breakthroughs.

Operating at 8 frames per second with Nikon's exclusive Focus Tracking with Lock-on, the F5 sets a whole new standard of performance with accuracy. Dynamic Autofocus, another new Nikon technology, takes

advantage of the F5's 5-segment AF sensor to actually switch the area of focus concentration, following the subject as it moves or changes position. The matrix component of the F5's DP-30 Metering Finder makes an incredible 1,005 individual light measurements to analyze a scene's brightness, contrast and light pattern. Exclusive 3D Color Matrix Metering, also found in the new F5,



**NIKON'S F5 OFFERS AUTOFOCUS WITH A UNIQUE CROSS-TYPE ARRAY OF FIVE FOCUS DETECTION SENSORS.**



**NIKON'S EXCLUSIVE NEXT GENERATION MULTI-SEGMENT LIGHT METER OFFERS 1005 SENSORS AND POWERFUL NIKON SOFTWARE.**

for the first time adds color to exposure analysis. And Nikon's exclusive Monitor Preflash, available with an advanced Nikon camera, SB-26 or SB-27 Speedlight, and D-type AF Nikkor lenses, continues to set the standard for reliable flash exposure even in situations with highly reflective backgrounds or contrasting subjects. Nikon Software enables F5 and N90s owners to actually customize the way their cameras work, matching the shooting preferences and styles of each individual photographer.

**NEW ADVANCED PHOTO SYSTEM TECHNOLOGY**

Advanced Photo System technology represents a radical departure from the world of picture-taking today. Cameras are more compact than 35mm cameras and offer trouble-free loading – all while producing high-quality photographs. You can even choose from three different picture types on the same roll! As part of its Advanced Photo System series, Nikon is pleased to introduce the Pronea 6i (available early 1997) and Nuvis cameras. The first Nikon SLR to incorporate all the advantages of the

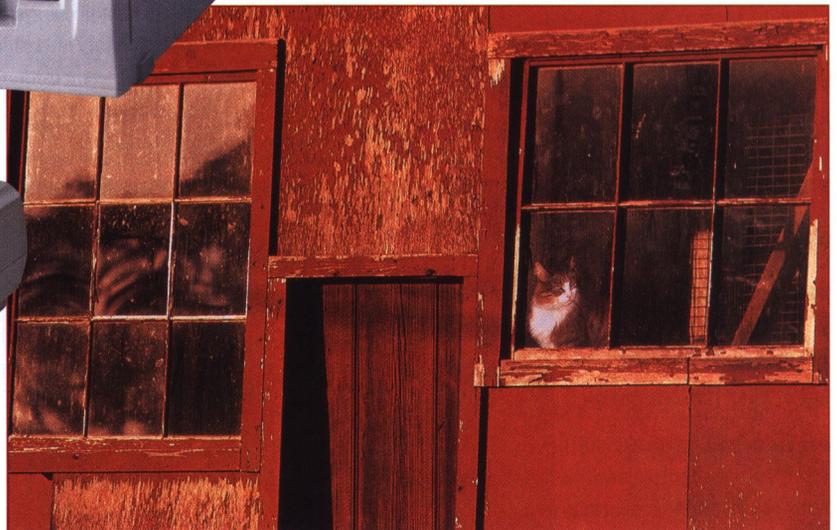


Advanced Photo System, the Pronea 6i is a careful combination of optimum performance and ultimate simplicity. The Nuvis series of cameras is pocket-sized, lightweight and priced right. Featuring the same legendary quality you've come to expect from Nikon, Nuvis enables you to have more fun while taking better pictures than ever!



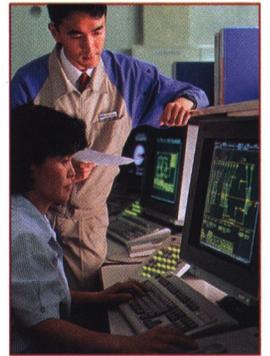
**SCANNERS, PRINTERS AND SOFTWARE**

Award-winning Nikon scanners continue to lead the field in terms of quality and performance. Nikon's new high-power light emitting diode (LED) illumination provides tremendous color reproduction as well as long life and durability. Available in models intended for both everyday photographers and true professionals, features such as advanced autofocus, 3D color matrix processing and precision 12-bit A/D conversion further Nikon's lead in this exciting area of photo digitization. The Nikon NP-10 Coolprint offers hardcopy, dye-sublimation output in familiar photo print size with stunning color and sharpness. Advanced Nikon software drives Nikon scanners and printers at your command with highly intuitive control and robust features.



**ADVANCED OPTICAL TECHNOLOGY**

Understanding optics is one of the primary keys to almost any imaging system. And the quality of the glass itself often plays a critical role in overall performance. Impurities or manufacturing defects can lead to disappointing results. That's why Nikon manufactures its own optical glass to its legendary standards of quality.



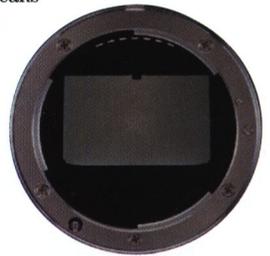
**RENOWNED CONSTRUCTION AND MATERIALS**

To say that Nikon products are simply "rugged" misses the point. When you use Nikon equipment, full-compatibility in terms of materials, alignment, optics, color consistency, electronics and overall performance is assured. Only Nikon cameras, equipment and accessories can offer true Nikon-quality photographs.



**NIKON LENSES OFFER PATH TO THE FUTURE**

Nikon's famous F lens mount means your camera is compatible with literally hundreds of Nikon lenses. And, as Nikon innovation continues, your investment in Nikon quality continues to pay off with future system compatibility.



# F5

TO LEARN EVEN MORE, ASK YOUR DEALER  
FOR NIKON'S COMPLETE F5 BROCHURE.



## IMPORTED FROM THE FUTURE

*Introducing the highest performance level ever available in 35mm SLR photography. Designed by professionals, for professionals, the Nikon F5 combines breakthrough Nikon technology with advanced ergonomic design to create a revolution in performance and handling. Operating at a record-breaking 8 frames per second with Focus Tracking with Lock-on, everything about the F5 resonates with speed and accuracy. That's because Nikon continues to believe that speed without accuracy means nothing to professional photographers. To those already using Nikon, the F5 will offer a familiar and comfortable feel. To those new to Nikon, the experience will be exhilarating as they operate the F5's logical and easily accessed controls. All photographers will quickly realize that when it comes to advanced technology, the new Nikon F5 is truly "Imported from the Future."*

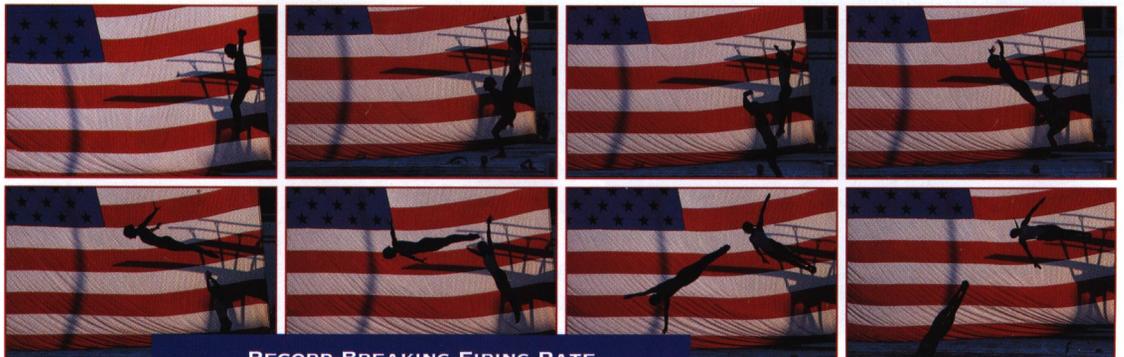


### RECORD-BREAKING AUTOFOCUS SPEED WITH ACCURACY

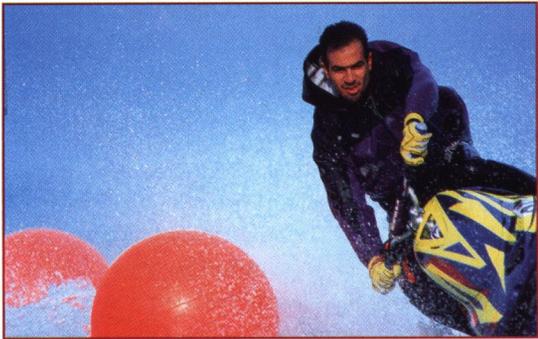
The F5 allows you to shoot sports and action shots with all-new confidence. Choose Single Servo for one shot at a time, or use Continuous Servo AF operation at motor speeds up to 8 frames per second with full-AF operation with Lock-on — that's about 60% faster than any other autofocus system currently available. Lock-on ignores momentary interruptions from subjects which interfere with your composition. And, subjects moving up, down, left or right are also easily captured by Nikon's exclusive Dynamic Autofocus.

### DYNAMIC AUTOFOCUS

The F5 features a new 5-segment AF sensor. These sensors cover the center, left, right, top and bottom of a wide-area cross-type array. In Dynamic AF Mode, you select the sensor that best suits your composition. As the subject moves or changes position, the F5 automatically changes sensors, focusing on your chosen subject. Now nothing escapes.



RECORD-BREAKING FIRING RATE

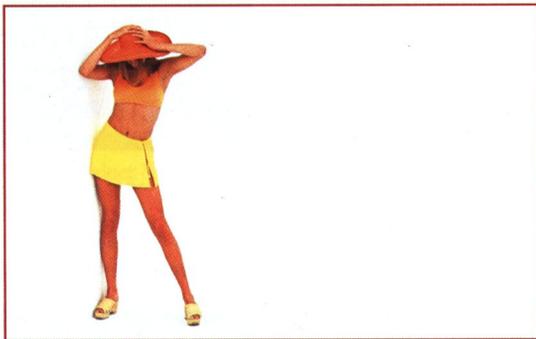


#### FIVE SENSOR AUTOFOCUS DETECTION

The F5's 5-Segment AF Sensor features a Wide-Area Cross-Type design. This means that for horizontal compositions, a complete line of sensors addresses subjects moving across the field of view. With the camera held in the vertical position, the F5's Cross-Type design still gives you a line of sensors that follows the action. The sensor system operates with every AF Nikkor lens with maximum apertures of f/5.6 or larger, meaning every AF Nikkor lens.

#### INTRODUCING NIKON'S EXCLUSIVE 3D COLOR MATRIX METER

The new F5 incorporates exposure metering technologies which are unequalled. For example the matrix component built into the F5's DP-30 Metering Finder makes 1,005



individual light measurements to evaluate a scene's brightness, contrast and light pattern. And for the first time, an exclusive RGB sensor evaluates the scene's colors to provide enhanced scene identification. This 3D Color Matrix Metering can even tell if tungsten or fluorescent lighting is in use. AF Nikkor lenses with Distance Signal Technology provide additional information for exposure accuracy, and with Nikon's SB-26 or SB-27 Speedlights, Monitor Pre-flash adds still more information for exposure accuracy. Powerful Nikon software controls the entire system and ensures the utmost in versatile and reliable exposure control.

#### NEW FLEXIBLE CENTER-WEIGHTED METER

Center-weighted metering was invented by Nikon during the 1960's and has remained essentially unchanged until now. Based upon metering which concentrates 75% of its sensitivity within the viewfinder's 12mm circle and the 25% balance in the peripheral area, center-weighted metering is ideally suited for back-lit portraiture and other situations which require selective light metering. With the F5's new Flexible Center-Weighted Metering, you can change the size of the 12mm circle to 8mm, 15mm, and 20mm, enabling more accurate metering of subjects which are smaller, larger and at varying distances. Still more control is possible using the optional software designed by Nikon for use with the F5 connected to a Mac or PC.

#### FIVE BUILT-IN SPOT METERS

For the highest level of personal exposure control, choose among the F5's five spot meters. Corresponding in position to the sensor areas for Dynamic Autofocus, this technique allows the utmost in exposure concentration, precisely where it is intended.



#### PERSONALIZE THE F5 WITH CUSTOM SETTINGS

You can change the way your F5 operates by choosing among the F5's vast selection of Custom Settings. Built-in Custom Settings are selected using the Command Control Dial. Still more settings are available when you use optional Nikon Software which also enables remote operation of the F5. In all, more than 40 custom settings are available!



#### POWERFUL SELECTION FOR EXPOSURE CONTROL

You need control to achieve your personal creativity, so the F5 offers a wide selection of Exposure Control and Compensation techniques. There's EV compensation, AF and AE Lock controls and four exposure control systems, including Program AE, Shutter and Aperture Priority as well as full manual control. Automatic balanced fill-flash photography, a powerful Nikon feature, provides fill-flash control for every exposure mode. It even performs during automatic exposure bracketing, both for ambient light control and fill-flash control. There's even built-in Exposure Bracketing where you can select the sequence for the bracket. It's everything you need and want!

#### 3D MULTI-SEGMENT BALANCED FILL-FLASH

Today's professionals will tell you that automatic fill-flash control is a must, but maintaining a natural appearance in your photography is most important. An artificially bright fill-flash shot is often not what you want. The Nikon F5 offers you the highest fill-flash performance, with control that lets you decide how it will affect the picture. Subtle control in 1/3 EV

increments (from +1 to -3) assures that your photographs will have a natural look. Monitor pre-flash (with Nikon Speedlight models SB-26 and SB-27) even checks subject reflectance for the highest level of flash exposure accuracy.

#### FAMILIAR, COMFORTABLE FEEL

You'll love the way the F5 feels and operates. Weighing less than three pounds, it's comfortable, fast, logical and intuitive. And the F5 lives up to the F4s's heritage of rugged durability. The chassis is made of rigid aluminum alloy to maintain precise alignment. The meter's top cover is titanium for extra resistance to impact. Rubber surfaces provide a textured grip and buffering against impact. Dials and buttons are designed to resist moisture and dust. The F5 has been rigorously tested to assure reliable performance under demanding professional conditions.

#### 3D MULTI-SENSOR BALANCED FILL-FLASH

Another Nikon exclusive, this advanced fill-flash system has been incorporated into the F5. Five TTL flash sensors precisely monitor flash output. Imperceptible Monitor



Pre-flashes from the Nikon SB-26 or SB-27 Speedlights, and distance information from D-type AF Nikkor lenses help overcome exposure failure associated with highly reflective backgrounds, outdoor fill-flash and surfaces that do not have standard reflectance. Use the F5's fill-flash power together with highly automatic exposure control, or control exposure manually. Either way, you'll get the proven performance of 3D Multi-Sensor Balanced Fill-Flash.

#### F5 AUTOFOCUS SYSTEM ENHANCES PERFORMANCE OF AF-NIKKOR OPTICS

The F5 camera's high-level AF performance is possible through a combination of enhanced electronic and software features, plus newly advanced electro-mechanical design, which features a more powerful and faster coreless-AF drive-motor. The result is that the F5's autofocus system can autofocus faster with each AF Nikkor lens and with greater

precision than previously possible. Additionally, the F5 is compatible with Nikon's AF-I Nikkor optics as well as with the newest AF-S Nikkor lenses, which feature Nikon's Silent Wave Motor technology.

#### NEW SHUTTER MONITOR ENSURES RELIABILITY

Temperatures and other conditions can affect shutters and alter their performance. Shutters can become inaccurate due to fatigue or, worse, sound like they are working, when in fact they are not. The F5's Shutter Monitor checks the shutter every time it's released. If the shutter begins to shift from the calibrated speed, the F5 automatically compensates. And in the extreme case that the shutter fails to operate, the camera will alert you.

#### NEW EXPOSURE MANAGEMENT SYSTEM

The F5's complete exposure management system is there for your control. You get the benefits of automatic operation with the advantages of manual control. Programmed Auto mode automatically sets shutter and aperture. Flexible Program mode allows you to shift the shutter speed and aperture combination, while retaining correct exposure. Shutter-Priority mode gives you a choice of speeds from 1/8000 sec. to 30 full seconds. Aperture-Priority Auto mode offers a complete range of available apertures in 1/3 increments. Manual mode gives you complete control. Use the F5's exclusive Lock Control to ensure the settings will not change accidentally.

#### FILM ADVANCE MODE

Choose from four film advance modes: Single (S); Low-Speed Continuous (CL) for up to approximately 3 fps; High-Speed Continuous (CH) for up to 8 fps; and Silent Mode (CS) for nearly silent operation at approximately 2 fps. 8 fps is available using the optional rechargeable Nickel-Metal Hydride (NiMH) battery pack. Speeds up to about 7.5 fps are possible using disposable alkaline AA batteries.

#### EXPOSURE COMPENSATION AND BRACKETING

Manually control exposure compensation from +5EV to -5EV in 1/3 EV steps. Automatic Bracketing is built-in and allows you to take two or three consecutive pictures of the same scene





with changing EV values in increments of 1/3, 2/3 and 1EV. You can also select the order of the compensation, for example making the first picture of the sequence with no compensation.

#### MULTIPLE EXPOSURE CONTROL

This feature allows you to make as many images on the same frame as you wish. You can even combine Multiple Exposure Control with exposure bracketing and/or exposure compensation to achieve a variety of effects.

### INTERCHANGEABLE VIEWFINDERS

#### MULTI METER FINDER DP-30

High-eyepoint type. Incorporates a built-in diopter adjustment dial from -3 to +1 diopters, ISO-standard accessory shoe, eyepiece shutter and metering system selector.

**Nikon Product Number:**  
2504 NAS



#### AE ACTION FINDER DA-30

Ideal when normal viewing is difficult or impossible, such as when wearing a helmet or goggles, or with the camera encased in a special housing for underwater photography. Includes built-in 5-segment matrix meter.

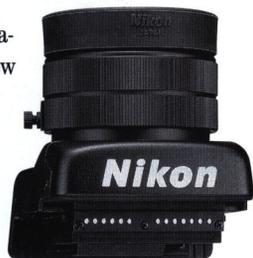
**Nikon Product Number:**  
2507 NAS



#### 6X HIGH-MAGNIFICATION FINDER DW-31

For critical high-magnification close-up work and photomicrography. The sophisticated optical system provides a clear, sharp view of the entire image at an approximate 6x magnification. Fitted with a -5 to +3 diopter adjustment for individual eyesight correction. Rubber eyecup and rubber eyepiece cap are provided.

**Nikon Product Number:**  
2506 NAS



#### WAIST-LEVEL FINDER DW-30

For use when the F5 is positioned at a low angle or on a copystand. Fold-up type viewing hood provided. The built-in flip-up magnifier provides an approximate 5x magnification at the center of the image for accurate focusing.

**Nikon Product Number:**  
2505 NAS



### VIEWING ACCESSORIES

#### RUBBER EYECUP DK-2

Increases viewing comfort and prevents stray light from entering the viewfinder.

**Nikon Product Number:** 2406 NAS



#### RIGHT-ANGLE VIEWING ATTACHMENT DR-3

Provides an upright and unreversed image with right-angle viewing. Individual eyesight adjustment possible. Excellent for copy work. (DK-7 required for HP finder.)

**Nikon Product Number:** 2326 NAS



#### EYEPIECE MAGNIFIER DG-2

Provides 2X magnification of the central portion of the finder image. Eyesight adjustment provided. Useful for critical focusing in close-up work. (DK-7 required for HP finder.)

**Nikon Product Number:** 2355 NCP



#### EYEPIECE ADAPTER DK-7

Required for attaching all standard size eyepiece accessories to the larger size thread mounts of high-eyepoint cameras.

**Nikon Product Number:** 2394 NAS



### OPTIONAL CAMERA BACKS

#### MULTI-CONTROL BACK MF-28 WITH COPYRIGHT IMPRINT

Records a copyright symbol, date and photographer's name (up to 22 characters) between frames. Provides identification for film immediately upon processing. Supplements copyright protection. Includes additional features such as wider-range bracketing, intervalometer, freeze-focus, long time exposures to 999 hours and more.

**Nikon Product Number:**  
4666 NAS



#### DATA BACK MF-27

Records date or time.

**Nikon Product Number:**

**4665 NAS**



#### REMOTE CONTROL ACCESSORIES

##### REMOTE CORD MC-30

Designed for cameras equipped with 10-pin remote terminal. Enables remote firing with a trigger-lock function. 32" long.

**Nikon Product Number: 4660 NAS**

##### REMOTE CORD MC-20

Enables remote firing of the F5 and setting of long time exposures up to 9 hrs., 59 min. and 59 sec. The LCD tells you the exposure time.

**Nikon Product Number: 4650 NAS**



##### MOTOR REMOTE TRIGGER CORD MC-12A

For remote control photography up to 9.8 feet away.

Convenient handgrip, trigger release button and trigger lock lever.

**Nikon Product Number: 4586 NCP**



##### EXTENSION CORD MC-21

Available for 10-pin remote accessories.

**Nikon Product Number: 4651 NAS**

##### CONNECTING CORD MC-23

Connects two F5 cameras for simultaneous shutter release.

**Nikon Product Number: 4653 NAS**

##### ADAPTER CORD MC-25

Enables the use of Remote Cord MC-12A/12B, Radio Control Set MW-2 and Modulite Remote Control Set ML-2.

**Nikon Product Number: 4655 NAS**

##### POWER SOURCES

The standard MS-30 battery holder accepts 8 AA-type batteries. The optional NiMH Battery Unit MN-30 maximizes power and speed. External Power Cord MC-32 with two banana-type plugs connects 12V external power source to the F5. Optional MN-30 requires optional MH-30 charger.



#### SPEEDLIGHT ACCESSORIES

Choose an optional Nikon AF Speedlight like the advanced SB-26 or the SB-27. You'll gain versatility and power.

##### TTL REMOTE CORD SC-24

For TTL flash control with DW-20 waist-level finder or DW-21 6x finder.

**Nikon Product Number: 3067 NAS**



##### TTL REMOTE CORD SC-17

Use to connect Nikon TTL Speedlights to selected Nikon SLRs with standard ISO accessory shoe. Approximately 5' long. Maintains TTL control.

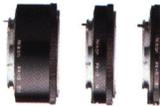
**Nikon Product Number: 4557 NCP**



#### CLOSE-UP ACCESSORIES

##### AUTO EXTENSION RINGS

Can be used individually or in combination to vary the reproduction ratio of lenses from 20 to 300mm. Operate with manual focusing and manual exposure control. See Close-Up section for complete details and listings.



##### BELLOWS FOCUSING UNIT PB-6

Renders reproduction ratios to nearly 11X, depending on lens used and mounting configuration. Modular design offers a versatile system of close-up and macrophotography. Operate with manual focusing and manual exposure control.

**Nikon Product Number: 2660 NAS**

##### REPRO-COPY OUTFIT PF-4

Enables you to make high-quality photographic copies of photographs, illustrations, drawings and diagrams.

**Nikon Product Number: 2757 NAS**

##### MACRO ADAPTER RING BR-4A

Enables lenses to be mounted in reverse for a relatively high reproduction ratio.

##### FOCUSING STAGE PG-2

Mounted between the bellows and the tripod. Move system back and forth to obtain sharpest possible focus.

**Nikon Product Number: 2756 NCP**



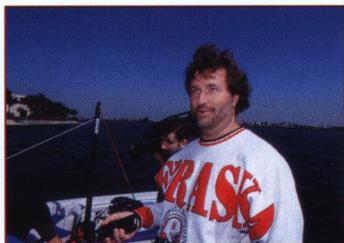
##### TTL MACRO SPEEDLIGHT SB-21B

Gives you the choice of flash front lighting or selective relief lighting.

**Nikon Product Number: 4702 NAS**

**PUSHING THE ENVELOPE**

*"To compete with the best sports photographers in the world, I've got to continually push the envelope further and further, and the F5 allows me to do just that. It functions in ways cameras couldn't before. I can tailor the F5 to any situation I encounter and make it perform flawlessly. The autofocus is brilliant at 8 frames per second. Another reason why I'm so excited is that it's a tough, reliable camera. You don't have to worry about the F5 holding up under rugged conditions. And if I'm going to go through the time and expense of producing a photograph, I want it to be right — and the quality of Nikon optics is unmatched. They render the sharpest images with more detail and information than anyone else's optics can deliver. The F5's technology gives you a chance to expand the limits of your vision. Me and my new best friend, the F5!"*



Bill Frakes



**F 5**

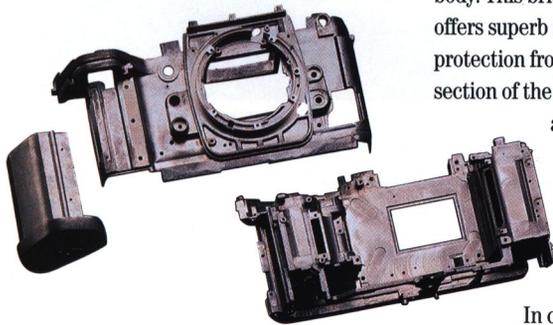
- Nikon F lens mount
- Autofocus modes: Single-Servo AF with Focus-Priority; Continuous-Servo AF with Release-Priority
- Focus Tracking with Lock-on automatically activated when subject moves
- Single Area AF and Dynamic AF selectable
- Autofocus operation, and Manual with Electronic Rangefinder
- Three built-in exposure meters: 3D Color Matrix Metering, Center-Weighted metering and Spot metering
- Exposure modes: Programmed auto, Shutter-Priority auto, Aperture-Priority auto and Manual
- AE Lock button
- Exposure compensation possible within + or - 5 EV range in 1/3 steps
- Shutter speed 1/8000 sec.
- Flash sync speed 1/250 sec.
- Electronic Rangefinder
- LCD panel illumination
- Depth-of-field preview button
- Slow Sync and Rear-Curtain Sync built-in
- Five-segment TTL Multi Sensor used for TTL auto flash control
- Standard ISO-type hot-shoe
- Self-timer

Nikon Product Number: 1795 NAS

# F4s

## THE WORKHORSE OF PROFESSIONAL CAMERAS

*Ruggedly constructed, the Nikon F4s is the workhorse camera for professional photographers everywhere. The F4s epitomizes the combination of reliability and performance that professionals demand. Superb design, rugged construction, precision operation and the features professionals want most have made this camera the acknowledged standard of 35mm photography throughout the world.*



### SUPERIOR CONSTRUCTION

Famous for its reliable performance, the F4s starts with a solid aluminum alloy, die-cast body. This bridge and hollow-wall design offers superb strength, rigidity and protection from corrosion. The mounting section of the standard Multi-Meter Finder and the interchangeable hand grip have also been die-cast for maximum strength.

### SHOCK ABSORBING EXTERIOR

In case of an accident, the rubber compound exterior covering of the F4s literally transforms itself to absorb shock. It then instantly regains its original shape. There's less chance of external or internal damage to the camera.

### OUTSTANDING INTRUSION RESISTANCE

The entire body plus every lever and dial of the F4s has been designed to resist intrusion by moisture or dust. This camera has proven itself in virtually every environment on (and off) the Earth.



### VERTICAL TRAVEL SHUTTER

Designed and built by Nikon, the F4s's electromagnetically controlled, vertical-travel focal plane shutter enables super-fast operation up to 1/8000 sec. and 1/250 sec. flash sync. Four of the shutter's eight blades employ special epoxy plates with carbon fibers. The others are composed of aluminum alloy. All this means literally thousands of consistent exposures under intensive professional use.

### TUNGSTEN ALLOY SHUTTER BALANCER

This Nikon innovation ensures quick and efficient shutter curtain travel by absorbing vibrations which might blur pictures. Additionally, an efficient shutter braking system protects against shutter bounce.



THE ANTI-DIRECTIONAL MOVEMENT OF THE SHUTTER BALANCER ABSORBS VIBRATION CAUSED BY SHUTTER-CURTAIN TRAVEL. YOUR PICTURES ARE SHARPER.

#### DUAL CURTAIN SHUTTER ASSEMBLY

In ordinary cameras with vertical-travel focal-plane shutters, the film plane is covered by one multi-blade shutter curtain.



With the Nikon F4s, this multi-blade curtain has been doubled, leaving virtually no room for light leaks. You can perform mirror lockup shooting without the fear of light leakage.

#### COMPATIBLE WITH MOST NIKON LENSES

The F4s's F-mount interface means it has the intelligence to manage all three types of Nikon lens communication systems — one for lenses with built-in computers, one for autofocus lenses with built-in motors, and one for Nikon lenses without electronic contacts. With AF-S, AF, AF-I, P, AI-S and AI Nikon lenses, all metering systems operate. With modified AI lenses, use Center-Weighted or Spot metering. With non-AI lenses, use stop-down metering.

#### AN ARRAY OF INTERCHANGEABLE FINDERS, FOCUSING SCREENS AND FINDER ACCESSORIES

With the Nikon F4s, you can see it your way. Each of four interchangeable viewfinders offers virtually 100% accuracy, so what you see through the viewfinder is what ends up in your photo. Interchangeable focusing screens and finder accessories give you just the view you want.

#### SPEEDLIGHTS AND ACCESSORIES

In combination with a full line of Nikon Speedlights, the F4s is a tool for the imagination. Matrix-balanced fill-flash creates all new picture-taking confidence, not only indoors, but outdoors in twilight and at night.

#### CAMERA BACKS AND REMOTE CONTROL

Nikon Multi-Control Backs, Data Backs and remote control accessories put time and distance on your side. Create all-new types of photographs, over hours, days and even weeks. Let your subject trigger the shutter with Freeze Focus. Auto bracket up to 19 separate frames, each with a different exposure.



#### CLOSE UP

The F4s is 100% compatible with all Nikon close-up lenses and equipment. Discover familiar subjects in a new dimension. See a new range of textures and shapes. Enter a new world of discovery and exploration.



#### INTERCHANGEABLE VIEWFINDERS

Interchangeable viewfinders provide you with a better view of your subject, depending upon your application or where the camera is positioned. Viewfinders for the F4s offer tremendous versatility, from standard shooting, to low-angle shooting, to close-up subjects magnified up to six times normal size.

#### MULTI-METER FINDER DP-20

Standard equipment for the Nikon F4s AF 35mm SLR Camera, this full information viewfinder is virtually 100% accurate. What you see is what you get. Built-in eyepiece diopter adjusts from -3 to +1 to compensate for near or farsighted photographers. Incorporates exposure compensation dial for interchangeable focusing screens and ISO type hot shoe for direct mounting of a wide range of Nikon TTL dedicated Speedlights. Matrix, Center-Weighted and Spot metering provided.

**Nikon Product Number: 2500 NAS**



#### AE ACTION FINDER DA-20

Allows you to see a complete image at 2.4" from the camera. Ideal for situations where normal viewing is difficult or impossible (wearing a helmet or goggles). Center-Weighted and Spot metering are provided. This viewfinder for the F4s is supplied with Prism Cover and Eyecup.

**Nikon Product Number: 2503 NAS**



#### 6X HIGH MAGNIFICATION FINDER DW-21

Designed to make critical close-up work faster and easier. Enlarges the complete viewfinder image by six times. The DW-21 also offers a -5 to +3 diopter adjustment for eyesight correction. Rubber eyecup and eyepiece cap provided. Requires SC-24 cord for TTL flash operation.

**Nikon Product Number: 2502 NAS**

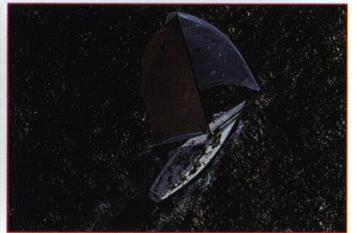




**INTERVAL TIMER WITH MF-23**

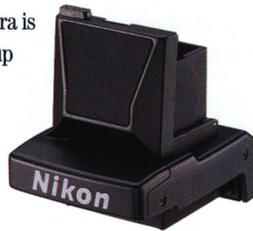


**AUTO BRACKETING WITH MF-23**



**WAIST-LEVEL VIEWFINDER DW-20**

Provides a complete viewfinder image when camera is positioned at a low angle or on a copystand. Fold-up viewing hood provided. Built-in flip-up magnifier provides approximate 5X magnification at image center for accurate focusing. Built-in Spot meter. Requires SC-24 cord for TTL flash operation. **Nikon Product Number: 2501 NAS**



**250 EXPOSURE FILM CASSETTE MZ-1**

Operates with 250 Exposure Multi-Control Back MF-24. Includes 2 magazines. Requires 250 exposure bulk film loader, Nikon Product Number 2080 NAS. **Nikon Product Number: 2077 NAS**



**DATA/MULTI-CONTROL BACKS**

**MULTI-CONTROL BACK MF-23**

Imprint your photos with date, time, frame number, shutter speed, aperture setting and other information. The Interval Timer allows you to input commencement time, interval time, number of shots and number of intervals. Auto Bracketing lets you shoot up to 19 continuous frames, each with a different exposure. Create long-time exposure photos, up to 999 hours, 99 minutes, 99 seconds — automatically. Exposure Delay and Freeze Focus give you even more options. Also set daily alarm, film alarm, film stop and more. **Nikon Product Number: 4623 NAS**



**DATA BACK MF-22**



Imprint each frame with your choice of year/month/day, day/hour/minute (24-hour clock), month/day/year, or day/month/year. **Nikon Product Number: 4622 NAS**

**250 EXPOSURE MULTI-CONTROL BACK MF-24**

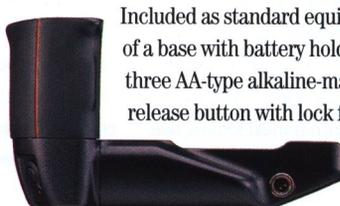
Allows uninterrupted shooting of 250 exposures without changing film. Used with two MZ-1 Magazines for loading up to 33 feet of bulk film (see next listing). Includes the same features as the MF-23. Power sources include the MB-21 High Speed Battery Pack or the Nikon External Power Regulator MB-22. **Nikon Product Number: 4624 NAS**



**POWER SOURCES**

Nikon battery packs provide extra power for maximum film-advance speeds, and extended operating periods. Power cords and converters allow your F4s to operate on standard AC/DC power for uninterrupted service.

**HIGH SPEED BATTERY PACK MB-21**



Included as standard equipment with the F4s, the MB-21 consists of a base with battery holder and a grip unit, each of which holds three AA-type alkaline-manganese or NiCad batteries. Shutter release button with lock function, battery checker LEDs, vertical shutter release, and a remote terminal are also provided.

**Nikon Product Number: 4632 NAS**

**COMPACT AA TYPE BATTERY PACK MB-20**

Powered by four AA-type alkaline-manganese batteries, the MB-20 also serves as the grip for the F4S. **Nikon Product Number: 4631 NAS**



**EXTERNAL POWER REGULATOR MB-22**

The MB-22 consists of the grip portion MB-21G, in common with the MB-21, and the bottom portion MB-22B. The terminal enables connection with Nikon AC/DC converter MA-4 via Nikon External Power Cord MC-11. A regulator, which converts the 15V current of the MA-4 to 8.2V, and a remote terminal, are provided. **Nikon Product Number: 4633 NAS**

#### MULTI-POWER HIGH SPEED BATTERY PACK MB-23

Complete system consists of unitized battery pack/hand grip assembly and one-piece battery tray for AA-type alkaline-manganese batteries or optional NiCad Battery Pack MN-20.  
**Nikon Product Number: 4634 NAS**



#### NICAD BATTERY PACK MN-20

Used with MB-23 Battery Pack, the MN-20's NiCad batteries are better suited than other batteries for cold-weather operation. Shoot approximately 80 rolls (36 exp.) at 14°F (-10°C).

**Nikon Product Number: 111 NAS**



#### NICAD BATTERY CHARGER MH-20

NiCad battery charger for MN-20 (holds two MN-20 batteries and charges them one at a time in approximately three hours).

**Nikon Product Number: 112 NAS**



#### AA BATTERY HOLDER MS-21

Replacement battery holder for MB-21. Holds 3 AA batteries.

**Nikon Product Number: 4637 NAS**



#### 6-PIECE AA BATTERY HOLDER MS-23

Replacement battery holder for MB-23. Allows the use of 6 AA batteries.

**Nikon Product Number: 4640 NAS**

#### EXTERNAL BATTERY PACK DB-6

The DB-6 provides added power for prolonged or low-temperature shooting. Uses six D-type batteries and connects to the High Speed Battery Pack MB-23 via MC-28 cord.

**Nikon Product Number: 3069 NAS**



#### EXTERNAL POWER CORD MC-28

For use with DB-6 and MB-23. Connects external battery pack to camera.

**Nikon Product Number: 4658 NAS**



#### MOTOR DRIVE POWER CONVERTERS

##### AC/DC CONVERTER POWER SUPPLY MA-4

Especially recommended when using the F4s for extended studio use. Supplies constant 15V DC current to MB-22. Requires MC-11 Power Connecting Cord.

**Nikon Product Number: 42 NAS**



##### EXTERNAL POWER CORD MC-11

Connects the MD-4 converter into the external power terminal of the MB-22.

**Nikon Product Number: 132 NAS**



OTHER ACCESSORIES AND REMOTE CONTROL DEVICES FOR THE F4s APPEAR IN THEIR OWN SECTIONS OF THIS GUIDE. SEE 35MM LENSES, LENS ACCESSORIES, FOCUSING SCREENS AND VIEWFINDERS, SPEEDLIGHTS, CLOSE-UP, REMOTE CONTROL, CAMERA CASES AND OTHER ENTRIES.

#### F 4 s

- Incomparable construction, testing and materials
- 5-segment Matrix Metering, Center-Weighted metering (60/40 balance), Spot metering (5mm diameter circle in center of viewfinder)
- Matrix-balanced fill-flash with Nikon TTL Speedlights
- Bright viewfinder system with virtual 100% coverage and full information readout including aperture-direct readout and frame counter
- Autofocus with focus tracking
- Manual focus with electronic rangefinder to EV minus 1
- Top shutter speed 1/8000 sec.; top flash sync 1/250 sec.
- Low-vibration, tungsten-alloy shutter
- Single-frame, continuous low speed (3.4 frames per sec.) and continuous high speed film advance (5.7 frames per sec.)\* Also continuous quiet film advance (1 frame per sec.)
- \* With the Nikon High Speed Battery Pack MB-21.
- Five exposure modes — M (Manual), P (Program), PH (High-Speed Program for faster shutter speeds), S (Shutter-Priority) and A (Aperture-Priority)
- Simultaneous autofocus/auto exposure lock button
- Multiple exposure lever; mirror lockup lever
- Depth-of-field preview button
- Interchangeable viewfinders, focusing screens
- Interchangeable battery packs, power sources
- Interchangeable camera backs including 250-exposure Multi-Control Back
- Nikon F lens mount means the F4s works with all AI-S lenses, AF Nikkor lenses, AI and non-AI lenses

**Nikon Product Number: 1791 NAS**

# E2N

## DIGITAL STILL CAMERA

*No one knows professional photography or the needs of photojournalists like Nikon. For instant image availability, digital images are the preferred format, and for digital images with a professional edge, nothing comes close to the new Nikon E2N. That's why for publishers and photographers seeking an edge in today's competitive market, there's no more compelling investment than the Nikon E2N professional digital camera. The future is now!*



### STATE-OF-THE-ART TECHNOLOGY

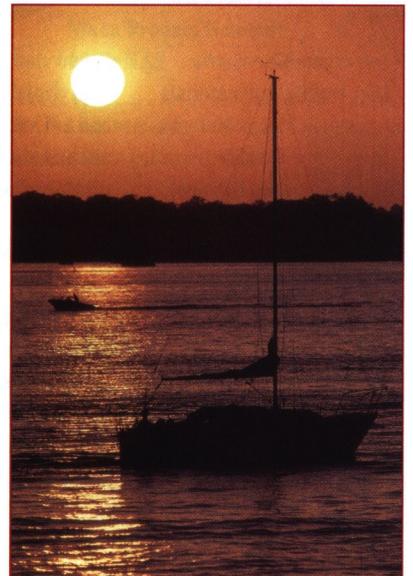
The Nikon E2N incorporates a 2/3 inch, 1.3 million pixel CCD imaging sensor that captures full-color images and establishes a new professional standard for high-resolution digital imaging. Viewed on a computer screen or television monitor, or output through a high-performance Nikon color printer, the results are exceptional — a sharp, clear, high-resolution image with beautifully balanced color.

### IDEAL FOR NUMEROUS DISCIPLINES

The Nikon E2N offers professional image quality ideal for numerous disciplines. For portrait, studio and I.D. copy, the E2N lets you simply compose, shoot and instantly display the image via the camera's analog video output and any compatible television monitor. In the medical, scientific, industrial and forensic fields, the E2N can add a new dimension to your work, enhancing your ability to maintain detailed records and produce materials for publication. For newspaper and journalism applications, the E2N lets you meet your deadlines faster than ever. Its quick turnaround time is also ideal for catalog photography.

### CAPTURE THE FULL VIEW

Nikon's outstanding Reduction-Optics Technology enables the E2N to capture the wide view you've always wanted. Reduction-Optics Technology compresses the full 35mm lens image into the smaller 2/3 inch CCD format. And it's only available with the E2N from Nikon, the leader in optical design.

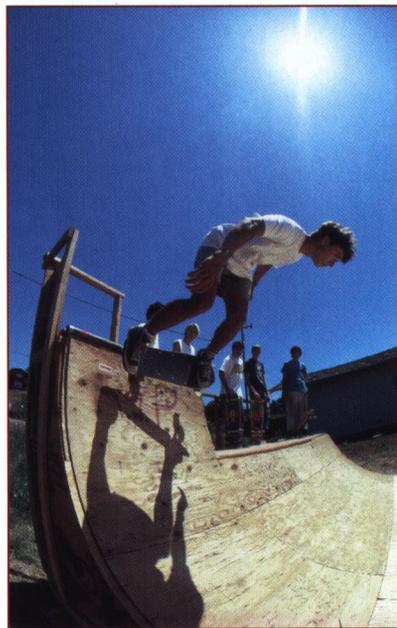


#### SYSTEM COMPATIBILITY

The E2N is fully integrated into the Nikon system. From the wide selection of compatible Nikkor optics, to Nikon AF Speedlights, to the familiar Command Dial and user-friendly LCD, the E2N is the natural choice for professional digital shooting. And, just like the rest of the Nikon system, the E2N possesses a user-friendly size and balance, and feels comfortable in your hands.

#### WORLD ACCLAIMED EXPOSURE CONTROL

The E2N puts you in control of just about any lighting situation with a full set of light meters. The five-segment Matrix Meter, Center-Weighted meter with 70/30 balance, and Spot meter that reads approximately 2.5% of the picture area can be used with Program, Aperture-Priority, Shutter-Priority and Manual exposure controls. When used with Nikon AF Speedlights like the SB-26, the E2N offers a broad spectrum of creative flash options from Matrix Balanced Fill-Flash to Rear-Curtain Sync and wireless multiple flash operations.



#### DIGITAL AGE

*"As a commercial photographer for 21 years, with clients including major agencies, corporations and the New York Times, I'm convinced that our society is a visual society, driven by images. And now that the digital age is here, the possibilities are endless. Nikon's E2s is expanding my career photographically, since now I can transmit and communicate visuals in a matter of seconds. For the first time, my editor or client can receive an image almost the very moment I capture it. As someone who communicates visually, I feel free and enthused again. I'm truly excited about the world of digital photography, because I can see many more applications than are presently being exploited. And the E2s from Nikon is the instrument to take us there."*

*Lou Manna*

Lou Manna



**THE NIKON E2s WAS ONE OF THE FIRST PROFESSIONAL HIGH-PERFORMANCE DIGITAL CAMERAS OFFERED FROM THE WORLD LEADER IN HIGH-QUALITY 35MM SLR PHOTOGRAPHIC EQUIPMENT. THE E2s IS SIMILAR IN FUNCTIONALITY TO THE E2N, HOWEVER ADDITIONAL MEMORY (SRAM) ALLOWS FOR INCREASED PERFORMANCE OF 7 CONSECUTIVE FRAMES AT 3 FPS IN CONTINUOUS MODE.**

#### E 2 N

- E2N provides approx. 1.0 fps capability
- Lens-interchangeable SLR-type digital camera
- CCD: 2/3 inch type; 1.3 million pixels (1,280 x 1,000 array); captures 8-bit full-color image
- Nikon F lens mount
- Uses AF Nikkor and AI-S type Nikkor lenses with limitations
- Three focus modes: Single-Servo Autofocus (S); Continuous-Servo (C); and Manual (M)
- Autofocus operation
- Matrix Metering, Center-Weighted metering (70/30) and Spot metering
- Exposure modes: Program (P), Shutter-Priority auto (S), Aperture-Priority auto (A) and Manual (M)
- Aperture controlled by built-in diaphragm inside Reduction Optics
- AE Lock button
- Exposure compensation possible within + or - 2 EV range in 1/4 steps
- Shutter speed 1/2000 sec.
- Flash sync speed 1/250 sec.
- Nikon advanced B-type BriteView focusing screen
- Nikon ED-10 Card Drive For use with PCs that do not have a PC card slot.
- Wt. 4.0 lbs. Dim. 6.5 x 4.7 x 5.5".

Nikon E2N Camera Body Product Number: 25005 NAS

# N90s

**FAST, ACCURATE,  
PROFESSIONAL**

*Nikon's N90s features a remarkably fast and accurate autofocus system. New software, faster processing speed, a cross-type wide-area sensor, automatic Focus Tracking with Lock-On™, a high-speed lens-driving system, exposure control in 1/3 EV steps, Nikon's exclusive 3D Multi-Sensor Balanced Fill-Flash, Vari-Program and an array of other advanced features, make the N90s an outstanding 35mm professional camera.*

*N90s shown with optional MB-10 Multi-Power Vertical Grip*



## **ADVANCED AUTOFOCUS SYSTEM**

The Nikon N90s advanced autofocus system tracks fast subjects moving toward or away from the camera. Subjects can also be moving erratically. When shooting a sequence, the N90s's Focus Tracking System identifies the subject sooner than ever before. The subject is then tracked through the entire range of motorized film advance—single or continuous—right up to close range. The result of these automatic Focus Tracking breakthroughs is 4.1 fps. Improved focusing speed can be attributed to technological enhancements in the autofocus software. Focus detection has been quickened through an improved algorithm. Shutter charge time has been lessened. Film advance speed has been improved via an upgraded coreless motor drive with ultra-

fast motor rotation and high-torque. And a new CPU makes for 50% faster calculation.

## **FOCUS TRACKING WITH LOCK-ON**

The N90s autofocus system excels where others fail—at great distances and extremely close-up. Subject acquisition is virtually instantaneous and once determined, the system literally “locks-on” to its target. Even if the subject momentarily leaves the wide-area autofocus zone, or another subject momentarily comes between the main subject and the camera, Focus Tracking with Lock-On stays with your original subject.



**FOCUS TRACKING WITH LOCK-ON**

### EXPOSURE CONTROL IN 1/3 EV STEPS

The N90s offers 1/3 EV shutter speed exposure control. This means you can more precisely fine-tune your exposures – whether in manual, automatic, one of the N90s's Vari-Program modes or even when using flash.

### CAM 246 WIDE-AREA SENSOR

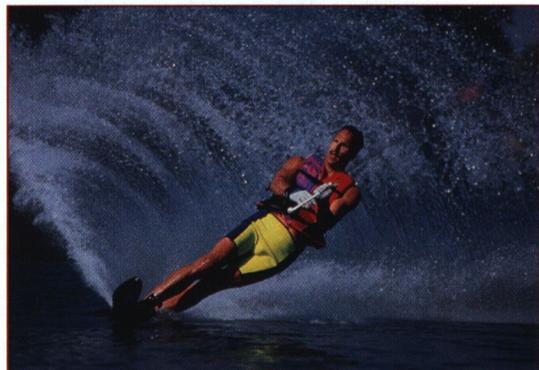
The N90s's CAM 246 autofocus sensor module is a continuous CCD array. Providing a vast amount of quickly processed focus detection data, the sensor's cross-type design ensures quick detection of the subject. It also ensures fast autofocus of subjects with horizontal or vertical details. Both Wide-Area and Spot autofocus selections are available.

### WORKS WITH ALL AF NIKKOR LENSES

Unlike other AF systems that may require lenses of f/2.8 or faster for full autofocus operation, the N90s AF system functions completely with all AF Nikkor lenses with maximum aperture of f/5.6. Even add teleconverters and still achieve fast, accurate autofocus.

### WIDE-AREA AND SPOT AUTOFOCUS

The N90s offers two autofocus systems to let you deal with more picture-taking situations with greater ease. Use Wide-Area Autofocus, with its contiguous 7mm wide focusing zone that covers over 20% of the frame with no "dead spots"; when subjects are off-center or moving quickly. Use Spot Autofocus



to concentrate on small areas crucial to your composition. Nikon's CAM 246 cross-type autofocus sensor module makes it possible. The 7mm wide horizontal sensor and 3mm high vertical sensor work together to ensure autofocus, and both function regardless of the maximum aperture AF Nikkor lens in use.

### 3D MATRIX METERING

The N90s uses an 8-segment Matrix Meter to evaluate the scene. When used with D-type autofocus lenses, it combines this exposure information with data on subject distance and focus. Distance information is used to enhance exposure calculations. Computers found in both the N90s and the D-type lenses share information, while Nikon software



processes the data using advanced algorithms and fuzzy logic. Now potentially troublesome light conditions are handled beautifully and effortlessly by the N90s.

### 5-SEGMENT TTL FLASH SENSOR

The N90s adds matrix-like metering technology to flash photography. Built into the N90s is a 5-segment flash sensor. This TTL multi-sensor works with all Nikon TTL-controlled Speedlights, enabling automatic balanced fill-flash even in bright snow and sand, as well as dim light, indoors or out. Matrix-like flash analysis yields exceptional results, even in situations that might fool other systems

### 3D MULTI-SENSOR BALANCED FILL FLASH

This is the highest flash performance possible. When using a combination of the N90s, a D-type AF Nikkor lens and a Nikon SB-26 or SB-25 Speedlight, the N90s uses its 8-segment meter to evaluate ambient light. The SB-26 or SB-25 then fires a series of invisible monitor pre-flashes, which the N90s's 5-segment flash sensor analyzes. Distance information from the lens—including picture composition analysis—and other exposure control data are then integrated and subject reflectance is determined. Flash output is automatically compensated and balanced with the ambient light. The result is superb flash photographs.



### FP HIGH SPEED SYNC FLASH

Using a Nikon N90s and SB-26 or SB-25 Speedlight set to the FP mode, flash sync speeds up to 1/4000 sec. are possible. Use films with high ISO ratings for fill-flash. Maintain correct background and sky exposures, even when shooting fill-flash photos in bright light outdoors. Maintain wide-aperture settings for expanded control of depth-of-field.

### VARI-PROGRAMS

Now you can choose the type of pictures you want to make — automatically. You make your selection, and the N90s does the rest. When used with the SB-26 Speedlight, even a Red-Eye Reduction program is included.

### MULTI-POWER VERTICAL GRIP MB-10

The Multi-Power Vertical Grip MB-10 adds dimension to the bottom of the N90s, making the grip larger without adding excessive weight. It also enables the N90s to be held vertically, providing a vertical shutter release button. Another feature of the MB-10 is its quick-change battery clip, which easily slides in and out for fast power changes. The clip accommodates either four AA-type batteries with the standard MS-10 battery tray or two three-volt lithium cells using the optional MS-11 battery tray.

#### Nikon Product Numbers:

- MB-10 4627 NAS
- MS-10 4628 NAS
- MS-11 4629 NAS



MB-10



MS-11



MS-10

### NICAD BATTERY PACK AND CHARGER SYSTEM

For use with N90s/N90 cameras, the NB-100 NiCad battery provides sufficient power to shoot approximately 60 rolls of 36 exposure film. Can be charged and discharged approx. 500 times. Excellent low temperature performance. The NC-100 NiCad Battery Charger is the exclusive charger for the NB-100 NiCad battery. Recharges NB-100 in approx. 60 minutes and automatically switches over from battery A to battery B when charging sequentially. Conditioning feature fully discharges the battery before recharging and adds approximately 30 minutes to recharge cycle. Supplied with NC-100 110v power adapter.

#### Nikon NB-100 NiCad Battery

Product Number: 5229 NAS

#### Nikon NC-100 NiCad Battery Charger

Product Number: 5230 NAS



HYPERFOCAL PROGRAM



LANDSCAPE PROGRAM



SPORT PROGRAM



CLOSE-UP PROGRAM



PORTRAIT PROGRAM



PORTRAIT WITH RED-EYE REDUCTION PROGRAM



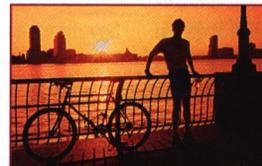
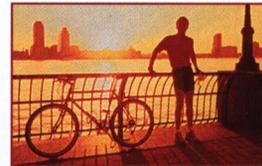
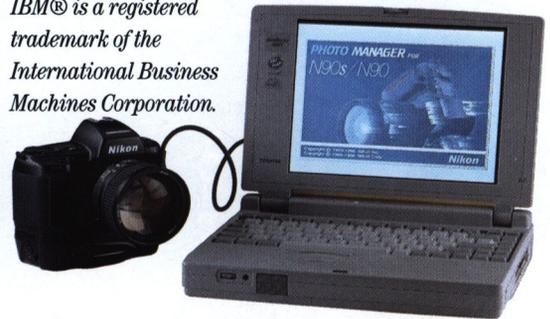
SILHOUETTE PROGRAM

### NIKON SOFTWARE ENHANCES PERFORMANCE EVEN FURTHER



Propel your camera even further with new Nikon software. It provides the utilities of data management and camera control for the N90s, formerly made possible with the Data Link. Nikon software operates with a Nikon N90s connected directly with a software equipped IBM compatible computer. Nikon software will enhance the performance and value of your N90s and enable you to expand the use of your computer into your business or hobby of photography. System consists of an MC-31 camera-to-PC connecting cable and Nikon's exclusive software, which operates with laptop and desktop units.

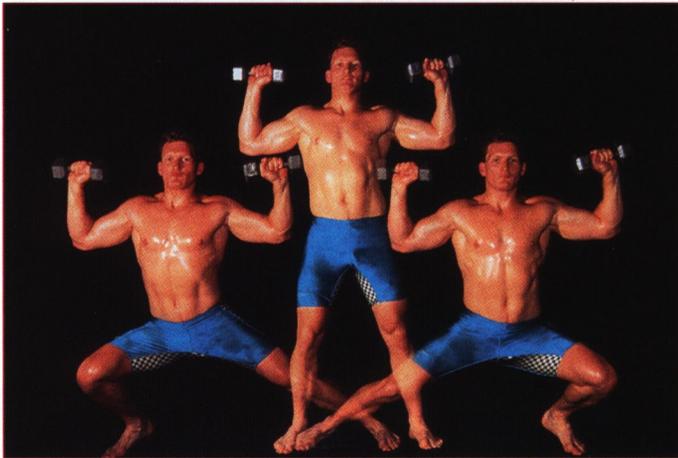
*IBM® is a registered trademark of the International Business Machines Corporation.*



ALL-MODE EXPOSURE BRACKETING

### THE MF-26 — MULTI-CONTROL BACK FOR THE FUTURE

The MF-26 Multi-Control Back for the N90s is your key to making extraordinary photographs. Imprint your photos with date, time, frame number, shutter speed, aperture setting and other information. The MF-26's Interval Timer allows you



to create a series of pre-timed photos, automatically. All-Mode Exposure Bracketing allows you to shoot from 3 to 19 frames, each with a different exposure. Flash Bracketing lets you vary flash output over a specified range. Multiple Exposure and Freeze Focus functions are also at your disposal.  
**Nikon Product Number: 4626 NAS**



#### THE MF-25 — PUTTING TIME ON YOUR SIDE

If time is all you're after, the MF-25 World Time Data Back can imprint your pictures with selected date and time information within each frame. Timing is quartz-controlled and the MF-25's world alarm clock tells you the time throughout the world.

**Nikon Product Number: 4625 NAS**



#### MODULITE REMOTE CONTROL SET ML-3

The compact ML-3 enables automatic N90s camera operation at distances up to 24 feet. It's ideal for wildlife photography, sports events — anywhere your presence might disturb the subject. Auto triggering, delayed shutter release, single and continuous shooting are possible.

**Nikon Product Number: 4645 NAS**



#### REMOTE CORD MC-30

Designed for cameras equipped with 10-pin remote terminal.



Recommended for preventing camera shake during close-up photography. 32" long.

**Nikon Product Number: 0000 XXX**



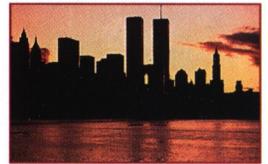
#### REMOTE CORD MC-20

Enables remote firing of N90s and setting of long time exposures up to



9 hours, 59 minutes, 59 seconds. 32" long.

**Nikon Product Number: 4650 NAS**

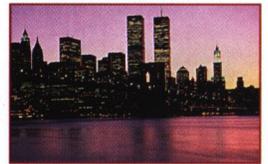


#### EXTENSION CORD MC-21

Enables N90s to be connected to Nikon 10-pin remote accessories. 9.9' long.



**Nikon Product Number: 4651 NAS**

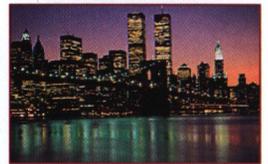


#### REMOTE CORD MC-22

Used for connection to shutter triggering device. 3.3' long.



**Nikon Product Number: 4652 NCP**



#### CONNECTING CORD MC-23

Connects two N90s cameras for simultaneous or synchronized shutter release. Requires Data Link system to control synchronized operation. 16" long.

**Nikon Product Number: 4653 NAS**



#### ADAPTER CORD MC-25

Enables use of two-pin or three-pin Nikon remote accessories such as Nikon Radio Control Set or Nikon Intervalometer. 8" long.

**Nikon Product Number: 4655 NAS**



#### EXTERNAL BATTERY PACK DB-6

The DB-6 provides added power for prolonged or low-temperature shooting. Uses six D-type batteries and connects to the N90s via MC-29 cord.

**Nikon Product Number: 3069 NAS**



#### EXTERNAL POWER CORD MC-29

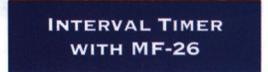
**Nikon Product Number: 4659 NAS**



#### MOTOR REMOTE TRIGGER CORD MC-12B

Enables the remote firing from up to 2.6' of Nikon F4 series cameras, N70 or motor-driven F3 cameras. Built-in hand grip, trigger release button and trigger lock lever.

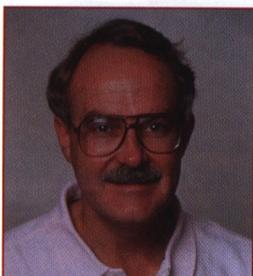
**Nikon Product Number: 4654 NCP**



INTERVAL TIMER WITH MF-26



A NEW EXCITEMENT



*"I need autofocus I can depend upon. I like that the N90s focuses fast, but I like it better because it focuses accurately, too! I've used manual focus for years. But now, shooting with the N90s adds a new excitement to my work. I'm learning new techniques and getting more, sharp pictures."*

John Biever

N 9 0 s

- Advanced autofocus with Focus Tracking with Lock-On up to 4.1 fps
- 8-segment 3D Matrix Metering, Center-Weighted metering (75/25 balance), Spot metering (3mm diameter circle in center of viewfinder)
- Matrix-Balanced Fill-Flash
- 3D Multi-Sensor Balanced Fill-Flash with SB-26 and D-type AF Nikkor lenses
- Bright viewfinder system with full-information readout
- Spot and Wide-Area autofocus with sensor
- Manual focus with electronic rangefinder to EV minus 1
- Top shutter speed 1/8000 sec.
- High-speed flash sync to 1/4000 sec. on manual with SB-26 Speedlight (1/250 sec. automatic)
- Single-frame, normal-speed (2.0 frames per sec.) and high-speed film advance (4.3 frames per sec.)
- Six exposure modes — M (Manual), P (Auto-Multi Program), Ps (Vari-Program), S (Shutter-Priority), A (Aperture-Priority), and Flexible Program
- Interchangeable focusing screens
- Interchangeable camera backs including MF-26 Multi-Control Back
- Data Link System to enhance performance, customize operation
- Nikon F lens mount

Nikon Product Number: 1768 NAS

# F3HP

**RUGGED AND  
RELIABLE**

*The F3HP is another top professional choice. Durable die-cast, aluminum alloy construction, standard high-eyepoint viewfinder, highly Center-Weighted metering, a range of professional features and Nikon system interchangeability make this camera the right solution for demanding environments — and photographers.*



## EVERYTHING YOU NEED

The F3HP features reliable electronic components to provide the correct exposure in any picture-taking situation. A smooth winding mechanism further contributes to its ease and convenience. The F3HP also features a Center-Weighted metering system, titanium shutter and mechanical backup shutter release. A complete line of interchangeable focusing screens, finder accessories, Nikon Speedlights, data backs, intervalometers, remote control accessories and close-up equipment are all compatible to the F3HP.



## MOTOR DRIVE AND ACCESSORIES

### MD-4 MOTOR DRIVE TO CAPTURE THE ACTION

The F3HP accepts the MD-4 Motor Drive. Built as tough as the camera itself, this is the fastest Nikon motor drive mechanism. The MD-4 can expose up to six frames per second. Because of the F3HP's exceptionally

smooth film advance, it can expose up to 140 rolls of film with one set of eight AA-type alkaline batteries. Auto film rewind takes place in just 4.5 seconds.

**Nikon Product Number: 120 NAS**

### AC/DC CONVERTER MA-4

Supplies the MD-4 with stable DC current for extended studio use (requires the MC-11 External Power Connecting Cord).

**Nikon Product Number: 42 NAS**



### POWER CONNECTING CORD MC-11 FOR MD-4

This 10' cord connects the MD-4 to external power.

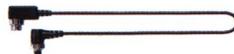
**Nikon Product Number: 132 NAS**



### MULTI-MOTOR CORD MC-17S

Enables the firing of two motor-driven F3 series cameras simultaneously.

**Nikon Product Number: 138 NAS**



### NICAD BATTERY UNIT MN-2 AND CHARGER MH-2

Powers the MD-4. Offers 3.5 hour recharging time. May be recharged approximately



100 times. Works great in pairs — use one while the other is recharging.

**Nikon MN-2 Product Number: 125 NAS**

**Nikon MH-2 Product Number: 126 NAS**

### 250 EXPOSURE MAGAZINE BACK MF-4

Ideal for extended shooting. Trigger button contributes to handling ease. Used with two 250-Exposure Magazine MZ-1 for loading up to 33 feet of bulk film. Requires 250 exposure bulk film loader, Nikon Product Number: 2080 NAS.



**Nikon Product Number: 134 NAS**

### 250 EXPOSURE DATA BACK MF-17 SET

Allows you to imprint data on film with up to 250 sequential shots via operation with Magazine Back MF-4 (included) and optional Motor Drive MD-4. Three simultaneous selections are possible: year/month/ day/hour/minutes/ seconds and hand-written display data. MC-15 cord included.

**Nikon Product Number: 140 NAS**



### AUTO FILM STOP BACK MF-6B

Automatically stops the film from being rewound completely back into the cartridge during auto rewind.

**Nikon Product Number: 136 NAS**



#### FIRING RATE CONVERTER MK-1

Enables the selection of specific firing rates for the MD-4. Choose 1, 2, or 3 frames per second or unrestricted speed as determined by motor operation.

**Nikon Product Number: 121 NAS**



#### MOTOR TERMINAL RELEASE MR-3

Attaches to MD-4 motor and facilitates vertical shooting. Also allows use of AR-3 cable release or the AR-7 double cable release.

**Nikon Product Number: 4563 NCP**



#### EYE LEVEL FINDER DE-2

0.8X magnification with the 50mm lens at infinity. Eyepiece shutter incorporated.

**Nikon Product Number: 2382 NAS**



#### HIGH-EYEPOINT FINDER DE-3

Entire frame including exposure information is visible from approximately 1 inch away from the eyepiece. 0.75X magnification.

**Nikon Product Number: 2386 NAS**



#### ACTION FINDER DA-2

Perfect for situations where normal viewing is difficult or impossible, such as when wearing a helmet or goggles.

**Nikon Product Number: 2385 NAS**



#### WAIST LEVEL FINDER DW-3

Used when the camera is at a low angle or on a copystand. Flip-up magnifier provides 5X magnification of the center of the image.

**Nikon Product Number: 2383 NAS**



#### 6X HIGH MAGNIFICATION FINDER DW-4

For critical high-magnification work. Provides undistorted view of the entire image at full 6X magnification. Fitted with -5 to +3 diopter for eyesight correction.

**Nikon Product Number: 2384 NAS**



#### RIGHT-ANGLE VIEWING ATTACHMENT DR-3

Provides an upright and unreversed image with right-angle viewing. Individual eyesight adjustment possible. Excellent for copy work. (DK-7 required for HP Finder).

**Nikon Product Number: 2326 NAS**



#### EYEPIECE MAGNIFIER DG-2

Provides 2X magnification of the central portion of the finder image. Eyesight adjustment provided. Useful for critical focusing in close-up work. DK-7 required for HP finder.

**Nikon Product Number: 2355 NCP**



#### RUBBER EYECUPS DK-2/DK-4

Increase viewing comfort and prevent stray light from entering viewfinder. DK-2 for F3HP; DK-4 for F3.

**Nikon DK-2 Product Number: 2406 NAS**

**Nikon DK-4 Product Number: 2379 NAS**



#### DATA BACKS

##### DATA BACK MF-18

The MF-18 allows you to imprint data between frames. Imprint options include year/month/day/hour/minutes/seconds or reference numbers to 2000 (only one option is selectable at a time). Enables auto film stop operation with optional Motor Drive MD-4.

**Nikon Product Number: 4566 NAS**

##### DATA BACK MF-14

The MF-14 allows you to imprint data between frames. Imprint options include year/month/day/hour/minutes/seconds or reference numbers to 2000 (only one option is selectable at a time).

**Nikon Product Number: 4411 NAS**

##### MEMO PLATE SET FOR MF-17

Replacement item for MF-17. Enables hand-written display data. Also works with previous MF-10, MF-11.

**Nikon Product Number: 2073 NAS**

##### SYNC CORD FOR MF-17

Replacement cord for MF-17. Also works with previous MF-10, MF-11.

**Nikon Product Number: 2069 NAS**

##### 250 EXPOSURE FILM CASSETTE MZ-1

Film cassette with case. Operates with 250 Exposure Data Back MF-17.

**Nikon Product Number: 2077 NAS**

##### BULK FILM LOADER FOR MZ-1

Enables loading of bulk film.

**Nikon Product Number: 2080 NAS**

##### FILM CASSETTE SPOOL FOR MZ-1

Replacement item for MZ-1.

**Nikon Product Number: 2079 NAS**

#### OTHER FEATURES

TTL flash control • Standard DE-3 high-eyepoint viewfinder system • LCD exposure information readout • Top shutter speed 1/2000 sec. • Flash sync up to 1/80 sec. • Silky smooth manual film advance • Aperture-Priority automatic exposure mode and manual exposure • Exposure memory lock button • Exposure compensation dial • Multiple exposure level • Mirror lockup lever • Depth-of-field preview button • Self-timer with LED indicator • High-speed MD-4 Motor Drive available • Uses all AI-S lenses, AF Nikkor lenses, AI and non-AI lenses.

**Nikon Product Number: 1691 NAS**

# FM2N

## THE TRADITIONALIST'S CHOICE

*If you want manual focus and manual exposure control, here's the way to get it — with proven Nikon performance and durability. And with a top shutter speed of 1/4000 second, the FM2N not only freezes action, but also expands exposure control. That's why the FM2N is the choice of traditionalists everywhere.*



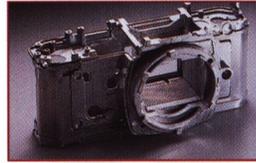
### YOU'RE IN COMMAND

The FM2N is a camera that puts you in charge. Using 60/40 Center-Weighted metering, you select the aperture and the shutter speed to create the type of photographs you're looking for.



### LEGENDARY NIKON PERFORMANCE AND DURABILITY

Like all Nikon F cameras, the FM2N is made to exacting standards with durable die-cast metal body construction and precision



operating features. Vertical-travel aluminum alloy shutter curtains offer reliable, consistent performance. A mirror shock absorber virtually eliminates mirror bounce or shake that might blur some exposures. Four ball-bearing clusters and reduced film winding torque assure silky-smooth film advance.

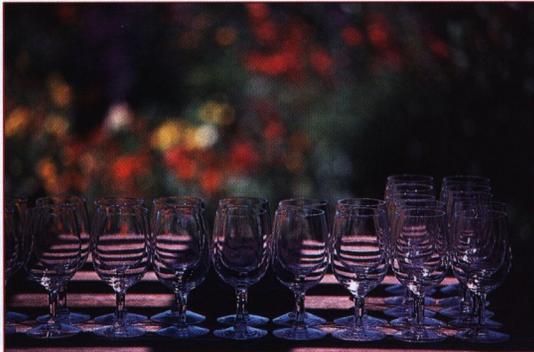
### 3-POINT LED EXPOSURE DISPLAY

In addition to shutter speed and aperture, a 3-point exposure display appears in the viewfinder. It instantly tells you if your exposure is over (+), under (-) or right on (0).



### FAIL-SAFE EXPOSURE METER SWITCH

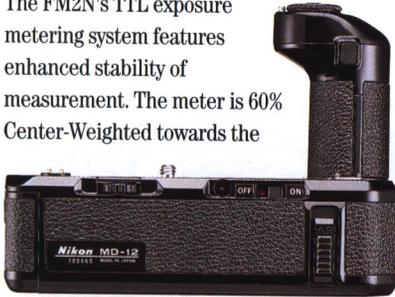
Lightly pressing the shutter release button switches the exposure meter on and activates the LED exposure display. The meter stays on for approximately 30 seconds, then automatically switches off to save power.



### FULL MANUAL EXPOSURE CONTROL

The Nikon FM2N allows full manual exposure control over shutter speed and aperture with quick and easy match-diode metering.

The FM2N's TTL exposure metering system features enhanced stability of measurement. The meter is 60% Center-Weighted towards the



12mm diameter spot at the center of the screen for greater overall exposure balance. With the metering range extending from EV 1 to EV 18, you are assured of superb performance even in bright or dim conditions.



**NIKON SCHOOL PHOTO TIP:**  
THE REAL PURPOSE OF A MOTOR DRIVE IS NOT SEQUENCE PHOTOGRAPHY — IT'S TO MAKE SURE YOUR EYE IS NEVER AWAY FROM THE VIEWFINDER. THUS, YOU ARE ALWAYS READY FOR THAT PEAK MOMENT.

### FULL MANUAL EXPOSURE CONTROL

The FM2N's film speed range of ISO 12 to ISO 6400 is the widest in this class of camera. This enables you to handle virtually any picture-taking situation, including special-purpose films for photomacrography and high-contrast litho films for slide presentations. You can even push film speeds up to 6400 to compensate for low light or to indulge in experimental photography.

### MOTOR DRIVE MD-12

Attach the optional Motor Drive MD-12 to the FM2N, and you're into motor drive photography. Shoot single frames or try sequential shooting at up to 3.2 frames per second.

**Nikon Product Number: 102 NCP**

### F LENS MOUNT

Because the FM2N incorporates Nikon's F lens mount, it uses all of Nikon's current lenses, and hundreds of previous lenses.

### OTHER NIKON ACCESSORIES

The FM2N also accepts a wide range of other Nikon accessories, including the Modulite Remote Control Set ML-2, Intervalometer MT-2, Wireless Remote Control Set MW-3, Battery Pack DB-2, Nikon Speedlights and close-up accessories.

### DATA BACK MF-16

Record year/month/day or day/hour/minute or any 2-digit number on your photographs. Perfect for scientific or research photography. LCD quartz clock ensures precision information.

**Nikon Product Number: 4526 NCP**



### FM2N

- Durable die-cast all-metal body construction provides lightweight rigidity and strength
- Center-Weighted TTL metering (60/40 balance); metering range EV 1 to EV 18
- Interchangeable focusing screens; K2, E2, B2
- Bright viewfinder system with aperture, shutter speed and 3-point exposure display (+ 0 -)
- Silky-smooth manual film advance and transport
- Top shutter speed 1/4000 sec.; top flash sync 1/250 sec.
- Aluminum-alloy shutter curtains for stable, dependable performance
- Depth-of-field preview button
- MD-12 Motor Drive
- MF-16 Data Back
- Nikon F lens mount

**Nikon Product Number: 1683 NCP (Chrome finish camera body)**

**Nikon Product Number: 1684 NCP (Black finish camera body)**

# N70

## THE ART OF MASTERING LIGHT

*Quiet power is what you sense when you operate the N70. With 8-segment 3D Matrix Metering, fast autofocus, Focus Tracking with Lock-On™ at 3.1 fps, a top shutter speed of 1/4000th sec., exposure control in 1/3 EV steps, the world's first built-in 3D Multi-Sensor Balanced Fill-Flash, computerized Vari-Program, 5-segment TTL flash sensor, and Quick Recall Function, the N70 is a camera that is truly in touch with your vision.*



### QUIET OPERATION

Operation so quiet it won't distract. A powerful yet quiet motor drives AF Nikkor lenses for crystal-sharp pictures.

### 8-SEGMENT 3D MATRIX METERING

The N70's 8-segment 3D Matrix Meter is designed to evaluate light in all kinds of picture-taking situations. Outdoors on sunny days, shooting near a window, nighttime photography—even in difficult and harshly lit or low-light situations—the 3D Matrix Meter and the system's microcomputers give the picture optimum exposure. Automatically.

### CENTER-WEIGHTED AND SPOT METERING

Center-Weighted metering concentrates 75% of the meter's sensitivity on an area of the viewfinder outlined by a 12mm circle. This is best for portraits or scenes with severe back-lighting. Spot metering concentrates the exposure in a 3.5mm diameter circle in the center of the viewfinder. Use it to create special effects or for truly unusual light

situations. This metering system is effective when precise measurement of a portion of the subject is required.

### LIQUID CRYSTAL INFORMATION DISPLAY PANEL

The newly designed panel makes understanding the N70 easier than ever. Control buttons are colored to correspond to the display. The LCD panel is bigger than ever for easy viewing, and there are fewer buttons overall.

### FIVE EXPOSURE MODES

Choose from 5 exposure modes plus the use of Flexible Program.

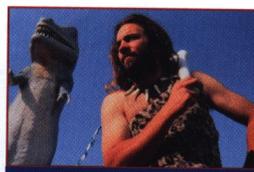
**Auto-Multi Program** For most picture-taking situations, choose the "P" exposure mode. This program adjusts aperture and



COMMAND INPUT  
CONTROL SYSTEM  
WITH NEW  
LIQUID CRYSTAL  
DISPLAY PANEL



**PORTRAIT PROGRAM**



**HYPERFOCAL PROGRAM**



**LANDSCAPE PROGRAM**



**CLOSE-UP PROGRAM**



**SPORT PROGRAM**



**SILHOUETTE PROGRAM**



**NIGHT SCENE PROGRAM**



**MOTION EFFECT PROGRAM**

**FILM ADVANCE**

The N70 offers single-frame advance (S), where the camera advances the film to the next frame following each exposure, continuous low-speed advance (CL), where the camera fires two frames per second as long as the shutter remains depressed, or continuous high-speed film advance (CH), where the camera exposes 3.7 frames per second.

shutter speed automatically. Combining this exposure mode with matrix-metering or especially 3D Matrix Metering, equips you with an instantly responsive system, able to deal with a wide variety of situations. The program is designed to minimize blur due to camera shake, and automatically adjusts for varying focal lengths.

**Vari-Program** This program gives you all the power of the N70's features—with the versatility and convenience of automation. Not every situation can be accommodated with one set of program controls, so the N70 offers you eight, each designed to handle a different picture-taking situation.

**Flexible Program** In any Program Mode (including Vari-Program), you can change the combination of shutter speed and aperture by turning the Command Input Control dial, and still obtain a correct exposure. So, even though the N70 is in automatic program operation, you can still have user-creative opportunities. Flexible Program also operates when using flash.

**Aperture-Priority** With this mode, you set the desired aperture while the camera sets the shutter speed. Higher aperture settings, such as f/11 and f/16 offer greater depth-of-field. Lower settings, such as f/2.8 and f/4 offer shallower depth-of-field, making your subject stand out from the background.

**Shutter-Priority** You determine the shutter speed while the camera automatically sets the aperture. Create a feeling of movement with lower shutter speeds, or stop the action with higher speeds.

**Manual** You determine both aperture and shutter settings. Create exactly the effect you're looking for.

**QUICK RECALL (QR) FUNCTION**

The N70 can memorize your favorite camera settings. Three different sets of the following functions can be memorized. These include film advance mode, focus area, focus mode, metering system, exposure mode, flash sync mode and exposure compensation. Now at the push of a button, the N70 is set up just the way you want it.

**EXPOSURE COMPENSATION**

Compensate your exposures within a range of + or -5 EV automatically using the exposure compensation dial (1/3 steps).

**AUTOFOCUS WITH AUTOMATIC FOCUS TRACKING AND LOCK-ON™**

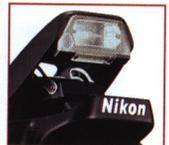
Quick, responsive autofocus is built into the N70. Using Nikon's cross-type AF sensor with an extra-wide detection of 7mm horizontal and 3mm vertical, this allows you to quickly lock-on to your subject either in single or continuous AF modes. Even subjects in light as dim as -1 EV are quickly detected. With Nikon's precision autofocus system, Focus Tracking automatically engages when your subject moves. The N70's AF system is so precise it actually locks-on to your subject, even when momentarily interrupted. For example, if locked-on to a quarterback at a football game, and another player momentarily comes between you and the quarterback, the N70 keeps locked-on to the original subject. Focus Tracking operates at 3.1 fps.

**MANUAL FOCUS WITH ELECTRONIC RANGEFINDER**

When focusing manually, the N70 helps you achieve sharp focus with a precision electronic rangefinder. Illuminated viewfinder arrows guide you through the focusing process, even in light as dim as minus 1 EV (equal to the light of only 1 candle).

**ADVANCED BUILT-IN SPEEDLIGHT**

The N70 features an advanced built-in Speedlight for those pictures which call for additional lighting. A higher pop-up position reduces red-eye and covers 28mm. No ordinary built-in flash, the N70's powerful speedlight offers Nikon's exclusive 3D Multi-Sensor Balanced Fill-Flash.



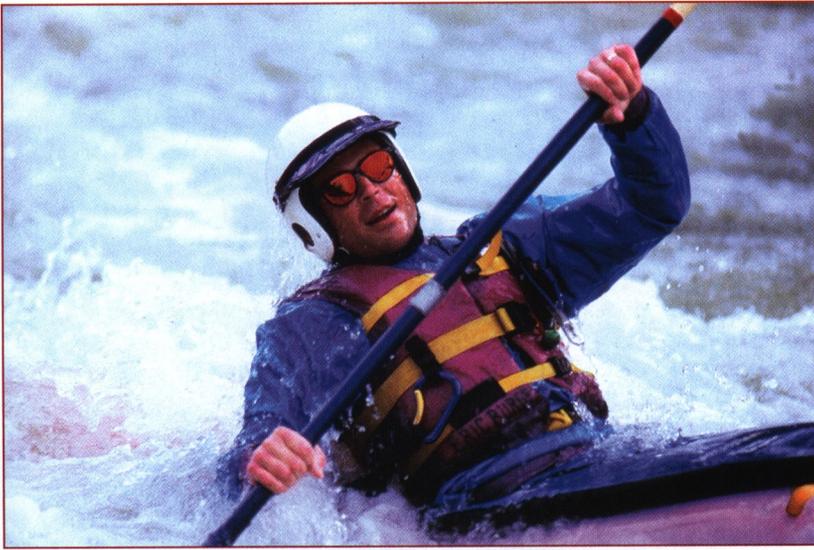
**3D MULTI SENSOR**

**BALANCED FILL-FLASH**

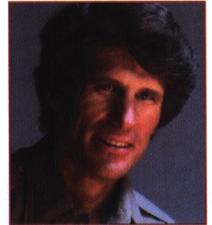
Nikon's exclusive flash control system ensures correct exposure of the main subject even in scenes that include a highly reflective background or something very close in the foreground. With the N70, flash output is controlled through Nikon's 5-segment TTL Multi Sensor. Before the main flash fires, the TTL Multi Sensor tests the entire scene with imperceptible Monitor Pre-flashes and subject reflectance is determined. This makes it possible to detect which segments to ignore, in which segments the main subject is located and what amount of light is needed. Flash output is then controlled through the selected segment(s). 3D Multi-Sensor Balanced Fill-Flash operates effectively with all three available light meters: Matrix, Center-Weighted and Spot.



## RAPID SHOOTING



"I was really pleased with the kayaking shots we got utilizing the N70's Focus Tracking with Lock-On. Frame after frame after frame. Eight, ten, twelve frames in a row — all dead sharp. When the kayak would enter the start of the rapid, I would push my finger on the shutter release and wait until I saw the two little arrows pointing at each other through the viewfinder. That told me Focus Tracking was engaged. Then when the kayak was close enough, I put my finger down and click, click, click, click — every frame was sharp! The autofocus system with Focus Tracking does far better than I could ever do manually. It's wonderful."



## AERIAL ARTISTRY



"What really convinced me that the N70's 3D Matrix Metering was doing a fantastic job was shooting aerals, without having any exposure bracketing. I just put it on Aperture-Priority or Program and shot away with 3D Matrix Metering, and the shots came out right-on! Even if there were hot reflections or vivid light contrasts in the scene, the 3D Matrix Metering was able to interpret the information from different segments. The end-result was that with 3D Matrix Metering, I got more perfect exposures than I could ever produce manually."

*Galen Rowell*

Galen Rowell

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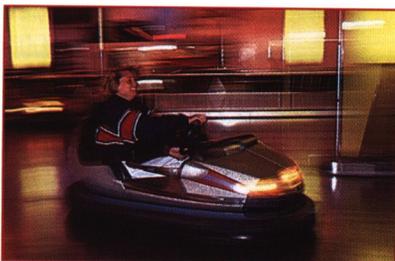
- Autofocus with focus tracking with Lock-On to 3.1 fps
- 8-segment 3D Matrix Metering, Center-Weighted metering (75/25 balance), Spot metering (3.5mm diameter circle in center of viewfinder)
- 3D Multi-Sensor Balanced Fill-flash with built-in and accessory Nikon TTL Speedlights
- High-eyepoint viewfinder system with full information viewfinder
- Quick Recall Function
- Manual focus with electronic rangefinder to EV minus 1
- Top shutter speed 1/4000 sec.; top flash sync 1/125 sec.
- Single-frame, continuous low speed (2 frames per second) and continuous high speed film advance (3.7 frames per sec.)
- Five exposure modes — M (Manual), S (Shutter-Priority), A (Aperture-Priority), and two types of programmed auto modes: P (Auto-Multi Program) and Ps (Vari-Program)
- Nikon F lens mount
- Auto exposure lock button
- Unique Liquid Crystal Information Display Panel
- Built-in Speedlight covers up to 28mm

Nikon Product Number: 1793 NAS

# N6006

## DARING PHOTOGRAPHY

*When you're ready to start making the world's greatest pictures, the N6006 is ready for you. With built-in wideangle flash, motor drive, three light meters, autofocus and an array of other features, the N6006 dares anyone to try new and exciting photographic techniques.*



### 5-SEGMENT MATRIX METERING

An excellent light meter for action photography, the N6006 uses 5-segment Matrix Metering for reliable exposures even in difficult or rapidly changing light conditions. The Matrix Meter breaks the scene down into 5 segments, evaluates each for brightness and contrast, and provides the correct exposure of the main subject in virtually any lighting situation.

### SPOT AND CENTER-WEIGHTED METERING

To place more emphasis on a centrally located subject, select Center-Weighted metering, which concentrates 75% of the exposure on the center of the viewfinder. To concentrate the exposure further, switch to Spot metering. Now the exposure is based on a 3.5mm-diameter circle in the center of the viewfinder. The Spot meter is effective when precise measurement of the subject is required.

### BUILT-IN WIDEANGLE FLASH

This flash works beautifully with your N6006 light metering systems. Touch the buttons and it pops up, ready for use. This flash offers the widest coverage of any built-in Speedlight (covers Nikon lenses down to 28mm). The N6006 flash offers a guide number of 43 (with ISO 100 film/feet).



### MATRIX-BALANCED FILL-FLASH

Using Matrix Metering, the N6006 computer evaluates the scene's available light brightness and contrast and calculates the exposure. It then fires the flash, controlling output for a balanced fill-flash picture. You'll use this flash for everything from still-life to action photographs, since automatic flash sync speeds range from 1/125 all the way down to 30 full seconds.

### REAR-CURTAIN FLASH

Using either the built-in Speedlight or an accessory Nikon Speedlight, you can also make unusual Rear-Curtain Sync photographs. With this technique, the flash fires at the end of the exposure, rather than at the beginning. Using slow shutter speeds, a stream of motion will appear behind the moving subject.





**SLOW SYNC FLASH  
WITHOUT  
COMPENSATION**



**SLOW SYNC FLASH  
WITH  
COMPENSATION**

#### FLASH COMPENSATION

Make superb matrix-balanced fill-flash photographs, right out of the box. To modify the power of the flash to create brighter or more subtle tones, the N6006 offers flash compensation. Simply dial in your change to the flash power, from +1 to -3 EV.

#### SLOW SYNC FLASH

For sunsets or night scenes, etc., a better background exposure may be achieved in all auto exposure modes using Slow Sync. With Slow Sync, the flash fires at the beginning of the exposure and shutter speed is controlled between 1/125 sec. and 30 sec.

#### HIGH SPEED AUTOFOCUS WITH FOCUS TRACKING

The N6006's autofocus system will operate in light as dim as that of one candle (EV-1). Choose Single Autofocus, where focus remains locked until you again press the shutter release, or Continuous Autofocus, where the system focuses and refocuses automatically, as long as the shutter release is slightly depressed. In either mode, if the subject is moving, Focus Tracking takes over and makes any necessary adjustments. Focus manually using the electronic rangefinder, or press the Focus Lock Button to create off-center compositions.

#### FIVE AUTOMATIC EXPOSURE MODES INCLUDING MANUAL

Using the Program Mode (P), your N6006 will automatically set the appropriate aperture and shutter speed for you. By switching to the Auto Multi-Program mode (Pm), you automatically switch the camera to higher shutter speeds, ideal for use with telephoto lenses. Or, choose Shutter-Priority (S) to freeze or blur the action. Choose Aperture-Priority (A) to create a greater or shallower depth-of-field. Or, operate the camera on Manual (M), where you choose the aperture and shutter speeds that meet your needs. Use the Auto-Exposure Lock Button to set the exposure on the subject — then recompose any way you like. Flexible Program allows you to modify aperture and shutter speed combinations when using Program Modes.

#### AUTO EXPOSURE BRACKETING

Bracket either 3 or 5 exposures automatically. Choose the amount of compensation between each frame in 0.3, 0.7 or 1 EV increments. Produce a range of exposures of the same subject, quickly and easily.

#### VARIABLE SELF-TIMER

The N6006's self-timer lets you choose a delay of from 2 to 30 seconds. Also take two self-timer shots in a row, automatically.

#### ON THE BEACH

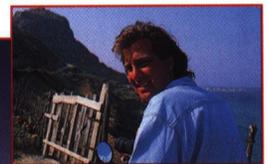
*"A lot of camera systems would have trouble with a shot like this. Dim light, a slightly off-center sun behind the subject, and rapidly changing light make this a difficult photographic situation.*

*However, the features in the N6006 made this picture possible at virtually the touch of a button. Matrix Metering, the built-in wideangle flash and the camera's Slow Sync flash capability handled the situation beautifully. To produce a number of exposures, I used the camera's auto bracketing feature to produce five separate shots. The N6006 is a great way to make all sorts of photographs."*

Brett Froomer



**AUTO EXPOSURE  
BRACKETING**



**NIKON SCHOOL PHOTO TIP:**  
PART OF WHAT CAN MAKE A GOOD PORTRAIT IS NOT JUST THE PERSON YOU ARE PHOTOGRAPHING BUT HOW THEY RELATE TO THE SPACE AROUND THEM. AN ENVIRONMENTAL SETTING CAN HELP SHOW WHAT A PERSON DOES OR WHAT KIND OF A PERSON THEY ARE.

#### N 6 0 0 6

- Advanced Nikon features
- Built-in, wideangle flash (provides coverage down to 28mm lenses)
- 5-segment Matrix Metering, Center-Weighted metering (75/25 balance), Spot metering (3.5mm diameter circle in center of viewfinder)
- Matrix-balanced fill-flash with built-in optional Nikon Speedlights
- Full information readout
- Autofocus with focus tracking
- Manual focus with electronic rangefinder to EV-1
- Top shutter speed 1/2000 sec.; top flash sync 1/125 sec.
- Single-frame, (CL) low-speed film advance at 1.2 frames per second, and (CH) high-speed film advance at 2 frames per sec.
- Five exposure modes — M (Manual), P (Normal Program), PM (Auto Multi-Program for faster shutter speeds), S (Shutter-Priority) and A (Aperture-Priority) and Flexible Program
- Autofocus lock button; auto exposure lock button
- Two-shot self-timer
- Nikon F lens mount
- Uses 6V lithium battery

Nikon Product Number: 1770 NCP

# N50

## SHORTCUT TO GREAT PICTURES

*Now great Nikon photographs are as easy as pushing a button. Want a portrait? Push a button. Want a silhouette? Push a button. Want a close-up? Push a button. The N50's automatic operation can give you the kind of photos you'll be proud to show and hang on your wall. Automatic focus, Matrix Metering, built-in flash, interchangeable lenses and other advanced features make the N50 the perfect step up to Nikon 35mm SLR photography.*

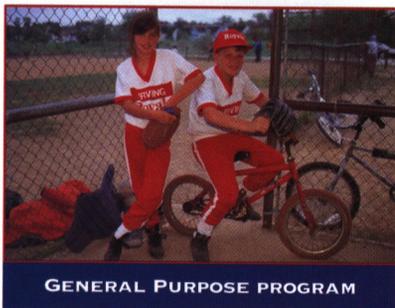


### GET THE KIND OF PICTURES YOU'VE ALWAYS WANTED — QUICKLY AND EASILY

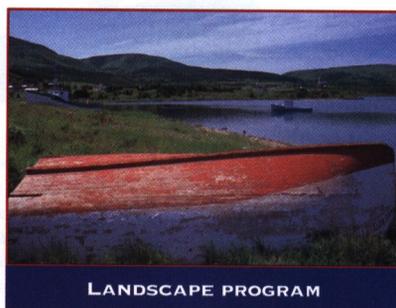
Nikon's N50 delivers an array of great 35mm SLR photographs at just the touch of a button. It's the ideal "step-up" camera for photographers who might have been intimidated by 35mm SLR photography.

#### SIMPLE MODE

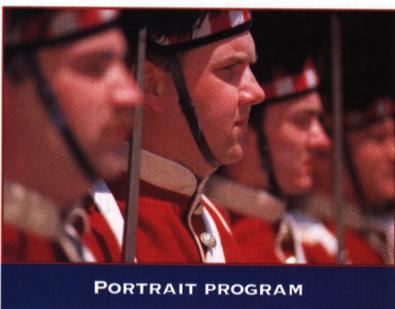
With the camera set on the "simple" mode, just press a button to create the kind of Nikon photograph you want. While you compose, the N50 automatically sets the exposure. Focus is automatic in light as low as EV minus 1.



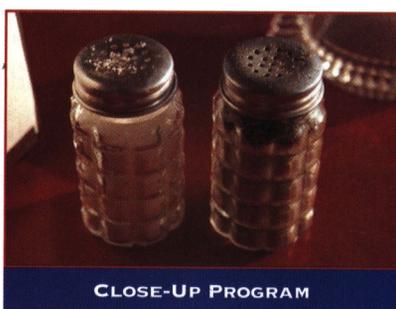
GENERAL PURPOSE PROGRAM



LANDSCAPE PROGRAM



PORTRAIT PROGRAM



CLOSE-UP PROGRAM

#### SIMPLE MODE PROGRAMS:

##### GENERAL PURPOSE PROGRAM

This selection appears automatically when the camera is turned on. It's great for changing everyday pictures into beautiful photographs.



##### LANDSCAPE PROGRAM

Press the button for the Landscape icon. Achieves greater depth-of-field for postcard-perfect pictures. Outstanding with AF Nikkor wideangle lenses.



##### PORTRAIT PROGRAM

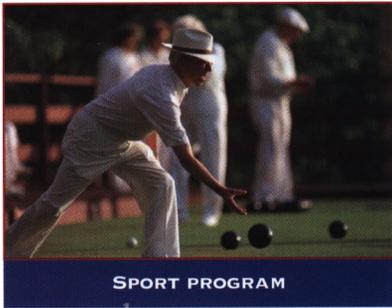
Press the button for the Portrait icon and the depth-of-field becomes shallower. Now the background becomes softer, making subjects stand out. Ideal with AF Nikkor portrait-range lenses (85 to 135mm).



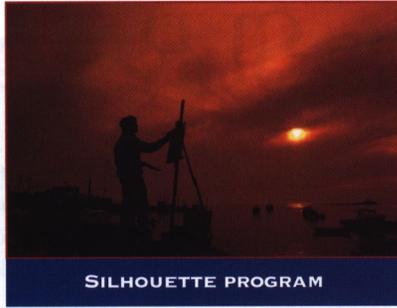
##### CLOSE-UP PROGRAM

Again the subject stands out from the background. Especially effective with AF Micro-Nikkor lenses and AF Nikkor zoom lenses with macro focus.

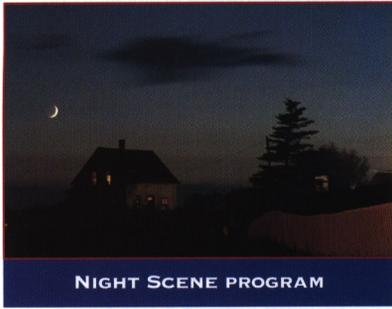




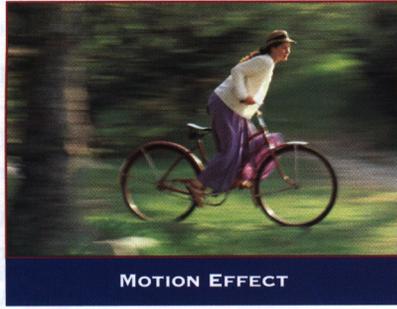
SPORT PROGRAM



SILHOUETTE PROGRAM



NIGHT SCENE PROGRAM



MOTION EFFECT

### ADVANCED MODE

With the camera set to the "advanced" mode, you can create even more types of photographs.

### ADVANCED MODE PROGRAMS:

#### SPORT PROGRAM

Uses higher shutter speeds and creates a feeling of slight motion in your pictures. Add an extra dimension to your photos by panning with a moving subject. Effective with nearly every AF Nikkor lens.



#### SILHOUETTE PROGRAM

Imagine — automatic silhouettes! Subjects appear dark against a bright background. Outstanding near windows, at sunset or other strongly backlit situations.



#### NIGHT SCENE PROGRAM

Captures background lights. For dramatic photographs, add flash for automatically beautiful nighttime flash photography.



#### MOTION EFFECT

This selection automatically chooses slower shutter speeds to make subjects appear to flow through the scene. Also creates a great effect with panning.



### OTHER ADVANCED FEATURES

Nikon Product Number: 1710 NCP

• **Other advanced mode techniques** include shutter-priority auto exposure, aperture priority, auto exposure and manual exposure. • **Top shutter speed** 1/2000 sec; top flash sync 1/125 sec. • **Flexible Program** enables you to shift an automatically selected shutter speed or aperture combination by 1 EV. • **AE-lock** lets you change picture composition without affecting exposure. • **Exposure Compensation** allows you to adjust automatically selected combinations of aperture and shutter speeds while maintaining correct exposure. • **Exposure Memory** stores your favorite exposure mode or program for instant recall. • **Choice of Focus Modes** lets you choose "Single-Servo" autofocus for stationary subjects; "Continuous-Servo" to stay with the action. Also focus manually. • **Self Timer** lets you become the subject of your own pictures. • **Extra-long Time Exposure** setting keeps the shutter open as long as you like.

4-PAGE INSTRUCTION GUIDE FOR SIMPLE MODE

The N50 comes with a 4-page instruction guide for the Simple Mode, so you can be shooting great pictures in minutes! A complete instruction book is also included.

### ADVANCED FEATURES OF THE N50

#### SHARP, CLEAR INFORMATION READOUT

The N50 is the first SLR camera to use a dot-matrix LCD panel. It's not only easy to see in any light, it's also easy to understand!



#### 6 SEGMENT 3D MATRIX METERING

The N50 uses a 6-segment matrix light-metering system to evaluate each scene. When used with Nikon's new D-type autofocus lenses, it combines exposure information with data on distance and focus. The result? Reliable exposures, frame after frame, even in difficult lighting.



#### BUILT-IN FLASH

Powerful built-in flash pops up. Advanced matrix-balanced fill-flash means all-new pictures. Use flash in daylight to brighten shadows, while keeping background light natural-looking.



#### LOW LIGHT AUTOFOCUS/FOCUS TRACKING

The N50's advanced AM200 autofocus sensor module works in light as low as that of one candle (EV minus 1). In light where you can hardly see, it can! And, Nikon's revolutionary focus tracking has also been incorporated into the N50.

#### INTERCHANGEABLE NIKKOR LENSES

Because the N50 incorporates Nikon's famous F lens mount, you can choose from a wide variety of AF Nikkor lenses. All are designed to take the world's greatest pictures.

#### OPTIONAL SPEEDLIGHTS

Use the N50's powerful built-in flash or choose an optional Nikon Speedlight like the compact SB-22, SB-23, advanced SB-26 or the all-new SB-27. Either way, you'll gain power and versatility.



#### AN ARRAY OF ACCESSORIES

The N50 accepts a full range of Nikon system accessories, including camera cases, camera straps, eyepiece correction lenses and attachments for close-up photography.

# Miscellaneous SLR Accessories

## ANTI-COLD BATTERY PACKS DB-2, DB-5

These external battery packs allow you to keep your battery power source inside your pocket to keep it warm and your camera operational in freezing temperatures. DB-5 uses 6V lithium battery. DB-2 uses 2 AA batteries.

### Pack

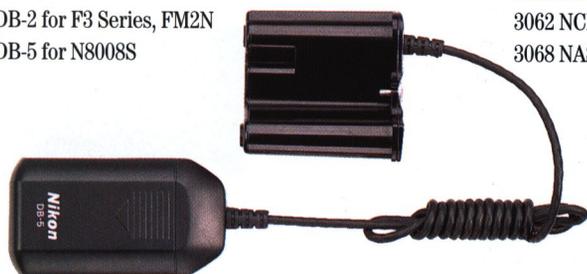
DB-2 for F3 Series, FM2N

DB-5 for N8008S

### Nikon Product Number

3062 NCP

3068 NAS



## EXTERNAL BATTERY PACK DB-6

The DB-6 provides added power for prolonged or low-temperature shooting with the F5, F4s, N90s or N90. Uses six D-type batteries and connects to the F5 or F4s's MB-23 Battery Pack via MC-28; N90s or N90 via MC-29 cord.

**Nikon Product Number: 3069 NAS**

**Nikon Product Number for MC-28 Cord for F4s: 4658 NAS**

**Nikon Product Number MC-29 Cord for N90: 4659 NAS**



## PANORAMA HEAD AP-2

Provides panoramic shooting on tripod with 28mm to 105mm lenses. Includes fitted bubble level for precise tripod setup and horizon. For F5, F4S, N90s, N90, F3HP/F3/T, N70, N6006/6000, FM2N.

**Nikon Product Number: 2028 NCP**

## SYNC TERMINAL ADAPTER AS-15

Connects flash sync cords fitted with standard PC-type connector to the camera body via the built-in hot shoe. Suitable for use with Nikon SLR cameras not fitted with PC-type sync terminal. For N70, N6006/6000, N50.

**Nikon Product Number: 3066 NCP**

## CABLE RELEASE ADAPTER AR-8

Adapts cable release connectors fitted with Nikon-type mount for operation with cameras having ISO-type tapered thread. For use with AR-2/4 release only and F3HP/F3/T and FM2.

**Nikon Product Number: 669 NCP**

## SOFT SHUTTER RELEASE AR-9

For mounting on shutter buttons fitted with ISO-type tapered thread. For F3 Series, N6006/6000 and FM2 cameras.

**Nikon Product Number: 4417 NCP**

## CAMERA NECKSTRAPS

Choose nylon, leather or leatherette — all adjustable to length. Flared nylon neckstraps ensure no-strain carrying. Leather and leatherette types have shoulder pads for wearing comfort. And, of course, Nikon neckstraps will not scratch the corners of your camera. All straps attach to all Nikon SLR cameras, except as noted.

Strap	Description	Nikon Product Number
AN-1	Leather with removeable rubber neck pad *	635 NCP
AN-4B	Woven nylon fabric with non-slip pad (black)	639 NCP
AN-4Y	Woven nylon fabric with non-slip pad (yellow with black)	638 NCP
AN-6W	Wide woven nylon fabric with non-slip pad (wine with yellow stripes and embroidered "Nikon")	4508 NCP
AN-6Y	Wide woven nylon fabric with non-slip pad (yellow with black stripes and embroidered "Nikon")	507 NCP
AH-4	SLR leather handgrip wraps around wrist for secure grip when using zoom and telephoto lenses	649 NAS
NS-1	Wide fabric neckstrap (grey)	673 NCP
NS-3	Soft neckstrap (blue)	5203 NCP
NS-4	Soft neckstrap (black)	5204 NCP
NS-5	Wide soft neckstrap (black)	5205 NCP
NS-6	Wide fabric neckstrap (tan)	5250 NCP
NS-7	Wide fabric neckstrap (green)	5251 NCP
NS-8	Wide fabric neckstrap (burgundy)	5252 NCP

\* Not for N90s, N90, N70, N6006/6000, N50, N4004S or N4004.



# NIKON SLR CAMERA FEATURES

		F5	F4s	E2N/E2s	N90s	N70	Pronea 6i	N6006	N50	F3HP	FM2N	
Autofocus	Continuous AF											
	Single AF											
	Focus Tracking	A	B	B	C	D	G	E	F			
	Focus Tracking with Lock On	A	B		C		G					
	AF Wide Area											
	Multiple AF Sensors											
	AF Spot											
	AF Lock											
	Secondary AF Button											
	Manual Focus											
Metering	1005 Pixel 3D Color Matrix Meter											
	8-Segment 3D Matrix Meter											
	5-Segment Matrix Meter		3	3								
	6-Segment Matrix Meter											
	Spot Meter											
	Spot Meter Linked to Multiple AF Sensors											
	Center-Weighted Meter											
	Variable Center-Weighted Meter w/Custom Setting											
	Exposure Modes	Multi-Program										
		Flexible Program										
Flexible Program with Flash												
Vari-Program												
Program Hi												
Program												
Simple Mode							17					
Advanced Mode												
Shutter Priority												
Aperture Priority												
Exposure Compensation	Manual											
	Exposure Compensation											
	AE-Lock											
	AE Bracketing built-in											
	AE Bracketing with Multi-Control Back											
	All Mode Bracketing built-in											
	All Mode Bracketing with Multi-Control Back											
	Bracketing Order with Custom Setting											
	Flash	Built-in Speedlight										
		3D Multi-sensor balanced fill-flash	4			4	4					
Multi-sensor balanced fill-flash		5			5	5	5					
TTL balanced fill-flash												
Standard TTL										13		
Center-Weighted balanced fill-flash												
Spot fill-flash												
Slow and/or Rear Curtain Sync		14		20		15	15		16			
TTL flash compensation												
FP High Speed Sync												
Misc.	1/300 TTL Sync with Custom Setting											
	1/250 TTL Sync											
	1/250 Sync											
	1/180 Sync											
	1/125 TTL Sync											
	1/100 TTL Sync											
	1/80 TTL Sync											
	Flash Bracketing built-in	6				7	7					
	Flash Bracketing with Multi-Control Back											
	Automatic Rewind						18			8		
Misc.	Manual Rewind											
	Two Button auto reset											
	Two Shot Self-timer											
	Single Self-timer											
	Programmable Self-timer											
	Interchangeable Viewfinder											
	Interchangeable Focusing Screens											
	Eye-piece Shutter built-in											
	ISO Cable Release Socket		9					9		9	9	
	Remote Terminal	10	11	21	10	10				12	12	
Memory, QR Setting												
Multi-Control Back												
Data Back												

- A – Focus Tracking to 8fps
- B – Focus Tracking to 2fps
- C – Focus Tracking to 4.1fps
- D – Focus Tracking 3.1fps
- E – Focus Tracking 2fps
- F – Focus Tracking 1fps
- G – Focus Tracking to 3.3fps

- 1 – AF-I and AF-S, Full metering and Autofocus operation
- 2 – AF-I and AF-S, Manual Focus and Full metering capability
- 3 – Nikkor lenses with CPU and AI-S and AI
- 4 – With SB-25/26/27 and D-Type AF Nikkor lenses
- 5 – With AF Nikkor lenses
- 6 – In two or three stop brackets
- 7 – Three stop bracket only
- 8 – With MD-4 Motor Drive
- 9 – Accepts AR-3 Cable Release
- 10 – Accepts MC-20 and MC-30
- 11 – Accepts MC-12A
- 12 – Accepts MC-12A on MD-4 (For F3HP) and MD-12 (For FM2N)
- 13 – With SB-16A, SB-14 (SC-12 Cord)
- 14 – Slow & Rear controlled from camera, Rear Curtain from Speedlights, SB-24/25/26
- 15 – From camera
- 16 – Slow only in Night Scene mode
- 17 – Basic Mode
- 18 – Automatic at end of roll or via rewind buttons
- 19 – With limitations: see instruction manual
- 20 – Slow Sync via S mode to 1/8 sec.
- 21 – EX-10 adapter permits simultaneous triggering of film and digital cameras

# NIKON SLR CAMERA FEATURES AND SPECIFICATIONS

	F5	F4s	E2N/E2s	N90s	N70
Camera Type	35mm AF SLR w/built-in motor drive.	35mm AF SLR w/built-in motor drive.	Lens-interchangeable SLR-type digital camera	35mm AF SLR w/built-in motor drive.	35mm AF SLR w/built-in motor drive.
Lens mount	Nikon F Bayonet.	Nikon F Bayonet.	Nikon F Bayonet	Nikon F Bayonet.	Nikon F Bayonet.
Interchangeable Lens Compatibility	All AF, AF-I and AF-S Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, C/W and Spot metering operation. Check F5 instruction manual for further details.	All AF, AF-I and AF-S Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, and full metering operation. Check F4s instruction manual for further details.	AF Nikkor and Ai-Nikkor lenses with limitations. See Instruction Manual for details.	All AF, AF-I and AF-S Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, C/W and Spot metering operation. Check N90s instruction manual for further details.	All AF, AF-I and AF-S Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, C/W and Spot metering operation. Check N70 instruction manual for further details.
Viewfinder	Interchangeable. Standard DP-30 Finder, DA-30 Action Finder, DW-30 6x Magnification, and DW-31 Waist Level.	Interchangeable. Standard DP-20 Finder, DA-20 Action Finder, DW-20 Waist Level and DW-21 6x Magnification Finder.	Fixed eye level pentaprism with High Eyepoint	Fixed eye level pentaprism with high eyepoint.	Fixed eye level pentaprism with high eyepoint.
Viewfinder Coverage	Approx. 100%.	Approx. 100%.	Approx. 98%	Approx. 92%.	Approx. 92%.
Metering System	With DP-30 Finder, three meters provided. 1005 Pixel 3D Color Matrix metering, C/W (can be customized) and Spot (changes with AF sensor selected)	With DP-20 Finder, three TTL meters provided: 5-segment matrix, Center-Weighted and Spot.	Three meters provided: 5 Segment Matrix meter, 60/40 Center Weighted and Spot Meter.	Three TTL meters provided: 8-segment 3D matrix meter <sup>9</sup> , 75/25 Center-Weighted and Spot meter.	Three TTL meters provided: 8-segment 3D matrix meter <sup>9</sup> , 75/25 Center-Weighted and Spot meter.
Meter EV Range (ISO 100, f/1.4)	EV 0-20 (EV 2-20 w/Spot meter).	EV 0-21 (EV 2-21 w/Spot meter).	EV 8.5-21.5 (EV 8.5-19 1/3 w/Spot meter)	EV minus 1-21 (EV 3-21 w/Spot meter).	EV minus 1-20 (EV 4-20 w/Spot meter).
Shutter	Vertical focal plane, controlled from 1/8000-30 seconds stepless in P or A modes. Set from 1/8000-30 seconds in M or S Modes (can be set from 40 seconds to 30 minutes with Custom setting). Bulb and time provided.	Vertical focal plane, controlled from 1/8000 to 30 seconds steplessly in PH, P or A mode <sup>4</sup> . Set from 1/8000 to 4 seconds in one EV step in M or S mode. Bulb and time provided.	Controlled from 1/2000-1/2 sec. steplessly in P or A modes; set from 1/2000-1/8 sec. in 1/2 EV steps in M or S modes.	Vertical focal plane, controlled from 1/8000 to 30 seconds; bulb setting, P, S, A – 30 sec. to 1/8000 stepless <sup>4</sup> in 1/3 shutter speed increments. S, M – 30 sec. to 1/8000 in 55 steps plus bulb.	Vertical focal plane, controlled from 1/4000 to 30 seconds; bulb setting, P, A – 30 sec. to 1/4000 stepless <sup>4</sup> in 1/3 shutter speed increments. S, M – 30 sec. to 1/2000 in 34 steps plus time.
Film Advance	With NiMH battery source CH Mode approx. 3fps; CL Mode approx. 3fps and S Mode approx. 1 fps. Speeds can be altered with Custom setting.	CH mode approx. 5.7 fps; CL mode 3.4 fps; CS mode 1 fps <sup>2</sup> .	S and C modes: C mode: E2N approx. 1 fps (varies according to storage mode) E2s approx. 3 fps (up to 7 consecutive shots) PB (Play back Mode for video output).	CH mode approx. 4.3 fps, CL mode 2 fps.	CH mode approx. 3.7 fps, CL mode 2 fps.
Film Rewind <sup>8</sup>	2-Step power rewind provided. (approx. 4 sec. with Ni-MH battery) Manual rewind also possible.	Power rewind (approx. 8 sec. with 36 exp.) or manual.	None (Images are digitally stored on PCMCIA/JEIDA standard memory card (Type I/II).	Power rewind, automatic when set with DataLink.	Power rewind.
DX Range	ISO 25-5000.	ISO 25-5000.	Number of Images Stored on 15MB Memory Card: Hi: (Uncompressed) Approx. 5 images Fine (1/4 compressed) Approx. 21 images Normal (1/8 compressed) Approx. 43 images Basic (1/16 compressed) Approx. 84 images	ISO 25-5000.	ISO 25-5000.
ISO Range (manual setting)	ISO 6-6400.	ISO 6-6400.	Sensitivity: STD: equivalent to ISO 800 film. High: equivalent to ISO 1600 film.	ISO 6-6400.	ISO 6-6400.
Built-in Flash	—	—	—	—	GN#46 ISO 100 covers 28mm lens, red-eye reduction, TTL flash control incl. 3D multi-sensor balanced fill-flash, slow & rear sync, monitor pre-flash
Flash Sync	1/60-1/250 in P or A Modes (from 1/250-30 sec. w/Rear and Slow Sync built-in). From 1/250-30 sec. in M or S Modes. If speed is higher than 1/250, camera automatically selects 1/250 (also B & T Modes) 1/300 TTL in Shutter Priority and Manual exposure with Custom Setting. With SB-26, F5 can sync up to 1/4000 sec. in FP mode.	1/60-1/250 sec. in PH, P or A mode. In M or S mode shutter fires at selected speed but when set to 1/250 to 1/8000 sec. shutter is automatically set to 1/250 sec and B + T settings. Down to 30 sec. is possible using SB-26 set to Rear Curtain Sync in PH, P or A mode.	X sync only; top sync speed of 1/250 sec. in M or S modes, shutter fires at speed set (1/350-1/2000 sec. cannot be chosen); Matrix Balanced Fill Flash possible with Nikon Speedlights including SB-26 and 27, Standard TTL Flash also possible.	1/60-1/250 sec. in P or A modes or 1/250 to 30 sec. in Slow Sync and B setting. In M or S mode, shutter fires at selected speed, but when set to 1/250 to 1/8000 sec. shutter is automatically set to 1/250 sec. With SB-26, N90s can sync up to 1/4000 sec. in FP mode.	1/60-1/125 sec. P or A mode; 1/125 to 30 sec. in Slow Sync mode and B setting. In M or S mode, shutter fires at selected speed but when set to 1/250 to 1/2000 sec., shutter is automatically set to 1/125 sec.
Speedlight Control	5-segment TTL sensor. 3D Multi-sensor balanced fill-flash with SB-25/26/27 and D Type AF Nikkor lens, Multi-sensor balanced fill-flash, Standard TTL, Flash Bracketing built-in. Refer to instruction manual for further details.	TTL automatic matrix balanced fill-flash <sup>10</sup> . Refer to instruction manual for further information.	TTL automatic Matrix Balanced Fill Flash <sup>10</sup> . Refer to instruction manual for further details.	5-segment TTL sensor, 3D Multi-sensor balanced fill-flash with SB-25/26/27 and D Type AF Nikkor lens. Multi-sensor balanced fill-flash. Standard TTL, Flash Bracketing w/MF-26. Refer to instruction manual for further details.	5-segment TTL flash sensor, 3D multi-sensor balanced fill-flash in all metering modes. Refer to instruction manual for further information.
# Rolls Film with Fresh Batteries <sup>5</sup>	w/8 AA batteries approx. 90 rolls. w/8 AA lithium batteries approx. 250 rolls. w/optional Ni-MH Battery Unit MN-30 approx. 100 rolls.	MB-21 w/AA alkaline-manganese approx. 90 rolls (68°F); MB-21 w/Nicad batteries approx. 70 rolls (68°F).	—	MB-10 w/AA alkaline manganese approx. 50 rolls w/AA lithium approx. 90 rolls	w/6V Lithium 115 rolls (68°F).
Power Source	8 AA with standard MS-30 Battery Holder Optional MN-30 rechargeable NiMH battery. MC-32 plugs into AC/DC Converter for AC operation.	MB-21 battery pack (6 AA*) batteries; MB-20 battery pack (4AA*) batteries; MB-22 External Power Regulator; MB-23 Power pack (AA* or Nikon MN-20 Nicad batteries).	Quick Charger EH-1/EH-2 used for charging NiCd battery EN-1.	Four AA alkaline/lithium batteries.	Two CR 123-a Lithium Batteries
Dimensions	157.5 x 149 x 79mm.	With MB-21, 6.6" x 5.4" x 3.0".	E2N: 6.5"x4.7"x5.5". E2s: 6.5"x4.7"x6.3".	6.1" x 4.2" x 2.7".	5.9" x 4.1" x 2.8".
Weight	42.7 oz.	With MB-21, 45.1 oz.	E2N: 63.1 oz. E2s: 65.5 oz.	26.6 oz.; w/MB-10, 34 oz.	20.6 oz.

Pronea 6i*	N6006	N50	F3HP	FM2N
Advanced Photo System AF SLR w/built-in motor drive.	35mm AF SLR w/built-in motor drive.	35mm AF SLR w/built-in motor drive.	35mm SLR w/optional motor drive.	35mm SLR w/optional motor drive.
Nikon F Bayonet.	Nikon F Bayonet.	Nikon F Bayonet.	Nikon F Bayonet.	Nikon F Bayonet.
IX Nikkor lenses, all AF, AF-I, AF-S Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder only. Check P420 instruction manual for further details.	All AF <sup>1</sup> Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, C/W and Spot metering operation. Check N6006 instruction manual for further details.	All AF <sup>1</sup> Nikkor lenses provide full AF and metering operation. AI-P lenses provide manual focus w/electronic rangefinder and full metering operation. AI lenses provide manual focus w/electronic rangefinder, aperture priority and manual exposure mode, C/W and Spot metering operation. Check N50 instruction manual for further details.	All Nikkor AF, AI-P, AF-I, AI-S and AF-S lenses. Check F3HP instruction manual for further details.	All Nikkor AF, AI-P, AF-I, AI-S and AF-S lenses. Check FM2N instruction manual for further details.
Same as N70 w/crop marks for C, H, P formats.	Fixed eye level pentaprism with high eyepoint.	Fixed eye level pentaprism with high eyepoint.	Eye level high eyepoint DE-3 standard, interchangeable w/5 others.	Fixed eye level pentaprism.
Same as N70.	Approx. 92%.	Approx. 90%.	Approx. 100%.	Approx. 93%.
Three TTL meters provided: 8-segment matrix meter, 65/35 Center-Weighted and Spot meter.	Three TTL meters provided: 5-segment matrix meter, 75/25 Center-Weighted and Spot meter.	Two TTL meters provided: 5-segment 3D matrix meter for P, S and A modes. 75/25 Center-Weighted meter for manual exposure mode.	TTL Center-Weighted meter 80/20.	TTL Center-Weighted meter 60/40.
EV 0-20 w/ISO 200 (EV 4-20 w/Spot meter).	EV 0-19 (EV 4-19 w/Spot meter).	EV 1-20.	EV 1-18.	EV 1-18.
Vertical focal plane, controlled from 1/4000 to 30 sec; bulb setting. P and A – 30 sec. to 1/4000 stepless in 1/2 shutter speed increments. S and M – 30 sec. to 1/4000 sec. in 19 steps.	Vertical focal plane, controlled from 1/2000 to 30 seconds; bulb setting. P, A – 30 sec. to 1/2000 <sup>4</sup> . S, M – 30 sec. to 1/2000 in 17 steps plus bulb.	Vertical focal plane, controlled stepless from 1/2000 to 30 seconds; time setting. P, A, M, S – 30 sec. to 1/2000 in 17 steps <sup>4</sup> .	Horizontal, titanium, focal plane, controlled from 1/2000 to 8 seconds; bulb and time setting. A – 8 sec. to 1/2000 <sup>4</sup> . M, T, B, X – 8 sec. to 1/2000 in 16 steps.	Vertical, focal plane, controlled from 1/4000 to 1 second in 14 steps, bulb setting.
C mode 3.5 fps, Single Servo AF and manual.	CH mode approx. 2.0 fps, CL mode 1.2 fps <sup>3</sup> .	Automatic advance at approx. 1 fps <sup>3</sup> .	Manual, w/MD-4 Motor Drive C mode approx. 3.8 fps <sup>3</sup> .	Manual, w/MD-12 Motor Drive C mode approx. 3.2 fps <sup>3</sup> .
Auto return at end of film or via rewind buttons.	Power rewind, 19 sec. w/24 exp.	Automatic rewind, 17 sec. w/36 exp.	Manual w/MD-4 Motor Drive: 8 sec. w/36 exp.	Manual.
ISO 6-10,000	ISO 25-5000.	ISO 25-5000.	—	—
ISO 25-10,000	ISO 6-6400.	ISO 6-6400 (Advanced mode).	ISO 12-6400.	ISO 12-6400.
GN#66 ISO 200 covers 20mm lens in IX format (25mm in 35mm) balanced fill flash, slow/rear sync, flexible program w/flash, flash compensation from 3 to +1 in 1/2 EV steps, flash bracketing built-in (meter, under, over). 1/180 sec. or slower.	GN#43 covers 28mm lenses or longer; TTL auto balanced fill-flash possible.	GN#42.7 covers 35mm lenses or longer; TTL matrix balanced fill-flash with Nikon TTL Speedlights.	—	—
	1/60-1/125 sec. P or A mode; 1/125 to 30 sec. in Slow Sync mode and B setting. In M or S mode, shutter fires at selected speed but when set to 1/250 to 1/2000 sec., shutter is automatically set to 1/125 sec.	1/125 sec. or slower.	All speeds up to 1/80 sec.	All speeds up to 1/250 sec.
Same as N6006	TTL automatic matrix balanced fill-flash w/built-in Speedlight or using Nikon TTL Speedlights <sup>10</sup> . Refer to instruction manual for further information.	TTL automatic balanced fill flash w/built-in Speedlight or using Nikon TTL Speedlights. Refer to instruction manual for further information.	TTL automatic flash.	Automatic flash.
Without flash, 100 rolls w/2 CR 123A lithium batteries	w/6V lithium approx. 75 rolls (68°F, without flash) <sup>5,6</sup> .	w/6V lithium approx. 80 rolls (68°F, without flash) <sup>5</sup> .	7	7
2 CR 123A lithium batteries.	6V lithium batteries.	6V lithium batteries.	2 SR-44 batteries.	2 SR-44 batteries.
5.9" x 3.8" x 2.4". 19.75 oz.	6.1" x 4.0" x 2.6". 23.0 oz.	5.9" x 3.8" x 2.8". 20.5 oz.	5.8" x 4.5" x 2.8". 26.8 oz.	5.6" x 3.5" x 2.4". 19.0 oz.

- 1 – AF-I Nikkor lenses provide manual focus operation but provide full metering function.
- 2 – New AA alkaline-manganese, shutter set at 1/250 sec. or faster and normal temperatures.
- 3 – New AA alkaline-manganese, shutter set at 1/125 sec. or faster and normal temperatures.
- 4 – Actual slowest shutter speed depends on lighting conditions.
- 5 – Depends on battery life and type and operating temperature.
- 6 – Film advance in CH mode, AF-C, shutter speed 1/125 or faster (N90: 1/250 or faster, 68°F, standard zoom lens, one frame closest focus to infinity).
- 7 – Battery life shooting 2 rolls per month for approximately one year (silver oxide or lithium type).
- 8 – Mid roll rewind possible with all Nikon SLRs.
- \* Alkaline/Nicad batteries only.
- 9 – 3D matrix metering is selected with D-type AF Nikkor lenses; advanced matrix metering is selected with non-D-type lenses.
- 10 – With Nikon TTL Speedlights SB-25, SB-24, SB-23, etc.
- 11 – Flash sync w/60mm focal length or longer. When using lens with focal length of 60mm or shorter, sync is 1/focal length (P and A modes).

- \*IX 240 Functions:
- Picture Aspect Ratio: *PAR*
  - Select Title Backprinting
  - Data Imprint
  - Mid Roll Change: *MRC*
  - Photo Data Recording
  - Print Quantity
  - Drop In Film Loading
  - Print Quality Improvement: *PQI*
  - Fixed Time Printing Mode: *FTPM*



# 28Ti/35Ti Quartz Date

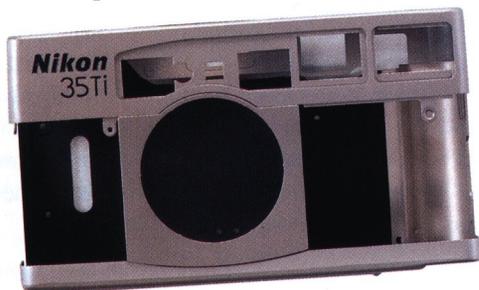
## A WHOLE NEW CLASS OF CAMERA

*This elegant class of camera combines advanced features and Nikon SLR image quality with a compact, lightweight, titanium body.*

*At the heart of the 28Ti is an exceptional Nikkor 28mm/f2.8 lens for versatile wide-view picture making. The 35Ti features*

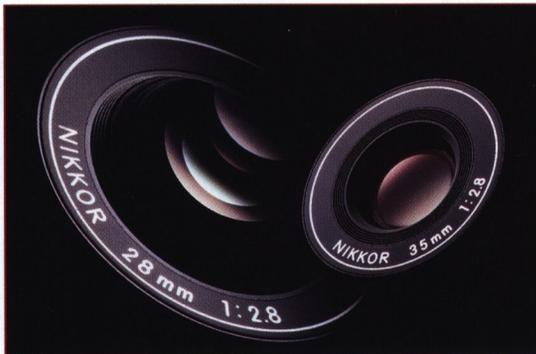
*a superb Nikkor 35mm f/2.8 lens. Both cameras boast 6-segment 3D Matrix Metering, advanced flash systems, programmed auto-exposure, built-in data imprint, plus*

*standard and panorama formats. A combination of quality, performance and features without equal.*



### EXCEPTIONAL OPTICAL PERFORMANCE

The Ti series' comprehensive optical system represents a major advance in camera design. For a more dynamic perspective in pictures of landscapes and buildings, the new 28mm lens is ideal. The 35mm provides a more traditional view that's ideal for pictures of people. Both



lenses automatically retract into the camera body for protection while traveling.

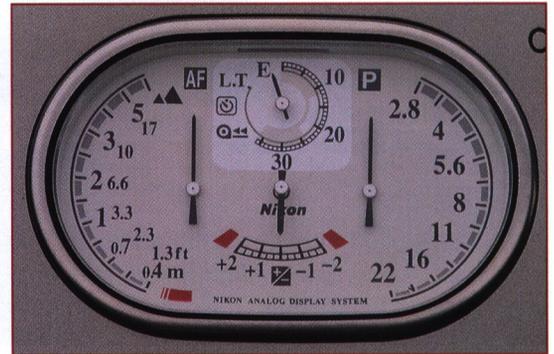
### TITANIUM OUTER BODY

The body is made of aerospace-quality titanium. Rigid, lightweight and durable, it protects the camera from abrasion, corrosion and shock.

### WORLD CLASS NIKKOR LENSES

Whether you choose the 28Ti or 35Ti, lens performance is exceptional. Made with Nikon's high refractive, low-dispersion glass, this integrated-coated lens yields photos of exceptional sharpness and color. Lens barrel is honed from high-precision aluminum alloy for exceptional strength and consistent focusing accuracy.

### UNIQUE ANALOG DISPLAY PANEL



Both cameras use highly accurate and easy-to-read pointers. Focus selection, aperture in use, exposure compensation values, frame count time exposure and self-timer are easily visible.

### VIRTUALLY CONTINUOUS AUTOFOCUS

The Nikon 28Ti Quartz Date and 35Ti Quartz Date can autofocus from 1.3 feet for detail-revealing close-ups, all the way to infinity for tack-sharp landscapes. Off-center composition is easy with a focus lock, too. With the active-infrared autofocus which can be precisely aimed, either camera can even focus in total darkness for exciting picture-taking opportunities. You can even preset the focus distance manually, using the focus distance display on the top deck panel for reference.

**FAST, RESPONSIVE HANDLING**

The viewfinder's aspherical lens objective provides bright, clear viewing, a digital display for shutter speed or uses selected aperture and exposure compensation. A liquid crystal display clearly outlines both standard and panorama picture areas.

**6-SEGMENT 3D MATRIX METERING**

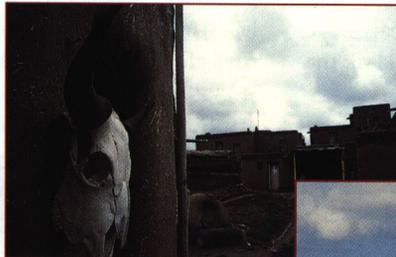
A new 6-segment Matrix Metering system assures proper exposure even in difficult or quickly changing light situations. Fuzzy logic helps ensure precise exposure settings, even when conditions are nominal or borderline. Switch to center-weighted for portraits or to concentrate exposure in defined area.

**PROGRAMMED AND APERTURE-PRIORITY EXPOSURE MODES**

A Programmed Auto exposure mode automatically sets optimum aperture and shutter speed. Flexible Program sets different combinations of shutter and aperture while maintaining correct exposure. Aperture-Priority mode lets you select aperture for depth-of-field control.

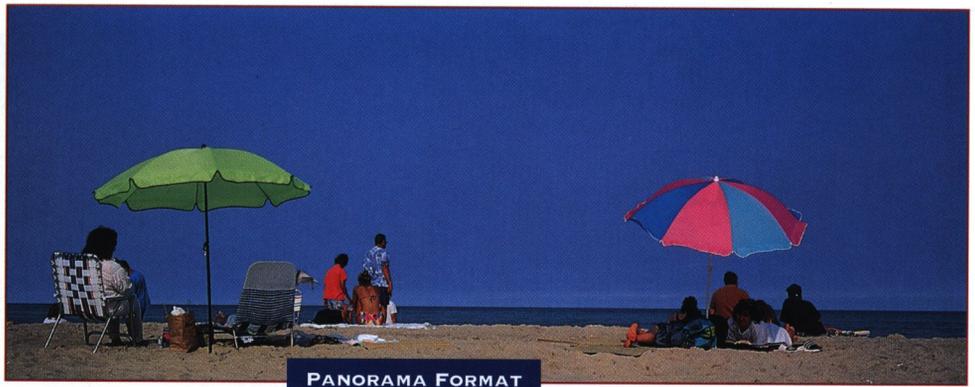
**ADVANCED FLASH**

The built-in flash on the cameras fires automatically when light is insufficient or the subject is backlit. The system incorporates distance into the flash exposure calculation for the highest level of flash performance. Flash cancel, Slow Sync and "anytime" flash modes also available.



**DATA IMPRINT**

This feature allows you to imprint your photos with choice of year, month, day, hour, minute and, of course, no imprint. Ideal for keeping track of pictures, rolls of films and dates.



PANORAMA FORMAT

**CUSTOM FUNCTIONS**

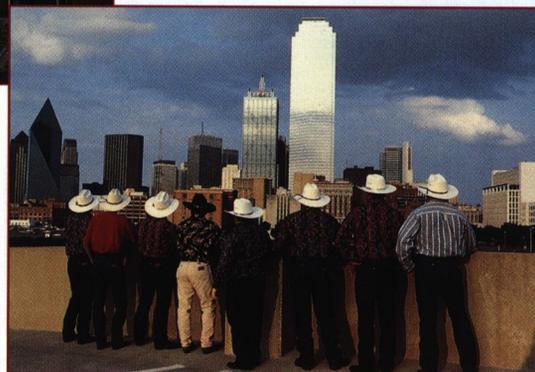
Using the Custom Function buttons, you can change several operating features to meet your needs. Choose matrix or Center-Weighted metering. Choose to display either shutter speed or aperture in the LCD viewfinder. Imprint data on all pictures, the first picture of the day, or the first shot of each roll. Use Display Reset to return the camera to its original positions. Display panorama frames marks inside viewfinder.

*"The 28Ti and 35Ti are great cameras. Their pictures are tremendously sharp and the advanced technology packed into these cameras rivals its professional*



*counterparts. There's never been anything like them!"*

Bernie Boston



**28Ti / 35Ti**

- Advanced Nikon features in a lightweight, durable titanium body
- Built-in Nikkor 28mm f/2.8 or 35mm f/2.8 lens with integrated optical coating for sharp, clear photos
- Built-in flash
- 6-segment 3D Matrix Metering and Center-Weighted metering (75/25 balance)
- Provides 3D matrix-balanced fill-flash for incredible flash photography
- Virtually stepless autofocus AF systems for sharp images
- Standard and panorama formats switchable mid-roll at the flip of a switch
- Top shutter speed 1/500 sec.; automatic long time exposures up to 10 minutes
- Illuminated analog information display
- Automatic single-frame film advance
- Two exposure modes — Programmed (P) and Aperture-Priority (A)
- Flexible Program and exposure compensation
- Two-shot self-timer
- Quartz-date function imprints photos with day/date/time
- Custom functions modify operation
- Includes leather case, battery and film.

Nikon 28Ti Product Number: 1881 NAS  
Nikon 35Ti Product Number: 9630 NAS

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# Nikkor 35mm Lenses

## LIKE NO OTHER LENSES IN THE WORLD

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*Purchasing a Nikon SLR camera body is just the beginning of your extraordinary adventure in photography. The next step is choosing a lens — or a series of lenses — that will give you the power and flexibility to capture the world in a virtually unlimited number of ways. Nikon offers the largest selection of interchangeable lenses, from fisheye to super-telephoto. And behind every lens is a history of Nikon quality and innovation that has consistently set new standards of excellence. Nikon's technological advances have expanded the photographer's ability to accurately record, or creatively interpret, what he or she sees.*

*Nikon's most remarkable innovation, however, may be its consistent use of the Nikon F lens mount. Introduced with the original Nikon F, this lens mount means your camera is compatible with literally hundreds of Nikkor lenses. In addition, select lenses now feature Nikon's Silent Wave Motor technology for enhanced high-speed sports and action photographic performance.*



**ALL 35MM AF NIKKOR LENSES ALSO WORK ON THE NEW PRONEA 6I. HOWEVER, THE NEW IX NIKKOR LENSES ARE DESIGNED FOR USE SPECIFICALLY WITH THE PRONEA 6I. THE LENSES APPEAR IN THE PRONEA 6I SECTION ON PAGE 86.**



**EXTRA-LOW DISPERSION GLASS —**

**A NIKON INNOVATION**

Even when you're using the most powerful Nikkor super-telephoto lens, your pictures will be clear and sharp, with excellent color rendition. That's because many Nikkor telephoto and super-telephoto lenses are made with ED glass, a Nikon innovation that virtually eliminates the "color fringing" common with regular lens glass in longer focal lengths.

**NIKON INTEGRATED COATING**

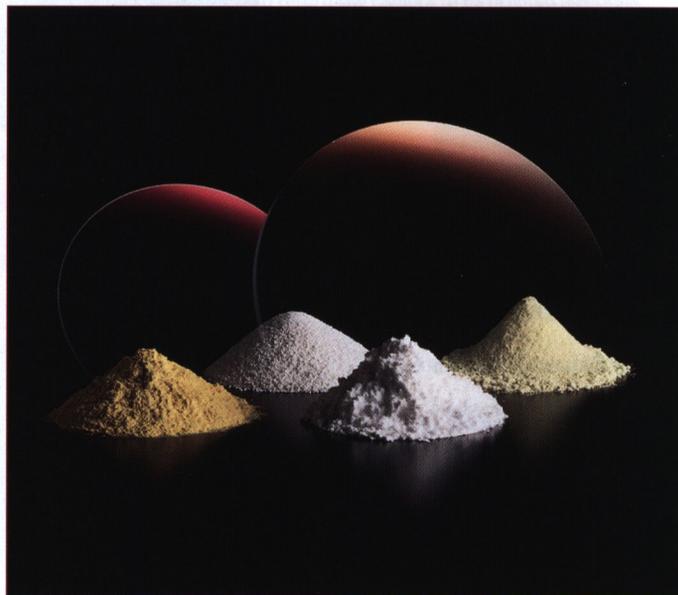
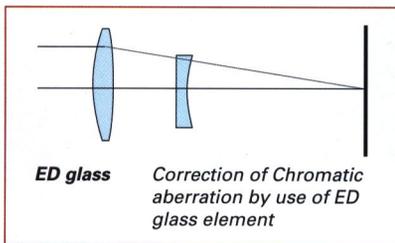
Light is beautiful, but unless it is carefully controlled, your pictures won't be. Nikon goes one step further. Nikon integrates multilayer coating into the design of each lens, making sure that just the right number of coatings are applied to each lens

**NEW SILENT WAVE MOTOR TECHNOLOGY**

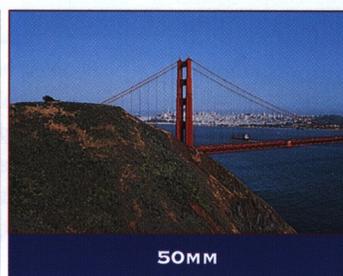
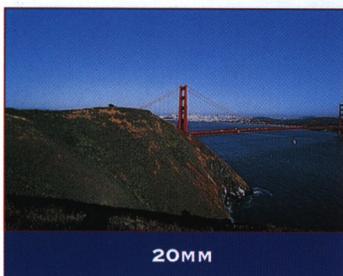
The Silent Wave Motor focuses internal lens elements using ultrasonic traveling waves which are converted to rotational energy. This advanced, high-torque motor system is extremely powerful, driving autofocus elements with instant start-up and with exceptionally effective stopping action for superb total response. The result is ultra high-speed autofocus with exceptional accuracy. And because the lenses are directly driven by internal Silent Wave Motor power compared to traditional lens design, there is no gear noise nor the associated power loss with their operation. Near silent autofocus operation is achieved. Combined with newly designed Nikon autofocus software, these lenses boost the performance of Focus Tracking as well.

**GREAT LENSES  
START WITH GREAT  
OPTICAL GLASS**

Nikon standards for glass purity are so exacting, we had to build our own glassworks to produce high quality glass for Nikkor lenses. Nikon lens designers can choose from among 200 types of glass, so every lens element leads to perfect results. If the right glass doesn't exist, Nikon invents it.

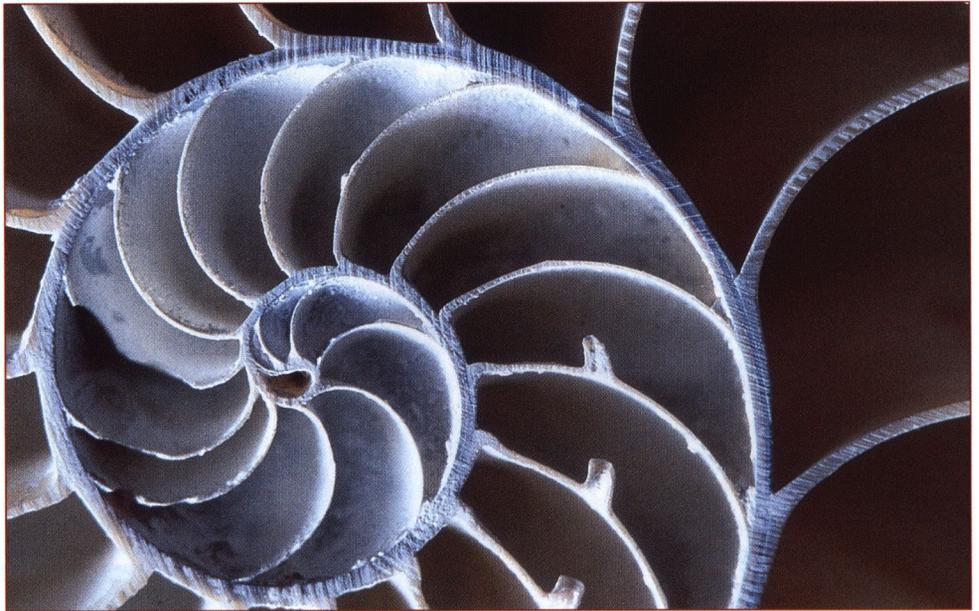


element. Flare is dramatically reduced, and there is a corresponding increase in image contrast and light transmission. Uniform color balance is achieved throughout the entire Nikkor lineup. The end result is the world's greatest pictures.



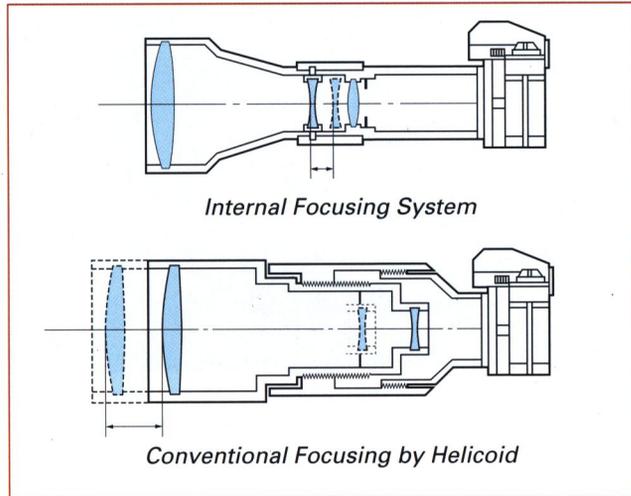
**NIKON CLOSE-RANGE CORRECTION SYSTEM**

When focusing at extremely close distances, most lenses offer image quality that is diminished. Clearly, that isn't good enough for Nikon. We invented an entirely new system for close-range focusing. With Nikon CRC (Close-Range Correction), the lens elements shift position in relation to each other, so that at close shooting distances curvature of field is reduced to the bare minimum. High resolution is possible even at close distances.



**INTERNAL FOCUSING**

When you're on assignment, you need the best telephoto equipment, not the heaviest. That's why Nikon invented Internal Focusing. With IF, only an internal small lens group shifts during focusing, which doesn't



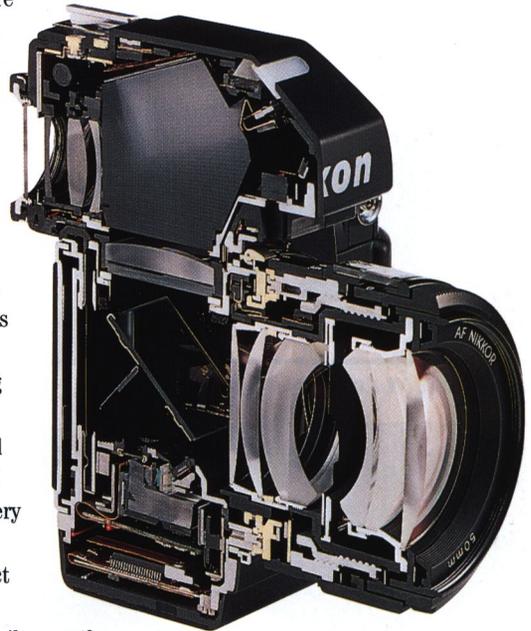
increase the size of the lens barrel. The IF lens is smaller, weighs less, and still achieves crisp, sharp focusing.

**GOING TO ANY LENGTHS**

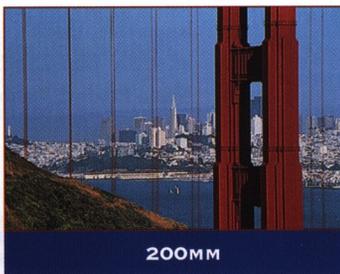
From 6mm to 2000mm, choose the Nikkor lens that best meets your needs. The photos above show you how focal length affects the size of the subject in the final photograph.

**QUALITY MECHANICAL CONSTRUCTION**

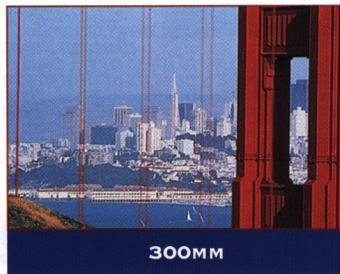
With a Nikkor lens there is no room for compromise. Nikon uses only the best materials and the latest manufacturing techniques. You can see the results in the pictures you take with Nikkor lenses, and you can also feel the results when you operate the lens. Turn the focusing ring or move the aperture ring back and forth and you'll marvel at the smoothness. Every piece of the lens is machined to such exact tolerances that you're assured of extraordinarily smooth operation over a lifetime of use.



135MM



200MM



300MM



600MM

## FISHEYE LENSES (6MM, 8MM, 16MM)

Originally developed for scientific or industrial applications, Fisheye lenses are now also widely used in advertising, commercial and general photography. Fisheye lenses create a dramatic effect, showing the viewer the world as a fish might see it. With coverage up to 220° — virtually seeing backwards — Nikkor Fisheye lenses can add a new dimension to your photography.

### 6MM F/2.8 FISHEYE-NIKKOR AIS

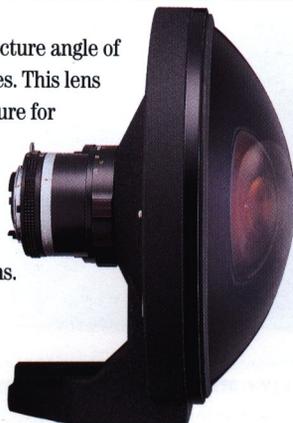
Ideal for special effects, the extraordinary picture angle of 220° is 40° wider than standard fisheye lenses. This lens actually sees behind itself! Bright f/2.8 aperture for photographing in dim light or with fast shutter speeds. Close focusing down to 11 inches, through-the-lens viewing and metering. Easy filter interchange; 5 filters are built into a revolving turret inside the lens.

A round image is created on the film.

Wt. 183.4 oz. Dim. 9.3 x 6.3".

Nikon Product Number:

1405 NAS



### 8MM F/2.8 FISHEYE-NIKKOR AIS



For special effect photography, as well as a variety of scientific and industrial applications, this lens is ideal. All-encompassing 180° fisheye coverage records everything in front of the camera, and produces a circular image on the film. Bright f/2.8 aperture for dim light or fast shutter speeds. Close-focusing down to

1 foot. Full-aperture viewing and metering. Easy filter interchange; 5 filters are built into a revolving turret inside the lens.

Wt. 38.8 oz. Dim. 4.8 x 5.0".

Nikon Product Number: 1402 NAS

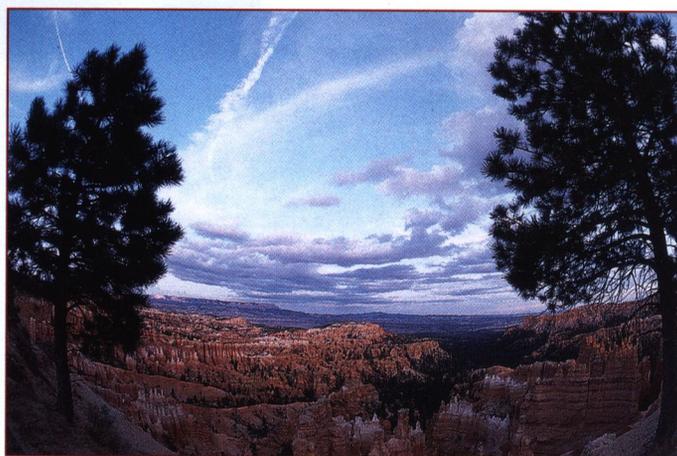
### 16MM F/2.8D AF\* FISHEYE-NIKKOR

Combines the special effects advantages of 180° coverage with Nikon's advanced D-type autofocus lens technology. Bright f/2.8 aperture for photographing in dim light or with fast shutter speeds.

Full-aperture viewing and metering. Four 39mm filters bayonet onto the back of the lens. High-contrast images even at full aperture. Exceptionally lightweight for a fisheye lens. Built-in lens hood.

Wt. 10.1 oz. Dim. 2.5 x 2.2".

Nikon Product Number: 1910 NAS



## ULTRA WIDEANGLE LENSES (13MM, 15MM, 18MM, 20MM)



Ultra wideangle lenses are perfect for travel and landscape photography, or any application in which you need to capture an expansive scene. Unlike fisheye lenses, which curve images, ultra wideangle lenses render straight lines in the subject as straight lines in the photograph.

Another interesting feature of an ultra wideangle lens is its ability to exaggerate the size of subjects close to the lens. By stretching out the apparent space between foreground and background, an ultra wideangle lens creates a striking impression of three-dimensionality.

### 13MM F/5.6 NIKKOR AIS

118° picture coverage — the widest of any ultra wideangle lens in 35mm photography. Ideal for single-shots of landscapes. Straight-line rendition of subjects. Nikon lens technology eliminates light fall-off and poor resolution in the frame corners typical of lenses with such wide coverage.

Nikon Close-Range Correction System assures sharp images even at closest focusing distance (12 inches). Supplied with set of four 39mm filters which bayonet onto the back of the lens. Built-in lens hood.

Wt. 42.3 oz. Dim. 4.5 x 3.5".

Nikon Product Number: 1410 NAS



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

**15MM F/3.5 NIKKOR AIS**



110° picture angle creates stunning landscape photographs. Also ideal for shooting in confined interior spaces. Straight-line rendition of subjects. Immense depth of field practically eliminates the need to focus at smaller f-stops. Close-Range Correction System insures sharp images even at a distance of 12 inches. Supplied with set of four 39mm filters which bayonet onto the back of the lens. Built-in lens hood. *Wt. 22.2 oz. Dim. 3.5 x 3.3"*

**Nikon Product Number: 1412 NAS**

**18MM F/2.8D AF\* NIKKOR**

This lens has an exceptionally wide angle of view and outstanding image quality. Center-to-edge sharpness is superb, with excellent control of distortion and aberration. Aspherical lens and rear-focusing system ensures superior optical performance. Fast f/2.8 maximum aperture with ultra-wide angle of view. Compact and lightweight for easy handling. Accepts 77mm filters; HB-8 lens hood. *Wt. 13.6 oz. Dim. 3.3 x 2.3"*



**Nikon Product Number: 1911 NAS**

**20MM F/2.8D AF\* NIKKOR**

This ultra wideangle autofocus lens allows for pin point focusing even in dim light. 94° picture coverage with edge-to-edge sharpness. Tremendous depth of field enables quick shooting. Close-Range Correction for distortion-free pictures as close as 10 inches. No light fall-off even when wide open. Accepts 62mm filters; HB-4 lens hood.

*Wt. 9.2 oz. Dim. 2.6 x 1.7"*

**Nikon Product Number: 1913 NAS**



**WIDEANGLE LENSES (24MM, 28MM, 35MM)**



*When you're shooting "on the run," with no time to focus or compose carefully, Nikon wideangle lenses are a smart choice. The picture angle is large, depth of field is ample, and the optics are fast. Shoot under a wide range of lighting conditions with confidence. Nikkor wideangle lenses have a variety of applications, including photojournalism, commercial, and travel photography.*

**24MM F/2.8D AF\* NIKKOR**

Wide 84° picture angle, extra depth of field, and a large f/2 maximum aperture make this lens suitable for many applications, but especially those that involve shooting with available light. Shoot landscapes, candid, sports or interiors. Weighs only 10.6 ounces. Superb picture quality, even as close as 12 inches, thanks to Nikon's Close-Range Correction System. Accepts 52mm filters; HK-2 lens hood.

*Wt. 10.6 oz. Dim. 2.5 x 2.0"*

**Nikon Product Number: 1417 NAS**



**24MM F/2.8D AF\* NIKKOR**

An ideal wideangle lens with excellent optical performance. Autofocus operation is fast and accurate, and the lens' light weight and compactness make it highly versatile. Close-Range Correction System ensures high resolution down to 15 inches. Accepts 52mm filters; HN-1 lens hood.

*Wt. 9.5 oz. Dim. 2.6 x 1.8"*

**Nikon Product Number: 1919 NCP**



**28MM F/1.4D AF\* NIKKOR**

This exceptionally fast autofocus wideangle lens is perfect for low-light photography. No photojournalist should board a plane without one. Accepts 72mm filters; HK-7 lens hood.

*Wt. 18.3 oz. Dim. 3.0 x 3.1"*

**Nikon Product Number: 1921 NAS**



**28MM F/2 NIKKOR AIS**

Considered the standard wideangle lens, this 28mm gives you a picture angle of 74°, and a fast f/2 maximum aperture for easy focusing even in very dim light. Ideal for candid, cityscapes and travel photography. Sharp images at all apertures. Close-Range Correction System for edge-to-edge sharpness at minimum focusing distance of 11 inches.

Weighs only 12.7 ounces. Accepts 52mm filters; HN-1 lens hood.

*Wt. 12.7 oz. Dim. 2.5 x 2.3"*

**Nikon Product Number: 1419 NAS**



**28MM F/2.8D AF\* NIKKOR**

Designed for the photographer who wants to carry only one wideangle lens, the 28mm f/2.8 AF Nikkor offers exceptional flexibility, from landscapes to star trails. 74° picture coverage. Focus down to 9 inches. Close-Range Correction System ensures sharpness. Accepts 52mm filters; HN-2 lens hood.

*Wt. 8.8 oz. Dim. 2.5 x 1.8"*

**Nikon Product Number: 1922 NCP**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

### 35MM F/1.4 NIKKOR AIS

One of the fastest Nikkor wideangle lenses, for easy pinpoint focusing, even indoors in dim light. 62° picture coverage. Extra depth of field for spur-of-the-moment "grab shots." Close-Range Correction System for sharp pictures down to 12 inches. Accepts 52mm filters; HN-3 lens hood.

Wt. 14.1 oz. Dim. 2.7 x 2.4"

Nikon Product Number: 1429 NAS



### 35MM F/2D AF\* NIKKOR

A popular choice for travel photography and candid, the 35mm f/2D AF Nikkor offers autofocus capability, plus 62° picture coverage, additional depth of field, and a wide maximum aperture. Compact size, light weight.

Accepts 52mm filters; HN-3 lens hood.

Wt. 7.6 oz. Dim. 2.5 x 1.7"

Nikon Product Number: 1923 NCP



## NORMAL LENSES (50MM)



"Normal" lenses earned their name by offering photographers an angle of view closest to that of the human eye, around 45°. Normal lenses also offer wide maximum apertures, which make available light photography possible even in low-light situations.

The combination of features makes Normal lenses very useful in a wide range of applications, from candid to landscapes.

### 50MM F/1.2 NIKKOR AIS

This incredible ultra-fast lens is ideal for candid, scenic, and other available-light shooting. Image quality is superb. It is extremely well corrected for coma and spherical aberration. Accepts 52mm filters;

HS-12 and HR-2 lens hoods. Wt. 13.4 oz. Dim. 2.7 x 1.9"

Nikon Product Number: 1435 NAS



### 50MM F/1.4D AF NIKKOR

One of the most widely used autofocus lenses in all of photography. Fast enough for shooting in just about any type of light. Distortion-free images with superb resolution and color rendition. Weighs only 9.0 ounces. An ideal first lens, perfect for full-length portraits, travel photography, or any type of available-light shooting. Accepts 52mm filters; HR-2 lens hood.

Wt. 9.0 oz. Dim. 2.5 x 1.7"

Nikon Product Number: 1902 NCP



### 50MM F/1.8 AF NIKKOR

An affordable Nikkor that combines the ease of autofocus operation with advanced Nikon optics. Ideal for scenery or full-length portraits. Weighs only 5.1 ounces. Stops down to f/22 for additional depth of field control.

Accepts 52mm filter; HR-2 lens hood. Wt. 5.1 oz. Dim. 2.5 x 1.1"

Nikon Product Number: 1906 NCP



## MODERATE TELEPHOTO LENSES (85MM, 105MM)



Portraits or candid that include just the head and shoulders of your subject are often the most desirable. Unfortunately, getting close enough to achieve that result can make your subject feel uncomfortable. That's where moderate telephoto lenses come in handy. They're specially designed to let you fill up the frame with your subject, without getting too close. Other applications for moderate telephoto lenses include photographing distant landscapes or isolating important details in cityscapes.

### 85MM F/1.4 NIKKOR AIS

The fastest telephoto in the Nikkor line. Beautiful selective focus at maximum aperture makes this lens ideal for people pictures. The first telephoto lens to employ Nikon's Close-Range Correction System, ensuring high resolution down to a close focusing distance of 36 inches. Accepts 72mm filters; HN-20 lens hood.

Wt. 21.9 oz. Dim. 3.2 x 2.5"

Nikon Product Number: 1450 NAS



\*"AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

**85MM F/1.8D AF\* NIKKOR**



Autofocus capability for easy indoor or outdoor portraiture. Exceptionally compact for a telephoto lens. Focuses down to 36 inches. An excellent choice for your first telephoto lens. Accepts 62mm filters; HN-23 lens hood. *Wt. 14.6 oz. Dim. 2.8 x 2.3".*

**Nikon Product Number: 1931 NCP**

**85MM F/1.4D AF\* IF NIKKOR**

A fast f/1.4 aperture makes this lens a standout for sports photography and photojournalism. With Nikon's typical attention to details, its aperture has extra blades, enabling the diaphragm shape to be a near-perfect circle. This ensures crisper images and more flattering highlights in the out-of-focus portion of the image. Close-Range-Correction (CRC) affords superb optical performance from infinity to the closest focusing range of 2.8'. Also featured is Nikon's Internal Focusing



(IF) design. Its compact size and modest weight make it easy to handle. Accepts 77mm filters; HN-31 lens hood. *Wt. 19.6 oz. Dim. 3.2 x 3.3".*

**Nikon Product Number: 1933 NCP**

**105MM F/2.5 NIKKOR AIS**

Considered the classic portrait lens, with ideal picture coverage of 23°. Relatively large maximum aperture is convenient for pinpoint focusing and shooting in available light. Focuses down to 42 inches. Accepts 52mm filters. Built-in lens hood. *Wt. 15.3 oz. Dim. 2.5 x 2.7".*



**Nikon Product Number: 1456 NCP**

**TELEPHOTO LENSES (135MM, 180MM, 200MM, 300MM)**

*Telephoto lenses pull in distant scenes, allowing you to create dramatic frame-filling photographs of sports, wildlife or any other subject. Subject stands out from background for dramatic compositions.*

**135MM F/2.8 NIKKOR AIS**

An excellent choice for action photography and available light shooting. Very compact and light for a lens of this focal length. Stops down to f/32. Accepts 52mm filters. Built-in lens hood. *Wt. 15.3 oz. Dim. 2.5 x 3.3".*

**Nikon Product Number: 1462 NCP**



**180MM F/2.8D ED-IF AF\* NIKKOR**

Ideal for sports, action or news photography. Features Nikon Internal Focusing technology — lenses inside the barrel adjust, without requiring an extension of the barrel. Autofocus capability. Nikon ED glass assures superb sharpness and image quality. Accepts 72mm filters. Built-in lens hood.

*Wt. 26.5 oz. Dim. 3.1 x 5.7".*

**Nikon Product Number: 1940 NCP**



**200MM F/2 ED-IF NIKKOR AIS**

The professional's choice for sports and action photography. Fast f/2 maximum aperture allows high shutter speeds in lower light. Shooting at f/2 isolates subject from background for sharpness and clarity. Nikon ED glass assures sharp images. Nikon Internal Focusing. 360° rotatable tripod socket collar offers quick and secure change from horizontal to vertical format. Accepts 122mm filters; HE-4 lens hood.

*Wt. 89.9 oz. Dim. 5.2 x 8.9".*

**Nikon Product Number: 1465 NAS**



**300MM F/2.8D ED-IF AF-I\* NIKKOR**

Nikon technology makes this lens ideal for sports photography. Instant manual focus override just by touching the focus ring. ED glass for sharp, colorful pictures. Accepts 39mm filters. Built-in lens hood.

*Wt. 104.1 oz. Dim. 4.9 x 9.5".*

**Nikon Product Number: 1942 NAS**



**300MM F/2.8D ED-IF AF-S\* NIKKOR**

This new super-quiet telephoto lens features Nikon's unique Silent Wave Motor technology which converts "traveling waves" into rotational energy to focus the optics. Also features a newly designed optical system, using Nikon's performance-proven Extra-low Dispersion (ED) glass. Lens's fully automatic diaphragm incorporates more blades, making out-of-focus portions of the image appear more pleasing. Distance Signal technology provides focused-



\*"AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

distance information. Designed for maximum autofocus performance with the F5, F4, N90s and N70. Accepts 52mm filters; HK-22 lens hood.  
*Wt. 106.0 oz. Dim. 4.9 x 10.0".*

**Nikon Product Number:**  
**1943 NCP**



**300MM F/4 ED-IF AF\* NIKKOR**

Spectacular telephoto effects can be achieved with this exceptionally light-weight telephoto lens. Ideal for travel photography, fast-moving sports, and wildlife. Nikon Internal Focusing for compactness. Nikon ED glass assures sharp images. 360° rotatable tripod socket collar. Accepts 39 or 82mm filters. Built-in lens hood.

*Wt. 46.9 oz. Dim. 3.5 x 8.6".*

**Nikon Product Number: 1946 NAS**



**SUPER-TELEPHOTO LENSES (400MM, 500MM, 600MM, 800MM)**

*Super-Telephoto lenses deliver the ultimate in telephoto photography. Nikon offers the widest variety of this type of lens, plus exclusive Nikon technology that can help you get the most out of your sports, wildlife or creative photography.*

**400MM F/2.8D ED-IF AF-I\* NIKKOR**

Advanced autofocus capability combined with an exceptionally wide maximum aperture make this lens a "must have" for sports or wildlife photography – especially in low-light situations. Nikon Internal Focusing assures smooth focusing action without extension of lens barrel. Built-in D/C coreless focus-driving motor assures lightning fast autofocus operation. ED glass for sharp images. Accepts 52mm filters;

HK-20 lens hood.

*Wt. 222.2 oz. Dim. 6.2 x 4.8".*

**Nikon Product Number:**  
**1948 NAS**



**400MM F/3.5 ED-IF NIKKOR AIS**

For capturing fast-moving sports action in a variety of lighting conditions. Nikon Internal Focusing assures smooth focusing without extension of lens barrel. ED glass for sharp images. Accepts 39 or 122mm filters. Built-in lens hood.

*Wt. 98.8 oz. Dim. 5.3 x 11.7".*

**Nikon Product Number: 1473 NAS**



**400MM F/5.6 ED-IF NIKKOR AIS**

For the sports, wildlife, or travel photographer who prefers to carry a lighter lens. Nikon Internal Focusing assures smooth focusing action without extension of lens barrel. ED glass for sharp images. Accepts 72mm filters. Built-in lens hood.

*Wt. 42.3 oz. Dim. 3.3 x 10.0".*

**Nikon Product Number: 1489 NAS**

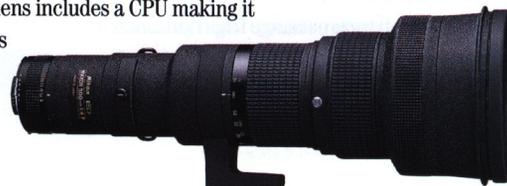


**500MM F/4 P ED-IF NIKKOR AIS**

This exceptional internal focusing lens includes a CPU making it compatible with all exposure modes available with Nikon advanced cameras. Incorporates ED glass for sharp, crisp images. Accepts 39mm filters; HK-17 lens hood.

*Wt. 105.8 oz. Dim. 5.4 x 15.1".*

**Nikon Product Number: 1447 NAS**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

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**500MM F/4D ED-IF AF-I\* NIKKOR**

This super-quiet new telephoto lens uses Nikon's latest coreless focusing-drive motor for faster focusing times. Nikon ED glass for sharp, clear pictures. Internal focusing assures smooth focusing without extension of lens. A-M (Automatic-Manual) switch enables instant switching from autofocus to manual focus by simply rotating focus ring. Focus down to 16 feet. Accepts 39mm filters; HK-21 lens hood. Please note: autofocus operation not possible with N50.

*Wt. 148.2 oz. Dim. 5.5 x 14.6".*

**Nikon Product Number: 1941 NAS**

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**500MM F/4D ED-IF AF-S\* NIKKOR**

An indispensable tool for shooting sports and other high-action events, this new super-telephoto lens uses Nikon's performance-proven Extra-low Dispersion (ED) glass. Distance Signal technology provides focused-distance information. Also features Internal Focusing and Nikon's unique Silent Wave Motor technology to all but eliminate gear noise. The Silent Wave Motor system induces "traveling waves" which are converted to rotational energy to focus the optics. Accepts 52mm filters; HK-24 lens hood.

*Wt. 130.0 oz. Dim. 4.5 x 16.0".*

**Nikon Product Number: 1937 NCP**

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**600MM F/4D ED-IF AF-I\* NIKKOR**

Built-in D/C coreless focus-driving motor assures lightning fast autofocus operation. Great for sports photography. Instant manual focus override. ED glass. Accepts 39mm filters; HK-18, HK-1 and HK-2 lens hoods.

*Wt. 213.4 oz. Dim. 6.5 x 16.4".*

**Nikon Product Number: 1951 NAS**

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**600MM F/4D ED-IF AF-S\* NIKKOR**

Near silent operation is achieved with Nikon's new Silent Wave Motor technology, which converts "traveling waves" into rotational energy to focus the optics. Features a newly designed optical system, using Nikon's performance-proven Extra-low Dispersion (ED) glass. Distance Signal technology provides focused-distance information. Ideal for shooting sports and other fast-paced action. Accepts 52mm filters; HK-23 lens hood.

*Wt. 284.0 oz. Dim. 4.5 x 18.0".*

**Nikon Product Number: 1952 NCP**

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**600MM F/5.6 ED-IF NIKKOR AIS**

Relatively compact and light for its long focal length. Ideal for sports, wildlife, and available-light shooting. Internal Focusing technology assures smooth focusing action without any extension of the lens barrel. Nikon ED glass for sharp, clear, colorful telephoto pictures. Accepts 39mm filters; HE-4 lens hood.

*Wt. 98.8 oz. Dim. 5.2 x 15.3".*

**Nikon Product Number: 1494 NAS**

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**800MM F/5.6 ED-IF NIKKOR AIS**

Frame-filling 16X magnification of the subject. Ideal for sports, wildlife, or astrophotography. Internal Focusing technology assures smooth focusing action without extension of the lens barrel. ED glass for sharp, colorful pictures. Accepts 52mm filters; HE-3 lens hood.

*Wt. 192.2 oz. Dim. 6.4 x 21.5".*

**Nikon Product Number: 1446 NAS**

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\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

REFLEX LENSES (500MM, 1000MM, 2000MM)



*Reflex-Nikkors employ the same magnification technology as powerful mirror-reflex telescopes. This makes them ideal for creating dramatic frame-filling photographs of far-off subjects. And because reflex lenses essentially fold the light path, they're smaller and lighter than conventional lenses with equivalent focal lengths.*

500MM F/8 REFLEX-NIKKOR



An essential tool for every sports and wildlife photographer. Narrow 5° picture angle provides 10X magnification of the subject. Catadioptric (mirror) design eliminates chromatic aberration for outstanding picture quality. Focuses down to 5 feet.

Accepts 39 or 82mm filters; HN-27 lens hood. *Wt. 29.6 oz. Dim. 3.5 x 4.3"*

**Nikon Product Number: 953 NCP**

1000MM F/11 REFLEX-NIKKOR

Ideal for photographing shy or dangerous animals. Powerful frame-filling 20X magnification. Outstanding picture quality. Very compact and light for its long focal length. Accepts 39mm bayonet filters. Built-in lens hood.

*Wt. 67.0 oz. Dim. 4.7 x 9.2"*

**Nikon Product Number: 952 NAS**



2000MM F/11 REFLEX-NIKKOR

Incredible 40X magnification provides stunning photographs of sports, wildlife, or the night sky. Outstanding image quality. Simple operation via two built-in knobs — one for focusing and the other for filter selection. Easy filter interchange; 5 filters are built into a revolving turret inside the lens. Four 39mm filters bayonet onto the back of the lens.

*Wt. 617.3 oz. Dim. 10.3 x 23.4"*

**Nikon Product Number: 978 NAS**



ZOOM LENSES



*Zoom-Nikkor lenses offer excellent image quality and convenience. You can change focal lengths quickly, cropping subjects in the viewfinder, without ever having to change lenses or your shooting position.*

20-35MM F/2.8D AF\* ZOOM-NIKKOR

An incredibly sharp and fast wideangle zoom that incorporates three popular focal lengths — 20mm, 24mm and 35mm. Holds its f/2.8 speed over the entire range of focal lengths. Accepts 77mm filters; HB-8 lens hood.

*Wt. 22.6 oz. Dim. 3.2 x 3.7"*

**Nikon Product Number: 1953 NAS**



24-50MM F/3.3-4.5D AF\* ZOOM-NIKKOR

Zoom from wideangle to normal by turning zoom control. Ideal for many applications, from candid to travel photography. Autofocus for ease-of-use. Focus

down to 1.6 feet. Superb picture quality at every focal length.

Accepts 62mm filters; HB-3 lens hood.

*Wt. 13.2 oz. Dim. 2.8 x 2.9"*

**Nikon Product Number: 1955 NCP**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

**24-120MM F/3.5-5.6D AF\* ZOOM-NIKKOR**

Incredible 5x zoom is ideal for travel, landscape and portrait photography. This lens produces higher resolution photographs with excellent contrast thanks to Nikon's aspheric element design. Internal



focus maintains compact size.

Accepts 72mm filters; HB-11 lens hood.

*Wt. 19.6 oz. Dim. 3.1 x 3.14"*

**Nikon Product Number: 1975 NCP**



**28-70MM F/3.5-4.5D AF\* ZOOM-NIKKOR**

Zoom from wideangle to short telephoto by turning zoom control. Autofocus for ease-of-use. Focus down to 16 inches. Accepts 52mm filters; HB-6 lens hood.

*Wt. 12.5 oz. Dim. 2.7 x 2.8"*

**Nikon Product Number: 1956 NCP**



**28-80MM F/3.5-5.6D AF\* ZOOM-NIKKOR**

This new lens provides a zoom range that covers the classic 28mm wideangle to the moderate portrait range of 80mm. An ideal companion to the Nikon N70, N50 and N6006 cameras, it is remarkably compact and lightweight. With aspheric lens design, the 28-80mm zoom provides sharp, crisp, high-contrast images — the hallmark of the Nikkor lens system. Accepts 58mm filters; HB-10 lens hood.

*Dim. 2.6 x 2.7"*

**Nikon Product Number: 1976 NCP**



**28-85MM F/3.5-4.5 AF\* ZOOM-NIKKOR**

Gives you the flexibility to take pictures in the most popular focal lengths, all with one lens. Ideal for portraits or travel photography. Autofocus for ease-of-use. Focus down to 10 inches for dramatic close-ups. Accepts 62mm filters;

HB-1 lens hood.

*Wt. 19.0 oz. Dim. 2.8 x 3.5"*

**Nikon Product Number: 1959 NCP**



**35-70MM F/2.8D AF\* ZOOM-NIKKOR**

One of the fastest Zoom-Nikkors, capable of handling low-light shooting situations. Constant 2.8 aperture throughout entire zoom range. Autofocus for ease-of-use. Focus down to 11 inches. Accepts 62mm filters; HB-1 lens hood.

*Wt. 23.8 oz. Dim. 2.8 x 3.7"*

**Nikon Product Number: 1963 NAS**



**35-80MM F/4-5.6D AF\* ZOOM-NIKKOR**

Weighing in at only 6.2 ounces, this powerful little zoom is ideal for travel photography. Accepts 52mm filters; HN-3 lens hood.

*Wt. 6.2 oz. Dim. 2.6 x 2.7"*

**Nikon Product Number: 1978 NCP**



**35-105MM F/3.5-4.5D AF\* ZOOM-NIKKOR**

Extensive 3X zoom range for wideangle, normal, telephoto, and macro photography, by sliding the zoom control. A great autofocus travel lens. Focus down to 11 inches. Accepts 52mm filters; HB-5 lens hood.

*Wt. 14.0 oz. Dim. 2.7 x 2.9"*

**Nikon Product Number: 1972 NCP**



**35-135MM F/3.5-4.5 AF\* ZOOM-NIKKOR**

A wideangle-to-medium telephoto lens, great for travel, candid, portraits, and close-ups. Autofocus for ease-of-use. Focus down to 12 inches. Accepts 62mm filters; HB-1 lens hood.

*Wt. 24.2 oz. Dim. 2.9 x 4.3"*

**Nikon Product Number: 1969 NCP**



**35-200MM F/3.5-4.5 ZOOM-NIKKOR AIS**

A versatile wideangle-to-telephoto lens. Focus and compose quickly with one-touch focus zoom ring. Great for candid, full-length, and head-and-shoulder portraits. Focus to 12 inches. Accepts 62mm filters; HK-15 lens hood.

*Wt. 26.1 oz. Dim. 2.8 x 4.7"*

**Nikon Product Number: 1445 NAS**



**50-300MM F/4.5 ED ZOOM-NIKKOR AIS**

An ideal all-around zoom for sports photography and photojournalism because of its exceptionally wide zoom coverage, ranging from normal to telephoto. ED glass for outstanding quality. Focus to 8.5 feet. Accepts 95mm filters; HK-5 lens hood.

*Wt. 68.8 oz. Dim. 3.9 x 9.4"*

**Nikon Product Number: 1483 NAS**



**70-210MM F/4-5.6D AF\* ZOOM-NIKKOR**

Popular mid-range zoom, suitable for many applications, including portraiture and travel photography. Autofocus for ease-of-use. Focus down to 46 inches. Accepts 62mm filters; HN-24 lens hood.

*Wt. 20.8 oz. Dim. 2.9 x 4.3"*

**Nikon Product Number: 1979 NCP**



**75-300 F/4.5-5.6 AF\* ZOOM-NIKKOR**

Fill the frame with distant sports figures with this powerful, versatile telephoto zoom. Autofocus for ease-of-use. Focus down to 5 feet. Accepts 62mm filters; HN-24 lens hood.

*Wt. 30.0 oz. Dim. 2.8 x 6.5"*

**Nikon Product Number: 1982 NCP**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

**80-200MM F/2.8D AF\* ED-IF ZOOM-NIKKOR**

The world's fastest telephoto zoom lens, ideal for indoor sports photography and photojournalism in dim light. Incorporates Autofocus and Internal Focusing technology. D-type lens technology provides distance information to Nikon N90s, N90, N70 and N50 cameras. ED glass for sharp pictures. Accepts 77mm filters;

HB-7 lens hood.

Wt. 45.9 oz. Dim. 3.4 x 7.4".

**Nikon Product Number:**

**1985 NAS**



**80-200MM F/4.5-5.6D AF\* ZOOM-NIKKOR**

A remarkable example of Nikon's optical and mechanical design capability, the new 80-200mm lens is less than 3.5" long and weighs just 11.5 oz. This 2.5x telephoto zoom will be a favorite among photographers who enjoy sports, scenics and portraits. Great for traveling, too. Newly designed optical formula produces sharp, crisp, high-contrast images with the depth of color and clarity you've come to expect from the Nikkor system.

Accepts 52mm filters;

HR-1 lens hood.

Wt. 11.5 oz. Dim. 2.8 x 3.4".

**Nikon Product Number:**

**1977 NCP**



**180-600MM F/8 ED ZOOM-NIKKOR AIS**

Spectacular zoom range makes this powerful Nikkor ideal for photojournalism, as well as sports and wildlife photography. Focus down to 8.5 feet. Nikon ED glass for sharp pictures. Accepts 95mm filters;

HB-16 lens hood.

Wt. 127.0 oz.

Dim. 4.1 x 15.6".

**Nikon Product Number:**

**1490 NAS**



**1200-1700MM F/5.6-8 ED-IF P ZOOM-NIKKOR AIS**

An incredibly unique and powerful zoom lens, ideal for wildlife photography. Focus down to 35 feet. Nikon ED glass for sharp pictures. Special orders only. Supplied with 52mm L37C filter. Built-in lens hood.

Wt. 564.4 oz. Dim. 9.3 x 34.6".

**Nikon Product Number:**

**1448 NAS**



**SPECIAL PURPOSE LENSES**

**(NOCT, MICRO, MEDICAL, PC, DC, UV)**



*While Nikkor lenses are noted for their versatility, certain special photographic applications, such as perspective-controlled 35mm architectural photography, require unique design characteristics. Nikon offers a complete line of Special Purpose lenses to fit every need.*

**58MM F/1.2 NOCT-NIKKOR**

Superb for available-light shooting in the dimmest light. Ultra-fast maximum aperture produces bright, easy-to-focus image in viewfinder. Improved optical system provides virtually distortion-free performance down to the closest focusing distance of 21 inches. Aspherical lens element corrects for coma, making bright points of light appear as dots. Accepts 52mm filters; HS-7 and HR-2 lens hoods.

Wt. 16.4 oz. Dim. 2.9 x 2.0".

**Nikon Product Number: 1439 NAS**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

**60MM F/2.8D AF\* MICRO-NIKKOR**

This lens provides an exceptional range of applications and high-quality performance. Close-Range Correction System ensures high resolution from infinity to close-ups down to 8 3/4 inches (1:1 reproduction ratio). A-M (Automatic-Manual) switch enables quick changing from autofocus to manual focus. Accepts 62mm filters; HN-22 lens hood.

*Wt. 16 oz. Dim. 2.8 x 3".*

**Nikon Product Number: 1987 NCP**



**105MM F/2D AF\* DC-NIKKOR**

Nikon defocus control offers new creative possibilities for shallow depth-of-field portrait photography. Photographers can fine-tune the foreground or background image area, creating unique blurred effects. Auto-focus option. Accepts 72mm filters. Built-in lens hood.

*Wt. 21.9 oz. Dim. 3.0 x 4.1".*

**Nikon Product Number: 1932 NAS**



**105MM F/2.8D AF\* MICRO-NIKKOR**

This lens adds extra free working distance for multiple lighting techniques. The lens' 105mm focal length makes it suitable for portrait composition, while close-focusing enables detail work. Close-Range Correction System. Focuses from infinity to 12 inches (1:1 reproduction ratio).

A-M (Automatic-Manual) switch. Accepts 52mm filters; HS-7 lens hood.

*Wt. 19.6 oz. Dim. 3 x 4.2".*

**Nikon Product Number: 1988 NCP**



**135MM F/2 AF\* DC-NIKKOR**

Features unique Nikon Defocus-image Control technology, which allows you to control background and foreground blur for striking portraits. Autofocus capability. Large maximum aperture for shooting in dim light. Accepts 72mm filters. Built-in lens hood.

*Wt. 30.7 oz. Dim. 3.1 x 4.7".*

**Nikon Product Number: 1934 NAS**



**200MM F/4D ED-IF AF\* MICRO-NIKKOR**

The extra long focal length of this lens provides the most versatile working distance. Extra Low Dispersion (ED) glass ensures apochromatic-like performance, with high contrast and sharper images. ED glass has been incorporated into selected elements for superior optical performance. Internal focusing improves handling and focusing operation. Focuses from infinity to 19.4 inches (1:1 reproduction ratio).

A-M (Automatic-Manual) switch. Accepts 62mm filters; HN-30 lens hood.

*Wt. 42.3 oz. Dim. 3 x 7.7".*

**Nikon Product Number: 1989 NCP**



**120MM F/4 IF MEDICAL-NIKKOR SET**

Includes built-in ringlight flash for shadowless photography. A close-up system designed especially for medical, dental, and scientific applications. Nikon Internal Focusing technology keeps the size of the lens unchanged as you focus. Continuous operation from a reproduction of 1:11 down to 1:1 life-size. Requires AC Power Unit LA-2 (#4506) or DC Power Unit LD-2 (#4505) for flash operation.

Accepts 49mm filters.

*Wt. 31.4 oz. Dim. 3.9 x 5.6".*

**Nikon Product Number: 983 NAS**



**28MM F/3.5 PC-NIKKOR**

Features Nikon "Perspective Control" technology, indispensable for architectural and interior photography. Offers the versatility of a view camera in a relatively compact size. 11mm off-axis shift and 360° rotation capability. 74° picture coverage. Accepts 72mm filters; HN-9 lens hood.

*Wt. 13.4 oz. Dim. 3.1 x 2.5".*

**35MM F/2.8 PC-NIKKOR**

Also features Nikon "Perspective Control" technology, indispensable for architectural and interior photography. Offers the versatility of a view camera in a relatively compact size. 11mm off-axis shift and 360° rotation capability. 62° picture coverage. For 7X magnification, mount lens in reverse on bellows unit. Accepts 52mm filters; HN-1 lens hood.

*Wt. 11.3 oz. Dim. 2.4 x 2.4".*

**Nikon Product Number: 1025 NAS**



**105MM F/4.5 UV NIKKOR AIS**

This lens has been specially manufactured for use with UV light. Its highly transmissive properties allow UV rays to pass virtually unimpeded through the multi-lens design. Supplied with an AF-1 Gel Holder, UR-2 Adapter Ring and Nikon UV filter.

Accepts 52mm filters. *Wt. 18.2 oz. Dim. 2.7 x 4.3".*

**Nikon Product Number: 1453 NAS**



\* "AF" designated lenses are autofocus. All AF lenses can also be focused manually. "D" designated lenses provide distance information to camera and Speedlight for the most precise exposure control in ambient and flash photography. Performance varies according to the equipment used. Refer to specific product information for further details. Please note: autofocus operation for all AF-I/AF-S optics not possible with N50 and N6006.

Nikon D-type lens technology provides distance information to Nikon F5, N90s, N90, N70 and N50 cameras, making 3D Matrix Metering and Matrix Balanced Fill-Flash possible. With the F5, N90s, N90 and N70 with SB-26, 3D-Multi Sensor Balanced Fill-Flash is possible.

# Autofocus Micro-Nikkor Lens Series

## UNEQUALED PERFORMANCE — FROM INFINITY TO LIFE-SIZE

*Micro-Nikkor lenses provide unprecedented focusing range. Each focuses from infinity to life-size on the film, a never-before-equalled feat in 35mm photography. And with their superb optical performance, you can trust these lenses for nearly every picture-taking assignment.*

### CLOSE-RANGE CORRECTION

Most other lenses are optimized for focus at infinity, so pictures will always look their best at great distances. Nikon's Close-Range Correction challenges this concept with optical performance that smooths a lens's performance, so that focusing at infinity and close-up will be excellent. Images will be sharp, and distortion due to curvature will be nearly non-existent.

### D-TYPE LENS TECHNOLOGY

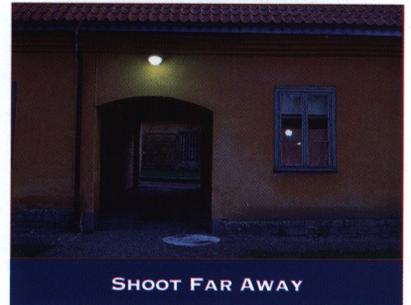
All of these lenses incorporate the Nikon Distance Signal. When used with the Nikon N90s, N90, N70 or N50, distance technology offers enhanced exposure calculations.

### 60MM F/2.8D AF MICRO-NIKKOR

This lens enhances the reputation of the Micro-Nikkor series even further. D-type lens technology provides distance information to N90s, N90, N70 and N50 cameras. This lens is a "must-have" for any serious photographer, providing an exceptional range of applications and high-quality performance.

- Close-Range Correction system ensures high resolution from infinity to close-ups down to 8 3/4 inches.
- Focuses from infinity to life-size (1:1 reproduction ratio).
- A-M (Automatic-Manual) switch enables you to change quickly from autofocus to manual focus, without having to change the camera body's focus mode switch.

**Nikon Product Number:**  
1987 NCP

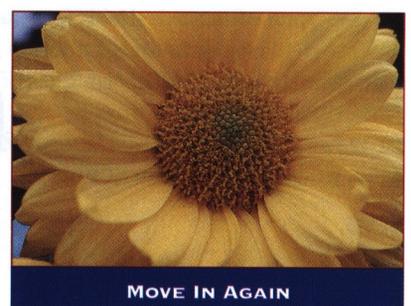
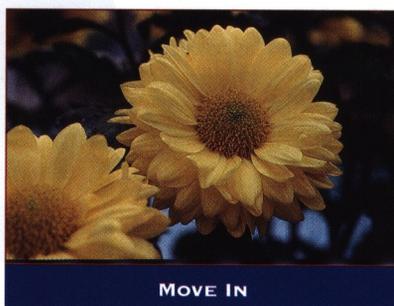
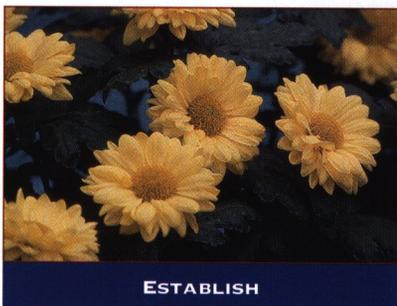


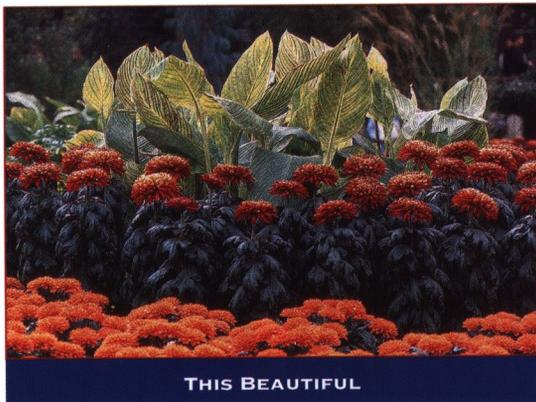
### 105MM F/2.8D AF MICRO-NIKKOR

The focal length of this lens adds extra working distance, enabling the more creative use of flash. The added working distance also provides additional comfort for subjects, and allows multiple lighting techniques. For general photography, the lens's 105mm focal length makes it suitable for classic portrait composition, while its close-focusing capability enables interesting detail work. D-type lens technology provides distance information to N90s, N90, N70 and N50 cameras.

- Close-Range Correction system ensures high resolution from infinity to close-ups down to 12 inches.
- Focuses from infinity to life-size (1:1 reproduction ratio).
- A-M (Automatic-Manual) switch enables you to quickly change from autofocus to manual focus, without having to change the camera body's focus mode switch.

**Nikon Product Number:** 1988 NCP

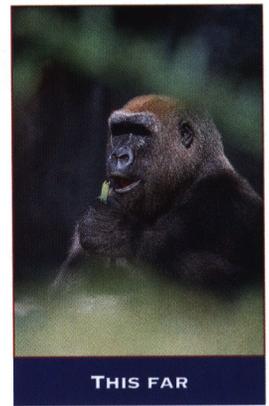




THIS BEAUTIFUL

**200MM F/4D IF-ED AF MICRO-NIKKOR - 1:1 LIFE-SIZE REPRODUCTION WITHOUT ACCESSORIES - A FIRST FOR A 200MM LENS**

The extra long focal length of this lens provides the most versatile working distance when you simply can't get close to your subject. Internal Focusing ensures easier handling and control. Extra Low Dispersion (ED) glass ensures apochromatic-like performance, with high contrast and sharper images. D-type lens technology provides distance information to N90s, N90, N70 and N50 cameras. This lens is ideal for anyone who is serious about close-up photography and wants a superb all-around telephoto lens, suitable for both portraiture and candid work — all with excellent balance and handling.



THIS FAR

NIKON'S EXCLUSIVE ED (EXTRA-LOW DISPERSION) GLASS HELPS TELEPHOTO LENSES LIKE THE NEW 200MM F/4D IF-ED AF MICRO-NIKKOR CORRECT CHROMATIC ABERRATION

Nikon Product Number: 1989 NCP



- ED glass has been incorporated into selected elements for superior optical performance
- Internal Focusing improves handling and focusing operation from infinity to close-ups down to 19.4 inches.
- Focuses from infinity to life-size (1:1 reproduction ratio).
- An A-M switch and clutch mechanism ensure smooth manual focusing as well as fast and accurate change-over to autofocus operation.

**SPECIFICATIONS FOR D-TYPE AF MICRO-NIKKOR LENSES**

	60mm f/2.8D AF Micro	105mm f/2.8D AF Micro	200mm f/4D IF ED AF Micro
Focal length	60mm	105mm	200mm
Maximum aperture	f/2.8	f/2.8	f/4.0
Lens construction	8 elements 7 groups	9 elements 8 groups	13 elements 8 groups
Angle of view	39° 40'	23° 20'	12° 20'
Closest focusing distance	8.75 in.	12 in.	19.4 in.
Reproduction ratio scale	1:10 - 1:1	1:10 - 1:1	1:10 - 1:1
Minimum aperture	f/32	f/32	f/32
Filter size	62mm	52mm	62mm
Tripod mounting collar			Provided
Dimensions	2.8 x 3 inches	3 x 4.2 inches	3 x 7.7 inches
Weight	16 oz.	19.6 oz.	42.3 oz.
Nikon Product Number	1987 NCP	1988 NCP	1989 NAS

**ACCESSORIES FOR D-TYPE MICRO-NIKKOR LENSES**

Nikon Product Number (NCP unless otherwise noted)	Description	Hood Product #	Hard Case Product #	Pouch Case Product #	Plastic Case Product #	Adapter Ring Product #
1987 NCP	60mm f/2.8D Micro-Nikkor	Screw-on HN-22/#566	CL-32S/#4503	No. 62/#4302	CP-9/#4511	SB-21's UR-3/#2396
1988 NCP	105mm f/2.8D Micro-Nikkor	Snap-on HS-7/#541	CL-15S/#4453 NAS	No. 63/#4303		
1989 NAS	200mm f/4D IF ED AF Micro- Nikkor	Screw-on HN-30/#4617	CL-45/#4464 NAS			

# Building Your System

## ALL THE RIGHT LENSES

### AT ALL THE RIGHT TIMES

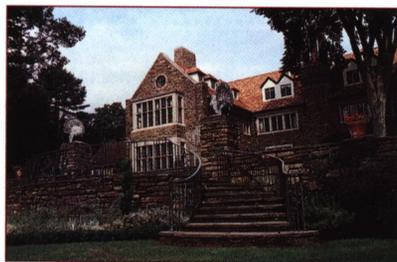
For almost all photographers, building a photographic system means adding lenses. That's because different lenses allow you to capture subjects in different ways. You can reach out, move up close, or simply shoot without being noticed. From travel, to people and portraits, to fast-action, this section will help you choose the Nikon lenses that are right for you along with their basic accessories.

#### TRAVEL

Great photos make for a great vacation. And the way to make your travel photos original and memorable is through the use of a series of Nikkor lenses.

#### BASIC TRAVEL LENS SELECTION

Your basic selections should include the four lenses shown in the chart to the right. The most basic travel lens is the Nikkor 35-80mm f/4-5.6 D AF Zoom. With this one lens, you can cover



scenics at 35mm, and instantly zoom out to emphasize nearby subjects at 80mm. Extending your range even further is the Nikkor 80mm to 200mm f/4.5-5.6D AF

Zoom. While capturing a new perspective, you can bring subjects up close, making them stand out dramatically from the background. Expansive scenics or frame-filling cityscapes can be captured with a choice of Nikkor wideangle lenses. Choose the 28mm f/2.8 or the even wider 24mm f/2.8. And finally, to capture details in normal perspective (the same way your eye sees), there's the 60mm f/2.8 AF Micro-Nikkor. Shoot items in store windows. Details of outfits and jewelry. Exotic flowers and plants. Or everyday, normal shots, again without ever changing lenses.



#### ADVANCED TRAVEL SYSTEMS

The more advanced travel systems expand your focal length range. For example, with an advanced travel system your basic zoom would be the 28-70mm f/3.5-4.5D AF Nikkor. Your expanded range zoom would be the 75mm-300mm f/4.5-5.6 AF Nikkor. Moving up to the Advanced+ and High Speed categories means you can shoot more effectively at lower light levels and use a larger range of aperture and shutter speed settings. You may also want to add a Nikon TC 1.4 Teleconverter to your High

Speed System, increasing your picture-taking range even further, without AF or Matrix Metering.

"AN ARRAY OF LENSES HELPS YOU CONTROL WHAT YOUR FEELING IS ABOUT A PARTICULAR SUBJECT — YOU'RE NOT LIMITED TO ONE WAY OF SEEING. WIDEANGLE LENSES LET YOU ESTABLISH AN ENTIRE SCENE. LONGER FOCAL LENGTH LENSES LET YOU CONCENTRATE ON SUBTLITIES, ISOLATING THEM FROM THE BACKGROUND. BY USING DIFFERENT LENSES, YOU'RE ACTUALLY GUIDING THE VIEWER'S EYE TO THE SUBJECT MATTER."  
JILL ENFIELD



"I CHOSE THE NIKKOR 20 TO 35MM WIDEANGLE ZOOM LENS FOR THIS SHOT BECAUSE I KNEW IT WOULD ALLOW ME TO COMPOSE THE SHOT ANYWAY I WANTED WITHIN A VERY LIMITED WORKING SPACE. YOU CAN'T EXACTLY JUST FLY DOWN FOR MORE EQUIPMENT, SO YOU WANT ONE 'PIECE OF GLASS' THAT OFFERS TREMENDOUS FLEXIBILITY. BECAUSE I WAS EXTENDING THE CAMERA OUT OF THE HELICOPTER ON A BOOM, I WAS COUNTING ON NIKON TECHNOLOGY TO PULL THIS SHOT OFF...MY CONFIDENCE WAS WELL-PLACED."  
JOE McNALLY



#### LENS ACCESSORIES

Things can get a little bumpy when you travel, so be sure to fit each Nikkor lens with a Skylight or NC filter for protection. The same goes for lens hoods. Also consider a soft-focus filter for romance, and a color conversion filter, enabling you to shoot both in daylight and under incandescent lights.

#### TRAVEL LENS SYSTEMS

	Basic	Advanced	Advanced +	High Speed
<b>Telephoto Zoom</b>				
75-300mm f/4.5-5.6 AF		#2 choice		
70-210mm f/4-5.6D AF	#2 choice		#2 choice	
80-200mm f/2.8D AF		#4 choice	#1 choice	#1 choice
80-200mm f/4.5-5.6D AF	#1 choice			
<b>Wideangle Zoom</b>				
20-35mm f/2.8D AF				#1 choice
24-50mm f/3.3-4.5D AF			#1 choice	
28-70mm f/3.5-4.5D AF		#1 choice	#1 choice	
35-80mm f/4-5.6D AF	#1 choice		#2 choice	#1 choice
<b>Wideangle</b>				
28mm f/1.4D AF				#3 choice
28mm f/2.8D AF	#3 choice			
24mm f/2.8D AF	#3 choice	#3 choice		
20mm f/2.8D AF		#3 choice	#2 choice	
<b>Telephoto</b>				
300mm f/2.8D ED-IF AF-I				#2 choice
300mm f/2.8D ED-IF AF-S				
<b>Teleconverter for AF-I or AF-S</b>				
TC-14E 1.4x for AF-I lenses				#2 choice
TC-20E 2x	#1 choice			
<b>Micro Nikkor</b>				
60mm f/2.8D AF	#4 choice		#3 choice	#1 choice

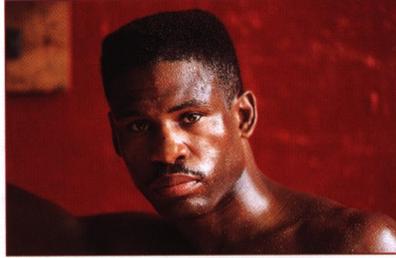
**PEOPLE AND PORTRAITS**

**BASIC LENS SELECTION**

Like travel, your first choice for shooting people and portraits is a zoom lens. But because moderate to longer focal length lenses are best for portraits, your basic choice is the Nikkor 70mm-210mm f/4-5.6D AF Zoom. This lens is also long enough to capture candid, which lend spontaneity and interest to

people photography. Next, select a wideangle zoom that will allow you to capture groups of people at fairly close distances and yet adjust your composition—the Nikkor 28mm-70mm f/3.5-4.5D AF Zoom. Your final choice can be an 85mm

or 105mm moderate telephoto Nikkor lens. Both of these lenses offer classic portrait length with large apertures, for greater shooting opportunities in dim light, while controlling depth-of-field.



“WHEN YOU PHOTOGRAPH PEOPLE, YOU’RE REALLY TRYING TO TELL A STORY ABOUT THEM. YOU WANT TO BE ABLE TO MOVE ALMOST INVISIBLY FROM WIDE ENVIRONMENTAL SHOTS TO TIGHTER CLOSE-UPS THAT HELP DEFINE CHARACTER. A SELECTION OF NIKKOR ZOOM LENSES ENABLES ME TO COMPOSE ENTIRELY DIFFERENT SCENES WITH A MINIMUM OF MOVEMENT THAT MIGHT DISTURB THE SUBJECT. FOR THE HIGHEST QUALITY PORTRAITS, THERE’S NO SUBSTITUTE FOR THE HIGH-SPEED 85MM AND 105MM NIKKOR LENSES.”  
**JOE MCNALLY**

**ADVANCED SYSTEMS**

Advanced lens selections in this category provide the advantage of greater apertures. High speed selections make your photography more flexible and offer a wide range of aperture/shutter speed combinations.

**PEOPLE AND PORTRAIT SYSTEMS**

	Basic	Advanced	High Speed
<b>Telephoto Zoom</b>			
75-300mm f/4.5-5.6 AF		#1 choice	
70-210mm f/4-5.6D AF	#1 choice		
80-200mm f/2.8D AF		#2 choice	#2 choice
<b>Wideangle Zoom</b>			
28-70mm f/3.5-4.5D AF			
28-80mm f/3.5-5.6D AF	#2 choice		
35-105mm f/3.5-4.5D AF		#3 choice	
<b>Wideangle</b>			
35mm f/2D AF			
28mm f/2.8D AF		#4 choice	
24mm f/2.8D AF		#4 choice	
20mm f/2.8D AF		#4 choice	
<b>Telephoto</b>			
85mm f/1.4D AF			#3 choice
85mm f/1.8D AF	#3 choice		
105mm f/2D AF	#3 choice		#1 choice
135mm f/2DC AF			#1 choice
180mm f/2.8N AF			#2 choice
<b>Micro Nikkor</b>			
105mm f/2.8D AF		#3 choice	#1 choice
200mm f/4D AF		#3 choice	

**LENS ACCESSORIES**

Again, each of your Nikkor lenses should be fitted with a Skylight filter and lens hood for protection. For added flexibility, a color conversion filter will enable you to shoot both in daylight and under incandescent lights with the same film.

**FAST ACTION**

Nikkor lenses in this category offer extremely fast apertures, allowing you to shoot in lower light levels with a wider range of aperture and shutter speeds. Many are internal focusing, made of ED Glass, and are designed to meet the needs of the most demanding professionals. A notable addition to this category is the 20mm-35mm AF Wideangle Zoom (used by Joe McNally in the helicopter sequence on the previous page). Fast-action lenses make you ready

for anything — sports, portraits, events, travel and nature photography.

If you want to be ready for anything, select your lenses within this category.

**LENS ACCESSORIES**

Your investment in these top-of-the-line Nikon lenses demands the protection offered by Skylight filters and lens hoods. Adding an array of other filters can greatly increase the quality of your photographs.



**FAST-ACTION SYSTEMS**

20mm f/2.8D AF	180mm f/2.8D ED-IF AF
28mm f/1.4D AF	300mm f/2.8D AF-I
50mm f/1.4D	400mm f/2.8D AF-I
85mm f/1.4D AF	80-200mm f/2.8D AF



# AF NIKKOR LENS SPECIFICATIONS AND COMPATIBILITY

Lens	Lens Construction (groups/elements)	Picture Angle	Minimum f/Stop	Closest Marked Focus Distance [Macro Setting] m (ft.)	Filter Attachment Size (mm)	Type of Lens Cap	Lens Case	Lens Hood	Weight (oz.)	Dia. x Length (extension from lens mount) (in.)	TC-201	TC-301	TC-14A	TC-14B	TC-14E	TC-20E
<b>Zoom</b>																
AF 20-35mm f/2.8D	11/14	94°-62°	22	0.5 (1.7)	77	Snap-on	CL-46 No.62 CP-9	HB-8	22.6	3.2 x 3.7	1	—	1	—	—	—
AF 24-50mm f/3.3-4.5D	9/9	84°-46°	22	0.6 (2) [0.5 (1.6)]	62	Snap-on	CL-32S CL-17 No.62 CP-9	HB-3	13.2	2.8 x 2.9	1	—	1	—	—	—
AF 24-120mm f/3.5-5.6D	15/11	84°-20°30'	22	0.5 (2)	72	Snap-on	CL-49	HB-11	19.6	3.1 x 3.14	1	—	1	—	—	—
AF 28-70mm f/3.5-4.5D	7/8	74°-34°20'	22	0.5 (2) [0.39 (1.3)]	52	Snap-on	CL-32S No.62 CP-9	HB-6	12.5	2.7 x 2.8	1	—	1	—	—	—
AF 28-80mm f/3.5-5.6D	7/7	74°-30°10'	22	0.5 (1.7)*4	58	Snap-on	CL-32S No.62	HB-10		2.6 x 2.7						
AF 28-85mm f/3.5-4.5	11/15	74°-28°30'	22	0.8 (3) [0.23 (0.8)]	62	Snap-on	CL-33S No.62 CP-9	HB-1	19.0	2.8 x 3.5	2	—	2	—	—	—
AF 35-70mm f/2.8D	12/15	62°-34°20'	22	0.6 (2) [0.28 (0.9)]	52	Snap-on	CL-33S No.62 CP-9	HB-1	23.8	2.8 x 3.7	1	—	1	—	—	—
AF 35-80mm f/4-5.6D	8/7	62°-30°10'	22	0.35 (1.2)*4 [0.35 (1.1)]	52	Snap-on	CL-31S No.62 CP-8 CP-9	HN-3	6.2	2.6 x 2.7s	1	—	1	—	—	—
AF 35-105mm f/3.5-4.5D	13/10	62°-23°20'	22	.85 (3)	52	Snap-on	CL-32S No.62 CP-9	HB-5	14.0	2.7 x 2.9	1	—	1	—	—	—
AF 35-135mm f/3.5-4.5	12/15	62°-18°	22	1.5 (5) [0.3 (1)]	62	Snap-on	CL-41 No.63 CP-9	HB-1	24.2	2.9 x 4.3	1	—	1	—	—	—
AF 70-210mm f/4-5.6D	9/12	34°20'-11°50'	32	1.5 (5) [1.2 (3.9)]	62	Snap-on	CL-15S CL-38 No.63 CP-9	HN-24	20.8	2.9 x 4.3	1	—	1	—	—	—
AF 80-200mm f/4-5.6D	10/8	30°10'-12°20'	32	1.5 (5)*4	52	Snap-on	CL-15S No.62	HR-1	11.5	2.8 x 3.4	—	—	1	—	—	—
AF 75-300mm f/4.5-5.6	11/13	31°40'-8°10'	32	3 (10) [1.5 (5)]	62	Snap-on	CL-36	HN-24	30.0	2.8 x 6.5	4	—	4	—	—	—
AF 80-200mm f/2.8D ED	11/16	30°10'-12°20'	22	1.8 (6) [1.5 (4.9)]	77	Snap-on	CL-43A	HB-7	45.9	3.4 x 7.4	3	—	3	1	—	—
<b>Fisheye</b>																
AF Fisheye 16mm f/2.8D*1	5/8	180°	22	0.25 (0.85)	Provided	Slip-on	CL-31S No.61	Built-in	10.1	2.5 x 2.2	1	—	1	—	—	—
AF 18mm f/2.8D	10/3	100°	22	0.25 (0.85)	77	Snap-on	CL-47	HB-8	13.6	3.3 x 2.3	1	—	1	—	—	—
<b>Wideangle</b>																
AF 20mm f/2.8D*1	9/12	94°	22	0.25 (0.85)	62	Snap-on	CL-30S CL-37 No.61 CP-8	HB-4	9.2	2.7 x 1.7	1	—	1	—	—	—
AF 24mm f/2.8D*1	9/9	84°	22	0.3 (1)	52	Snap-on	CL-30S CL-34A No.61 CP-8	HN-1	9.5	2.5 x 1.8	1	—	1	—	—	—
AF 28mm f/1.4D*1	8/11	74°	16	0.35 (1.15)	72	Snap-on	CL-44 No.62 CP-9	HK-7	18.3	3.0 x 3.1	1	—	1	—	—	—
AF 28mm f/2.8D	5/5	74°	22	0.3 (1)	52	Snap-on	CL-30S CL-34A No.61 CP-8	HN-2	6.9	2.5 x 1.5	1	—	1	—	—	—
AF 35mm f/2D	5/6	62°	22	0.25 (0.85)	52	Snap-on	CL-30S No.61 No.62 CP-8 CP-9	HN-3	7.6	2.5 x 1.7	1	—	1	—	—	—
<b>Normal</b>																
AF 50mm f/1.4D	6/7	46°	16	0.45 (1.5)	52	Snap-on	CL-30S CL-34A No.61 CP-8	HR-2	9.0	2.5 x 1.7	2	—	2	—	—	—
AF 50mm f/1.8	5/6	46°	22	0.45 (1.5)	52	Snap-on	CL-30S No.61 CP-8	HR-2	5.5	2.5 x 1.5	1	—	1	—	—	—
<b>Telephoto</b>																
AF 85mm f/1.8D	6/6	28°30'	16	0.85 (3)	62	Snap-on	CL-31S CL-15S No.62 CP-9	HN-23	14.6	2.8 x 2.3	2	—	4	—	—	—
AF 85mm f/1.4D	9/8	28°30'	16	0.85 (3)	77	Snap-on	CL-44 No.62 CP-9	HN-31	19.6	3.2 x 3.3	5	—	5	—	—	—
AF 180mm f/2.8D ED-IF	6/8	13°40'	22	1.5 (5)	72	Snap-on	CL-38 No.63	Built-in	26.5	3.1 x 5.7	3	—	3	—	—	—
AF 300mm f/2.8 ED-IF*2	6/8	8°10'	22	3 (10)	39	Drop-in	CT-303	Built-in, HE-6	95.2	5.2 x 10.0	3	1	3	1	—	—
AF-I 300mm f/2.8D ED-IF*2	9/11	8°10'	22	2.5 (8.5)	39	Drop-in	CT-304	HK-19	104.1	4.9 x 9.5	—	1	—	—	1	1
AF-S 300mm f/2.8D ED-IF*2	11/8	8°10'	22	2.5 (10)	52	Drop-in		HK-22	106	4.9 x 10	—	1	—	—	—	—
AF 300mm f/4 ED-IF*2	6/8	8°10'	32	2.5 (8.5)	39	Drop-in	CL-42	Built-in	46.9	3.5 x 8.6	3	1	—	1	1	1
AF-I 400mm f/2.8D ED-IF*2	7/10	6°10'	22	3.3 (12)	52	Drop-in	CT-401	HK-20	222.2	6.2 x 14.8	—	1	—	1	1	1
AF-I 500mm f/4D ED-IF*2	10/7	5°	22	5 (16)	39	Drop-in	CT-501	HK-21	148.2	5.5 x 16	—	1/5	—	1/5	1	1
AF-S 500mm f/4D ED-IF*2	11/9	5°	22	5 (16 1/2)	52	Drop-in		HK-24	130	4.5 x 14.6	—	1/5	—	1/5	1	1
AF-I 600mm f/4D ED-IF*2	7/9	4°10'	22	6 (20)	39	Drop-in	CT-604	HK-18-1, 2	213.4	6.5 x 16.4	—	1/5	—	1/5	1	1
AF-S 600mm f/4D ED-IF*2	10/7	4°10'	22	6 (19 1/2)	52	Drop-in		HK-23	284	4.5 x 18	—	1/5	—	1/5	1	1
<b>Special Purpose</b>																
AF Micro 60mm f/2.8D*1	7/8	39°40'	32	0.219 (8.75 in.)	62	Snap-on	CL-32S No.62 CP-9	HN-22	16.0	2.8 x 2.9	2	—	2	—	—	—
AF Micro 105mm f/2.8D*1	8/9	23°20'	32	0.314 (1)	52	Snap-on	CL-15S CL-38 No.63 CP-9	HS-7	19.6	3 x 4.2	4	—	—	—	—	—
AF DC 105mm f/2D	6/6	23°20'	16	0.9 (3)	72	Snap-on	CL-38 No.63 CP-9	Built-in	21.9	3.0 x 4.1	—	—	—	—	—	—
AF DC 135mm f/2	6/7	18°	16	1.1 (4)	72	Snap-on	CL-38 No.63 CP-9	Built-in	30.7	3.1 x 4.7	—	—	—	1	—	—
AF Micro 200mm f/4D ED-IF	8/13	12° 20'	32	.5(1.7)	62	Snap-on	CL-45	HN-30	42.30	3 x 7.7	1	—	1	—	—	—
<b>AF-I Teleconverters</b>																
TC-14E	5/5	—	—	—	—	—	CL-30S No.61	—	7.1	2.6 x 1.0	—	—	—	—	—	—
TC-20E*3	6/7	—	—	—	—	—	CL-31S No.62	—	12.0	2.6 x 2.2	—	—	—	—	—	—

\*1 Features Close-Range Correction (CRC) system.

\*2 Tripod mounting collar is provided.

\*3 Autofocusing is possible only with an AF-I Nikkor lens having a maximum aperture of f/2.8 or faster.

\*4 Not marked on lens barrel.

1-Usable.

2-When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

3-Usable, but there is occasional vignetting.

4-There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

5-Manual focus only.

— Not usable.

Note: Contact your authorized Nikon dealer concerning the availability of these and other Nikkor lenses.

# MANUAL-FOCUS NIKKOR LENSES

Lens	Lens Construction (groups/elements)	Picture Angle	Minimum f/ Stop	Closest Marked Focus Distance [Macro Setting] m (ft.)	Filter Attachment Size (mm)	Type of Lens Cap	Lens Case	Lens Hood	Weight (oz.)	Dia. x Length (extension from lens mount) (in.)	TC-201	TC-301	TC-14A	TC-14B
<b>Fisheye</b>														
6mm f/2.8 <sup>*3</sup>	9/12	220°	22	0.25 (0.9)	Built-in	Slip-on	Trunk case	—	183.4	9.3 x 6.3	1	—	1	—
8mm f/2.8	8/10	180°	22	0.3 (1)	Built-in	Screw-in	CL-11 CL-17 No.63	—	38.8	4.8 x 5.0	1	—	1	—
<b>Wideangle</b>														
13mm f/5.6 <sup>*1, *3</sup>	12/16	118°	22	0.3 (1)	Provided	Slip-on	CL-14	Built-in	42.3	4.5 x 3.5	1	—	1	—
15mm f/3.5 <sup>*1</sup>	11/14	110°	22	0.3 (1)	Provided	Slip-on	CL-17	Built-in	22.2	3.5 x 3.3	1	—	1	—
24mm f/2 <sup>*1</sup>	10/11	84°	22	0.3 (1)	52	Snap-on	CL-31S CL-34A No.61 CP-8	HK-2	10.6	2.5 x 2.0	1	—	1	—
28mm f/2 <sup>*1</sup>	8/9	74°	22	0.25 (0.9)	52	Snap-on	CL-31S CL-32S No.62 CP-9	HN-1	12.7	2.5 x 2.3	1	—	2	—
35mm f/1.4 <sup>*1</sup>	7/9	62°	16	0.3 (1)	52	Snap-on	CL-31S CL-32S No.62 CP-9	HN-3	14.1	2.7 x 2.4	2	—	1	—
<b>Normal</b>														
50mm f/1.2	6/7	46°	16	0.5 (1.7)	52	Snap-on	CL-30S CL-34A No.61 CP-8	HS-12, HR-2	13.4	2.7 x 1.9	1	—	1	—
<b>Telephoto</b>														
85mm f/1.4 <sup>*1</sup>	5/7	28°30'	16	0.85 (3)	72	Snap-on	CL-34A CP-9	HN-20	21.9	3.2 x 2.5	2	—	2	—
105mm f/2.5	4/5	23°20'	22	1 (3.5)	52	Snap-on	CL-15S CP-9	Built-in	15.3	2.5 x 2.7	1	—	3	—
135mm f/2.8	4/5	18°	32	1.3 (4.5)	52	Snap-on	CL-35A CL-38 No.63	Built-in	15.3	2.5 x 3.3	3	—	1	1
200mm f/2 ED-IF <sup>*2</sup>	8/10	12°20'	22	2.5 (9)	Gelatin filter	Slip-on	CT-200	Built-in, HE-4	89.9	5.2 x 8.9	2	—	4	2
300mm f/2.8 ED-IF <sup>*2</sup>	6/8	8°10'	22	3 (10)	39	Snap-on	CT-302 No.58 No.59	Built-in, HE-4	84.7	5.2 x 10.0	3	1	3	1
400mm f/2.8 ED-IF <sup>*2</sup>	6/8	6°10'	22	4 (15)	52	Slip-on	CL-20A	Built-in, HE-3	181.7	6.4 x 14.9	4	2	—	2
400mm f/3.5 ED-IF <sup>*2</sup>	6/8	6°10'	22	4.5 (15)	122/39 <sup>*6</sup>	Slip-on	CL-20A	Built-in	98.8	5.3 x 11.7	—	1	3	1
400mm f/5.6 ED-IF <sup>*2</sup>	6/7	6°10'	32	4 (15)	72	Snap-on	CL-27A	Built-in	42.3	3.3 x 10.0	—	1	—	1
500mm f/4 P ED-IF <sup>*2</sup>	6/8	5°	22	5 (20)	39	Slip-on	CT-500 No.59	HK-17	105.8	5.4 x 15.1	—	1	—	1
600mm f/4 ED-IF <sup>*2</sup>	6/8	4°10'	22	6.5 (25)	39	Slip-on	CT-602	Built-in, HE-5	199.3	6.8 x 18.3	—	1	—	1
600mm f/5.6 ED-IF <sup>*2</sup>	6/7	4°10'	32	5 (20)	39	Slip-on	CT-603 No.59	Built-in, HE-4	98.8	5.2 x 15.3	—	1	—	1
800mm f/5.6 ED-IF <sup>*2</sup>	6/8	3°	32	8 (30)	52	Slip-on	CT-800	Built-in, HE-3	192.2	6.4 x 21.5	—	2	—	2
<b>Reflex</b>														
500mm f/8 <sup>*2</sup>	6/6	5°	—	1.5 (5)	82/39 <sup>*6</sup>	Slip-on	CL-39	HN-27	29.6	3.5 x 4.3	—	—	3	5
1000mm f/11 <sup>*2</sup>	5/5	2°30'	—	8 (25)	39	Screw-in	CL-29	Built-in	67.0	4.7 x 9.2	5	5	—	5
2000mm f/11	5/5	1°10'	—	18 (60)	Built-in	—	Trunk case	—	617.3	10.3 x 23.4	1	1	—	1
<b>Zoom</b>														
35-200mm f/3.5-4.5	13/17	62°-12°20'	22	1.6 (5.5) [0.3 (1)]	62	Snap-on	CL-13A No.63 CP-9	HK-15	26.1	2.8 x 4.7	3	—	—	—
50-300mm f/4.5 ED <sup>*2</sup>	11/15	46°-8°10'	32	2.5 (8.5)	95	Screw-in	CL-64 CE-2	HK-5	68.8	3.9 x 9.4	1	—	1	—
180-600mm f/8 ED <sup>*2, *3</sup>	11/18	13°40'-4°10'	32	2.5 (8.5)	95	Snap-on	CZ-1860	HN-16	127.0	4.1 x 15.6	—	1	—	1
1200-1700mm f/5.6-8 P ED-IF <sup>*3</sup>	13/18	2°-1°30'	22	10 (35)	52	Screw-in	CT-1217	Built-in	564.4	9.3 x 34.6	—	—	—	—
<b>Special Purpose</b>														
PC 28mm f/3.5 <sup>*5</sup>	8/9	74°	22	0.3 (1)	72	Snap-on	CL-34A No.62 CP-9	HN-9	13.4	3.1 x 2.5	—	—	—	—
PC 35mm f/2.8 <sup>*5</sup>	7/7	62°	32	0.3 (1)	52	Snap-on	CL-34A No.62 CP-9	HN-1	11.3	2.4 x 2.4	—	—	—	—
Noct 58mm f/1.2	6/7	40°50'	16	0.5 (1.7)	52	Snap-on	CL-34A No.61 CP-8	HS-7, HR-2	16.4	2.9 x 2.0	2	—	2	—
Micro 200mm f/4 IF	6/9	12°20'	32	0.71 (2.34)	52	Snap-on	CL-36	Built-in	28.2	2.6 x 6.8	—	1	1	1
Medical 120mm f/4 IF <sup>*4</sup>	6/9	18°50' (1/11x)	32	0.35 (1.1)	49	Slip-on	Leatherette compartment case	—	31.4	3.9 x 5.6	—	—	—	—
UV 105mm f/4.5	6/6	23°20'	32	0.48 (1.57)	52	Snap-on	CL-15S CL-35A <sup>*7</sup> CL-41 No.63 CP-9	—	18.2	2.7 x 4.3	—	—	—	—
<b>Teleconverters</b>														
TC-201	5/7	—	—	—	—	—	CL-30S No.61 CP-8 CP-9	—	8.1	2.5 x 1.7	—	—	—	—
TC-301	5/5	—	—	—	—	—	CL-33S No.62 CP-9	—	9.9	2.5 x 3.3	—	—	—	—
TC-14A	5/5	—	—	—	—	—	No.61 CP-8 CP-9	—	5.1	2.6 x 0.7	—	—	—	—
TC-14B	5/5	—	—	—	—	—	No.61 CP-8 CP-9	—	5.8	2.6 x 0.9	—	—	—	—

\*1 Features Close-Range Correction (CRC) system.

\*2 Tripod mounting collar is provided.

\*3 Manufactured upon receipt of order.

\*4 Power is supplied only by an AC Power Unit LA-2 or a DC Power Unit LD-2 (both optional).

\*5 Manual type diaphragm with preset ring.

\*6 Front filter / rear filter.

\*7 With a PN-11 ring.

1-Usable.

2-When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

3-Usable, but there is occasional vignetting.

4-There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

5-Usable, if the rear screw-in filter is removed.

— Not usable.

## COMPATIBLE NIKKOR LENSES WITH BUILT-IN FLASH OF THE N6006 AND N5005

### Usable non-zoom lenses

28mm to 300mm lenses except AF Nikkor 300mm f/2.8 ED-IF, Nikkor 200mm f/2 ED-IF and Nikkor 300mm f/2.8 ED-IF

### Usable zoom lenses

AF 24-50mm f/3.3-4.5<sup>\*1</sup>; AF 28-70mm f/3.5-4.5D<sup>\*2</sup>; AF 28-85mm f/3.5-4.5<sup>\*3</sup>; AF 35-70mm f/4-5.6D; AF 35-70mm f/3.3-4.5; AF 35-105mm f/3.5-4.5; AF 35-135mm f/3.5-4.5<sup>\*4</sup>; AF 70-210mm f/4-5.6D; AF 75-300mm f/4.5-5.6; AF 80-200mm f/2.8D ED<sup>\*5</sup>; 28-85mm f/3.5-4.5<sup>\*6</sup>; 35-70mm f/3.3-4.5; 35-105mm f/3.5-4.5; 35-135mm f/3.5-4.5<sup>\*7</sup>; 35-200mm f/3.5-4.5<sup>\*4</sup>; 80-200mm f/4; 100-300mm f/5.6

\*Zoom lenses cannot be used for macro focusing

\*Do not use a lens hood; it could cause slight vignetting

\*N5005 is compatible with AF Nikkor lenses only

\*1 Cannot be used at a focal length shorter than 28mm, or when shooting a subject within 1m (3.3 ft.) at 28mm focal length

\*2 Cannot be used when shooting a subject within 1m (3.3 ft.) at a focal length shorter than 35mm

\*3 Cannot be used at a focal length shorter than 35mm, or when shooting a subject within 2m (6.6 ft.) at 35mm focal length

\*4 Cannot be used at a focal length shorter than 50mm

\*5 Cannot be used when shooting a subject within 2m (6.6 ft.) at 35mm focal length

\*6 Cannot be used when shooting a subject within 2m (6.6 ft.) at 80mm focal length

\*7 Cannot be used when shooting a subject within 2m (6.6 ft.) at 80mm focal length

Note: Contact your authorized Nikon dealer concerning the availability of these and other Nikkor lenses.



# Lens Caps

## PROTECT YOUR INVESTMENT WITH LENS CAPS AND COVERS FOR NIKON CAMERAS AND LENSES

Protect your Nikon investment with genuine Nikon lens, teleconverter and camera body mount caps. Lens caps protect the front and rear portions of your lenses and teleconverters from dust, smudges and scratches. Camera body mount caps protect the mirror box and reflex mirror when a lens is not affixed to the camera body. Select appropriate caps from list below. (Rear Lens Cap NCP LF-1 fits all Nikon F-mount lenses and teleconverters.)



### Lens/Camera Cap

52mm Snap-on Front Lens Cap	581 NCP
58mm Snap-on Front Lens Cap	4673 NCP
61mm Slip-on Front Lens Cap for 16mm f2.8N	597 NAS
62mm Snap-on Front Lens Cap	600 NCP
72mm Snap-on Front Lens Cap	601 NCP
77mm Snap-on Front Lens Cap for 80-200mm f/2.8 AF,	
18mm f/2.8 D AF and 20-35mm f/2.8 D AF	578 NAS
85mm Slip-on Front Lens Cap for 500mm f8N Reflex	1335 NCP
90mm Slip-on Front Lens Cap for 15mm f3.5	584 NAS
95mm Screw-in Front Lens Cap for 50-300mm f.4.5	626 NAS
122mm Screw-in Front Lens Cap	621 NAS
Front Lens Cover for ED lenses	629 NAS
(f/200/2; f/300/2.8; f/600/5.6)	
Front Lens Cover for 300mm/f2, 600mm/f4	603 NAS
Front Lens Cover for 300mm/f2.8 D AF-I	593 NAS
Front Lens Cover for 600mm/f4 D AF-I	594 NAS
Front Lens Cover for 400mm/f2.8	631 NAS
Front Lens Cover for 300mm/f4 AF	596 NAS
BF-2 Front Mount Cap for TC-2, 300, 301	598 NAS
BF-3 Front Mount Cap for TC-14, 14B, 14E, 20E	611 NAS
BF-1A Lens Mount Cap for SLR Camera	612 NCP
LF-1 Rear Lens Cap for all F-Mount Lenses	607 NCP

# Lens Hoods

## REDUCE FLARE — ELIMINATE “GHOST IMAGES”

A lens hood is an essential part of your Nikon system. By reducing stray light and minimizing flare, your pictures show improved contrast and better color saturation. Hoods also provide important shock protection, should your lens be dropped or bumped. Genuine Nikon hoods are made of materials that prevent permanent bonding to the lens, which may sometimes occur with other manufacturers' hoods. Available in the four types.

### Screw-in

Screws onto the front of the front of the lens. Metal type available for extra strength.

Rubber type folds back over the lens when not in use.



### Slip-on

Slips over the front of the lens. Tightened with knurled screw and retainer ring. Use with wide-zoom and ultra-wide lenses.

### Snap-on

Snaps onto the front of the lens with a spring-type retainer ring. The mounting can be reversed for storage.



### Bayonet

Twist-lock mounting for extra security.



### Note:

Some lenses have built-in hoods.

Designation	Nikon Product Number	Lenses Attachable*
<b>Snap-on</b>		
HS-7	541 NAS	Noct 58/1.2, AF Micro 105/2.8
HS-12	547 NAS	50/1.2
<b>Rubber screw-in</b>		
HR-2	538 NAS	50/1.2, Noct 58/1.2, AF 50/1.4, AF 50/1.8, 80-200/4.5-5.6D
<b>Screw-in</b>		
HN-1	537 NCP	28/2, PC 35/2.8, AF 24/2.8D
HN-2	509 NCP	35-70/3.3-4.5, AF 28/2.8D, AF 35-70/3.3-4.5
HN-3	510 NCP	35/1.4, AF 35/2, 35-80/4.5-5.6D
HN-9	523 NAS	PC 28/3.5
HN-12	518 NAS	52mm Circular Polar Filter
HN-13	539 NAS	72mm Circular Polar Filter
HN-20	562 NAS	85/1.4
HN-22	566 NAS	AF Micro 60/2.8
HN-23	565 NCP	AF 85/1.8D
HN-24	567 NCP	AF 70-210/4.5-6.6, AF 75-300/4.5-5.6
HN-26	568 NAS	62mm Circular Polar Filter
HN-27	558 NCP	Reflex 500/8
HN-29	4613 NAS	77mm Circular Polarizing Filter
<b>Slip-On</b>		
HK-2	551 NAS	24/2
HK-5	554 NAS	50-300/4.5 ED
HK-7	561 NAS	28/1.4D
HK-15	4600 NAS	35-200/3.5-4.5
HK-17	4608 NAS	500/4 P ED-IF
HK-18	4615 NAS	AF-1 600/4D ED-IF
HK-19	4616 NAS	AF-1 300/2.8D ED-IF
HK-21	4100 NAS	400 AFI
HK-22	4619 NAS	AF-S 300 2.8D ED-IF
HK-23	4613 NAS	AF-S 600/4D ED-IF
<b>Bayonet</b>		
HB-1	4602 NCP	AF 28-85/3.5-4.5, AF 35-70/2.8D, AF 35-135/3.5-4.5, AF 35-70/2.8D
HB-2	4603 NCP	AF 35-105 (Zoom Ring version)
HB-3	4604 NCP	AF 24-50/3.3-4.5
HB-4	4610 NAS	AF 20/2.8D
HB-5	4611 NCP	AF 35-105/3.5-4.5
HB-6	4612 NCP	AF 28-70/3.5-4.5D,
HB-7	4614 NAS	AF 80-200/2.8D ED
HB-8	4619 NAS	20-35/2.8D
HB-10	4672 NCP	28-80/3.5-5.6D
HB-11	4675NCP	24-120/3.5-5.6D

\*See chart page 56 for complete compatibility

### NIKON SCHOOL PHOTO TIP:

PICTURES ARE OFTEN STRONGER IF THEY DO NOT CONTAIN TOO MANY COMPETING ELEMENTS. BEFORE TAKING A SHOT, LOOK CAREFULLY THROUGH THE VIEWFINDER TO SEE IF EVERYTHING IS WORKING IN FAVOR OF THE COMPOSITION. IF NOT, REFRAME THE IMAGE TO SIMPLIFY THE SUBJECT MATTER.



# Nikkor Lenses For Large Format Cameras

*Nikkor lenses for large-format cameras are built to the same exacting standards as our 35mm lenses.*



## SW (SUPER WIDEANGLE 105°) SERIES

The SW-series lenses feature large covering power and a large image circle. Maximum apertures of f/4 and f.4.5 assure fast, pinpoint focusing and bright images, corner to corner. Covering power can be extended to 105°-106° by stopping the lens down. Nikkor SW lenses feature Nikon Integrated Coating and strict aberration control.



## W (WIDEANGLE 70°) SERIES

Covering power of W Series Nikkors is an ample 70°-73° when stopped down. Six elements in four groups. Nikon Integrated Coating assures high contrast and faithful color rendition. Recommended for landscapes, portraits, architecture and table-top photography.



## NIKKOR AM (APO MACRO) ED

Nikkor-AM (APO Macro) lenses are exclusively designed for macro photography. ED glass reduces chromatic aberration and symmetrical lens construction ensures that the lens is 100% free of distortion and chromatic aberration at 1:1.



## T-SERIES (TELE CONSTRUCTION WITH ED GLASS 33°)

T-Series Nikkor lenses are telephoto-type lenses which do not require long-length camera bellows. ED glass has been incorporated to minimize image distortion and curvature. Combined with Integrated Coating the result is outstandingly sharp images, virtually free from flare and ghosts.



## M-SERIES (NORMAL LENS 50°-55°)

These lenses offer standard covering power and faithful reproduction of subtle variations in color and shading. Chromatic aberration is virtually eliminated. Nikon Integrated Coating assures high resolution and contrast.



## NIKKOR LARGE FORMAT LENSES

	Maximum Aperture Ratio	Minimum Aperture	Nikon Product Number
Nikkor SW 65mm f/4 with No. 0 Shutter	1:4	f/45	1341 NAS
Nikkor SW 75mm f/4.5 with No. 0 Shutter	1:4.5	f/45	1343 NAS
Nikkor SW 90mm f/4.5 with No. 0 Shutter	1:4.5	f/64	1345 NAS
Nikkor SW 90mm f/8 with No. 0 Shutter	1:8	f/64	1344 NAS
Nikkor SW 120mm f/8 with No. 0 Shutter	1:8	f/64	1346 NAS
Nikkor SW 150mm f/8 with No. 1 Shutter	1:8	f/64	1351 NAS
Nikkor W 105mm f/5.6 with No. 0 Shutter	1:5.6	f/45	1309 NAS
Nikkor W 135mm f/5.6 with No. 0 Shutter	1:5.6	f/64	1312 NAS
Nikkor W 150mm f/5.6 with No. 0 Shutter	1:5.6	f/64	1314 NAS
Nikkor W 180mm f/5.6 with No. 1 Shutter	1:5.6	f/64	1316 NAS
Nikkor W 210mm f/5.6 with No. 1 Shutter	1:5.6	f/64	1318 NAS
Nikkor W 240mm f/5.6 with No. 3 Shutter	1:5.6	f/64	1319 NAS
Nikkor W 300mm f/5.6 with No. 3 Shutter	1:5.6	f/64	1320 NAS
Nikkor W 360mm f/5.6 with No. 3 Shutter	1:6.5	f/64	1327 NAS
Nikkor AM 120mm f/5.6 with No. 0 Shutter	1:5.6	f/45	1325 NAS
Nikkor AM 210mm f/5.6 with No. 1 Shutter	1:5.6	f/64	1326 NAS
Nikkor M 200mm f/8 with No. 0 Shutter	1:8	f/64	1322 NAS
Nikkor M 300mm f/9 with No. 1 Shutter	1:9	f/128	1321 NAS
Nikkor M 450mm f/9 with No. 3 Shutter	1:9	f/128	1323 NAS
Nikkor ED 270mm f/6.3 with No. 1 Shutter	1:6.3	f/64	1352 NAS
Nikkor ED 360mm f/8 with No. 1 Shutter	1:8	f/64	1353 NAS
Nikkor ED 500mm f/11 with No. 1 Shutter	1:11	f/64	1354 NAS
Nikkor ED 600mm f/9 with No. 3 Shutter	1:9	f/64	1355 NAS
Nikkor ED 720mm f/16 with No. 1 Shutter	1:16	f/64	1357 NAS
Nikkor ED 800mm f/12 with No. 3 Shutter	1:12	f/64	1356 NAS
Nikkor ED 1200mm f/18 with No. 3 Shutter	1:18	f/64	1364 NAS

## ACCESSORIES FOR NIKKOR LARGE FORMAT LENSES

Rear Lens Unit 360mm ED Nikkor-T	<b>1358 NAS</b>	Slip-on Lens Cap (repl)	<b>1337 NAS 31.5mm</b>
Rear Lens Unit 500mm ED Nikkor-T	<b>1359 NAS</b>	Slip-on Lens Cap (repl)	<b>1330 NAS 42mm</b>
Rear Lens Unit 600mm ED Nikkor-T	<b>1360 NAS</b>	Slip-on Lens Cap (rep)	<b>1331 NAS 54mm</b>
Rear Lens Unit 720mm ED Nikkor-T	<b>1362 NAS</b>	Slip-on Lens Cap (rep)	<b>1332 NAS 60mm</b>
Rear Lens Unit 800mm ED Nikkor-T	<b>1361 NAS</b>	Slip-on Lens Cap (repl)	<b>1333 NAS 70mm</b>
Rear Lens Unit 1200mm ED Nikkor-T	<b>1363 NAS</b>	Slip-on Lens Cap (repl)	<b>1334 NCP 80mm</b>
Screw-on Cap f/Rear Lens Unit (rep)	<b>1338 NAS 36mm</b>	Slip-on Lens Cap (repl)	<b>1335 NAS 85mm</b>
Screw-on Cap f/Rear Lens Unit (rep)	<b>1339 NAS 58mm</b>	Slip-on Lens Cap (rep)	<b>1336 NAS 100mm</b>

**Note:** The rear lens component is interchangeable between the ED 360mm f/8, ED 500mm f/11 and ED 720mm f/16, and between the ED 600mm f/9, ED 800mm f/12 and ED 1200mm f/18.

# EL-Nikkor Enlarging Lenses



## LET US MAKE THINGS CRYSTAL CLEAR

*Capturing your image on film is only part of the challenge. If your darkroom equipment doesn't perform, your efforts could be wasted. Only EL-Nikkor Enlarging Lenses offer Nikon's unmatched optical technology. Constructed of our own optical glass, EL-Nikkor lenses are corrected for chromatic aberration beyond the visible spectrum into near ultraviolet wavelengths — wavelengths to which photographic papers are particularly sensitive. Through the use of special optical glass and matching optical coatings, EL-Nikkor lenses are designed for ultraviolet transmission in the 350 to 450 range. This means EL-Nikkor enlarging lenses can be used for color separation in addition to all other enlarging applications. EL-Nikkor lenses are also front-threaded to accept screw-in accessories, and can be used for exceptional small-object photography when mounted on a bellows.*

### EL-NIKKOR ENLARGING LENSES

	Minimum f/stop	Standard Magnification	Usable Magnification Range	Covering Power	Format Size	Nikon Product Number
EL-Nikkor 40mm f/4	f/22	10x	5x-30x	52°	24x36mm	209 NCP
EL-Nikkor 50mm f/2.8	f/16	8x	2x-20x	41°	24x36mm	210 NCP
EL-Nikkor 63mm f/2.8	f/16	8x	2x-20x	43°	32x45mm	211 NCP
EL-Nikkor 75mm f/4	f/22	5x	2x-10x	48°	60x60mm	224 NCP
EL-Nikkor 80mm f/5.6	f/32	5x	2x-15x	53°	60x70mm	212 NCP
EL-Nikkor 105mm f/5.6	f/32	5x	2x-10x	51°	60x90mm	213 NCP
EL-Nikkor 135mm f/5.6	f/45	5x	2x-10x	53°	90x120mm	251 NAS
EL-Nikkor 150mm f/5.6	f/45	4x	2x-8x	51°	100x130mm	252 NAS
EL-Nikkor 180mm f/5.6	f/45	4x	2x-8x	54°	130x180mm	253 NAS
EL-Nikkor 210mm f/5.6	f/45	4x	2x-8x	54°	130x210mm	254 NAS
EL-Nikkor 240mm f/5.6	f/45	4x	1x-8x	57°	180x240mm	255 NAS
EL-Nikkor 300mm f/5.6	f/45	2x	1x-8x	57°	270x330mm	256 NAS
EL-Nikkor 360mm f/5.6	f/45	2x	1x-4x	50°	300x400mm	95104 NAS

### ACCESSORIES FOR EL-NIKKOR ENLARGING LENSES

	Nikon Product Number
34.5mm Snap-on Lens Cap f/EL-Nikkor (repl)	574 NCP
40.5mm Snap-on Lens Cap f/EL-Nikkor	577 NCP
43mm Snap-on Lens Cap f/EL-Nikkor (repl)	576 NCP
Plastic Case f/50mm EL-Nikkor (repl)	461 NCP
Lens Mounting Adapter f/50mm EL-Nikkor	2655 NCP
Reverse Mounting Ring f/50,63mm N EL-Nikkor	2641 NCP
Reverse Mounting Ring f/50, 75, 80mm EL-Nikkor	2640 NCP
Extension Mounting Tube f/EL-Nikkor (15mm)	2642 NCP
Reverse Mounting Ring f/135, 150mm EL-Nikkor	2654 NAS
39mm Lens Mounting Flange	96925 NCP



# Filters

## FROM COLOR BALANCE TO SPECIAL EFFECTS, NIKON FILTERS HELP YOU MAKE BETTER PICTURES

### FILTERS FOR COLOR FILM

#### AMBER FILTERS A2, A12

Amber filters control the bluish coloration that affects daylight film. The mild A2 warms scenes shot on cloudy days. The deeper-colored A12 is used with tungsten film for outdoor shooting in fair weather. Add mood to your photographs by warming your pictures with either filter.



#### BLUE B2, B8, B12

Blue filters remove reds and have a cooling effect. The mild B2 banishes reds from sunrise or sunset shots. The B12 neutralizes the red cast produced by photofloods in indoor shooting with daylight film. Use a B8 or B12 blue filter and underexpose to create eerie night scenes.



### FILTERS FOR COLOR AND BLACK-AND-WHITE PHOTOGRAPHY

#### ULTRAVIOLET (UV) L37C SKYLIGHT L1BC

UV filters cut haze for sharper black-and-white prints, and correct the blues and violets in color prints. The integrated coated L37C reduces reflection and is designed to be used with integrated coated lenses to protect and reduce excess UV. The integrated coated L1BC also cuts haze, protects the lens and can reduce the blue cast of shade pictures.



#### SOFT FOCUS NO.1, NO.2

These filters soften images. No.1 lends a romantic aura to portraits. The stronger No.2 produces a fog-like effect in landscapes and also highlights small subjects against a field of dark space. Both can be used together for stronger effects.

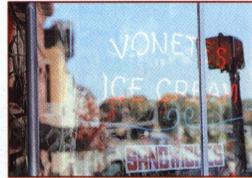


#### NEUTRAL DENSITY ND2S, ND4S, ND8S, ND400

These filters allow you to use larger apertures without changing shutter speed or use slower shutter speeds in bright conditions for creative motion effects. Neutral density filters do not change color balance.

#### CIRCULAR POLARIZING FILTERS

The only filters that darken the sky in color photography without affecting color balance, polarizing filters cut out the glare from water and metallic surfaces, and allow shooting



through glass windows. Nikon circular polarizing filters are designed for use with autofocus SLRs. Their mounts can be rotated for different angles which you can monitor through the viewfinder. (Note: use of circular polarizing filters requires a filter hood — see "Filter Accessories" listing that follows.)

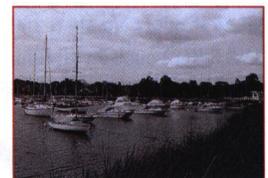
#### CONVERSION FILTERS A12, B2, B8, B12

Color conversion filters can be used to match film color balances. For example, Color Conversion Filter A12 can be used to shift the color balance of tungsten film to daylight. Blue Color Conversion Filters B2, B8 and B12 counteract existing light that is too warm. B12 matches artificial light to that of normal daylight film.

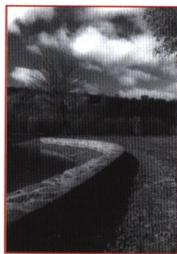
### FILTERS FOR BLACK-AND-WHITE FILM

#### YELLOW Y44, Y48, Y52

Yellow filters absorb both blue and ultraviolet light so skies appear darker. They work well in landscape or telephoto



photography because they clear up the haze around distant objects. Y44 is a mild filter. Y48 is medium. Y52 produces the strongest effect.



**ORANGE 056**

Stronger than yellow filters, the 056 tones down blue, ultraviolet and green. It heightens contrast between sky and objects and darkens foliage.

**RED R60**

Ultra high contrast. All colors except red are filtered out so blue skies appear almost black and clouds stand out. Green leaves appear dark, providing a strong contrast against lighter-hued flowers.

The R60 can be used to create special effects with b&w infrared film.



**GREEN X0, X1**

Green filters absorb red and blue, letting green and yellow through. The X0 renders effects similar to colors perceived by the eye, making it ideal for general-purpose use. The X1 balances the reddish

cast of floodlights and gives skin a more natural tone — great for portraits.



**FILTER ACCESSORIES**

**FILTER ADAPTER RING UR-1**

Enables a filter with an attachment size of 72mm to be used with any Nikkor lens with an attachment size of 62mm.

**Nikon Product Number: 2377 NCP**



**FILTER POUCH CASES**

**(EACH CASE HOLDS UP TO SIX FILTERS)**

CA-1 Filter Pouch for all 52mm Filters

**Nikon Product Number: 2307 NCP**

CA-2 Filter Pouch for all 39mm Filters

**Nikon Product Number: 2305 NAS**



**INDIVIDUAL FILTER CASES**

CP-3 Filter case for all 52mm Filters **Nikon Product Number: 2291 NCP**

CP-6 Filter case for all 62mm Filters **Nikon Product Number: 2378 NCP**

CP-5 Filter case for all 72mm Filters **Nikon Product Number: 2292 NCP**

**HOODS FOR CIRCULAR POLARIZING FILTERS**

HN-12 Hood for 52mm Circular Polarizing Filter

**Nikon Product Number: 518 NAS**

HN-26 Hood for 62mm Circular Polarizing Filter

**Nikon Product Number: 568 NCP**

HN-13 Hood for 72mm Circular Polarizing Filter

**Nikon Product Number: 539 NCP**

HN-29 Hood for 77mm Circular Polarizing Filter

**Nikon Product Number: 4613 NAS**

**FITTED FILTER CASES**

95mm Fitted case for all 95mm filters

**Nikon Product Number: 2298 NAS**

122mm Fitted case for all 122mm filters

**Nikon Product Number: 2299 NAS**

**GELATIN FILTER HOLDERS/MISC. FILTERS**

Nikon gelatin filter holders enable you to use standard 3-inch gelatin filters with a variety of Nikkor lenses. Choose proper holder from the following listing.



**Filter Holder/Filter**

52mm Filter Holder for AF-I Nikkor

AF-1 52mm Gelatin Filter Holder

AF-2 72mm Gelatin Filter Holder (with hood)

Filter Holder for AF-I (repl)

Gelatin Filter Holder AF-I Nikkor

Gelatin Filter Holder for AF-I (repl)

Slip-in Gel Holder for ED-IF Lens (repl)

Slip-in Gel Holder for 400m/2.8 ED-IF Lens (repl)

Gelatin Filter Holder for 200mm/2

Slip-in 39mm Holder for ED-IF Lens (repl)

Slip-in 52mm Holder for 400mm/2.8 ED-IF (repl)

UR-2 Filter Adapter for 105mm/4.5 UV-Nikkor (repl)

Square (UV) Filter for 105mm/4.5 UV Nikkor (repl)

**Nikon Product Number**

2471 NAS

2278 NAS

2279 NAS

2469 NAS

2472 NAS

2470 NAS

2443 NAS

2460 NAS

2461 NAS

2220 NAS

2459 NAS

2398 NAS

2397 NAS

**NIKON SCHOOL PHOTO TIP:**

**A POLARIZING FILTER USED TO BLOCK REFLECTIONS FROM A SHINY SURFACE LIKE GLASS OR WATER IS MOST EFFICIENT AT AN ANGLE OF ABOUT 35° TO THE REFLECTING SURFACE. DIRECTLY IN FRONT OF THE SURFACE, THE FILTER HAS LITTLE OR NO EFFECT.**



# Focusing Screens And Viewfinder Accessories

## FOCUSING SCREENS AND PRODUCT NUMBERS

**Type A** Matte/Fresnel field with 12mm center reference circle and split-image rangefinder.

2596 NAS (F5)  
2552 NAS (F3HP/F3T)

**Type B** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets.

For general photography.  
2598 NAS (F5)  
2510 NAS (F4S)  
2553 NAS (F3HP/F3T)  
2584 NAS (N90s, N90)  
2582 NAS (N8008S)  
2421 NCP (FM2)

**Type C** Fine-ground matte field with 5mm-diameter clear spot and cross-hair. For photomicrography, astrophotography, and other high magnification applications using parallax focusing on aerial images.

2589 NAS (F5)  
2511 NAS (F4S)  
2554 NAS (F3HP/F3T)

**Type D** Fine matte focusing screen with clear center circle, crosshairs in 4mm center circle for high magnification.

2555 NAS (F3HP/F3T)

**Type E** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets, and etched horizontal and vertical lines. Ideal for architectural photography.

2586 NAS (F5)  
2512 NAS (F4S)  
2556 NAS (F3HP/F3T)  
2583 NAS (N90s, N90)  
2581 NAS (N8008S)  
2422 NCP (FM2)

**Type F** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets. Suitable with reflex lenses.

2597 NAS (F5)  
2513 NAS (F4S)

**Type G** Clear Fresnel field with extra-bright 12mm-diameter micropism focusing spot for use in poor light. Four models correspond to lenses with different focal lengths.

**Type G1 (fisheye)** 2514 (F4S)  
2591 NAS (F5)  
2557 NAS (F3HP/F3T)  
**Type G2 (wideangle)** 2515 (F4S)  
2592 NAS (F5)  
2558 NAS (F3HP/F3T)  
**Type G3 (50mm f/1.2, 300mm f/2.8)**  
2593 NAS (F5)  
2516 (F4S) 2559 NAS (F3HP/F3T)  
**Type G4 (300mm f/2.8)** 2517 (F4S)  
2594 NAS (F5)  
2560 NAS (F3HP/F3T)

**Type H** Clear Fresnel focusing screen with micropisms over the entire field. Recommended for photography in poor lighting conditions. Available in 4 models for various lens maximum apertures.

**Type H1** 2561 NAS (F3HP/F3T)  
**Type H2** 2562 NAS (F3HP/F3T)  
**Type H3** 2563 NAS (F3HP/F3T)  
**Type H4** 2564 NAS (F3HP/F3T)

**Type J** Matte/Fresnel field with central 5mm diameter micropism focusing spot and 12mm diameter circle. For general photography.

2595 NAS (F5)  
2518 (F4S)  
2565 NAS (F3HP/F3T)

**Type K** Matte/Fresnel field with 3mm-diameter. BriteView split-image rangefinder spot surrounded by 1mm wide micropism doughnut. Rapid, accurate focusing for subjects with both straight and ill-defined contours. For general photography.

2519 (F4S)  
2551 NAS (F3HP/F3T)  
2420 NCP (FM2)

**Type L** Corresponds to Type A, but with diagonal 45° split-image rangefinder. Facilitates focusing on horizontal lines.

2587 NAS (F5)  
2566 NAS (F3HP/F3T)

**Type M** Fine ground Fresnel field with 5mm-diameter clear spot and cross-hair for use in parallax focusing on aerial images, plus millimeter scales for calculation of individual magnification of objects or for measuring objects. Brilliant image in dim light. Suitable for close-ups, photomicrography, and other high-magnification applications.

2590 NAS (F5)  
2520 (F4S)  
2567 NAS (F3HP/F3T)

**Type P** Same as Type K but with BriteView split-image rangefinder line at a 45° angle and etched horizontal and vertical lines as an aid to composition. Rapid, accurate focusing for subjects with horizontal or vertical lines or ill-defined contours. For general photography.

2521 NAS (F4S)  
2568 NAS (F3HP/F3T)

**Type R** Focusing screen with matte Fresnel field and split-image rangefinder which does not darken when slow lenses are used. Incorporates vertical and horizontal grid lines. Excellent for architectural photography.

2569 NAS (F3HP/F3T)

**Type S** Similar to Type K except provides area on the left side of the frame for date imprinting when used with Nikon 250 exposure data back.

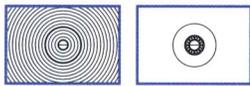
2572 NAS (F3HP/F3T)

**Type T** Focusing screen with matte Fresnel field and TV screen frame lines.

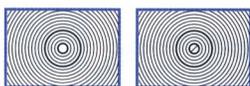
2570 NAS (F3HP/F3T)

**Type U** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets. Suitable with telephoto lenses longer than 200mm.

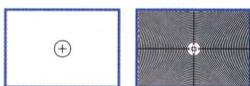
2588 NAS (F5)  
2522 NAS (F4S)  
2571 NAS (F3HP/F3T)



Type A Type K



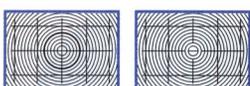
Type B Type L



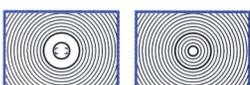
Type C Type M



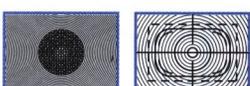
Type D Type P



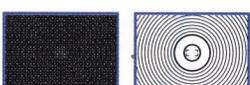
Type E Type R



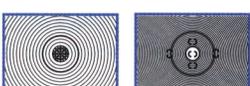
Type F Type S



Type G Type T



Type H Type U



Type J Type EC\*

**EYEPIECE ADAPTER DK-7 FOR F5, F4s, N90s, N90, N8008S, F3HP (WITH DE-3 HIGH-EYEPOINT FINDER), F3T**

Required for attaching all standard size eyepiece accessories to the larger size thread mounts of high-eyepoint cameras.

Nikon Product Number: 2394 NAS

**EYEPIECE ADAPTER**

**FOR N70, N6006/N6000, N50, N5005, N2000**

For attaching all eyepiece accessories to above cameras.

Nikon Product Number: 2370 NCP

**RUBBER EYECUPS**

Provides comfort/keeps stray light from entering viewfinder.

**Eyecup**

**Nikon Product Number**

**DK-2 for F5, F4s, F3HP/F3T** 2406 NAS

**DK-3 for FM2, FE2, FA** 2362 NCP

**DK-6 for N90, N8008S** 2393 NAS

**DK-9 for N70** 2969 NCP

**For N70/N6006/N6000/N50/N5005** 2939 NCP



**RIGHT ANGLE FINDER DR-3**

Provides 100% viewfinder coverage from a convenient 90° angle. Facilitates low-level viewing. Diopter

adjusts from -5 to +3. Requires Mounting

Adapter DK-7 for F5/N90/F3HP/F4/F3T/N8008s.

No Adapter is required for use with F3 and FM2.

Adapter 2370 NCP for N70/N6006/N6000/N50/N5005/N4004/N2000.

**Nikon Product Number:**

**2326 NCP**



**EYEPIECE MAGNIFIER DG-2**

Offers 2x magnification of the central portion of the finder image. Diopter adjusts from -5 to +1. Requires Mounting

Adapter. DK-7 for F5/N90/N8008s/F4/F3HP/F3T. Adapter

2370 NCP for N70/N6006/N6000/N50/N5005/N4004/N2000.

**Nikon Product Number:**

**2355 NCP**



**EYEPIECE CORRECTION LENSES**

These lenses help those with eyesight deficiencies see more clearly. Diopters range from -5 to +3. Visit your Nikon dealer to select what's best for you.

Lens	F5, F4S, F3HP/F3		F3 (w/DE-2) F3AF, F2		N6006/6000	N90s/N90/N8008S	N70/N50/N5005/N4004	FM2/FE2/FA
	F5, F4S, F3HP/F3	F3 (w/DE-2) F3AF, F2	N6006/6000	N90s/N90/N8008S				
Neutral *0"	2950 NAS	2914 NAS	2940 NCP	2960 NAS	2940 NCP	2930 NCP		
+0.5		2922 NAS	2941 NCP	2961 NAS	2941 NCP	2931 NCP		
+1.0	2951 NAS	2919 NAS	2942 NCP	2962 NAS	2942 NCP	2932 NCP		
+2.0	2952 NAS	2920 NAS	2943 NCP	2963 NAS	2943 NCP	2933 NCP		
+3.0		2921 NAS	2944 NCP	2964 NAS	2944 NCP	2934 NCP		
-2.0	2953 NAS	2915 NAS	2945 NCP	2965 NAS	2945 NCP	2935 NCP		
-3.0	2954 NAS	2916 NAS	2946 NCP	2966 NAS	2946 NCP	2936 NCP		
-4.0		2917 NAS	2947 NCP	2967 NAS	2947 NCP	2937 NCP		
-5.0		2918 NAS	2948 NCP	2968 NAS	2948 NCP	2938 NCP		

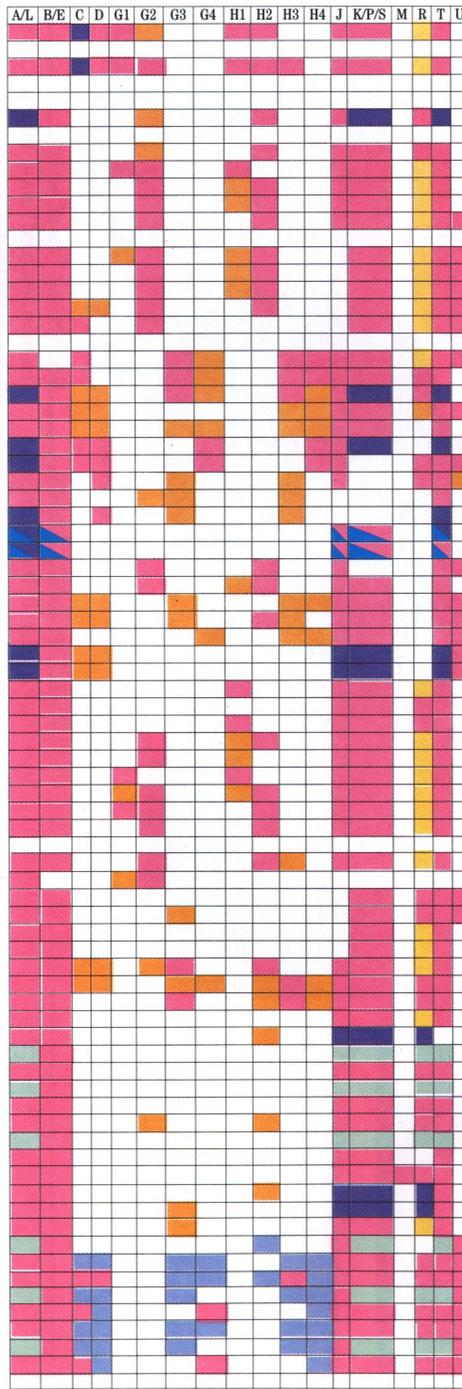
\*EC-B - 2585 NAS (See F5 section for further details.)

- Excellent
- Possible: The image is bright over the entire focusing screen but microprism center or center of the cross hairs is dark.
- Possible: Slight vignetting is visible on the focusing screen; however, this has no effect on image quality.
- Possible: For lenses with an aperture of 2.8 and larger; focus in the center of the screen does not correspond to that on the film; focusing must be performed outside the 12mm center reference circle.
- Exposure via stop down method
- Acceptable Focusing: Split image rangefinder, microprism or cross hair is dim; focus on surrounding matte area.
- Acceptable Focusing: Slight vignetting or moire phenomenon effects the screen image but not film image.
- Exposure measurement not possible; focusing only.

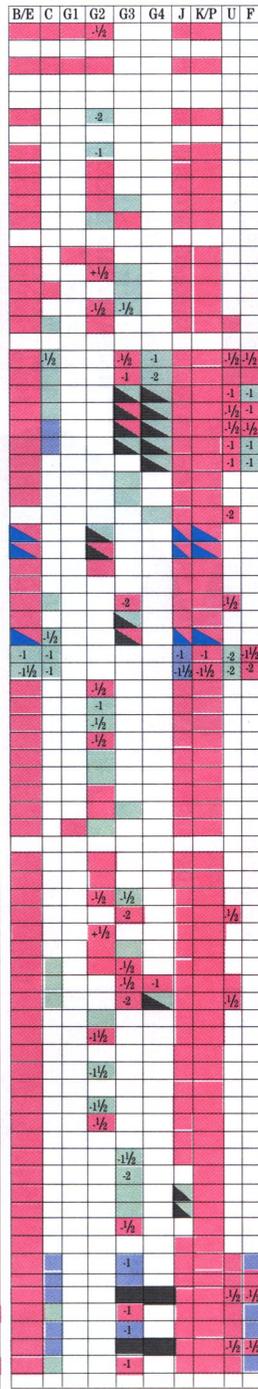
-1/2, -1, -1 1/2, +1/2. Compensation with DP-20 in Center Weighted metering. To adjust, see details provided with the camera's instruction manual.

Lens Type	Focal Length	A/L	B/E	C	D	G1	G2	G3	G4	H1	H2	H3	H4	J	K/P/S	M	R	T	U
Fisheye Nikkor	6mm f/2.8																		
	6mm f/5.6																		
	8mm f/2.8																		
	8mm f/3.5																		
Wide Angle Nikkor	13mm f/2.8																		
	13mm f/5.6																		
	15mm f/2																		
	15mm f/3.5																		
	24mm f/2																		
Normal Nikkor	50mm f/1.2																		
	50mm f/1.4																		
Telephoto Nikkor	85mm f/1.4																		
	105mm f/1.8																		
	105mm f/2.5																		
	135mm f/2.8																		
	200mm f/2 ED-IF																		
	300mm f/2.8 ED-IF																		
	400mm f/2.8 ED-IF																		
	400mm f/3.5 ED-IF																		
	400mm f/5.6 ED-IF																		
	500mm f/4P ED-IF																		
Zoom Nikkor	600mm f/4P ED-IF																		
	600mm f/5.6 ED-IF																		
	800mm f/5.6 ED-IF																		
	35-200mm f/3.5-4.5																		
PC Nikkor	50-300mm f/4.5 ED																		
	180-600mm f/8 ED																		
Noct Nikkor	28mm f/3.5																		
	35mm f/2.8																		
Micro Nikkor	58mm f/1.2																		
	55mm f/2.8 Micro																		
Medical Nikkor	200mm f/4 IF Micro																		
	120mm f/4 IF																		
UV Nikkor	105mm f/4.5 UV																		
	500mm f/8																		
Reflex Nikkor	1000mm f/11																		
	16mm f/2.8D Fisheye																		
AF Nikkor	18mm f/2.8D																		
	20mm f/2.8D																		
	24mm f/2.8D																		
	28mm f/1.4D																		
	28mm f/2.8D																		
	35mm f/2D																		
	50mm f/1.4D																		
	50mm f/1.8																		
	85mm f/1.4D																		
	85mm f/1.8D																		
	60mm f/2.8D Micro																		
	105mm f/2.8D Micro																		
	200mm f/4D Micro																		
	105mm f/2D DC																		
	135mm f/2D DC																		
	180mm f/2.8 ED-IF																		
	300mm f/2.8D ED-IF																		
	300mm f/4 ED-IF																		
	20-35mm f/2.8D																		
	24-50mm f/3.3-4.5D																		
	24-120mm f/3.5-5.6D																		
	28-70mm f/3.5-4.5D																		
	28-80mm f/3.5-5.6D																		
	28-85mm f/3.5-4.5																		
	35-70mm f/2.8D																		
	35-80mm f/4.5-5.6D																		
	35-105mm f/3.5-4.5D																		
	35-135mm f/3.5-4.5																		
	70-210mm f/4-5.6D																		
	75-300mm f/4.5-5.6																		
80-200mm f/2.8D ED-IF																			
80-200mm f/4.5-5.6D																			
300mm f/2.8D ED-IF																			
AF-I Nikkor	400mm f/2.8D ED-IF																		
	500mm f/4D ED-IF																		
	600mm f/4D ED-IF																		
AF-S Nikkor	300mm f/2.8D ED-IF																		
	500mm f/4D ED-IF																		
AI-P Nikkor	600mm f/4D ED-IF																		
	500mm f/4P ED-IF																		

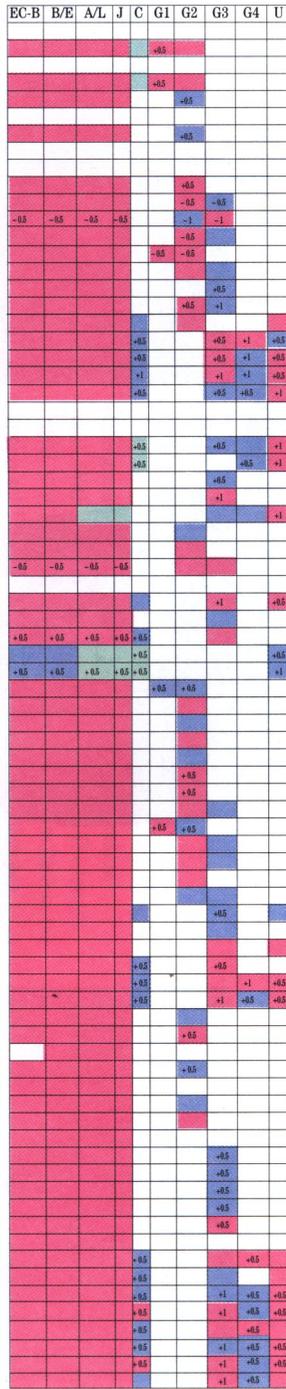
### F3HP



### F4s



### F5



# Speedlights

SEE FLASH IN A  
WHOLE NEW LIGHT

*Get ready for a new experience in flash*

*photography. Nikon has perfected tech-*

*niques that combine ambient light with*

*light from the flash. You'll use*

*flash in all-new ways to create*

*photographs you might never*

*have achieved before.*



## NIKON MATRIX BALANCED FILL-FLASH

Based upon the computerized analysis of brightness and contrast, Matrix Metering determines the proper ambient light exposure. Flash illumination of the subject is then controlled by the camera's TTL circuitry, resulting in a pleasing and natural balance with the ambient light. Matrix Balanced Fill-Flash is available with the Nikon F5, F4s, N6006, N6000 and N50.

## NIKON SB-26 SPEEDLIGHT

The SB-26 offers advanced features like Monitor Pre-flash, Red-Eye Reduction, Repeating Flash for stroboscopic effects and FP High Speed Sync. Flash coverage automatically adjusts from 24 to 85mm. Built-in wideangle adapter extends coverage to an 18mm lens. Manual control with power ratio to 1/64 power is ideal for multiple flash or macro applications. Flash can be adjusted from +1 EV to -3 EV for fine fill flash control.

## WIRELESS FLASH OPERATION

Wireless slave flash using the non-TTL A Mode or Manual Mode with power ratio control, operates with all Nikon cameras. The SB-26 has a unique Delay Mode that enables the primary flash to operate

with accurate TTL control (available with all Nikon AF SLRs), unaffected by the remote SB-26. Use any number of SB-26 Speedlights for new and different flash effects you never thought possible.

## NIKON 3D MULTI-SENSOR BALANCED FILL-FLASH

This most advanced form of Automatic Balanced Fill-Flash is made possible by the combination of the Nikon F5, a D-type AF Nikkor lens and the SB-26 or SB-27.\* Just after the mirror goes up but before the shutter moves, the SB-26/27 fires a series of imperceptible Monitor Pre-flashes that is detected by the N90's 5-segment TTL Multi Sensor. Distance information from the D-type lens is integrated with exposure control information, automatically controlling flash output level. It is even effective when shooting scenes with: a mirror, white wall or other extremely reflective surface; obstacles in front of the subject on which you wish to avoid sunlight; and subjects against an "infinite" background (sky, clouds, etc). When the F5 and SB-26/27 are used with a non-D-type AF or AI-P Nikkor lens (non-3D), Multi-Sensor

*\*3D Multi-Sensor Balanced Fill Flash can also be obtained with N90s and N70 cameras.*



Balanced Fill-Flash is performed. This offers the same flash output control system but operates without distance information from the lens. Multi-Sensor Balanced Fill-Flash, minus Monitor Pre-flash, is also performed with the SB-24/23/22/16B Speedlights — an operation superior to single-sensor systems.



#### SLOW SYNC

When flash pictures are taken in dim light, the background may come out dark. With the Nikon F5, N90s, N70, N6006 or N6000, simply setting Slow Sync Mode extends the automatically controlled shutter

speed range, enabling darker backgrounds to be well exposed so that details will stand out, without the need to set aperture and shutter speed manually.

#### AF-ASSIST ILLUMINATOR LED

Nikon AF Speedlights incorporate an autofocus assist illuminator which gives contrast to a dark subject. This makes it possible to take sharp autofocus pictures even in total darkness.



#### REAR CURTAIN SYNC

Now you can fire the flash at the end of the exposure, instead of at the beginning (especially effective at slow shutter speeds). This results in the available light turning into a stream of light following the flash-illuminat-



ed subject. This technique is possible with the following combinations: F5, F4 series, N70, N90s and N90 cameras with the SB-24, SB-25 or SB-26. N6006 and N6000 cameras with SB-26, SB-25, SB-24, SB-23, SB-22, SB-21B, SB-16B, SB-14 and SB-11 (with SC-23 Cord).

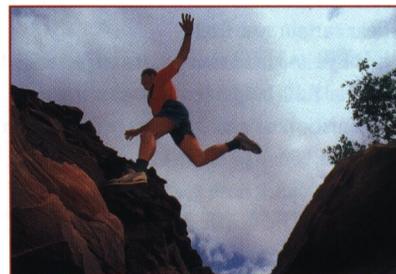
#### REPEATING FLASH

This feature provides a strobe-effect which fires the flash continuously at selected rates. The length of time between flashes, the number of flashes per second and the flash output power can be chosen. Available with SB-26.



#### FP HIGH-SPEED SYNC

Using manual flash operation with the F5 or N90s, the SB-26's flash output continues from the start of the shutter curtain opening until it is fully closed. This allows flash



synchronization with fast shutter speeds from 1/250 to 1/4000 sec. You can capture fill-flash pictures even with film that has a high ISO rating, and still maintain wide-aperture settings for expanded control of depth of field.

#### RED-EYE REDUCTION

The SB-26, used with the N90s in its Red-Eye Reduction mode, fires three pre-flashes to make the pupils of the eyes contract, thus reducing the effect of red-eye when the fourth and final flash fires.

## SB-26

### FOR THE ULTIMATE IN NIKON FLASH PHOTOGRAPHY

- Wireless capability in multiple flash situations, when used as a secondary flash. Any number of SB-26 Speedlights can be used together for complete wireless control.
- Unique delay mode enables TTL control of main flash, unaffected by the light of SB-26
- 3D multi-sensor balanced fill-flash with monitor pre-flashes with F5, N90s, N70 and D-type AF Nikkor lenses
- Multi-sensor balanced fill-flash with F5, N90s, N70 and non-D-type AF Nikkor lenses
- Matrix balanced fill-flash with F4-series, N6006, N6000 or N50 and AF and AI-P Nikkor lenses
- Slow sync flash with F5, F4-series N90s, N6006, N6000 or N50
- Rear curtain sync with F5, F4-series, N90s, N70, N6006 or N6000
- Red-Eye Reduction with N90s and N70
- FP high speed flash sync with F5 and N90s up to 1/4000 sec.
- AF-Assist Illuminator LED, for sharp pictures even in total darkness
- Repeating flash
- Manual flash output level compensation

- Automatic power zoom coverage from 24mm to 85mm with Nikon AF SLR camera body and AF-Nikkor lenses
- Built-in wide flash adapter to cover 18mm
- Built-in bounce card
- Tilting/rotating flash head
- LCD panel
- Includes Nikon Soft Case SS-24, 64
- Guide number (ISO 100 in feet) 118 with zoom head set at 85mm
- Recycling time approximately up to 7 seconds

**Nikon Product Number: 4707 NAS**



#### ACCESSORIES

##### Accessory

- Soft Case SS-24 (repl)
- C-Cell Battery Pack SD-7 (comes with SC-16 Power Cord)
- High Performance AA Battery Pack SD-8

##### Nikon Product Number

- 4609 NAS
- 4520 NCP
- 4720 NCP

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**SB-27****ADVANCED FUNCTIONS WITH COMPACT DESIGN**

Nikon's new SB-27 AF Speedlight, the latest in Nikon's growing system of AF Speedlights, is perfect for advanced amateurs and professional photographers who enjoy the advanced features of their camera's built-in Speedlight, but are ready for more power and control. Featuring a unique built-in bounce flash adapter, the compact SB-27 will operate with a wide variety of Nikon SLR cameras, including the N50, N6006, N70, N90s and F5.

- Automatic TTL controlled fill-flash operation
- 3D multi-sensor balanced fill-flash with F5, N90s, N70 and D-type AF Nikkor lenses
- Matrix balanced fill-flash with F4, N6006 and N50 with an AF Nikkor lens
- Rear curtain sync flash
- Red-Eye Reduction lamp turns on just prior to shutter release
- Manual flash output level compensation
- Automatic power zoom coverage from 24mm to 50mm in horizontal position; 35mm to 70mm in vertical position
- Built-in bounce flash adapter
- Flash head rotates through 180° arc
- LCD panel reveals operating status
- Recycling time approximately up to 5 seconds
- Standard ISO hotshoe with locking pin
- Includes Nikon Soft Case SS-27
- Guide number (ISO 100 feet) 112 with zoom set in 50mm position



**Nikon Product Number: 4708 NCP**

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**ACCESSORIES**

**Accessory**  
Soft Case SS-27

**Nikon Product Number**  
**364 NCP**

**NIKON SCHOOL PHOTO TIP:**

**USE BOUNCE FLASH TO SOFTEN THE EFFECT OF ARTIFICIAL LIGHT. IN A BOUNCE FLASH EXPOSURE, THE FLASH IS NOT POINTED DIRECTLY AT THE SUBJECT. INSTEAD, IT IS POINTED AT ANOTHER SURFACE SUCH AS A CEILING OR REFLECTOR, WHICH THEN "BOUNCES" THE LIGHT ONTO THE SUBJECT.**

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**SB-23****BRIGHT, COMPACT TTL SPEEDLIGHT**

- Multi-sensor balanced fill-flash with F5, N90s and N70, and AF or AI-P Nikkor lenses
- Matrix balanced fill-flash with F5, F4 series, N70, N6006, N6000 or N50 and AF or AI-P Nikkor lenses
- AF-assist illuminator
- Aperture/distance range chart attached to flash for easy reference
- Includes Nikon Soft Case SS-23
- Guide number (ISO 100 in feet) 66
- Recycling time approximately 2 seconds

**Nikon Product Number: 4704 NCP**



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**ACCESSORIES**

**Accessory**  
Soft Case SS-23 (repl)

**Nikon Product Number**  
**4607 NCP**

**SB-16A/SB-16B**

**COMPATIBLE WITH ALL NIKON SLR'S**

- Multi-sensor balanced fill flash with F5, N90s, N70 or AF and AI-P Nikkor lenses
- Matrix-balanced fill-flash with F4-series, N6006, N6000 or N50 and AF and AI-P Nikkor lenses
- Selectable main flash coverage angles (28mm, 35mm, 50mm, 85mm)
- Tilting, rotating main flash head from -7° to 90° for bounce flash shooting
- Secondary flash fills shadow
- SB-16A for F3 series cameras includes AS-8 Flash Unit Coupler
- SB-16B for Nikon cameras with standard ISO hot shoe includes AS-9 Flash Unit Coupler
- Both models include Nikon Wide Flash

- Adapter SW-7, Soft Case SS-16, Battery Holder MS-5
- Guide number (ISO 100 in feet) 138 with zoom head set at N (85mm)
  - Recycling time at full manual output approximately 11 seconds, more flashes and shutter recycle times are possible in TTL mode

**ACCESSORIES**

Accessory	Nikon Product Number
Soft Case SS-16 (repl)	4551 NCP
Wide Angle Flash Adapter SW-7 (repl)	4550 NCP
AA Battery Holder MS-5 (repl)	4552 NCP
SB-16A Coupler to F3 (repl) AS-8	4544 NAS
SB-16B Coupler to ISO shoe (repl) AS-9	4545 NCP



Nikon Product Number SB-16A: 4542 NAS  
Nikon Product Number SB-16B: 4543 NCP

**SB-11**

**HIGH-PERFORMANCE, HIGH-POWER SPEEDLIGHT**

- Multi-sensor balanced fill flash with F5, N90s and N70 and AF and AI-P Nikkor lenses (with SC-23 cord)
- Matrix-balanced fill-flash with F4-series, N6006, N6000 or N50 and AF and AI-P Nikkor lenses (with SC-23 cord)
- Tilting 90° flash head with angle of coverage 70° horizontal and 53° vertical (with wide flash adapter SW-3)
- Includes Nikon Wide Flash Adapter SW-3, Sync Cord SC-11, Bracket SK-4, Sync Cord SC-11, Sensor Unit SU-2
- Guide number (ISO 100 in feet) 118; 82 with wide flash adapter SW-3
- Recycling time approximately 8 seconds

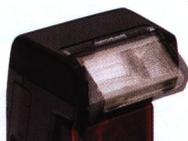
Nikon Product Number: 311 NCP

**ACCESSORIES**

Accessory	Nikon Product Number
Wide Angle Flash Adapter SW-3 (repl)	3057 NCP
Sensor Unit SU-2 (repl)	3055 NCP
Mounting Bracket SK-4 (repl)	369 NCP
Flash Sync Cord SC-11 for SB-11 (repl)	3056 NCP
C-Cell Battery Pack SD-7 (comes with SC-16 Power Cord)	4520 NCP
High Performance Battery Pack SD-8	4720 NCP
AA Battery Holder (repl)	3064 NCP



NIKON WIDE FLASH ADAPTER



TILTING MAIN FLASH HEAD



## THE WAVE OF THE FUTURE

*This spectacular Joe McNally photograph of a group of bodybuilders on a Miami beach was accomplished entirely with an array of Nikon Speedlights. What makes this shot possible is the exclusive wireless remote capability of the lightweight and portable SB-26 AF Speedlight. In a display of showmanship, the bodybuilders literally lit themselves with numerous hand-held SB-26 Speedlights. The result? A stunning flash photograph, otherwise unachievable with conventional flash units, due to physical restrictions and required connecting cords. Joe McNally tells us in his own words the exact details surrounding this remarkable shot.*

### TAKING EXHIBITION ONE STEP FURTHER

“The bodybuilding situation was a fun picture to do. Basically, we tried to come up with a unique image to show the versatility of the SB-26 and the fact that it has a built-in trigger eye. I had already done a New York street scene where we had used an extraordinary number of units. So where do you go from there? I just thought that bodybuilding is a sport that is about yourself. It’s about exhibiting your body. It’s about displaying your humanity, your vanity. And what better way to show these things than to have the bodybuilders lighting themselves? It takes the display mentality one step further. Instead of being on stage, they’re actually lighting themselves or lighting a piece of their bodies that they are really proud of.”

### THE PERFECT SOLUTION

“You obviously couldn’t give a giant set of strobes in the water to a bunch of bodybuilders. So the SB-26 was the perfect solution: they’re small, you can hold them in your hand and they have very sensitive trigger eyes. They also have a built-in millisecond delay, so I can be TTL with my main strobe on the camera and that will trigger all of those other lights. And most importantly, because the SB-26 has a built-in delay mode, their flash will be delayed by milliseconds and not interfere with my basic TTL exposure.”

### PURE HAPPENSTANCE

“This was shot right before sunset in Miami, Florida. What ended up happening was the strobe that was being held by the heavy-duty body builder to the left really lit up the female bodybuilder’s hair beautifully. It was pure happenstance. We thought that it was nice serendipity and let it stay that way.”

### RACING AGAINST TIME

“I used an F5 on a tripod for this shot with the exposure at f/5.6. I varied shutter speeds from 125th to about a 30th, since we were desperate just to get the shot off before the sun went down. But most of it was just trying to key it into a baseline of exposure that we thought would be acceptable.”

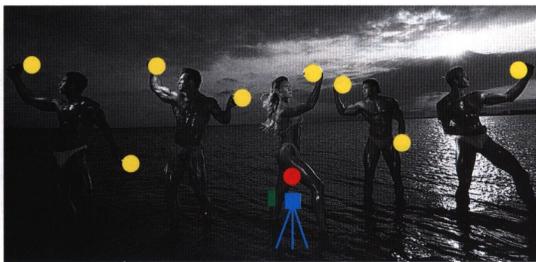


### A GODSEND OF A SPEEDLIGHT

“The SB-26 is incredibly versatile. It’s a godsend in terms of its sensitivity and the way it liaisons with the camera. It makes fill flash simple. The bonus, of course, is that you have this little slave-eye built into the unit, which means that you can stash these Speedlights in extraordinarily small spaces. You can use them as kicker lights in places that you would ordinarily have a very hard time running cords to lights that need electricity. It introduces a whole range of things that are now feasible, that never were before.”



- Nikon SB-26 AF Speedlight (wireless)
- Nikon SB-26 AF Speedlight (on camera)
- Nikon F5 on tripod
- High Performance AA Battery Pack SD-8



## SB-140 UV-IR

FOR ULTRAVIOLET, VISIBLE AND INFRARED PHOTOGRAPHY

Automatic TTL flash output control with Nikon F3-series via SC-12 cord, and Nikon F5/F4/N90s/N70/N6006/N6000/N50, via SC-23 cord. TTL flash output control only for visible light. Non-TTL automatic exposure control with any Nikon SLR cameras via SU-3 Sensor Unit for visible light

- Three-step automatic exposure control via SU-3 Sensor Unit. Aperture settings (ISO 100, visible light) of f/4 at 2-26', f/5.6 at 2-18' and f/8 at 2-131'
- SW-5 V Filter, 400-1100nm (for visible light). SW-5UV Filter, 300-400nm and above 650nm (for UV light). SW-5IR Filter, 750-1100nm (for IR light)
- Includes SC-11, SK-5, SU-3, SW-5V/5UV/5IR. Requires SD-7 battery pack for operation
- Guide number 105 as normal with SW-5V for visible light (ISO 100 and feet). \* Guide number 72 with SW-5IR for infrared light. \*\* Guide number 52 with SW-5UV for ultraviolet light.
- Recycling time approximately 9.5 seconds in manual mode; faster in automatic modes of operation

**Nikon Product Number: 4512 NAS**

\* With Kodak Spectroscopic Type 03-0 film by using a Kodak D-19 developer at 68° for 6 minutes.

\*\* With Kodak High Speed Infrared Film 2481 by using a Kodak D-76 developer at 68° for 10 minutes.



### ACCESSORIES

#### Accessory

- Flash Sync Cord SC-11 (repl)
- Mounting Bracket SK-5 (repl)
- Sensor Unit SU-3 (repl)
- SW-5UV UV Adapter (repl)
- SW-5V Visible Ray Adapter (repl)
- SW-5IR Infrared Adapter (repl)
- C-Cell Battery Pack SD-7 (comes with SC-16 power cord)

Accessory	Nikon Product Number
Flash Sync Cord SC-11 (repl)	3056 NCP
Mounting Bracket SK-5 (repl)	4539 NAS
Sensor Unit SU-3 (repl)	Special Order NAS
SW-5UV UV Adapter (repl)	Special Order NAS
SW-5V Visible Ray Adapter (repl)	Special Order NAS
SW-5IR Infrared Adapter (repl)	Special Order NAS
C-Cell Battery Pack SD-7 (comes with SC-16 power cord)	4520 NCP

## TTL MACRO SPEEDLIGHT SB-21A/B

FOR BRILLIANT CLOSE-UP DETAIL

- Designed specifically for close-up photography
- Dual, rotatable flash tubes allow you to select flat front lighting or selected relief lighting
- Advanced electronics assure consistent exposure control with variable output
- Built-in focus illuminator aids manual focusing
- Further lighting enhancement is possible using secondary lighting or reflector systems (because exposure control can be completely automatic, no special calculations are required when using these systems)
- Ideally suited for use with all Micro-Nikkor lenses.
- SB-21A for F3-series cameras. Includes AS-12 controller, SS-17/21 case, SW-8 wide-flash adapter, mounting ring for 52mm and 62mm.
- SB-21B for ISO shoe (F5, F4-series N90s, N70, N6006, N6000 and N50). Includes AS-14 controller, SS-17/21 case, SW-8 wide-flash adapter, mounting ring for 52mm and 62mm
- Guide number (ISO 100 in feet) 43 with internal batteries (49 with external power source)
- Recycling time approximately 8 seconds at manual full output.



### ACCESSORIES

#### Accessory

Accessory	Nikon Product Number
Controller/Power Pack AS-12 for SB-21A (repl)	4565 NAS
Controller/Power Pack AS-14 for SB-21B (repl)	4566 NAS
Case for Controller Unit SS-17 (repl)	4554 NAS
Case for Flash Unit SS-21 (repl)	4723 NAS
Wide Flash Adapter SW-8 (repl)	4546 NAS
AA Battery Holder MS-6 (repl)	4553 NAS
Adapter Ring UR-3 (req. with 60mm Micro for AF Operation)	2396 NAS
DC Power Pack LD-2 (requires SC-21 power cord)	4505 NAS
AC Power Pack LA-2 (requires SC-21 power cord)	4506 NAS
Power Connecting Cord SC-21	4534 NAS
52mm Adapter Ring for SB-21 (repl)	4598 NAS
62mm Adapter Ring for SB-21 (repl)	4599 NAS

**Nikon Product Number for SB-21A**

**(F3 shoe version): 4701 NAS**

**Nikon Product Number for SB-21B**

**(ISO shoe version): 4702 NAS**



**CONTROLLER AS-12 FOR F3 SERIES CAMERAS**



**CONTROLLER AS-14 FOR NIKON CAMERAS WITH ISO MOUNTING SHOE**

**NIKON SCHOOL PHOTO TIP:**  
**USING FILL-FLASH NOT ONLY FILLS IN DARK SHADOWS, IT SHIFTS THE CONTRAST RANGE. THE RESULT IS A PICTURE IN WHICH NOT ONLY DARKER AREAS SHOW MORE DETAIL, BUT LIGHTER AREAS AS WELL. FILL-FLASH CAN MAKE PHOTOS LOOK BRIGHTER AND MORE DETAILED, ALMOST AS IF ENHANCED.**

## EXTERNAL POWER SOURCES

### DC UNIT SD-7

The SD-7 operates on six C-type batteries and offers a separate power source for the SB-27, SB-26, SB-25, SB-22, SB-11 and SB-14. Shortens flash recycling time and enhances flash capacity. Includes SC-16 Power Connecting Cord. Also works with Speedlights SB-25, SB-24, SB-14 and the SB-140.

**Nikon Product Number:**  
4520 NCP



### HIGH PERFORMANCE BATTERY PACK SD-8

The SD-8 shortens flash recycling time by as much as 60-75% and more than doubles flash capacity. The SD-8 operates on six AA-type alkaline or NiCad batteries and can be used with the SB-27, SB-26, SB-25, SB-24, SB-22 and SB-11.

**Nikon Product Number:**  
4720 NCP



### POWER BRACKET MODEL SK-6

This convenient external power unit not only reduces flash recycling time, while increasing the number of available flashes, it offers an adjustable side-mounted handle. Camera, flash and all necessary connections are made within this single unit. Handle provides a convenient hand-hold for entire camera/Speedlight system, or when Speedlight is disconnected for creative lighting effects. Requires 4 AA batteries.

Compatible with SB-22, 24, 25 and 26, and Nikon F5, F4S, N90s, N70, N6006, N6000 and other camera models.

**Nikon Product Number:**  
4724 NAS



## MULTIPLE FLASH PHOTOGRAPHY

Multiple flash photography can yield stunning results, and takes less equipment than most photographers expect. Using up to 5 Nikon Speedlights, you control the intensity of back, rim and background separation lighting. The amount of light produced by each flash is usually set manually. Speedlights are usually positioned so that there is a main flash and secondary flash units. If you choose an automatic exposure mode, standard TTL is your best choice since it will allow the different intensities of light to affect the photo.

### TTL MULTIPLE FLASH SYSTEM

A Nikon multiple flash system can be made up of several Nikon TTL Speedlights (SB-27, SB-26, SB-25, SB-24, SB-23, SB-22, SB-17, SB-16A/B, SB-21A/B) and a Nikon N90s, F3, F4, F5, N70, N6006, N6000 or Pronea 6i. Then simply add the TTL remote or TTL multi-flash sync cords and AS-10 adapter (if using more than 3 flash units) available for TTL off-camera or multiple-flash photography. The camera's built-in sensor automatically measures and controls the light from all units.

## ACCESSORIES FOR TTL MULTIPLE FLASH

### TTL REMOTE CORD SC-14

Provides off-camera positioning and TTL flash control of Nikon SB-16A or SB21A with Nikon F3-series cameras. Approximately 3.3' long.

**Nikon Product Number:** 3061 NAS



### TTL REMOTE CORD SC-17

Use this coiled cord to connect Nikon TTL Speedlights to selected Nikon SLRs with standard ISO accessory shoe (N90s, F4, F5, N70, N6006, N6000 or Pronea 6i). Up to two units can be connected to the SC-17's terminals through the TTL Multi-Flash Sync Cord SC-18 or SC-19 for TTL multi-flash photography. Approximately 5' long.

**Nikon Product Number:** 4557 NCP



### TTL REMOTE CORD SC-24

For TTL flash control when using Nikon F4 series cameras with DW-20 waist-level finder or DW-21 6x finder, or F5 when using DW-30 waist-level finder or DW-31 6x finder.

**Nikon Product Number:** 3067 NAS

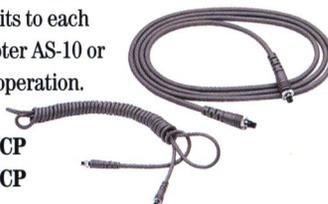


### TTL MULTIFLASH SYNC CORDS SC-18, SC-19

Use these cords to connect TTL flash units to each other through the TTL Multi-Flash Adapter AS-10 or TTL Remote Cord SC-17 for multi-flash operation. SC-18 is 5' in length. SC-19 is 10'.

**Nikon Product Number SC-18:** 4558 NCP

**Nikon Product Number SC-19:** 4559 NCP



### TTL MULTI-FLASH ADAPTER AS-10

The AS-10 enables you to control up to three TTL flash units. AS-10 attaches to the SB-27, SB-26, SB-22, SB-16B or SB-21B. Connect additional TTL Speedlights with the SC-18 or SC-19, except when using wireless SB-26.

**Nikon Product Number:** 4560 NCP



### FLASH TRIPOD ADAPTER AS-11

The AS-11 allows you to attach the SB-16A to a tripod. Adapter simply screws into position. Also works with previous Speedlight models SB-17 and SB-12.

**Nikon Product Number:** 4561 NAS



### NIKON SCHOOL PHOTO TIP:

**REPEATING FLASH IS WHEN A SERIES OF EXPOSURES IS MADE ON A SINGLE FRAME OF FILM TO ILLUSTRATE MOVEMENT. BECAUSE OF THE LONGER SHUTTER SPEEDS REQUIRED, A TRIPOD IS RECOMMENDED WHEN USING THIS TECHNIQUE. SHOOTING AGAINST A DARK OR BLACKENED BACKGROUND IS ALSO SUGGESTED FOR BEST REPEATING FLASH RESULTS.**

## FLASH SYNC CORDS AND SYNC ADAPTER

Cord/Adapter	Description	Nikon Product Number
Sync Cord SC-11	This general purpose flash sync cord enables off-camera flash operation and is fitted with a PC-type connector at both ends. Connectors are threaded for secure mounting. Length 15".	3056 NCP
Sync Cord SC-14	Provides for off-camera positioning of F3-dedicated Speedlights, SB-16A and SB-21A. Provides full TTL flash coupling.	3061 NAS
Coiled Sync Cord SC-15	General purpose flash sync cord for off-camera operation. Provides same function as SC-11, except 3' coiled length.	4524 NCP
TTL Remote Cord SC-17	Provides full TTL flash coupling for off-camera positioning of Nikon Speedlights. Works with Nikon F5, F4, N90s, N70, N6006, N6000, N50 or Pronea 6i. The end of this cord is the standard ISO accessory shoe. Up to two TTL flash units can be connected to the SC-17's terminals.	4557 NCP
TTL Connecting Cord SC-12	Enables TTL flash operation of SB-11, SB-14 or SB-140 with Nikon F3 series cameras.	356 NCP
TTL Connecting Cord SC-23	Enables TTL flash operation of SB-11, or SB-140 with Nikon F5, F4s, N90s, N70, N6006, N50, N6000, N2000, Pronea 6i cameras.	4562 NCP
Sensor Remote SC-13	The SC-13 allows the SU-2/3 sensor to be positioned near the camera hot shoe for more accurate flash exposures. Operates in non-TTL automatic and manual exposure modes. For general-purpose operation with SB-11, and SB-140 Speedlights.	313 NCP
Power Connecting Cord SC-16 for SD-7	Provides connection for SD-7 to Speedlight (replacement item).	4523 NCP
Hot Shoe Adapter AS-15	Enables the connection of flash sync cords fitted with standard PC-type connector to the camera body via the built-in hot shoe. Suitable for use with Nikon SLR cameras not fitted with PC-type sync terminal.	3066 NCP

## FLASH COUPLERS FOR F2 AND F3 SERIES CAMERAS

Nikon F2 and F3 series cameras require special couplers that enable the use of the SB-27, SB-26, SB-25, SB-22, SB-16B, SB-21B and other Nikon Speedlights with an ISO-type mounting foot. Special couplers may also be required with the use of previous-model Nikon Speedlights and Nikon F2 and F3 series cameras (see listing below).

Coupler	Description	Nikon Product Number
AS-1	Couples Speedlights with ISO-type mounting foot to hot shoe of Nikon F/F2 series cameras.	362 NAS
AS-2	Couples Nikon F/F2-dedicated Speedlights to ISO type hot shoe of Nikon F5/F4/FM2/N90s/N70/N6006/N6000/N50 cameras.	363 NAS
AS-3	Couples Nikon F/F2-dedicated Speedlights to hot shoe of Nikon F3 series cameras.	353 NAS
AS-4	Couples Speedlights with ISO-type mounting foot to hot shoe of Nikon F3 series cameras (TTL coupling is not possible).	354 NAS
AS-5	Couples Nikon F3-dedicated Speedlights to hot shoe of Nikon F/F2 series cameras.	3059 NAS
AS-6	Couples Nikon F3-dedicated Speedlights to ISO-type hot shoe of Nikon F5/F4/FM2/N90s/N70/N6006/N6000/N50/Pronea 6i cameras (TTL coupling is not possible).	3060 NAS
AS-7	Provides offset mounting of Speedlights for Nikon F3 series cameras to facilitate film rewind operation. Maintains full coupling for F3 dedicated Speedlights. Also enables use of ISO-type mounting foot Nikon Speedlights (TTL coupling is not possible).	3065 NAS
AS-8	Provides for mounting of SB-16 Speedlight head to F3 series camera's hot shoe. Provides all necessary interface for full TTL flash operation with these cameras.	4544 NAS
AS-9	Provides for mounting of SB-16 Speedlight head to Nikon SLR cameras equipped with ISO type hot shoe. Provides all necessary interface for full TTL flash operation with these cameras.	4545 NAS

### Sensor Unit SU-2

Sensor Unit SU-2 for SB-11, SB-14. Replacement sensor unit for SB-11, SB-14.

Nikon Product Number: 3055 NCP

# Close-Up

**NOW ALL IT TAKES IS A  
LITTLE IMAGINATION**

*The fascinating world of close-up photography can be as simple as using a Micro-Nikkor lens. Or to get really close, choose from an array of Nikon close-up equipment and accessories.*



## **60MM F/2.8D AF MICRO-NIKKOR**

This lens provides an exceptional range of applications. Distance Signal adds performance through its compatibility with N90s, N90, N70 and N50 3D Matrix Meter. Close-Range Correction system ensures high resolution down to 8 3/4"



(1:1 reproduction ratio). A-M (Automatic-Manual) switch enables quick changing from autofocus to manual focus. Wt. 16 oz. Dim. 2.8 x 3".

**Nikon Product Number: 1987 NAS**

## **105MM F/2.8D AF MICRO-NIKKOR**

This lens adds extra free working distance for multiple lighting techniques. The lens's focal length makes it suitable for classic portraits, while close-focusing enables detail work.

D-type lens technology provides distance information to F5, N90s, N90, N70 and N50 cameras. Close-Range Correction. Focuses from infinity to 12 inches (1:1). A-M (Automatic-Manual) switch. Wt. 19.6 oz. Dim. 3 x 4.2".

**Nikon Product Number:  
1988 NAS**



## **200MM F/4D AF IF-ED**

### **MICRO-NIKKOR**

The long focal length of this lens provides extra working distance. ED glass has been incorporated into selected elements for superior optical performance. Internal focusing improves handling and focusing operation. D-type lens technology provides distance information to F5, N90s, N90, N70 and N50 cameras. Focuses from infinity to 19.4 inches (1:1 reproduction ratio). A-M switch and clutch mechanism ensure smooth manual focusing as well as fast and accurate change-over to autofocus operation.



Wt. 42.3 oz. Dim. 3 x 7.7".

**Nikon Product Number: 1989 NCP**

## **MEDICAL NIKKOR 120MM F/4 IF**

The Medical Nikkor also has tremendous application as a close-up lens. It focuses continuously from 1:11 down to life-size 1:1. By adding its specially designed close-up element, focus from 1:1.25 to 2:1 magnification.

**Nikon Product Number: 983 NAS**



## **ATTACHMENT LENSES**

Close-up attachment lenses are a convenient and economical way to get into close-up photography. They can be used with normal, zoom or telephoto lenses to focus within a fixed close-up range. Camera functions will operate as usual. Close-up attachment lenses are numbered from 0 to 6T. Numbers 0, 1 and 2 are for use with standard lenses. Numbers from 3T to 6T are for use with telephoto and zoom lenses up to 210mm.

In general, the higher the number of the close-up lens, and the longer the focal length of the lens in use, the greater the reproduction ratio. Lenses may also be used in combination. All feature Nikon integrated coating.

### **Lens and Attachment Size**

Close-up Lens No. 0 IC 52mm (0.7 Diopter)

**Nikon Product Number: 2732 NCP**

Close-up Lens No. 1 IC 52mm (1.5 Diopter)

**Nikon Product Number: 2733 NCP**

Close-up Lens No. 2 IC 52mm (3.0 Diopter)

**Nikon Product Number: 2734 NCP**

Close-up Lens No. 3T IC 52mm (1.5 Diopter)

**Nikon Product Number: 2736 NCP**

Close-up Lens No. 4T IC 52mm (3.0 Diopter)

**Nikon Product Number: 2737 NCP**

Close-up Lens No. 5T IC 62mm (1.5 Diopter)

**Nikon Product Number: 4536 NCP**

Close-up Lens No. 6T IC 62mm (3.0 Diopter)

**Nikon Product Number: 4537 NCP**



### AUTO EXTENSION RINGS

Nikon extension rings can be used singly or in combination to vary the reproduction ratio of lenses from 20 to 300mm. They are mounted between the camera body and the lens. As a rule, the effect becomes stronger the shorter the focal length of the lens in use, and the longer the focal length of the extension ring. Through-the-lens exposure control automatically compensates for lens extension. Manual and aperture-priority auto-exposure control modes are possible. Manual focus only.

Extension Ring	Nikon Product Number
PK-11A (8mm)	2656 NCP
PK-12 (14mm)	2652 NCP
PK-13 (27.5mm)	2653 NCP

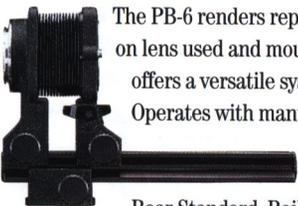


(PK-13 when used with 55mm f/2.8 Micro-Nikkor, 1:1.5 to 1:1 are possible)

### BELLOWS AND ACCESSORIES

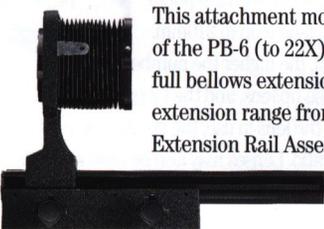
A bellows focusing attachment can allow you to get really close — as much as 11 times life-size. Depth-of-field and working distance are important when using a bellows, so you may want to add other Nikon accessories.

#### BELLOWS FOCUSING UNIT PB-6



The PB-6 renders reproduction ratios to nearly 11X, depending on lens used and mounting configuration. Its modular design offers a versatile system of close-up and macrophotography. Operates with manual or aperture-priority auto, TTL metering and flash control. Extension range is 48-208mm. Supplied with Front Standard, Rear Standard, Rail Assembly and Bellows.  
**Nikon Product Number: 2660 NAS**

#### EXTENSION BELLOWS PB-6E



This attachment more than doubles the magnification ratio of the PB-6 (to 22X) and a 20mm lens in reverse position at full bellows extension. Produces continuously variable extension range from 83-438mm. Includes Center Standard, Extension Rail Assembly, Extension Bellows.

**Nikon Product Number: 2663 NAS**

#### NIKON SCHOOL PHOTO TIP:

“CLOSE-UP” ISN’T ALWAYS A MATTER OF HOW CLOSE YOU CAN GET TO THE SUBJECT MATTER. INSTEAD IT IS MORE COMMONLY DEFINED BY HOW LARGE THE IMAGE APPEARS ON THE FILM. THIS IS CALLED “REPRODUCTION RATIO.” FOR EXAMPLE, IF THE IMAGE IS THE SAME SIZE AS THE ACTUAL SUBJECT, THE RATIO IS “1:1” OR SIMPLY “1X.” IF THE IMAGE IS TWO TIMES LARGER, THE RATIO IS 2:1 OR 2X. IF ONE-HALF THE SIZE OF THE ORIGINAL, THE RATIO IS 1:2 OR 1/2X.

### SLIDE COPYING ADAPTER PS-6

Duplicate and crop 35mm transparencies (with mounts up to 4mm thick) with this unit attached to the PB-6. Operates with TTL exposure systems.

**Nikon Product Number: 2661 NAS**



### MACRO COPY 4STAND PB-6M

Provides the PB-6 with a convenient stand for small items. 18% grey surface.  
**Nikon Product Number: 2662 NAS**

### LENS REVERSING RING BR-2A, MOUNT ADAPTER RING BR-5, ADAPTER RING BR-3, AUTO DIAPHRAGM RING BR-6

The BR-2A enables you to mount a 52mm front thread lens in reverse on the PB-6 and Nikon cameras. This increases magnification and working distance. BR-3 provides a 52mm thread for filters and other lens attachments with lens in reverse. BR-5 allows mounting lens with 62mm thread (use with BR-2A). BR-6 for the PB-4, PB-5 and PB-6 enables Nikkor lens auto-diaphragm control with AR-4/7/10 cable release.

**Nikon Product Number BR-2A:**  
 2657 NCP

**Nikon Product Number BR-3:**  
 2629 NCP

**Nikon Product Number BR-5:**  
 2631 NCP

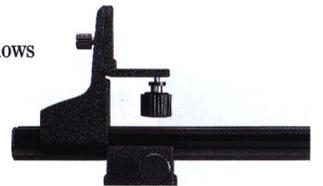
**Nikon Product Number BR-6:**  
 2658 NAS



### FOCUSING STAGE PG-2

Having selected your reproduction ratio, you can mount the PG-2 between the bellows and the tripod and move the complete system back and forth to obtain the sharpest focus. Eliminates any need to modify either lens focus ring or bellows extension.

**Nikon Product Number: 2756 NCP**

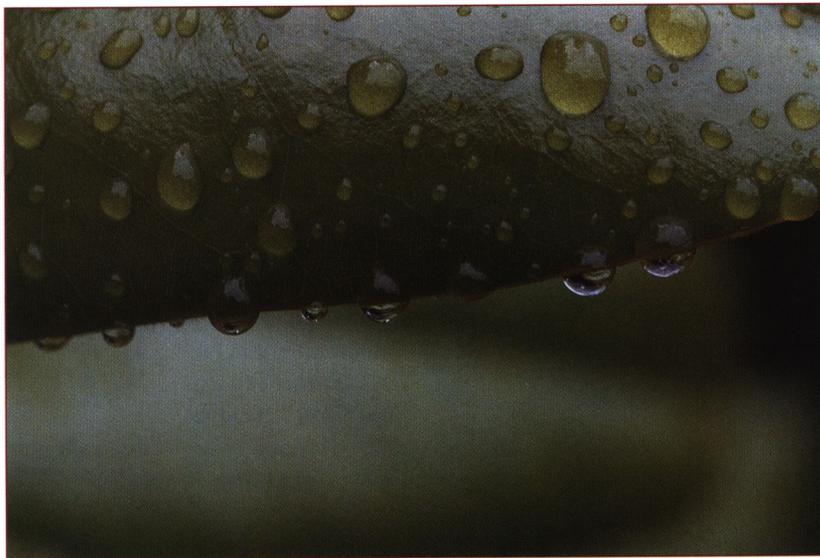


### REPRO COPY OUTFIT PF-4

This easy-to-use copystand is designed for Nikon equipment. Includes column assembly, baseboard and grey card.

**Nikon Product Number: 2757 NAS**





**MISCELLANEOUS CLOSE-UP ACCESSORIES**

Product Description	Nikon Product Number
<b>Motor Drive Holder PH-4</b> Enables motor drive with PF-4 Repro copy outfit.	2758 NAS
<b>18% Grey Card for PF-4</b> Replacement item.	2754 NAS
<b>Table Clamp PC-3</b> Enables use of PF-4 with table or firm support up to 1.5" thick.	2753 NAS
<b>Tripod Adapter Plate</b> Attach F4s, N90s, N90, N70 to PF-4.	2759 NAS
<b>Slide Copy Adapter ES-1</b> Fast, accurate slide duplication with Nikkor 55mm f/2.8 Micro-Nikkor lens.	3213 NAS

**CABLE RELEASES**

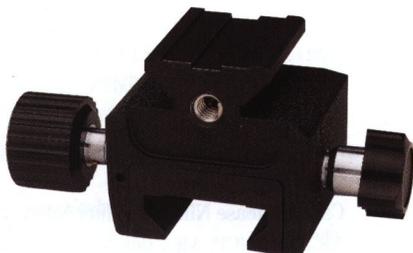
When used together with the Bellows Focusing Attachment PB-6, the cable releases AR-10, AR-7 or AR-4 stop the lens diaphragm down to the preselected aperture the instant the shutter is released. To enable automatic diaphragm operation with PB-4 or PB-5, use the BR-4 ring. When used with a double release or double cable release, the BR-4 ring also allows automatic diaphragm operation of the lens mounted in the reverse position, via optional Macro Adapter Ring BR-2. When the BR-4 Auto Ring is used between the lens and bellows, its 9mm extension influences the range of magnification. When the lens is mounted in reverse position, the reproduction ratio remains the same as that given in the instruction manual of the bellows.

Cable Release	Nikon Product Number
AR-4 with Nikon Thread	2636 NAS
AR-7 with ISO Thread	668 NAS
AR-10 for MD Terminal*	2670 NAS

\* The N90, N90s and F5 also require the use of adapter cord MC-25 for conversion.

**BELLOWS/RAIL SPACER PB-6D**

Mounts between the bellows standard and rail to provide sufficient clearance to enable motorized cameras to operate with bellows system. Two are required for operation. For PB-6, 6E and PS-6.  
Nikon Product Number: 2664 NAS



**TTL MACRO SPEEDLIGHT SB-21A/B**

Designed specifically for close-up work, this compact, battery-operated unit features dual rotatable flash tubes, for flat front lighting or selected relief lighting. Advanced electronics assures consistent exposure control with variable output. A built-in focus illuminator aids manual focusing. Further enhancement to lighting is possible using secondary lighting and reflector systems. This unit is ideally suited for use with the AF Micro-Nikkor lenses.



Nikon Product Number  
SB-21A: 4701 NAS



# Remote Control

*Nikon remote control lets you stay out-of-sight while your camera stays within range. Avoid disturbing the action. Get the kind of photos others only dream about.*

## WIRELESS RADIO REMOTE CONTROL SET MW-2

Provides interference-free remote control up to 2,295 feet (700 meters). Operates with Nikon motor-driven cameras, F4s, F3 Series (with MD-4 motor), F5, N90s and N90 (requires MC-25 adapter cord), N70, FM2 (with MD-12). Can operate three separate cameras automatically. (supplied w/MC-18 cord).

**Nikon Product Number for MW-2 : 141 NCP**

**Nikon Product Number for MW-2 Receiver (repl.): 142 NCP**

**Nikon Product Number for MW-2 Transmitter (repl.): 143 NCP**



## MODULITE REMOTE CONTROL SETS ML-2, ML-3

Compact unit uses modulated light to automatically control up to two cameras for distances up to 327 feet. Operates with Nikon motor-driven cameras, F4s, F3 Series (with MD-4), F5, N90s and N90 (requires MC-25 adapter cord), N70, FM2 (with MD-12). Also for N90s and N90, see ML-3 (page 15). ML-3 for N90s and N90 camera only.

**Nikon Product Number for ML-2: 4641 NCP**

**Nikon Product Number for ML-3: 4645 NAS**

**Nikon Product Number for Bracket: 4648 NAS**



## INTERVALOMETER MT-2

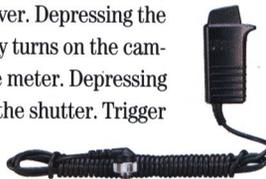
For unmanned time-lapse photography, work sampling, time exposures or delayed exposures. Quartz-controlled MT-2 provides shooting intervals from 0.1 seconds to 27 hours and either 2-second or 16-second shutter release delay, allowing time for focusing or flash recycling. Can also be used with other remote control devices. Operates with Nikon motor-driven cameras, F4s, F3 Series (with MD-4), F5, N90s and N90 (requires MC-25 adapter cord), N70, FM2 (with MD-12).

**Nikon Product Number: 128 NCP**



## MOTOR REMOTE TRIGGER CORD MC-12A

For remote control photography up to 9.8 feet away. The MC-12A has a convenient handgrip, trigger release button and trigger lock lever. Depressing the button halfway turns on the camera's exposure meter. Depressing fully releases the shutter. Trigger lock enables



time exposures. F4s, F3 Series (with MD-4), F5, N90s and N90 (requires MC-25 adapter cord), N70, FM2 (with MD-12 motor).

**Nikon Product Number: 4586 NCP**

## MOTOR REMOTE CORD WITH BANANA PLUG MC-4A (3')

For remote photography. The plug on one end of the MC-4A connects to the remote control socket. The other end has both plus and minus banana-type plugs, used to connect a variety of electrical remote control devices.

**Nikon Product Number: 4583 NCP**

## AH-3 TRIPOD MOUNTING ADAPTER

For attaching Nikon cameras with separate motor drives to tripod or Repro-copy Outfit PF-4.

**Nikon Product Number: 4580 NCP**

## REMOTE CORD WITH TIMER MC-20

Enables remote firing and long time-exposure settings (up to 9 hours, 59 minutes, 59 sec.) of F5, F4s, N70, N90s and N90 cameras. LCD panel with illuminator counts exposure time up or down. Provides both B and T mode operation. Use with F4s and N70 requires MC-26 Adapter Cord and CR2032 battery.

**Nikon Product Number: 4650 NAS**



## MC-26 ADAPTER CORD

To connect MC-20 Remote Cord to Remote Terminal of F4s or N70.

**Nikon Product Number: 4656 NAS**



## MOTOR REMOTE TRIGGER CORD MC-10

For use with F5/F4s/F3 Series/FM2/N70 SLRs, motor drives MD-2/3/4/12/15 for firing at camera distance up to 10'. Use with F5 requires MC-25 Adapter

**Nikon Product Number: 131 NCP**



## MOTOR TERMINAL RELEASE MR-3

For mounting on the standard remote control terminal of Nikon motor drives and motorized cameras. Provides alternate shutter release. Tapered thread for connection of standard ISO-type cable release.

**Nikon Product Number: 4563 NCP**

## CABLE RELEASES

Essential for slow shutter speeds, Nikon cable releases ensure one-hand shutter release operation. Model AR-3 with ISO type tapered thread for F4s, F3 series, Pronea 6i, N6006/6000, FM2N. AR-7 for use with PB-6 and F4s, F3 series, N6006/6000, FM2N. AR-10 for use with F5, N90s and N90 (with MC-25), N70.

**Cable Release Nikon Product Numbers: AR-3 664 NCP, AR-7 668 NAS, AR-10 2670 NAS**

# BATTERY SELECTOR CHART

Item	Quantity	Type	Item	Quantity	Type	Item	Quantity	Type
<b>SLR Cameras</b>			DL-1 Photomic Illuminator	1	1.3V Mercury	<b>Flash Units</b>		
EL, ELW, EL2	1	6V Silver Oxide	R-8 Super Zoom (Motor)	6	AA Alkaline	120 Medical Nikkor Battery Pack (LD-2), SB-21 Macro Speedlight External Power Pack	8	AA Alkaline
F3HP, F3, F2, F2S, F2SB, F2A, F2AS Photomics, FM2, FE2, FM, FE, FG, FG-20, EM, Nikonos-V	2	SR44	R-10 Super Zoom (Motor)	6	AA Alkaline	200mm Medical Nikkor I Battery Pack	4	D Alkaline
F4s	6	AA Alkaline	Super 5X, 8X (Motor)	4	AA Alkaline	200mm Medical Nikkor II Battery Pack	8	D Alkaline
F5	8	AA Alkaline/ AA Lithium	Optional NiMH Battery MN-30	2	1.3V Mercury	BC-7 Flash	1	15V Battery
N2000, N2020	4	AA Alkaline	<b>Motor Drives</b>			Battery Pack f/SB-1	6	D Alkaline
N4004s, N4004	4	AA Alkaline	F2MB-1 Battery Pack	10	AA Alkaline or MN-1 NiCad Battery Pair (#38)	High Voltage Pack f/SB-1	1	510V Battery
N50	1	DL-245	F2MB-2 Battery Pack	8	AA Alkaline	Repeating Flash Battery Pack (f/SB-6)	8	NiCad Battery SN-3 (#294)
N5005	4	AA Alkaline	F3 MD-4	8	AA Alkaline or MN-2 NiCad (#125)	SB-2 Speedlight	4	AA Alkaline
N6006, N6000	1	DL-223A	F36 Motor (Cordless)	8	AA Alkaline	SB-3 Speedlight	4	AA Alkaline
N70	2	CR-123A	F250, F36 Motors with Standard Pack	8	C Alkaline	SB-4 Speedlight	2	AA Alkaline
N8008s	4	AA Alkaline	MB-10	4	AA Alkaline	SB-5 Speedlight	1	NiCad SN-2 (#309)
N90s, N90	4	AA Alkaline	MD-11 & MD-12 Motor	8	AA Alkaline	SB-5 Battery Pack, SD4	1	480V Battery
Nikkormat FT, FTN	1	1.3V Mercury	MD-14 & MD-15 Motor	8	AA Alkaline		or 2	40V Batteries
Nikkormat FT2, FT3	2	SR44	MD-E	6	AAA Alkaline	SB-7E Speedlight	4	AA Alkaline
Nikonos IV-A	2	SR44	<b>Auto Winder</b>			SB-8E Speedlight	4	AA Alkaline
Nikonos RS	1	DL-223A	Auto-Winder AW-1	6	AA Alkaline	SB-9 Speedlight	2	AA Alkaline
Pronea 6i	2	CR-123A	<b>Remote Controls</b>			SB-10 Speedlight	4	AA Alkaline
<b>Autofocus Compact Cameras</b>			<b>Modulite Receiver</b>			SB-11 Speedlight	8	AA Alkaline
28Ti	1	DL-123A	Intervalometer MT-1	4	AA Alkaline	SB-12 Speedlight	4	AA Alkaline
35Ti	1	DL-123A	Intervalometer MT-2	4	AA Alkaline	SB-14, 140 Battery Pack, SD-7	6	C Cell
Action-Touch, L35AF & L135AF, Tele-Touch	2	AA Alkaline	Modulite Receiver	4	AA Alkaline	SB-15, 17	4	AA Alkaline
Fun-Touch, Fun-Touch 2, Fun-Touch 3	2	AA Alkaline	Modulite Transmitter	1	9V Standard Battery	SB-16A, 16B	4	AA Alkaline
Lite-Touch, Lite-Touch Zoom	1	DL-123A	Modulite Remote Control Set ML-2 Transmitter	4	AA Alkaline	SB-19	4	AA Alkaline
Nice-Touch 2	2	AA Alkaline	Receiver	4	AA Alkaline	SB-20, 22 Speedlight	4	AA Alkaline
Nuvis 75	1	CR-123A/ DL-123A lithium	Modulite Remote Control Set ML-3 Transmitter	2	AAA Alkaline	SB-23 Speedlight	4	AA Alkaline/Lithium
Nuvis 75i	1	CR-123A/ DL-123A lithium	Wireless Remote Control Receiver	8	AA Alkaline	SB-21A, SB-21B Macro Speedlight	4	AA Alkaline
Nuvis 125	1	CR-123A/ DL-123A lithium	Wireless Remote Control Transmitter	8	AA Alkaline	SB-24 AF TTL Speedlight	4	AA Alkaline/Lithium
Nuvis 125i	1	CR-123A/ DL-123A lithium	<b>Data Backs</b>			SB-25 Speedlight	4	AA Alkaline/Lithium
Nuvis Mini	1	CR2/ DLCR2 lithium	MF-14	2	SR44	SB-26 Speedlight	4	AA Alkaline/ Lithium
Nuvis Mini i	1	CR2/ DLCR2 lithium	MF-16	2	SR44	SB-27 Speedlight	4	AA Alkaline/ Lithium
One-Touch 100	1	DL-123A	MF-17	4	AA Alkaline	SB-E Speedlight	4	AAA Alkaline
One-Touch, One-Touch 200, One-Touch 300	2	AA Alkaline	MF-18	2	SR44	SD-8 High Performance AA Battery Pack	6	AA Alkaline/Lithium
Smiletaker	2	AA Alkaline	MF-19	2	SR44	SK-6 Power Bracket	4	AA Alkaline/Lithium
Sport-Touch	2	AA Alkaline	MF-20	1	CR2050	DC Power Supply for Ring Lights SR-2, SM-2	8	D Alkaline
Tele-Touch Deluxe	1	DL-223A	MF-21	2	CR2050	<b>Note:</b> AA Zinc Carbon Batteries (1.5V each) may be used instead of AA Alkaline in the above listing. Also, in many applications NiCad rechargers can be used.		
VR 105 QD	2	DL-123A	MF-22	1	CR2050	While both Silver Oxide and Lithium cells will operate some camera models, there is some difference in the performance characteristics of these two battery types. We suggest that you check with your battery supplier to get specific information about the battery you intend to use.		
Zoom-Touch 105 VR QD	2	DL-123A	MF-23	2	CR2050	Specifications subject to change without notice.		
Zoom-Touch 400, Zoom-Touch 500, Zoom-Touch 600, Zoom-Touch 800, Tele-Touch 300	1	DL-223A	MF-25	2	3V CR-2025			
Zoom-Touch 470	1	DL-123A	MF-26	2	3V CR-2025			
<b>Miscellaneous products</b>			<b>EE Control</b>					
DB-2 Anti-Cold Battery Pack	2	AA Alkaline	DB-1 Battery Pack f/EE	4	C Cell			
DB-3 External Battery Pack f/MF-12	2	AAA Alkaline	EE Aperture Control	1	NiCad Battery DN-1 (#48)			

**Precautions:** Use of ML-3 is not recommended with AA Lithiums as a power supply in the N90s and may damage the unit. The ML-3 takes power from the N90s and cannot accept the transient voltage of AA Lithiums.

**Precautions for all speedlight products listed:** When shooting at fast framing rates, AA Lithiums may get hot and shut off. Wait until they are cool and proceed with taking flash pictures. (This will not cause damage to the Speedlight.)

# Meet the Advanced Photo System



## DON'T WORRY, JUST PUSH

Introducing Nikon's Advanced Photo System cameras — our concept for a New Vision in personal photography. These cameras combine new Advanced Photo System features with Nikon's superb optics and technology. Small, lightweight and easy-to-use, Advanced Photo System cameras enable you to take better pictures while having fun! All you need to do is drop in the film. So don't worry, just push the button and get great pictures.



### ADVANCED PHOTO SYSTEM

A new system to provide excitement and easy operation for your personal photography. The main features of the system include a smaller film cartridge, a new film size called IX240, and new technology to add performance and improved quality to picture-taking.

### CONVENIENT AND PORTABLE

Advanced Photo System models are compact and lightweight. Handy to carry wherever you go, in pocket or purse, these cameras allow you to make great pictures, anytime and practically anywhere.

### NEW IX240 ADVANCED PHOTO SYSTEM FILM CARTRIDGE

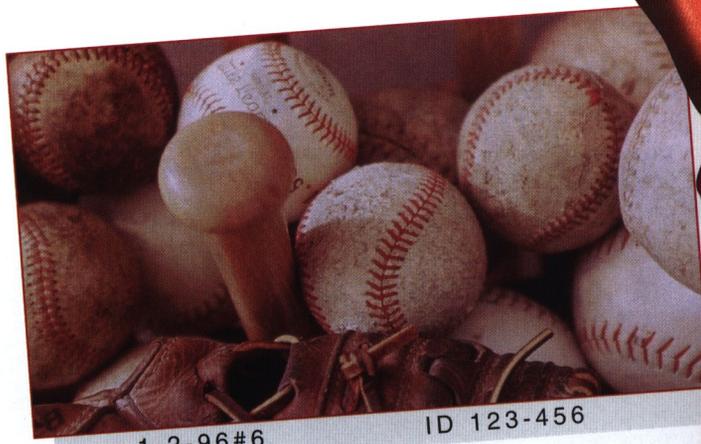
A new cartridge helps make picture-taking worry-free. The Advanced Photo System film cartridge and IX240 film size enables you to get from 12 to 40 pictures per roll. Loading is easy. Just drop the film into the camera and you can't go wrong. You never see or touch the film. The cartridge is tightly closed, and there's no film leader sticking out. There is a Visual Exposure Index (VEI) in each cartridge, telling the camera if the film is new and unexposed, partially exposed,

completely exposed, finished but not processed, or if it has been finished and processed. Never worry about double-exposing or accidentally processing a new roll. And the cartridge has a disk which carries film speed and other information for the camera.

Type P Panorama

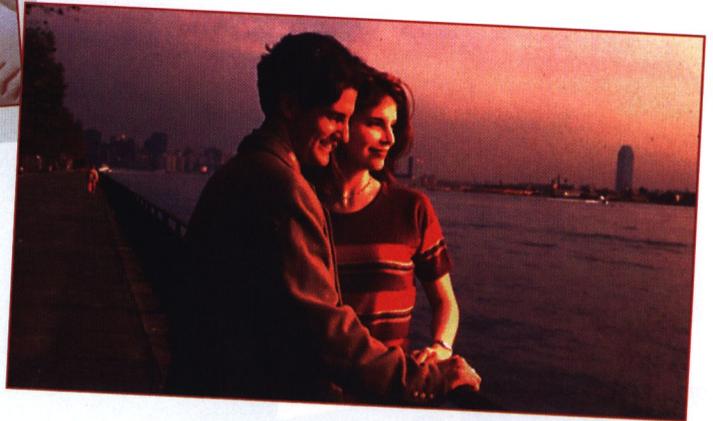


TO CHOOSE A PICTURE TYPE, SLIDE THE SELECTOR.  
SELECT FROM THREE PICTURE TYPES: TYPE C, TYPE H AND TYPE P.



**TO SIMPLIFY RE-ORDERING, EACH CARTRIDGE AND INDEX PRINT WILL BEAR MATCHING IDENTIFICATION NUMBERS. YOU'LL NEVER LOSE TRACK OF YOUR PICTURES AGAIN.**

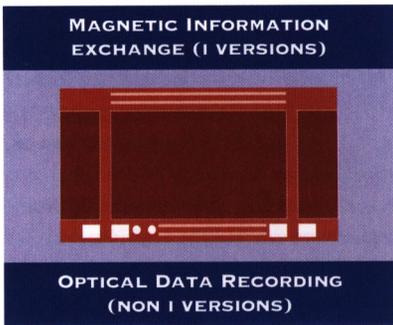
*Type H wide-vision*



**CHOICE OF THREE PICTURE TYPES**

Advanced Photo System cameras offer three picture types: Type C, classic 35mm style; Type P, panorama; and a new Type

H, wide-vision. Select any type at anytime. You can even mix types on the same roll. And if you choose one type and later change your mind, simply tell the Advanced Photo System Certified Photofinisher to print an alternative type. Now, that's versatility!



**MAGNETIC INFORMATION EXCHANGE (IX)**

A remarkable feature of the Advanced Photo System models is Magnetic Information Exchange (IX). IX uses a magnetic coating on IX240 film to record information about the pictures you take. Recorded information includes date, time, exposure status, flash use, print type and more. The recorded date can be printed on the front and back of each picture. Back-printing on a picture can also include the date, picture frame number and ID number for the film cartridge.

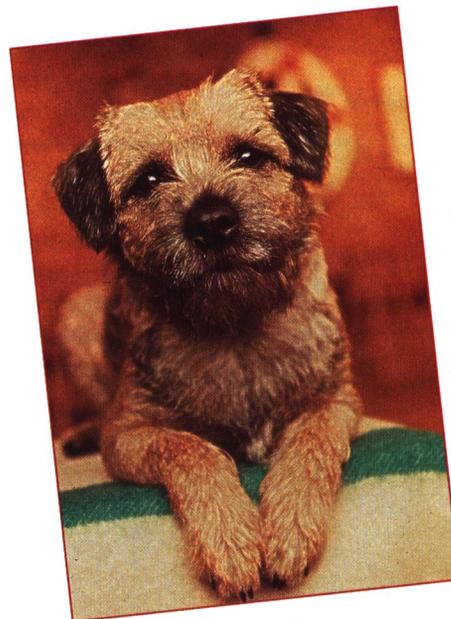
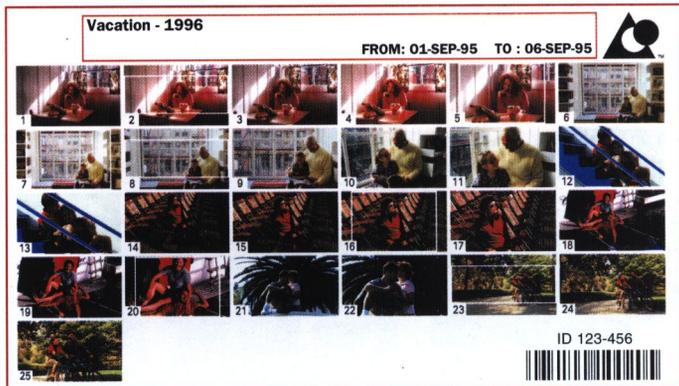
Non-data models are also available. These models feature an Optical Information Exchange, instead of the magnetic type. Optical Information Exchange is used to indicate the picture type you have selected. Date and picture data are not saved with these models.

**PROCESSING AND COLOR INDEX PRINT**

Processed negatives are returned in the original film cartridge, sealed to protect the film from dust and fingerprints. A Certified Photofinisher can provide a color Index Print an album-size print that shows thumbnail versions of each picture on the roll. The size of the Index Print may vary among Certified Photofinishing labs.

This convenient record makes it simple to order prints!

Recorded information includes date, time, exposure status, flash use, print type and more. The recorded date can be printed on the front and back of each picture. Back-printing on a picture can also include the date, picture frame number and ID number for the film cartridge.



*Type C Classic*

# Pronea 6i

AVAILABLE  
EARLY 1997

NEW!

## ADVANCE TO A NEW DIMENSION

*Enter a new realm of picture-taking with the Pronea 6i – the first Nikon SLR that incorporates all the advantages of the Advanced Photo System. With a sleek design and whisper-quiet operation, the Pronea 6i is a blend of ultimate simplicity and optimum performance. From action and sports photography to portraits, still life shots and creative silhouettes, the Pronea 6i has what it takes to make the professional-looking, high-quality photos you've always wanted. So move on up and discover the new dimension in SLR photography.*



The Pronea 6i combines all the benefits of the exciting Advanced Photo System with the quality and technology of Nikon.



### THREE PRINT TYPES

Choose from three different film types on the same roll: wide-vision (H), panorama (P) and the classic (C) type used in 35mm cameras. For real convenience, there's a Mid-Roll change feature that lets you switch film by types whenever you want. And when you reload the same film, it automatically advances to exactly where you left off.

### DATA AND TITLE IMPRINT

Imprint data such as date, time, ISO speed, shutter speed and aperture on the back of each photo. You can also imprint titles like "Birthday" or "Wedding" from a data bank of 99 titles in 13 languages. The date can be printed on the front of the photo, as well.

### EXTREMELY EASY FILM HANDLING

The Pronea 6i uses IX240 film. With no troublesome leader to thread, just place the cartridge in the camera and close the

door. Once the film is loaded, the camera's safety lock won't let the film cartridge chamber open. The camera also prevents loading a cartridge that's already exposed.

### DATA RECORDING MAGNETIC TRACK

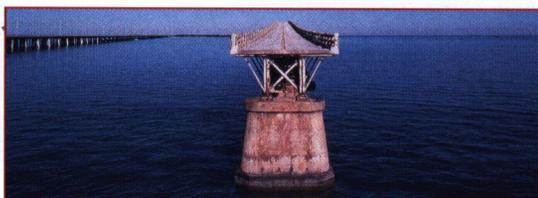
IX240 film also features a special data recording track for improved print quality. The camera can record specific exposure information, including brightness, flash use, and more, for each photo you take. This allows for customized photofinishing.

### INDEX PRINT FOR EXTRA CONVENIENCE

When you get your processed film back in the original cartridge from the photo lab, you'll get an Index Print displaying the photos for each roll on one handy sheet. You can also specify the number of copies you want of each frame.



Type C



Type P



Type H

### ADVANCED AUTOFOCUS PERFORMANCE

Fast and accurate autofocus assures sharp pictures — even under difficult conditions. Nikon's Cross-type Wide-Area Autofocus Sensor module provides picture-composing flexibility.

Focus Tracking with Lock-on™ automatically takes care of those brief moments when something moves between you and your subject. Now you can shoot moving subjects with exceptional clarity and detail.



### FAST MOTORIZED SHOOTING

To capture fast-moving sports and action shots, shoot at speeds up to 3.5 frames per second in the release priority Continuous Servo (C) mode and 3.3 frames per second with Focus Tracking with Lock-on™. You can also shoot with focus priority Single Servo (S mode).



### THREE SUPERIOR METERING SYSTEMS

Choose from three metering systems to best suit your picture-taking situation.

- 3D Matrix Meter Features an 8-segment sensor to evaluate light in all kinds of picture-taking situations by reading scene brightness and contrast. When used with Nikkor lenses offering Distance Information technology, the 3D Matrix Meter maximizes the performance of the camera's special software.
- Center-Weighted Meter concentrates 65% of the meter's sensitivity within a 12mm circle in the viewfinder. Ideal for portraits or scenes with severe backlighting.
- Spot Metering Concentrates the exposure in a 3.5mm circle in the center of the viewfinder. Best when precise measurement of a portion of the subject is required. Also effective in creating special effects.



### BUILT-IN SPEEDLIGHT

A powerful built-in Speedlight with a guide number of 66 (ISO 200 feet) and a flash sync speed of 1/180 sec. is built-in. Works effectively with lenses that



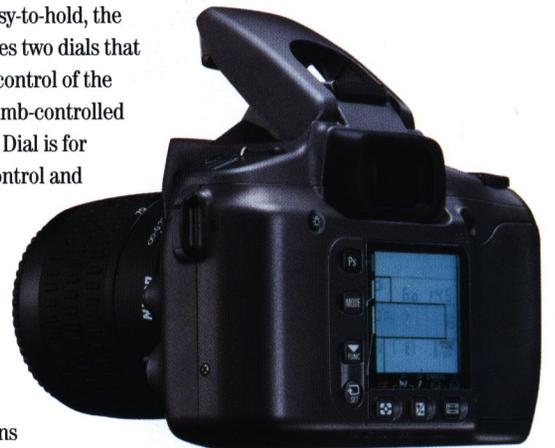
have a focal length of 20mm or longer.

Matrix Balanced Fill-Flash enables you to make brilliant natural-looking flash shots — indoors or outdoors. Additional flash features include flash bracketing, Rear-Curtain Sync, Slow Sync, Red-Eye Reduction and an ISO hot-shoe for an external Nikon Speedlight.



### ERGONOMIC CONTROLS

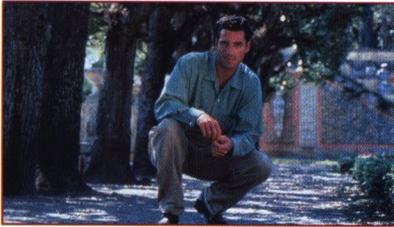
Compact and easy-to-hold, the Pronea 6i features two dials that give you simple control of the camera. The thumb-controlled Main-Command Dial is for shutter speed control and other exposure settings. The Sub-Command Dial is for changing apertures. There are additional dedicated buttons



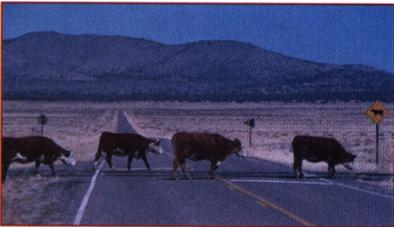
## VARI-PROGRAM MODES



Portrait Program



Hyperfocal Program



Landscape Program



Close-up Program



Sport Program



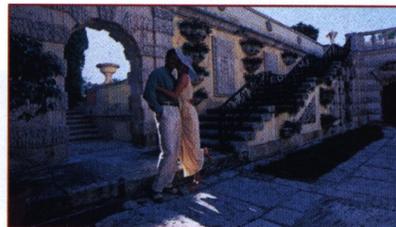
Silhouette Program

for frequently used functions. The LCD panel can be illuminated in the dark and provides comprehensive camera and Speedlight settings at a glance. You also get approximately 100% of the viewfinder image reproduced on each print, so you can see exactly how wide-vision H type, classic C type and panoramic P type prints look. The neck strap hinge is designed so you can comfortably view the big LCD panel with the neck strap attached.

### THREE ADVANCED EXPOSURE MODES

Choose from these exposure modes plus the use of Flexible Program. Select Manual to determine both aperture and shutter settings yourself.

- **Auto-Multi Program** Ideal for all-purpose picture-taking. The Pronea 6i's computer automatically selects both



shutter speed and lens aperture. Flexible Program lets you adjust the shutter speed and aperture in 1/2 EV steps while ensuring correct exposure.

- **Shutter-Priority** Auto Choose from a full range of shutter speeds — 30 seconds to 1/4000 second. Achieve anything from stop-action to motion effects.
- **Aperture-Priority** Auto Perfect for controlling depth-of-field. Use larger apertures to make the main subject stand out, or smaller apertures to bring more of the scene into sharp focus.

### VARI-PROGRAM MODES

Provides automatic setting convenience for a wide range of picture situations. Select

from Portrait Program, Hyperfocal Program, Landscape Program, Close-up Program, Sport Program and Silhouette Program.

### FOCUS AREAS

Select Wide-area AF with extra-wide coverage and cross-type center point, or switch to Spot AF for precise placement of the focus detection sensor.

### FILM ADVANCE MODES

Select single-frame film advance to forward the film to the next frame following each exposure. Choose continuous film advance to achieve approximately 3.5 frames per second.

### EXPOSURE COMPENSATION

Compensate your exposures within a range of + or - 5 EV automatically using the exposure compensation dial (1/2 steps).

### EXPOSURE AND FLASH BRACKETING

Auto and flash exposure bracketing lets you take three different exposures of the same scene in 1/2 or 1 EV steps.

### IX-NIKKOR LENSES

From the procurement of the raw materials to the final production process, Nikon lenses are manufactured to the highest standards. Accordingly, Nikon has designed three high-quality, compact, lightweight zoom lenses exclusively for the Pronea 6i: the IX-Nikkor 24-70mm f/3.3-5.6 lens for a versatile range of shots; the IX-Nikkor 60-180mm f/4.5-5.6 telephoto zoom that's ideal for portraits, sports or wildlife photography; and the IX-Nikkor 20-60mm f/3.5-5.6 zoom for wideangle and medium telephoto photography like landscapes and candid shots. All IX-Nikkor lenses are D-type AF lenses. The Nikon F mount found on the Pronea 6i allows you to use the full range of AF Nikkor lenses including AF-I and AF-S Nikkors.



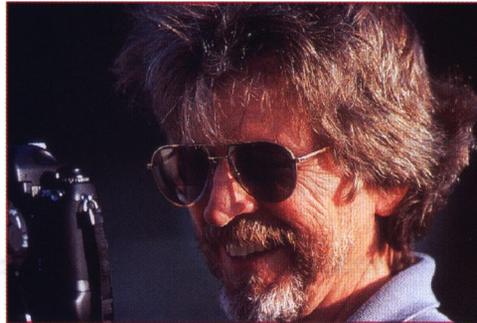


**NIKON SCHOOL  
PHOTO TIP:**  
TO CREATE AN  
ELEMENT OF  
DYNAMISM, FOLLOW  
THE RULE OF  
THIRDS. DRAW  
IMAGINARY LINES  
DIVIDING THE PIC-  
TURE INTO THIRDS  
HORIZONTALLY AND  
VERTICALLY, AND  
PLACE IMPORTANT  
SUBJECT AREAS ON  
THE INTERSECTIONS  
OF THESE LINES. A  
NIKON TYPE E  
FOCUSING SCREEN  
ALLOWS YOU TO SEE  
THIS GRID THROUGH  
YOUR VIEWFINDER.

#### FUN ON THE RUN

*"The Pronea 6i is everything you'd expect from Nikon. It's got all the advanced Nikon features — like 8-segment 3D Matrix Metering — in a lightweight, comfortable body. It's really sleek. And it's Advanced Photo System technology makes it so much fun to use for just about any picture-taking situation. You can change back and forth between different formats — now that's versatility! And the Pronea has three new dedicated Nikkor lenses. Best of all they're from Nikon, so you can be assured of crisp, clear images and the highest quality optics."*

Al Satterwhite



#### PRONEA 6i

- Superior features and performance
- Whisper-quiet operation
- 8-segment 3D Matrix Metering, Center-Weighted metering (65/35 balance), Spot metering (3.5mm diameter circle in center of viewfinder)
- Matrix Balanced Fill-Flash with built-in and accessory Nikon TTL Speedlights
- Five exposure modes — Manual, Shutter-Priority, Aperture-Priority, Auto-Multi Program and Vari-Program
- Nikon F lens mount
- AE/L lock button
- High-eyepoint viewfinder system with full information viewfinder
- Autofocus with Focus Tracking with Lock-on™ to 3.3 fps
- Top shutter speed 1/4000 sec.; top flash sync 1/180 sec.
- Single-frame, continuous low speed and continuous high speed film advance (3.5 fps)
- Built-in Speedlight with guide number 66 (ISO 200 feet)

Nikon Product Number: 12000 NAS

## NUVIS 125i

### IX240 COMPACT WITH 30-100MM POWER ZOOM

Enjoy high-quality pictures with the Nuvis 125i. With its 30-100mm f/4.3-9.2 Nikon power zoom lens, you can shoot landscapes, to portraits, to close-ups — all with sharpness and clarity. The Nuvis 125i features macro focus to as close as 2.6 feet. Use Infinity Focus for faraway scenes.

Nuvis 125i delivers brilliant flash pictures, automatically firing when light is dim. Or you can make the flash fire for every picture. Red-Eye Reduction gives you more pleasing people-pictures. Cancel flash operation or choose the Slow Sync setting for natural-looking night-flash pictures.

Get into the picture with the self-timer. An optional remote control allows you to take the picture from about 16 feet away. The Nuvis 125i measures only 4.6"W x 2.6"H x 1.9"D and weighs a mere 9.0 ounces without battery or film installed.



#### CERTIFIED PHOTOFINISHER

ADVANCED PHOTO SYSTEM CERTIFICATION GOES TO PHOTOFINISHERS THAT PROVIDE THE SERVICES NECESSARY TO MEET THE MINIMUM OR HIGHER STANDARDS OF THE ADVANCED PHOTO SYSTEM. THESE SERVICES INCLUDE CHOICE OF PICTURE TYPE (PRINT ASPECT RATIO), BACK-PRINTING, RETURNING FILM IN THE ORIGINAL FILM CARTRIDGE, INDEX PRINTING SERVICE AND PICTURE QUALITY IMPROVEMENT SERVICES (ACCORDING TO THE IX). YOU CAN IDENTIFY CERTIFIED PHOTOFINISHERS BY THEIR DISPLAY OF THIS LOGO.

## NUVIS 125

Includes same features as 125i except the 125 uses an Optical Information Exchange instead of Magnetic Exchange. Optical Information Exchange enables you to select the print type. Remote control option not available. Data imprint not available.

**Nikon Nuvis 125 Product Number: 12100 NCP**



## 125i

- Superior features and performance
- Wide-vision (H), Panorama (P) and Classic (C) print sizes available
- Drop-in film loading system (film automatically advances to first frame)
- Quiet operation
- Nikon Zoom 30-100mm f/4.3-9.2 lens
- Magnetic Information Exchange information recording system
- Infrared-active autofocus system
- Focusing range 2.6 ft. to infinity
- Real-image zoom viewfinder
- Built-in flash has four modes available (Auto Flash, Flash Cancel, Anytime Flash and Slow Sync Flash)
- Flash shooting range: 2.6-20.7 ft. at 30mm; 2.6-9.8 ft. at 100mm (ISO 200)
- Electronically controlled 10 sec. self-timer
- Auto exposure range (ISO 200): EV 8-17 at 30mm; EV 9.7-18 at 100mm
- Red-Eye Reduction lamp lights for approx. 1 sec. before flash fires
- Frame counter shown in LCD panel
- 4.6 x 2.6 x 1.9 in. (W x H x D); 9.0 oz. (without battery)

**Nikon Product Number: 12101 NCP**

## NUVIS 75i

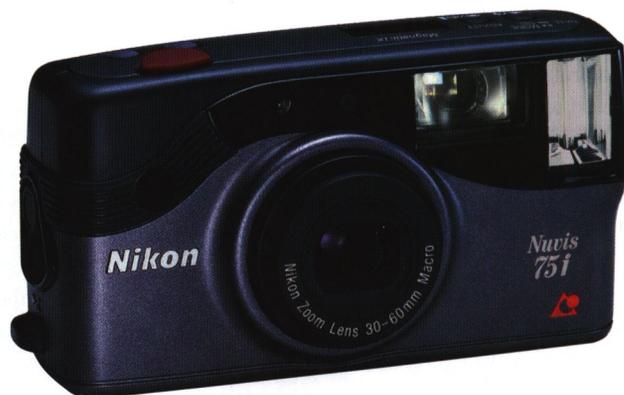
### IX240 COMPACT WITH 30-60MM POWER ZOOM

Get great color pictures with the Nuvis 75i. Its sharp Nikon 30-60mm f/4.5-8.5 zoom lens makes vibrant, colorful pictures—from wide to telephoto. And it's so easy to use! Shoot from infinity to 24 inches with macro performance.

Nuvis 75i automatically records information about each picture onto the IX240 film's Magnetic Information Exchange. In addition to recording date and time, special picture information is saved and used by a Certified Photofinisher to help picture quality improvements.

For brilliant flash pictures the Nuvis 75i is the camera for you. Nuvis decides when the flash is needed and automatically fires. Or you can fire the flash for only the pictures you want. Red-Eye Reduction minimizes red-eye, Slow Sync gives the background a more natural look, and you can cancel the flash for dramatically lit night shots.

The Nuvis 75i's built-in self-timer lets you get into the picture, and its optional remote control allows you to take the picture from as far as 16 feet away. The Nuvis 75i also has data imprint capability, recording year, month, day, hour and minute for each picture.



## NUVIS 75

Includes same features as 75i except the 75 uses an Optical Information Exchange instead of Magnetic Exchange. Optical Information Exchange enables you to select the print type.

Remote control option not available. Data imprint not available.

**Nikon Nuvis 75 Product Number: 12102 NCP**



## 75i

- Superior features and performance
- Wide-vision (H), Panorama (P) and Classic (C) print sizes available
- Drop-in film loading system (film automatically advances to first frame)
- Quiet operation
- Nikon Zoom 30-60mm f/4.5-8.5 lens
- Magnetic Information Exchange information recording system
- Infrared-active autofocus system
- Focusing range 2.0 ft. to infinity
- Albada-type bright-frame zoom viewfinder
- Built-in flash has four modes available (Auto Flash, Flash Cancel, Anytime Flash and Slow Sync Flash)
- Flash shooting range: 2.0-17.4 ft. at 30mm; 2.0-9.2 ft. at 60mm (ISO 200)
- Electronically controlled 10 sec. self-timer
- Auto exposure range (ISO 200): EV 7.4-15 at 30mm; EV 9.3-17 at 60mm
- Red-Eye Reduction lamp lights for approx. 1 sec. before flash fires
- Frame counter shown in LCD panel
- 4.5 x 2.5 x 1.5 in. (W x H x D); 7.0 oz. (without battery)

**Nikon Product Number: 12103 NCP**

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## NUVIS MINI *i*

### SUPER LIGHTWEIGHT AND COMPACT IX240 CAMERA

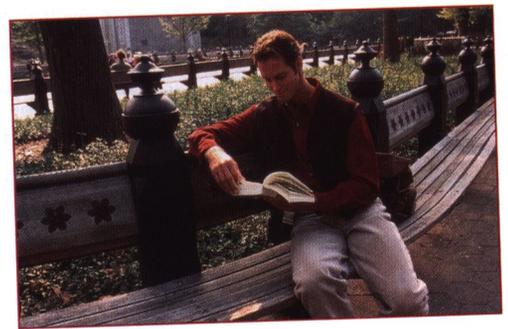
Creating a memorable album has never been easier than with the pocket-sized Nuvis Mini *i*. Featuring a wide 25mm f/4 Nikon lens, the Mini *i* gives you great shots from landscapes, to groups, to portraits. Autofocus assures sharp pictures, as close as 14 inches.

Nuvis Mini *i* benefits from the IX240 Magnetic Information Exchange (IX). It records date, time and picture data. It's also the smallest and lightest Nuvis model, measuring only 4.1"W x 2.3"H x 1.2"D. At 4.8 ounces, you'll want to carry it everywhere.

A built-in flash brightens dark scenes — automatically. Nuvis decides when the flash is needed and fires. Red-Eye Reduction minimizes red-eye. Slow Sync gives the background a natural look. Or, for dramatically lit night shots, cancel the flash. You can even make the flash fire for every picture — use it on cloudy or bright days to brighten dark shadows. With Nuvis Mini *i* the power to create unforgettable flash pictures is right at your fingertips.

Data imprint capability lets you record the year, month, day, hour and minute on each picture. A self-timer allows you to get in the picture, as well.

**Nikon Nuvis Mini *i* Product Number: 12105 NCP**



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## NUVIS MINI

The compact and affordable Nuvis Mini offers the same high-quality features of the Mini *i*, but with Optical instead of Magnetic Information Exchange. Optical IX provides your choice of print types.

**Nikon Nuvis Mini Product Number: 12104 NCP**



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## MINI *i*

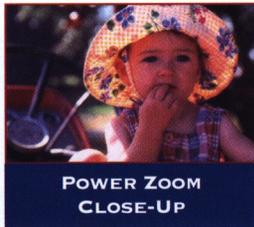
- Superior features and performance
- Wide-vision (H), Panorama (P) and Classic (C) print sizes available
- Drop-in film loading system (film automatically advances to first frame)
- Quiet operation
- Nikon 25mm f/4 lens
- Magnetic Information Exchange information recording system
- Infrared-active autofocus system
- Focusing range 14 in. to infinity (16 in. to infinity in Flash Cancel)
- Real-image viewfinder
- Built-in flash has four modes available (Auto Flash, Flash Cancel, Anytime Flash and Slow Sync Flash)
- Flash shooting range: 1.2-13.8 ft. (ISO 200)
- Electronically controlled 10 sec. self-timer
- Auto exposure range (ISO 200): EV 7-15
- Red-Eye Reduction lamp lights for approx. 1 sec. before flash fires
- Frame counter shown in LCD panel
- 4.1 x 2.3 x 1.2 in. (W x H x D); 4.8 oz. (without battery)

**Nikon Product Number: 1793 NAS**

# 35mm Compact Cameras

## GET IN TOUCH WITH THE BEST

*The greatest pictures in the world are taken with Nikon cameras, but that doesn't mean you have to be a professional photographer to get great results. Our "Touch Series" of compact 35mm cameras is designed for exceptional ease-of-use. You'll take more pictures. You'll remember more. And perfectly.*



and nylon wrist strap. The only thing about the Nice-Touch Zoom that's not out of this world is the price!

**Nikon Product Number: 1836 NCP**

## NICE-TOUCH ZOOM QUARTZ DATE

### A NIKON CAMERA FOR EVERYONE

Capture precious memories in pictures that will do any photo album proud. The Nice-Touch Zoom offers Nikon quality in a 35mm – 60mm zoom camera for everyone. Take a variety of sharp-looking pictures without ever having to make adjustments. Zoom in. Zoom out. Power Zoom operation is ready when you are. Built-in flash fires automatically when it's dark. Great outdoor shots, beautiful indoor shots or close-ups... all at the push of a button.

Just load the film and start shooting! Supplied with case



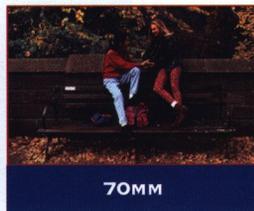
## LITE-TOUCH ZOOM 70

### A ZOOM SMALL ENOUGH TO TAKE ANYWHERE

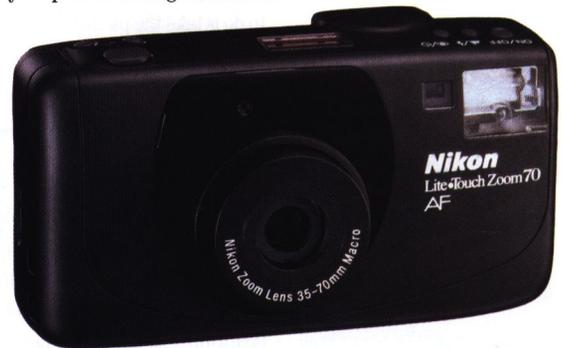
The fully automatic Nikon Lite-Touch Zoom 70 is one of the world's smallest and lightest 35mm AF zoom compact cameras. But don't be fooled by its stylish design, the Lite-Touch Zoom 70 has Nikon quality throughout and remarkable features to enhance your picture-taking. Zoom from 35mm for wide-view photos full of sharp detail,



to 70mm telephoto for rich, vibrant close-ups. An easy-to-use built-in flash fires automatically when it's dark for brilliant night

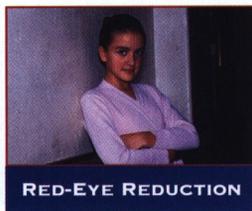


scenes, and the Red-Eye Reduction lamp will help make for really beautiful eyes. Slow Sync Flash gives the background a more natural look. Focus Lock allows you to recompose your pictures. Infinity Focus makes sure that every part of your picture is in the sharpest focus possible. Real-image zoom viewfinder helps you compose your shots. Autofocus and Nikon optics assures



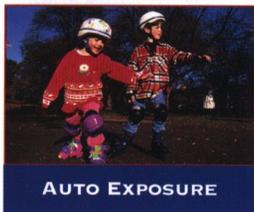
razor-sharp pictures. Plus you can make yourself a part of the picture with the built-in self-timer. The Lite-Touch Zoom 70 even has a built-in UV filter to protect the lens while you're taking pictures. But best of all, the pocket-sized Lite-Touch Zoom 70 is more than competitively priced!

**Nikon Lite-Touch Zoom 70 Product Number: 1838 NCP**



### NICE-TOUCH 3

#### GREAT PICTURES AT THE TOUCH OF A BUTTON



Focus free, for easy point-and-shoot 35mm photography. No need to worry about setting film speed or exposure. Automatic flash and automatic exposure help you take memorable pictures—with just the right lighting—indoors or out. A built-in flash fires automatically when it's dark for brilliant night scenes. Red-Eye Reduction also helps make your flash pictures of people look stunning. This lightweight, practical camera even allows you to take pictures as close as 4.3 feet. The Nice-Touch 3 also features a 31mm wideangle lens. So easy to use, you'll marvel at the great pictures and wonder how it could all be so affordable!

**Nikon Product Number: 1844 NCP**



### ONE-TOUCH ZOOM (& ONE-TOUCH ZOOM QUARTZ DATE)

#### SUPERIOR PHOTOGRAPHY MADE SIMPLE



This affordable fully automatic compact 35mm camera offers great picture-taking features—including a 38-70mm Power Zoom lens!

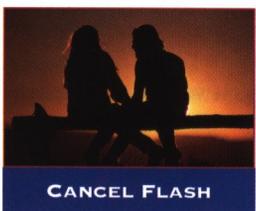
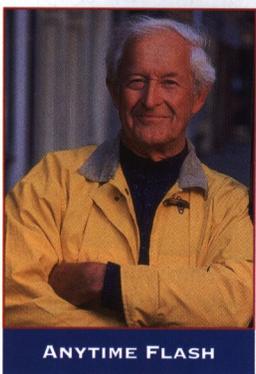
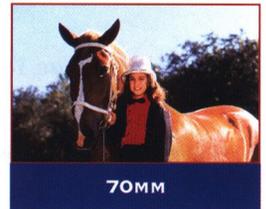
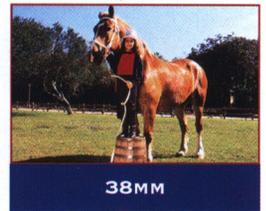
With the One-Touch Zoom's Power Zoom, you can easily get close-up shots and make great portraits. Shoot great wideangle shots and don't miss anybody. The One-Touch Zoom also features autofocus—simply point and shoot for sharp, clear pictures. There's nothing to set, and auto-exposure helps your pictures come out just right, every time. Built-in flash fires automatically when it's dark. Select from Anytime Flash for bright, colorful pictures, Cancel Flash for natural lighting, or Automatic Zoom Flash for extra sharp pictures indoors. Includes Red-Eye Reduction, auto

film handling, self-timer, and an easy-to-view zoom viewfinder. Just about all you have

to do is take the picture! The One-Touch Zoom Quartz Date model allows you to imprint pictures with the date or time.

**Nikon One-Touch Zoom Product Number: 1852 NCP**

**Nikon One-Touch Zoom Quartz Date Product Number: 1853 NCP**



### FUN-TOUCH 4

Choose the Nikon Fun Touch 4 for sharp and brilliant pictures at the push of a button! Features fully automatic operation, including built-in automatic flash and auto film handling. A built-in Red-Eye Reduction lamp minimizes annoying red-eye to make pictures of people really beautiful. Use Anytime Flash to brighten shadows. Use Cancel Flash to create dramatic silhouettes or sunsets. Case and strap included. Compact. Lightweight.

**Nikon Product Number: 1845 NCP**



#### NIKON SCHOOL PHOTO TIP:

WHEN SHOOTING A SCENIC, VARIATIONS OF ATTRACTIVE LIGHT ARE IMPORTANT. THE BEST ILLUMINATION COMES FROM EARLY-MORNING AND LATE-AFTERNOON LIGHT, WHEN THE SUN IS AT AN ANGLE OF LESS THAN 45 DEGREES.

# CoolPix

## PERSONAL DIGITAL CAMERAS

*Introducing the first compact digital cameras designed for business and destined to be used for personal photography, too. New CoolPix cameras are sleek, ultra-slim and at the cutting edge of today's electronic imaging technology. Available in PC Card and multimedia models, CoolPix cameras are the ideal solution when it comes to high-quality, cost-effective digital-image capture for an array of personal and business applications. Upload your images to your personal computer and instantly illustrate memos, letters and important documents where a picture is worth a thousand words!*



BATTERY-OPERATED COOLPIX 300

### ON THE CUTTING EDGE

New CoolPix Personal Digital Cameras redefine the words "cutting edge." Conceived from Nikon's professional digital SLR camera technology, CoolPix cameras offer high quality and cost-effectiveness. If you're a business image user now (or would be if the cost and performance were right) then the CoolPix Personal Digital Cameras are for you.

### A TECHNOLOGICAL MARVEL

Beyond all else, these are true Nikon digital cameras. Auto exposure, auto white balance, built-in Speedlight functions and close-up capability combine for exceptional flexibility in virtually every picture-taking location. Superb built-in Nikon lens clarity and sharpness help assure that every image you capture will carry the visual information you need.

### ULTRA-SLIM DESIGN FITS IN YOUR POCKET

You can't use a camera if you can't conveniently carry it with you. Especially in business where you might have an abundance of other items to carry, as well. CoolPix ultra-slim, dynamic vertical design means each CoolPix camera fits in a pocket, briefcase or purse. And once there, its compact size and light weight won't weigh you down.

### HAVE A GREAT WEEKEND, TOO!

CoolPix is a great business camera and it's a great personal camera, too! CoolPix Digital Cameras are ideal for weekends, outings, illustrating personal letters you compose on your computer, or sharing images and sounds over the Internet!

## COOLPIX 100

CoolPix 100 is a PC card type digital camera which enables high-speed, direct data transfer of high-quality images to a personal computer. Battery operated, the CoolPix 100 features a removable battery back section, allowing it to be inserted into an internal PC card drive. This direction allows images to be uploaded to the computer in seconds.

CoolPix 100 features 512 x 480 pixel resolution, auto exposure, and auto white balance for natural, true-to-life colors. A high-capacity flash memory allows you to store up to 40 images on one card in normal mode. Shoot close-ups with the CoolPix 100's macrophotography capability, and take advantage of the camera's built-in Speedlight to help ensure properly illuminated subjects every time. The CoolPix 100 also features a convenient vertical picture-taking orientation and measures just 60 x 152 x 33mm. A self-timer lets you be the subject of your own picture.

### NIKON SCHOOL PHOTO TIP:

**BUSINESS PHOTOGRAPHS NEED TO COMMUNICATE INFORMATION CLEARLY AND CONCISELY. FOLLOW SOME OF THE SAME RULES YOU WOULD IF COMPOSING OTHER PHOTOGRAPHS: MOVE IN CLOSE; FILL THE FRAME; USE FLASH TO PROPERLY EXPOSE THE PHOTOGRAPH; USE A PROP LIKE A RULER OR A COIN TO ESTABLISH SIZE; AND COVER YOUR SUBJECT FROM ENOUGH ANGLES TO REPRESENT THE VISUAL INFORMATION YOU ARE TRYING TO COMMUNICATE. COOLPIX PERSONAL DIGITAL CAMERAS ALLOW YOU TO INSTANTLY UPLOAD TO YOUR COMPUTER; BE SURE TO SORT AND FILE YOUR IMAGES FOR FUTURE REFERENCE!**

## COOLPIX 300

CoolPix 300 is a multimedia type digital camera which features high-quality image input, sound-recording and handwritten memo input. CoolPix 300 incorporates a built-in 2.5 inch color LCD, allowing you to review images instantly without having to upload them to a personal computer. This CoolPix model also offers handwritten memo input using an exclusive stylus pen, plus high-grade audio recording. Images captured with the CoolPix 300 can be transferred to a personal computer via SCSI or serial cable or viewed on a TV monitor.

CoolPix 300 features 640 x 480 pixel resolution and allows continuous shooting at 1 frame per second. Like the CoolPix 100, CoolPix 300 includes auto exposure and auto white balance for natural color rendition. Store up to 131 images in normal mode, and take advantage of the CoolPix 300's macrophotography capability for shooting close-ups. Built-in Speedlight helps assure great pictures, and a self-timer lets you be a part of the image. The CoolPix 300 measures just 78 x 150 x 32mm.



COOLPIX 100'S PC CARD DESIGN ENABLES YOU TO DOWNLOAD YOUR IMAGES QUICKLY WITHOUT THE NEED FOR CABLES OR SPECIAL ADAPTERS.

COMING LATE 1996!



COOLPIX 300'S LCD SCREEN LETS YOU REVIEW IMAGES INSTANTLY.

NEW COOLPIX 300 OFFERS HANDWRITTEN MEMO INPUT PLUS HIGH-GRADE AUDIO RECORDING. STORE UP TO 131 IMAGES IN NORMAL MODE. SHOOT AT 1 FRAME PER SECOND!

COMING EARLY 1997!

# Nikon Scanners

## THE POWER OF CHANGE

*For years Nikon has delivered the ultimate in photographic equipment. It's no wonder that today Nikon leads the world in desktop scanners that let you digitize, store, share and use your images in all-new ways. Using your desktop computer, you can even combine photographs and illustrations, or add special effects to create truly unusual digital compositions. All with the speed, precision and quality that only Nikon can deliver.*



### LS-1000 SUPER COOLSCAN

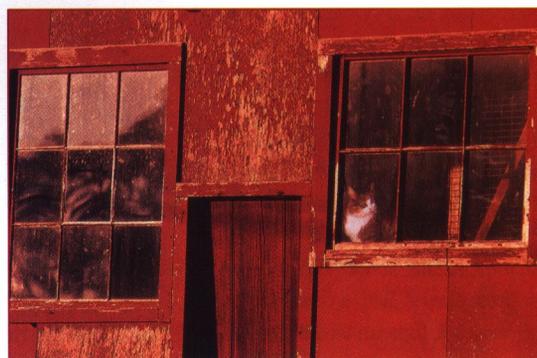
#### LET'S TALK QUALITY

Designed especially for professional desktop scanning applications, the award-winning LS-1000 is the fastest 35mm film scanner available today. Super Coolscan produces a 2700 dpi scan in approximately 40 seconds. Now you can reliably scan color or black-and-white 35mm negatives and transparencies with superior color fidelity and razor sharpness quickly and easily. Highly portable and rugged, the LS-1000 incorporates Nikon's new high-power light emitting diode (LED) illumination technology, which provides higher speed scans and helps produce uniquely faithful color reproduction from both negatives and slides. The LED-based design also affords very low power consumption, virtually no heat dissipation or noise, as well as long life and durability. The 12-bit A/D converter ensures scans with the widest dynamic range possible. The FH-2 filmstrip holder is included with

the LS-1000 Super Coolscan, enabling you to scan filmstrips up to six frames in length without having to cut the strip. Includes Nikon Scan software. For increased productivity and extra convenience, the optional SF-100 Auto Slide Feeder from Nikon allows unattended scanning on batches of 50-70 slides with the LS-1000. Wt. 4.2 lbs. Dim. 5.9 x 10.6 x 2.5".  
**Nikon Product Number: 9290 Mac/9291 PC**

### SF-100 AUTO SLIDE FEEDER

Allows unattended scanning of 50 - 70 slides.  
**Nikon Product Number: 9283**



#### TIME MACHINE:

**PHOTOGRAPHER/DIGITAL ARTIST JOE DRIVAS SHOT THIS RED BARN ABOUT 15 YEARS AGO WITH A NIKON F2 AND A 105MM F/2.8 MICRO-NIKKOR LENS. JUST RECENTLY, HE PHOTOGRAPHED HIS CAT, BENNY, WITH AN F4S AND A 105MM F/2.8D AF MICRO-NIKKOR. SCANNING BOTH 35MM TRANSPARENCIES ON HIS NIKON LS-1000 SUPER COOLSCAN, JOE THEN COMBINED THE IMAGES ON HIS MACINTOSH COMPUTER, CREATING TODAY'S CAT IN YESTERDAY'S WINDOW.**



LS-20E (AT LEFT) AND LS-20I

**LS-20 COOLSCAN II**

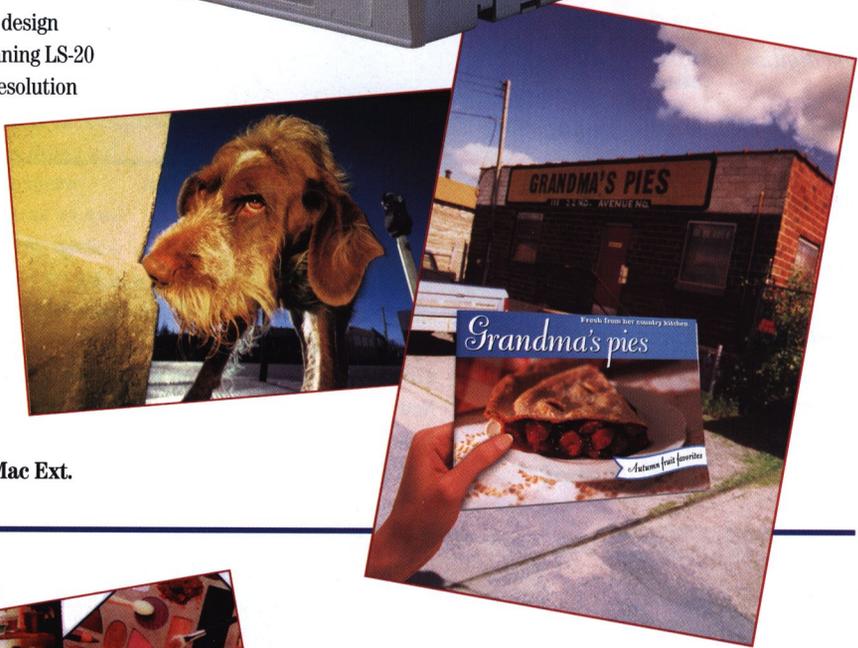
**HIGH PERFORMANCE PERSONAL SCANNING**

Featuring precision autofocus, an advanced, compact optical design and Nikon's new LED illumination technology, the award-winning LS-20 Coolscan II produces expert scanning results at the highest resolution in about 80 seconds. The affordable LS-20 is perfect for producing quality family photos, business collateral, and any other applications for photography in the home or office. You get professional features like precision autofocus, internal drive-bay mounting, slide and negative scanning and high 2700-dpi optical resolution – all designed to help you achieve the greatest possible performance and productivity. Included with the LS-20 is easy-to-use Nikon Scan software.

LS-20E: (External) Wt. 4.2 lbs. Dim. 5.9 x 10.6 x 2.5".

LS-20I: (Internal) Wt. 2.0 lbs. Dim. 5.8 x 8.3 x 1.7".

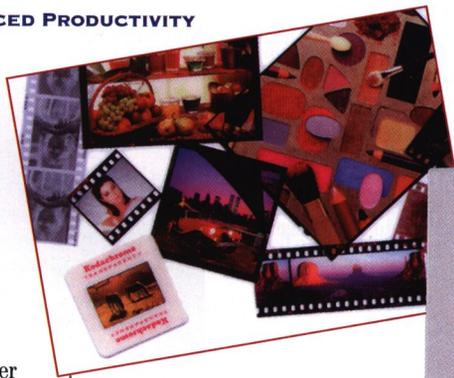
**Nikon Product Number: 9191 PC Ext./9192 PC Int./9193 Mac Ext.**



**LS-4500AF MULTI-FORMAT SCANNER**

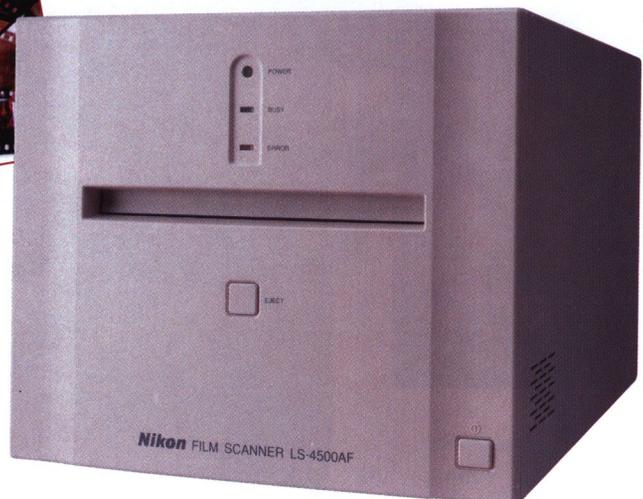
**NEW TECHNOLOGY FOR ENHANCED PRODUCTIVITY**

With the LS-4500AF Multi-format Scanner, Nikon has combined the advantages of several scanners into one. Optically matched to popular film formats like 35mm, 120 and 4x5, the LS-4500AF provides versatile full-time scanning production capability. The LS-4500AF is designed ideally for large-scale professional users such as commercial labs, service bureaus and pre-press houses. With a versatile carrier and mask set, film can be quickly mounted, rotated and inserted, streamlining your operation to achieve the ultimate efficiency. A precision 12-bit A/D conversion maintains wide dynamic range, while 3D color matrix processing tightly controls color accuracy. And its high-performance autofocus ensures consistently sharp and brilliant scans in just 120 seconds for full-frame 35mm at 3,000 dpi. The LS-4500AF is also an easy scanner to use, giving you the comprehensive controls you need for professional results.



Wt. 28.7 lbs. Dim. 11.6 x 16.5 x 9.8".

**Nikon Product Number: 9157 Mac/9158 PC**



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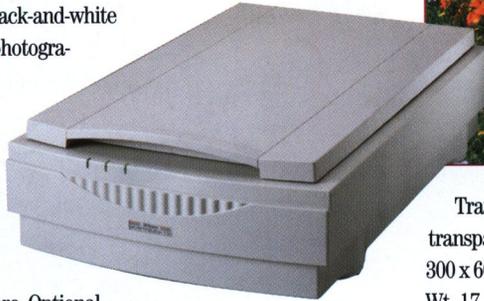
## SCANTOUCH AX-110

### SIMPLE TO OPERATE

Designed for home and small office use, the affordable Scantouch AX-110 color flatbed scanner scans color or black-and-white materials, including line art, with exceptional image quality. The AX-110 helps new and expert users handle documents and graphic-intensive applications more effectively, quickly and easily. While offering the same high-image quality, innovative design and reliability as other flatbed scanners in the Nikon line, the convenient AX-110 is offered in a low-cost package suitable for the home or small office.

Because it can scan documents, black-and-white drawings, reflective color art and photography up to 8.5 x 11.7", as well as transparencies and negatives up to 8x10, the AX-110 appeals to those who have a variety of casual scanning needs.

Precision optics ensure razor sharpness and bright, saturated colors. Includes Nikon Scan software. Optional accessories such as the AF-10 Automatic Document Feeder and the AT-10



Transparency Adapter allow the system to grow with the user's needs, as transparency and volume scanning requirements increase. Scanner resolution: 300 x 600 dpi hardware; 4800 x 4800 dpi software maximum. Wt. 17.4 lbs. Dim. 13.3 x 21.0 x 5.7".

**Nikon Product Number: 9273 Mac/9277 PC**

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## AF-10 AUTO-DOCUMENT FEEDER

Enables users to scan reflective documents ranging in size from 3 to 8.5" in width and 5 to 14" in length.

**Nikon Product Number: 9276**

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## AT-10 TRANSPARENCY ADAPTER

Enables the AX-110 to scan 35mm, 2 1/4" and even 8 x 10" transparencies and negatives.

**Nikon Product Number: 9275**

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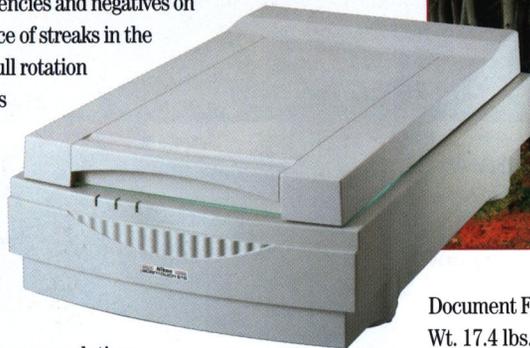
## SCANTOUCH AX-210

### SUPERB QUALITY

The Nikon Scantouch AX-210 is a color flatbed scanner designed for graphics applications and general office use with Macintosh and PCs. Incorporating Nikon's renowned optics to produce superior color fidelity and reliable crisp edge definition, the easy-to-use AX-210 also performs a fast 15-second color preview.

Users who regularly scan transparencies and negatives on flatbeds will appreciate the absence of streaks in the scan and the ability to perform a full rotation of a 4x5 transparency. Applications for AX-210 are vast, including desktop publishing, corporate communications, presentations, multimedia, document management, video and animation, photography, graphic design and architectural design.

Includes Nikon Scan software. Scanner resolution: 600 x 1200 dpi hardware; 9600 x 9600 dpi software maximum. AF-10 Automatic



Document Feeder and AT-20 Transparency Adapter options available. Wt. 17.4 lbs. Dim. 13.3 x 21.0 x 5.7".

**Nikon Product Number: 9252 Mac/9253 PC**

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## NIKON SCAN SOFTWARE

Exclusive Nikon Scan software, the Photoshop (TM) plug-in for Mac OS™ and TWAIN source for Windows® users, provides the seasoned graphics professional with a sophisticated tool set. The user-friendly Nikon Scan's controls feature real-time simulation in preview mode and include a full gamma editor with histogram, white- and black-point selection, as well as brightness, contrast and color channel sliders for overall cast correction.

These controls and a high-speed sharpening engine make scanning for press reproduction a snap. It also features modeless window operation with a preview area that can be enlarged to fit any screen, from the smallest notebook to the two-page high-resolution used for desktop publishing. A powerful zoom feature enables minute details to be examined at the preview stage, prior to final scan.

# NP-10 Coolprint

## DIGITAL COLOR PRINTER

*Now you can have your digital images (either scanned or from one of Nikon's digital cameras), and print them out, too! The Nikon NP-10 Coolprint produces full-color dye-sublimation prints in just 60 seconds. Your 3.9 x 5.5" prints will be tack sharp and brilliantly colored thanks to Coolprint's advanced color technology. Simple operation and light weight make it the only portable printing solution with legendary Nikon quality.*



### COMMITMENT TO EXCELLENCE

Nikon's NP-10 Coolprint is the latest innovation in digital printing designed especially for individuals that need quick desktop printing at low cost. In just 60 seconds the affordable NP-10 Coolprint produces quality full-color pictures from a range of 256 color gradations each for Cyan, Magenta and Yellow (16.7 million colors overall). Since it utilizes a dye sublimation process, NP-10 Coolprint is able to create superb continuous-tone images. Its single image buffer even allows you to print crisp and clear copies of an image without tying up your machine. And its ease-of-operation permits you to print out standard A6-size photo prints or adhesive label paper from Macintosh, IBM or any other application that contains an SCSI interface.

### WHAT'S INCLUDED

The NP-10 Coolprint package includes everything you need to run on Macintosh or PC platforms. It ships with an instruction manual, power cord, SCSI host adapter (for PC only), SCSI cable, sample paper package and driver software.

- NP-10 Coolprint
- Dye-sublimation digital printer
- 256 color gradations each for C, M, Y (16,700,000 colors)
- Resolution 142 dpi, 488 x 637 pixels
- Paper size 3.9 in. x 5.5 in. (99.6mm x 140.8mm)
- Print size 3.4 in. x 4.5 in. (87.1mm x 113.7mm)
- One image memory (built in print buffer)
- Printing time approx. 60 sec. per sheet
- SCSI-II Interface



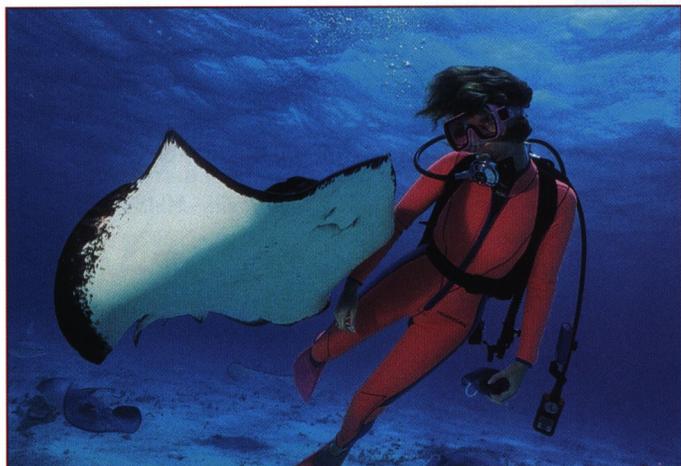
- 25-sheet cassette paper feed
- Power supply AC 100-120V, 50/60 Hz, 1.8A-1.5A
- Size: 10.3 x 4.5 x 15.2 in. (262 x 115 x 385mm)
- Weight: Approx. 11.0 lbs. (5.0 kg)

**Nikon Product Number: 9301**

# Nikonos Underwater Photography Systems

PLUNGE INTO A NEW WORLD OF PHOTOGRAPHIC OPPORTUNITIES

*A remarkable world awaits you. Exotic fish with blazing colors. Brilliant underwater seascapes. Fields of waving soft coral. Capture it all with Nikonos underwater photography systems, a complete line of gear designed specifically to meet the unusual demands of water, pressure and underwater light.*



.....  
**NIKONOS RS AF SLR — THE NEW ART OF UNDERWATER PHOTOGRAPHY**

Now there's an underwater camera that lets you forget the rigors of underwater photography. The Nikonos RS is the world's first underwater SLR (single-lens reflex) camera with Nikonos lenses designed specifically to take advantage of reflex capability. Lightweight, responsive, and packed with

high-tech features, the Nikonos RS works and feels like a part of you — even down to 328 feet below the surface.

.....  
**REFLEX VIEWING MAKES THE IMAGE COME ALIVE**

With the Nikonos RS, single-lens reflex viewing means achieving critical focusing and precise composition. And in murky conditions, or any other conditions for that matter, you'll appreciate the way the oversized action finder and Briteview finder



screen give you a clearer image. Viewing is made comfortable through the Nikonos RS's high-eyepoint action finder with 60mm eye relief and nine-degree offset angle. Hold the camera away from your mask and still obtain a bright, full image.

#### COMPREHENSIVE VIEWFINDER INFORMATION

Every bit of information you need to make stunning Nikon photographs appears on the RS's viewfinder LCD screen. You'll never miss an opportunity, because you'll never have to take your eye away from the viewfinder again. Complete focus, exposure mode, shutter speed and other critical information is clearly displayed.

#### ADVANCED

##### AUTOFOCUS SYSTEM

The Nikonos RS features four focusing options. All designed to let you concentrate on the action, while Nikonos does the work. Use Single-Servo Autofocus for most underwater situations. Focus Lock lets you recompose as you like, while keeping the subject in sharp focus.

Continuous-Servo Autofocus means the focus adjusts as your subject changes position. Focus Tracking automatically follows a moving subject, anticipating its precise location at the instant the aperture opens. Freeze Focus lets you set a pre-established focusing zone. When your subject enters the zone, the shutter is released. Power manual focus lets you handlespecial situations with fingertip ease.

##### APERTURE-PRIORITY AUTO AND MANUAL EXPOSURE MODES

The Nikonos RS features Aperture-Priority Auto Exposure control. You set

the aperture from  $f/2.8$  to  $f/22$ , and the RS automatically sets the shutter speed. Or choose manual exposure control where you set the aperture and the shutter speed — from 1 full second to  $1/2000$  of a second. Or, use bulb for long time exposures. Exposure compensation helps you obtain exposures that meet your specific demands.

#### MATRIX OR CENTER-WEIGHTED METERING

The Nikonos RS also features 5-segment Matrix Metering and matrix balanced fill-flash. The camera automatically determines just the right

exposure, even in difficult or rapidly changing light situations. Or switch to 75/25 Center-Weighted metering to emphasize a more specific area of the picture or Center-Weighted TTL auto flash.

#### DESIGNED FOR UNDERWATER

From its ergonomic design to its durable construction and superb features, the Nikonos RS brings true SLR convenience to underwater photography.

**Nikon Product Number:**  
11000 NCP



#### UNDERWATER TTL SYNC CORDS SC-101, SC-102 AND SC-103

Now, switching or sharing Nikonos Underwater Speedlights between cameras is easy — without surfacing. Attach the SC-103 end to each Nikonos RS or Nikonos V being used. The SC-101 is attached to any Nikonos Speedlight. Now connect or disconnect the SC-101 to the SC-103 underwater, and use one Speedlight with multiple cameras. For double Speedlight set-up, use the SC-102 in place of the SC-101.





**Nikon Product Number**  
SC-101 Open Water Sync Cord (For use with one Speedlight): 11224 NCP

**Nikon Product Number SC-102**  
Open Water Sync Cord  
(for use with two Speedlights): 11225 NCP



**Nikon Product Number**  
SC-103 Open Water Sync Cord (for cameras):  
11226 NCP

#### MC-100 REMOTE CORD

Enables remote firing of Nikonos RS. Also includes variable timer. Length 10'.

**Nikon Product Number MC-100 Remote Cord:**  
11100 NCP



#### NIKONOS RS LENSES

##### 13MM F/2.8 R-UW AF FISHEYE NIKKOR

A true full-frame underwater fisheye lens capable of rendering dramatic underwater panoramic images. Picture angle 170°. Underwater only. Close focusing to 6". Compatible with Nikonos RS.

**Nikon Product Number:**  
11013 NCP



##### 50MM F/2.8 R-UW AF MICRO-NIKKOR

The perfect amphibious lens for classic close-up fish portraits, macro photography and general photography. Automatic focusing continuously through the entire macro range up to 1:1.

**Nikon Product Number: 11011 NCP**



##### 28MM F/2.8 R-UW AF NIKKOR

A great companion for any dive. Allows you to take moderately wide shots, dramatic close-ups, or anything in-between. Underwater only. Focus as close as 10" for a reproduction ratio of 1:6.

**Nikon Product Number: 11010 NCP**



##### 20MM-35MM F/2.8 R-UW AF ZOOM NIKKOR

The world's first underwater zoom. You can't change lenses underwater, but with this popular lens you can zoom from 20mm to 35mm at the touch of a button. Crop in-camera, and capture shy subjects easily.

**Nikon Product Number: 11012 NCP**



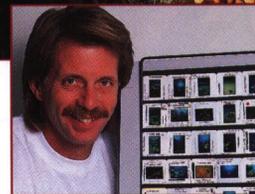
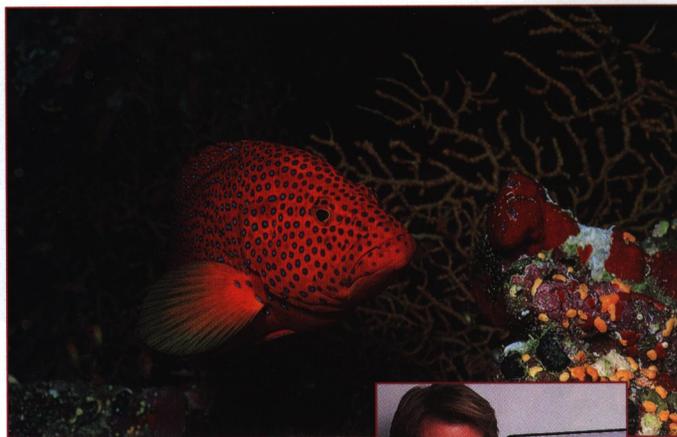
##### DK-100 EYEPIECE

Covers the RS viewfinder during long time exposures preventing extraneous light from entering the camera, which could affect the exposure. Recommended for use with MC-100 Remote Cord.

**Nikon Product Number:**  
11105 NCP



#### UNDER THE SEA



*"The handheld convenience of the Nikonos RS makes underwater photography much, much easier.*

*The combination of autofocus, high-eyepoint viewfinder and Briteview focusing screen are absolutely unbeatable."*

Stephen Frink

*Stephen Javil*

GET STARTED WITH THE NIKONOS-V SYSTEM



**NIKONOS-V CAMERA**

It's easy to take great pictures with this fun underwater camera. Just select your film speed, then pick a lens aperture that will provide you with the most desirable depth-of-field. With Aperture-Priority automatic exposure operation, the Nikonos-V

sets the right shutter speed for you — from 1/1000 of a second to 1/30 of a second for ambient light exposures. Also available is TTL auto-flash exposure control. Or, for greater creative control, you can opt for manual exposure. In either case, the

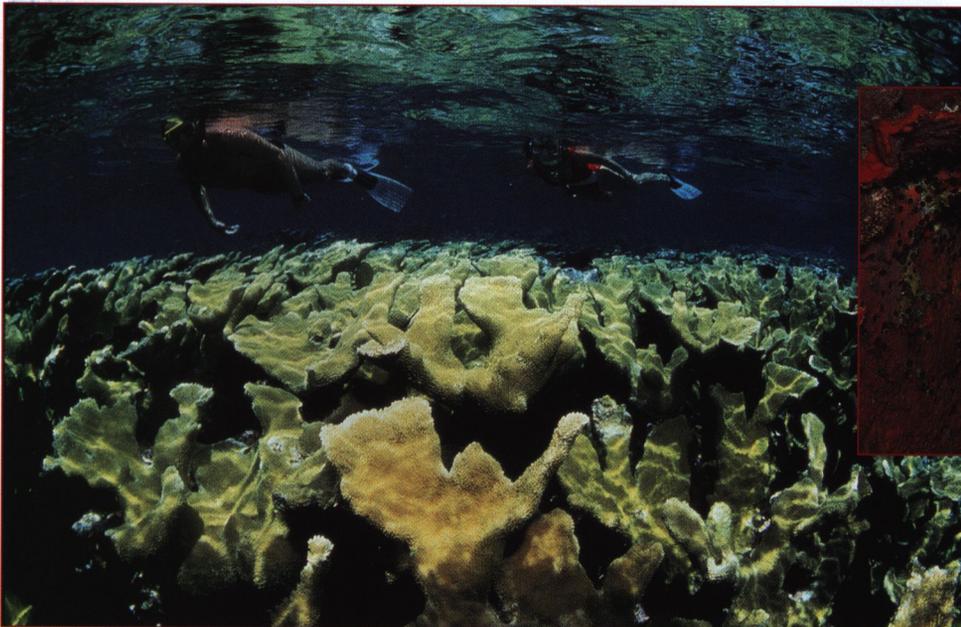
Nikonos-V shows you bright LED shutter speed and exposure information right inside the viewfinder. Ergonomically designed for easy operation with diving gloves or bare hands. O-rings allow for water-tight picture-taking down to 165 feet. Available in orange or green. Supplied with rubber neck strap, spare O-ring set, and 3V lithium battery.

**Nikon Product Number for Orange Nikonos-V:**

**10070 NCP**

**Nikon Product Number for Moss Green Nikonos-V:**

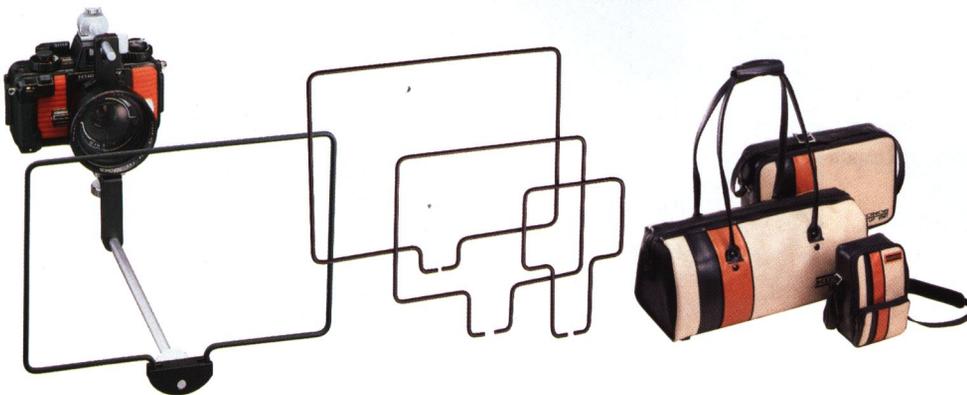
**10071 NCP**

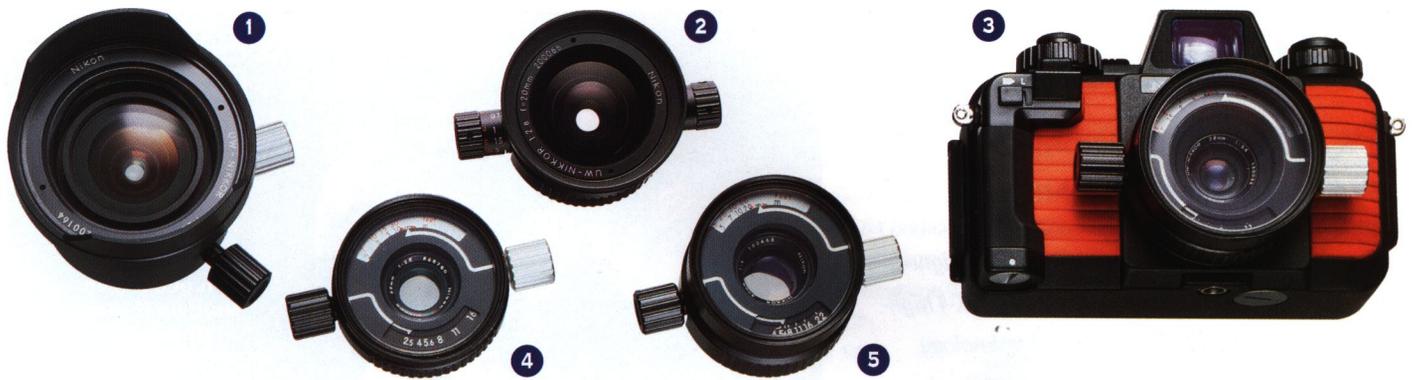


**NIKONOS CLOSE-UP OUTFIT**

Take beautiful close-ups of marine life with this comprehensive outfit. Includes a close-up attachment lens which can be mounted in front of a 28mm, 35mm, or 80mm lens (for reproduction ratios of 1:6, 1:4.5, 1:2 respectively), plus three field frames to match the area covered by these lenses. Camera-mounted frame support bracket allows you to determine precise camera-to-subject distance. Outfit comes with a handsome compartment case. (28mm, 35mm, and 80mm lenses not included.)

**Nikon Product Number: 10705 NCP**





**1 15MM F/2.8 UW-NIKKOR IC**

This underwater only, ultra-wideangle lens is ideal for capturing large scenes. Picture angle of view 94°. Close focusing to 1'. Optical underwater viewfinder DF-11. Enables automatic exposure measurement with the Nikonos-V. **Nikon Product Number: 10315 NCP**

**2 20MM F/2.8 UW-NIKKOR IC**

Great for up-close shooting (to 1.3') with the Nikonos-V. Underwater corrected for optimum sharpness. Underwater only. Picture angle 78°. DF-12 viewfinder available for compensating parallax. **Nikon Product Number: 10314 NCP**

**3 28MM F/3.5 UW-NIKKOR IC**

Wideangle lens for catching a whole school of fish in one shot with the Nikonos-V. Closest focusing distance of 2'. Underwater only. Picture angle of 59°. Repro-ratio 1:6 with close-up outfit. DF-12 viewfinder can be used with mounting mask. **Nikon Product Number: 10310 NCP**

**4 35MM F/2.5 W-NIKKOR IC**

35mm f/2.5 W-Nikkor IC. A useful general purpose amphibious lens for the Nikonos-V. Picture angle 43° 30' underwater (62° on land). Repro-ratio 1:4.5 with close-up outfit. This is the recommended lens for use with extension tubes for underwater macro photography. **Nikon Product Number: 10311 NCP**

**5 80MM F/4 NIKKOR IC**

An amphibious lens perfect for close-ups with the Nikonos Close-Up Outfit. Picture angle 22° 45' underwater (30° 20' land). Repro-ratio 1:2 with Close-up Outfit. **Nikon Product Number: 10312 NCP**

**NIKON CARRIES EVEN MORE UNDERWATER PRODUCTS AND ACCESSORIES. ASK YOUR DEALER FOR COMPLETE INFORMATION OR CALL 1-800-NIKON-US.**

**NIKON UNDERWATER SPEEDLIGHTS**

**SB-104 SPEEDLIGHT SET**

A high-performance flash unit designed to complement the advanced features of the Nikonos RS and Nikonos V. Underwater guide number 53 at ISO 100 with 100° flash coverage. Fast recycling time of only 3 seconds. Versatile flash controls: Choose TTL Auto or Manual flash output control (full, 1/4 or 1/16 power). Flash slave capability. 328 ft. capability. Supplied w/SK 104 Mounting Bracket Set, UW Sync. Cord, Spare O-ring Set. Powered by rechargeable, removable battery pack.

**Nikon Product Number: 11200 NCP**

**SN-104 NiCad Battery Pack for SB-104**

Up to 120 full power flashes. Quick recycle time of 3 seconds at full power.

**Nikon Product Number: 11211 NCP**

**SH-104 NiCad Charger**

Charges two SN-104 Battery Packs at one time. Quick charges each battery in two hours. Uses 110V or 220V 50Hz or 60Hz A.C.

**Nikon Product Number: 11212 NCP**



**SB-105 UW TTL SPEEDLIGHT SET**

A very affordable underwater flash unit designed for use with the Nikonos-V or Nikonos RS. Automatic through-the-lens (TTL) flash control for perfect exposures, including matrix-balanced fill-flash with Nikonos RS. 328 ft. capability. Built-in flash slave. Supplied w/MS-5 Battery Holder, SS-101, SW-103, O-ring Set, UW Sync Cord, Mounting Bracket Set; requires four 1.5V AA batteries (not included).

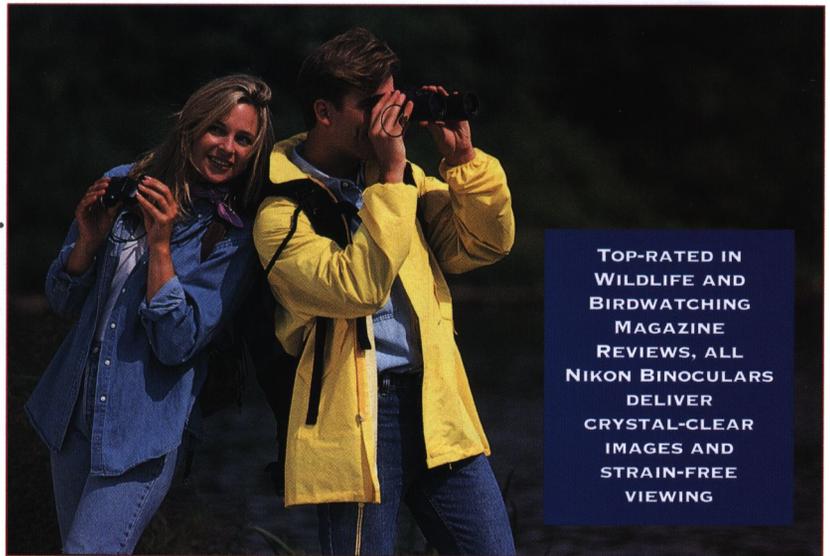
**Nikon Product Number: 11202 NCP**



# Binoculars

**IT'S A BEAUTIFUL WORLD;  
SEE IT BETTER WITH NIKON**

*Nikon binoculars are made with precision aligned, fully-coated Nikon optics incorporating BaK-4 high-index prisms. State-of-the-art optical technology, combined with quality Nikon construction and materials, provide you with unsurpassed clarity, brightness and strain-free viewing pleasure. Unbeatable optical performance and value. "Nikon Sport Optics...A better look at your world."*



TOP-RATED IN  
WILDLIFE AND  
BIRDWATCHING  
MAGAZINE  
REVIEWS, ALL  
NIKON BINOCULARS  
DELIVER  
CRYSTAL-CLEAR  
IMAGES AND  
STRAIN-FREE  
VIEWING

## NIKON SPRINT II SERIES



**7 x 21, 8 x 21, 9x 21, 10 x 21**

Features a slip-free, easy-to-hold grip and body design. Available in four central focus models, each Sprint II includes BaK-4 high index prisms, diopter control for strain-free viewing and multicoated optics at a surprisingly low price.

**Nikon Product Numbers:**

- 7 x 21 7330 NCP;
- 8 x 21 7331 NCP;
- 9 x 21 7332 NCP;
- 10 x 21 7333 NCP



## TRAVELITE IV COMPANION SERIES



**7 x 20, 8 x 23, 9 x 25, 10 x 25, 12 x 25**

Features a slip-free rubberized surface and click-stop diopter adjustment to maintain strain-free viewing. It also includes a new 12x power magnification. Perfect for sport and nature enthusiasts who require affordability, high magnification and lightweight carrying convenience.

**Nikon Product Numbers:**

- 7 x 20 7320 NCP;
- 8 x 23 7321 NCP;
- 9 x 25 7322 NCP;
- 10 x 25 7323 NCP;
- 12 x 25 7324 NCP



## SPORTSTAR COMPANION SERIES

**8 x 20 DCF, 10 x 25 DCF**

High power in a sleek pocket-size design makes this series popular with hikers and theater-goers alike. Quality roof prism design offers incredibly clear viewing.

**Nikon Product Numbers:**

- 8 x 20 DCF 7885 NCP;
- 10 x 25 DCF 7886 NCP



## COMPANION DELUXE

**8x23, 10x25 DIPLOMAT**

These extraordinary Porro prism binoculars redefine the word "sharp" in a compact, portable binocular. Featuring the cutting edge technology of aspherical (AS) lenses, these binoculars are rendered virtually free of distortion. You'll see edge-to-edge sharpness, with exceptionally bright images that combine high contrast with rich, true colors. The all metal body with sleek, beautiful lines and easy grip, two-tone rubber armor, makes for excellent handling and durability. Eyeglass wearers especially will enjoy the exceptionally long eye relief for a compact. A unique diopter control lock prevents your personal diopter setting from moving unintentionally. (10 x 25 not pictured.)

**Nikon Product Numbers:**

- 8 x 23 7896 NCP;
- 10 x 25 7897 NCP



Nikon  
Supports The  
**NATIONAL  
WILDLIFE FEDERATION®**  
Working for the Nature of Tomorrow



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**COMPACT ZOOM****8-20 x 25 EAGLEVIEW**

Sleek new design, zoom magnification and quality optics define Nikon's latest compact binocular. Feature-rich and sensibly priced, the new 8-20 x 25 Compact Zoom binocular is sure to be a winner with outdoor observers and sports enthusiasts.

**Nikon Product Number: 7325 NCP**



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**ACTION V SERIES****7 x 35, 8 x 40, 10 x 50, 12 x 50**

Offers a new ergonomic, sleek rubber-coated design with improved optics. Longer eye-relief makes viewing more pleasing to eyeglass wearers.

A new 12x magnification makes long distance viewing appear that much closer.

**Nikon Product Numbers:**

7 x 35 7315 NCP;  
8 x 40 7316 NCP;  
10 x 50 7317 NCP;  
12 x 50 7318 NCP



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**8 x 42, 10 x 42 ATTACHE**

New, sleek roof prism design provides long eye relief to eyeglass wearers. Features precision aligned, multicoated optics; smooth central focus; unsurpassed roof prism value; and click diopter control for strain-free viewing.

**Nikon Product Numbers:**

8 x 42 7309 NCP;  
10 x 42 7310 NCP



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**SKY & EARTH SERIES****7 x 35, 7 x 50, 8 x 40, 10 x 50**

Designed for serious birdwatchers and wildlife observers who demand quality and value. These full-size binoculars allow comfortable viewing for eyeglass-wearers. The Sky & Earth Series also features close focusing distance capability (ideal for birders), a click stop diopter control to maintain personal vision correction and large objective lenses for ultimate light gathering.

**Nikon Product Numbers: 7 x 35 7305 NCP; 7 x 50 7306 NCP;  
8 x 40 7307 NCP;  
10 x 50 7308 NCP**



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**SCOUTMASTER ZOOM II****7-15 x 35 SCOUTMASTER**

An ideal binocular for when you're way back in the stands, or up in the balcony. Offers a full view of the field or stage plus the ability to zoom right in for an up-close intimate view of the players.

**Nikon Product Number: 7864 NCP**



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**THE SEA N' SPORT SERIES.****BUILT TO LAST IN THE GREAT OUTDOORS.****8 x 30 DIF TRAILBLAZER, 8 x 23 AND 10 x 25 MOUNTAINEERS**

As their names suggest, these binoculars are powerful and tough. Waterproof and fogproof. Heavy-duty rubber-armed all metal construction. Extra-large central focus knob for fast focusing on the Mountaineers, (10 x 25 CF not pictured), and precise rugged individual eyepiece focusing for the Trailblazer.

**Nikon Product Numbers:**

8 x 30 DIF 7892 NCP; 8 x 23 CF 7846 NCP;  
10 x 25 CF 7845 NCP



**7 x 50 IF SPORTS & MARINE**

The ultimate waterproof, shock-resistant binocular to navigate the seas and trails. Excellent power-to-objective ratio offers the steadiest and brightest image possible. Multilayered, anti-reflection lens coatings ensure the maximum amount of ambient light is gathered and then enhanced for crisp, clear viewing — even on low-light, overcast days. Nautical navigation is a snap with our built-in compass and distance scale. These binoculars are also fully waterproof, fogproof, rubber-armed and shock-resistant to combat the uncertainties of rough seas and outdoor trekking. (Non-compass model not pictured.)  
**Nikon Product Numbers: 7869 NCP; Non-Compass Model 7996 NCP**



**10 x 40 DCF EXECULITE II, 8 x 32 DCF EXECULITE II**

Ultra-slim, ultra-lightweight, rubber-armed. Made for birdwatching or sports lovers who appreciate Nikon top-of-the-line precision optics as well as unmatched portability for a full field binocular with a low-light advantage. (8 x 32 DCF Execulite II not pictured).

**Nikon Product Numbers: 10 x 40 DCF 7888 NCP; 8 x 32 DCF 7887 NCP**



**THE CRITERION SERIES**

**7 x 35 E, 8 x 30 E, 10 x 35 E**

Offering the power and brightness of larger binoculars, the top-rated Criterion E Series binoculars feature micro-smooth-fast focusing, close-focus capability and superb edge-to-edge sharpness in unusually compact, lightweight bodies. (8 x 30 E, 10 x 35 E not pictured.)

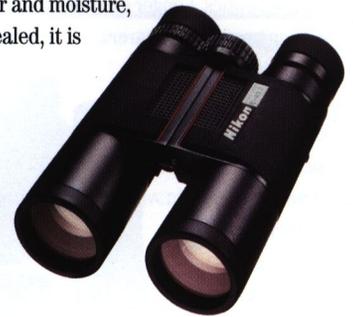
**Nikon Product Numbers: 7 x 35 E 780 NCP; 8 x 30 E 782 NCP; 10 x 35 E 784 NCP**



**8 x 40 DCF CLASSIC EAGLE**

This streamlined, all-metal roof prism central focus binocular offers discriminating birdwatchers and sports enthusiasts the perfect balance of weight, shape, and power. Purged of air and moisture, filled with nitrogen gas and securely sealed, it is waterproof and fogproof.

**Nikon Product Number: 7826 NCP**



**10 x 42 SUPERIOR E**

Designed for serious observers who seek the best! The 10 x 42 SE features extraordinary gripping ergonomics for comfortable viewing, a durable lightweight magnesium alloy body, eyewear friendly 17.4mm eye relief and an exceptional level of 10-power resolution never before attained. The unimpeachable "Better View Desired" optics review magazine rated the Nikon Superior E binocular the "Reference Standard" for Porro prism 10-power birding binoculars.

**Nikon Product Number: 7311 NCP**



**7 x 50 IF SP PROSTAR, 10 x 70 IF SP ASTROLUXE**

"The connoisseur's binocular" as stated in Astronomy Magazine. Pinpoint resolution, free from coma and virtually all spherical and chromatic aberrations; multi-coated optics provide unbelievable brightness and contrast; able to clearly identify stars half to a full magnitude fainter than those visible with ordinary binoculars. Waterproof and fogproof.

**Nikon Product Numbers: 7 x 50 IF SP 7789 NCP; 10 x 70 IF SP 7893 NCP**



Astroluxe

**8-16 x 40 ZOOM XL**

Micro-smooth central focus and zoom controls make the 8-16 x 40 Zoom XL the ultimate Porro prism zoom binocular. Superb optics provide unbelievable brightness and contrast at higher magnifications. One of the best zoom binoculars available today.

**Nikon Product Number: 7860 NCP**



Prostar

## 6 x 15 MONOCULAR



This ultra-compact monocular measures just 3.2" x 2.0". It's rugged, lightweight, and yet features Nikon multicoated optics for razor-sharp images. Flip the front lens piece and the monocular becomes a handy 9x magnifier — ideal for studying fine print, maps or small objects. The 6 x 15 monocular is the ideal, everyday companion for everything from reading distant street signs, to examining jewelry and other small items.

**Nikon Product Number: 7884 NCP**

## 20X NATURESCOPE



Designed to view extremely small subjects in their natural state at close range. Nikon's new 20x stereoscopic Naturescope can also be used in numerous close-up viewing applications in the home, office or laboratory. Features include an 11mm field of view, 12.6° angle of view, pivoting ocular eyepiece, diopter adjustment, internal 2.5 lumen halogen light and tripod mountable base.

**Nikon Product Number: 7313 NCP**



## DESIGNER BINOCULAR/CAMERA STRAPS

- Custom-styled strap with Nikon's logo
- Wide full-length reinforced design
- Dual-length adjustments
- For use with binoculars, cameras, etc.

**Nikon Product Numbers:**  
**Birding 831 NCP;**  
**Wildlife 832 NCP;**  
**Bear 833 NCP**

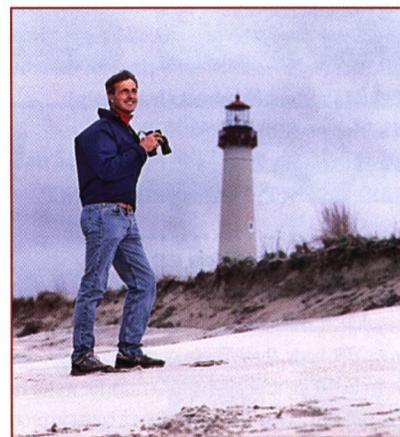


## HEAVENLY PERFORMANCE



*"When I'm out in the field, I want a binocular that's lightweight, easy-to-use and offers incredibly clear viewing. One that just feels right in your hands. The Nikon 10 x 42 Superior E is that binocular — it delivers all the goods. In fact, you could build a religion around this binocular."*

Peter Dunne



### HERE ARE THREE OF THE MOST COMMONLY ASKED QUESTIONS ABOUT BINOCULARS. THEY'LL HELP YOU DETERMINE WHICH BINOCULAR IS RIGHT FOR YOU:

**Q.** What do the numbers appearing on binoculars mean? For example, "7 x 35, 8.6."

**A.** The first number appearing on a binocular indicates its magnification. In this case, the "7" means that the subject will appear 7 times closer than it really is. For example, a subject that is 100 yards away, will appear to be only 14 yards away with a

"7 power" binocular. The "35" indicates the diameter in millimeters of the binocular's front (objective) lenses. With the power of the binocular as the only constant, the larger this number, the greater the ability of the binocular to gather light (important if you plan to use your binoculars in dim light). Actually, when it comes to gathering light, it's the "exit pupil" that really counts — see third question! The "8.6" indicates the binocular's "real angle of view." Angle of view is important because it translates to how much of the width of the subject can be seen at a certain distance. For example, if you were watching a soccer game or simi-

lar activity, you would want a wide angle of view to make sure you have a better chance of seeing all the action. There's a lot of terms and definitions here, but basically if you multiply the magnification (in this case, 7) by the real angle of view (8.6) you'll arrive at "apparent angle of view." Apparent angle of view is measured in degrees (in this case 60°). Smaller numbers indicate a narrow view; larger numbers indicate a wider view. If the number is greater than 60°, basically you have a wide-angle binocular.

**Q.** What is "diopter control" and why do you need it?

**A.** Most people have one strong eye and one weak eye. Diopter control is essential to regulate this imbalance. Without it, eye-strain can result. While many fixed focus binoculars do not have diopter control, all Nikon binoculars offer this important feature. It is usually located on the right eyepiece (see binocular instruction booklet on "How to Properly Focus a Binocular.")

**Q.** What is "exit pupil"? Is it important?

**A.** Exit pupil is the size of the round, white image appearing on the eyepiece lenses of the binocular. It's very important because the larger the "exit pupil," the more light

that reaches the eye. Basically, it must equal the size of your own eye's pupil to achieve maximum brightness. The human eye pupil ranges between 2 and 7 millimeters. Therefore an exit pupil of 7 or more, is ideal for night or dim-light viewing, as well as all other light situations. However, if you plan on using your binoculars only in bright sun, an exit pupil of 2-3 might be suitable. To determine exit pupil, divide the size of the objective lens by the magnification. In our example (7 x 35, 8.6"), this means an exit pupil of 5 (35/7 = 5). This would be suitable for all daylight use and into early dusk or dawn lighting (see chart above!).

### HUMAN EYE PUPIL RANGE: 2-7MM BRIGHT-DARK BINOCULAR EXIT PUPIL REQUIREMENTS

2mm	3mm	4mm	5mm	7mm
Bright Light Use	Average Daylight	Dawn and Dusk	Night, Boating And Anytime	
8 x 20	7 x 20	8 x 30	7 x 35	7 x 50
10 x 25	9 x 25	8 x 32	8 x 40	10 X 70
	8 x 23		10 x 50	

# Fieldsopes and Spotting Scopes

## FOR THE SERIOUS OBSERVER

*Designed primarily for serious birdwatchers and nature lovers, Nikon fieldsopes and spotting scopes deliver incredible power and crisp, clear viewing.*

### 60MM FIELDSOPES II

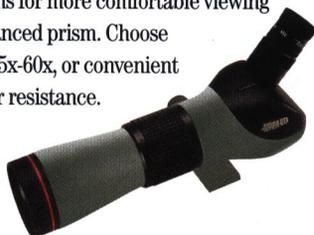
Available in both straight and 45-degree angled eyepiece with rotatable body design. Choose ED (Extra-Low Dispersion Glass) versions for exceptional optical performance. Choose angled versions for more comfortable viewing when standing. Nikon incorporates an advanced prism. Choose eyepieces ranging in magnifications from 15x-60x, or convenient 20x-45x zoom. Sealed with O-rings for water resistance.

**Nikon Product Numbers (body only):**

**Fieldscope EDII A 7839 NCP;**

**Fieldscope IIA 7838 NCP; Fieldscope**

**EDII 7895 NCP; Fieldscope II 7894 NCP**



### 78MM FIELDSOPES ED

Equipped with 78mm ED (Extra-low Dispersion) lenses, for the ultimate in image resolution, color and contrast. Available in straight or 45-degree angled eyepiece with rotatable body, these fieldsopes offer bright, clear images at far distances, even in low light. Sealed with O-rings for water resistance and comes with a case that doubles as a cover to protect your scope when mounted on a tripod. Add the 35mm photo attachment to turn your fieldscope (for Nikon cameras only) into a 1000mm f/12.8 super-telephoto lens.

**Nikon Product Numbers (body only):**

**78mm Fieldscope ED 7898 NCP;**

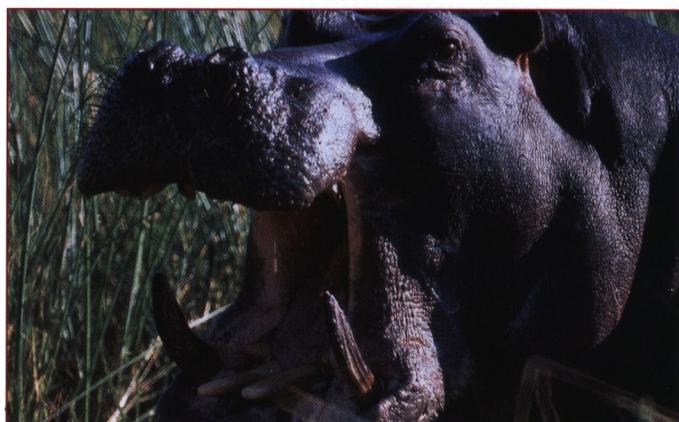
**78mm ED Angled 7899 NCP.**



### PHOTOGRAPHIC ATTACHMENT FOR FIELDSOPES

Record what you see through your fieldscope! Simply add the Nikon Photographic Attachment to your Nikon camera and your fieldscope instantly operates as an 800mm f/13.3 lens (1000mm f/12.8 with the 78mm Fieldscope). Share remarkable images with friends and fellow nature lovers. This attachment is not for use with spotting scopes or other brands of cameras.

**Nikon Product Number: 7770 NCP**



### OPTIONAL EYEPIECES FOR FIELDSOPES

Optional eyepieces for Nikon Fieldsopes let you choose your magnification. Please note: these eyepieces are not for use with spotting scopes.

**Nikon Product Numbers and Magnification Notes: 7772 NCP**

**15x (19x for 78mm scope); 7943 NCP 30x Wideangle (38x for 78mm scope); 7773 NCP 30x (38x for 78mm scope); 7774 NCP 40x (50x for 78mm scope); 7775 NCP 20x (25x for 78mm scope); 7811 NCP 60x (75x for 78mm scope); 7771 NCP 20x-45x (25x-56x for 78mm scope)**

### 24X/30X WIDE FIELDSCOPE EYEPIECE

Offers a real field of view of 2.4° for 78mm fieldsopes and 3.0° for 60mm fieldsopes. Also features 16.1mm of eye-relief for eyeglass wearers.

**Nikon Product Number: 7640 NCP**



### 60MM SPOTTING SCOPES

Nikon spotting scopes furnish excellent optical quality. Rubber-armed for superior shock resistance and reliable grip. Multilayer lens coating improves light transmission for clear images even in low-light conditions. Choose Nikon's basic 20x spotting scope or spotting scope with 15x-45x zoom eyepiece.

**Nikon Product Numbers: 20x60 RC Spotting Scope**

**7834 NCP; 15-45x60 RC Spotting Scope**

**7835 NCP; 20x60 RC Spotting Scope Angled**

**7500 NCP; 15-45x60 RC Spotting Scope**

**Angled 7501 NCP**



### 16-47 x 60 SPOTTER XL OUTFIT

Lightweight, compact roof prism spotting scope that incorporates all the finer features that offers a very broad 200m range from 16x-47x, phase correction coatings that provide superior resolution, and multilayer lens coatings that prevent light reflections and improve color rendition. The Spotter XL's waterproof, fogproof and rubber-coated construction makes it the most reliable companion to have. All this plus a 25-year limited warranty! The Spotter XL Outfit includes the Spotter XL Scope with case, Compact Field Tripod and Deluxe Carrying Case. The Spotter XL with case is available separately.

**Nikon Product Numbers: Spotter**

**XL Outfit 6901 NCP; Spotter**

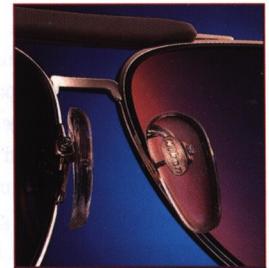
**XL with Case 7900 NCP**



# Nikon Eyewear

## THE HEIGHT OF FASHION AND PERFORMANCE

*In today's world no one wants to choose between style and substance. That's why Nikon sunglasses are just right for the times. Frames are fashion-forward, a collection of contemporary shapes and colors. Optics are pure Nikon, lightweight glass lenses that offer a crisp, clear view of everything under the sun. And stylish Nikon frames have custom fit features that deliver the ultimate in comfort.*



GIMBALED SILICON NOSE PADS ALLOW THE FRAME TO ADJUST TO YOUR FACE INSTEAD OF VICE VERSA



MANY STYLES FEATURE OPTICAL SPRING HINGES FOR COMFORT AND DURABILITY

### LX — LIGHT EXTREME

The ultimate choice for extreme light conditions. These self-adapting photochromic lenses adjust for intense sunlight and low-light settings. LX lenses feature polarizing filters, which allow light to pass through while virtually eliminating glare. Perfect around water and other highly reflective surfaces.



Copley 51101

Titan 51016



Aviator 51004

### LE — LIGHT ENHANCEMENT

Nikon LE photochromic lenses adjust to varying degrees of sunlight intensity, for dawn to dusk versatility. The gradient mirror reflects light from above, making LE lenses perfect for driving. And the LE's high-contrast copper tint reduces blue light and filters glare to improve visual acuity.



Monterey 52311

Prescott 52391



Sante Fe 52511

### GX — GLARE EXCLUDED

Nikon GX lenses have polarizing filters that cut through reflected glare. Double gradient mirrors, block sunlight from above and below providing a clear field of vision. The high-contrast copper tint is perfect for fly-fishing, while the neutral gray tint is ideal for a multitude of water sports activities.



Captain 53046

Pacifica 53401



Avalanche 53253

### CE — CONTRAST ENHANCEMENT

Nikon CE lenses are ideal for extreme light conditions found in rock climbing, snow activities like skiing, and other high-altitude pursuits. Full mirror coatings reflect intense light, while rose/amber and amber tints reduce blue light and sharpen visual acuity.



Sierra 54462

Solitude 54350



Inbound 54390

## SX — SUN EXCLUDED

Discover where form meets function. Classic frames romance the past, while newer styles provide a change of pace. Choose from gold, bronze and pewter antique metal frames, or luxurious plastics. Available in neutral gray or high-contrast brown tints, SX lenses deliver high-tech protection.



Venice 55262



Outbound 55381

## Oasis Collection



Bonaire 55421



Crete 55441

## Vitals Collection



VM-Oval 55550



V-Wrap 55521

## PRESCRIPTION FRAMES

For lightweight, quality design and durable construction, no one comes close to matching Nikon frames. Made from the finest materials, Nikon frames offer an array of features for a customized fit. Gimbale,

silicon nose pads, adjustable wire-core temples and spring optical hinges can all be found in various Nikon frames. (Nikon prescription frames available through your eyecare professional.)

## DURA-TITAN

Lightweight and durable, these frames are 100% titanium. Available in 16 unisex and women's styles.



DT4211



DT4212



DT4500

## CLASSICS

Nikon's proven styles, Classics feature traditional frames with 52 contemporary stylings. Many frames with spring hinges.



NK4307



NC4423



NK4622

## WAVE

With its popular European sensibility, the Wave Collection has an eye for fashion, as well as unrivalled performance. Features 12 cutting-edge styles.



WA7428



WA7419



LE7631

## NIKON KIDS

A full collection of frames for children ages 6-14. Nine styles offered in an exciting selection of shapes and sizes. Available in sizes 43mm-48mm.

(\* More styles are expected to be added to each line throughout the year.)



kd5205



kd5203



kd5302

## LIVING ON THE EDGE

"Extreme Skier" Kristen Ulmer knows what combining style and performance is all about. That's why she chooses Nikon. With Nikon sunglasses she gets the optical quality she needs, and the style that sets her apart. "Definitely,

Nikon is the only way to go. The second you put them on, everything appears clearer. Nikon sunglasses give me the confidence I need."

Kristen Ulmer



# Nikon—Helping You Take The World's Greatest Pictures. Yours.

Nikon's dedication to the finest in

photography extends far beyond its

commitment to produce only

state-of-the-art equipment. Nikon

offers you a comprehensive blend

of information, training and services

to sustain and advance your

photographic expertise.

## NIKON WORLD PORTFOLIO

Published four times a year including a special year-end calendar, Nikon World Portfolio presents the portfolios of some of the world's greatest photographers. Every issue features four outstanding photographers at the top of their game, and those whose skills and vision will make them tomorrow's greats. Nikon World Portfolio then goes behind the scenes to talk to the photographers and learn about their inspiration and motivation. In their own words, these expert photographers share unique techniques and insights they use to create the world's greatest photographs.

Each portfolio features a stunning selection of Nikon photographs taken with Nikon equipment. You'll learn which Nikon equipment they used and why,

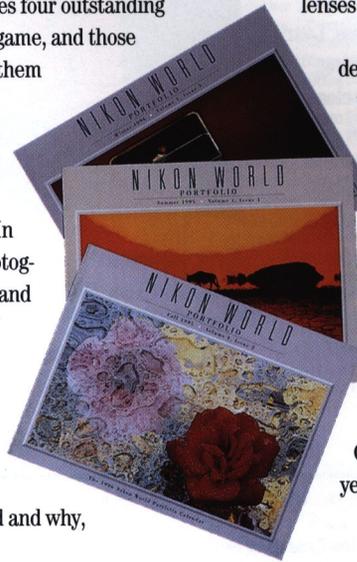
enabling you to make great images of your own. Nikon World Portfolio also offers the most up-to-date information on Nikon's latest cameras, lenses and accessories.

We invite you to be inspired and delighted by the best photography has to offer — to see and photograph your world with fresh eyes and new ideas. The world of Nikon photography is a very special place. Let us deliver it to you.

Nikon camera purchasers can subscribe by submitting the application form packed in the camera box, or simply calling **1-800-52-NIKON.**

### SUBSCRIPTION RATES:

One year, \$12.95; 2 years, \$23.95; 3 years, \$32.95. Back issues: \$4.00.



### Hands On

**Focus. Ever wonder how important Focus is? Ever wonder how important Focus is? Ever wonder how important Focus is?**

By Louise Newman

Focus is the key to creating a sharp, clear image. It's the difference between a blurry, out-of-focus shot and a sharp, in-focus one. In this article, we'll explore the importance of focus and how to achieve it with your Nikon camera.



### Hands On

**Lighting. Ever wonder how important Lighting is? Ever wonder how important Lighting is? Ever wonder how important Lighting is?**

Lighting is the key to creating a dramatic, high-contrast image. It's the difference between a flat, lifeless shot and a vibrant, high-contrast one. In this article, we'll explore the importance of lighting and how to achieve it with your Nikon camera.



### Hands On

**Composition. Ever wonder how important Composition is? Ever wonder how important Composition is? Ever wonder how important Composition is?**

Composition is the key to creating a visually appealing image. It's the difference between a cluttered, unbalanced shot and a clean, balanced one. In this article, we'll explore the importance of composition and how to achieve it with your Nikon camera.

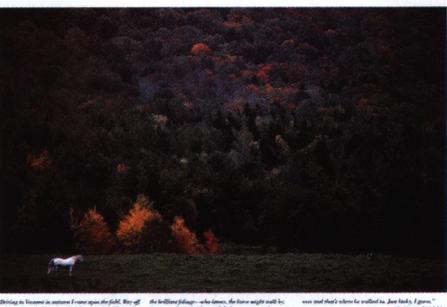


### The Long Run

**It's a long, long run.** When you get interested in photography, there are those wonderful first moments, that thrill of doing something for the first time. Those joys are your motivation, and they will always be your motivation. Some may say that every time you pick up the camera, it's just like the first time you picked up the camera—it's just as exciting. Photographers who are successful over the years have created a style that's as natural to them as the clothes they like to wear. You don't change that style as time goes by. You use your technology to serve the style—and you use the style to express new ideas and portray new subjects.

At some point in your work you realize that this is exactly where you want to be. There comes a point when you pick up the camera, it's just like the first time you picked up the camera—it's just as exciting. Photographers who are successful over the years have created a style that's as natural to them as the clothes they like to wear. You don't change that style as time goes by. You use your technology to serve the style—and you use the style to express new ideas and portray new subjects.





*"Being in Yosemite is a unique experience. The light is just what you need to create a great image. The colors are so vibrant, and the landscape is so beautiful. It's a truly amazing experience."*

*"The light is just what you need to create a great image. The colors are so vibrant, and the landscape is so beautiful. It's a truly amazing experience."*

## NIKON SCHOOL OF PHOTOGRAPHY

Nikon School is a celebration of photography — a place where you can let your imagination soar. We welcome every photo enthusiast, regardless of what camera you own.

The Nikon School has become famous for its practical effectiveness in teaching 35mm photography through its traveling one-day seminars. You get clear, practical information on the kinds of pictures you want. You'll find yourself among fellow enthusiasts who share a common goal — to explore new areas of photography and develop the skills they already possess. Learn about lens selection, exposure metering, composition, light, electronic flash, close-up photography and much, much more.

The complete Nikon School course is conducted twice in one weekend. You can attend all day Saturday, or all day Sunday from 9:00 a.m. — 5:00 p.m. Your \$95 fee includes a lunch and a special 157-page edition of the Nikon School Handbook — a \$24.95 value.

Attendance is limited, so enroll early.



**How to enroll** — Call 516-547-8666 to register by phone (have your Visa, MasterCard or American Express Card ready) or, write to:  
The Nikon School  
1300 Walt Whitman Road  
Melville, New York 11747-3064

**The Nikon School**

## NIKON SCHOOL VIDEO LEARNING SERIES

The award-winning Nikon School Video Learning Series brings professional photographers right into your living room. From cameras, flashes and accessories to learning the techniques the professionals know best, this intriguing series is a must for every Nikon owner.

Each video is filled with actual location footage of America's most-recognized photographers — Galen Rowell, Brett Froomer, Roger Ressmeyer, Joe McNally, Al Satterwhite, Jade Albert and an array of others.

Current titles include: F5, F4, N90/N90s, N50, N70, N8008s, N6006, N5005, SB-25/26 and SB-24 Speedlight videotapes (with quick-reference "Flashcards") and "Essence of Light."

Available this fall, the Nikon Masters Series will explore the hearts and minds of the world's greatest photographers and discover why they chose their respective professions. Titles include Photojournalism — with such masters as Eddie Adams, Joe McNally and Bernie Boston — Portraiture, Sports, and Wildlife Photography. Be sure to call for more information. Most Nikon School tapes are available at just \$29.95. To order any of the above videotapes

call toll-free:

**1-800-55-NIKON.**

Nikon's Full-Line Video Product Guide is available for just \$4.95 (\$3.00 postage and handling per order).



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Product	Product #	Page #	Price†	Product	Product #	Page #	Price†	Product	Product #	Page #	Price†
Right Angle Finder DR-3	2326 NCP	7, 66	\$234.00	Eyeiece Correction Lens N6006/6000 -3.0	2946 NCP	66	\$13.50	Type C Focusing Screen (F5)	2589 NAS	66	\$66.00
Rubber Eyecup DK-2 for F5, F4S, F3HP/F3/T	2406 NAS	7, 66	\$12.00	Eyeiece Correction Lens N6006/6000 -4.0	2947 NCP	66	\$13.50	Type D Focusing Screen (F3HP/F3/T)	2555 NAS	66	\$67.00
Rubber Eyecup DK-3 for FM2, FE2, FA	2362 NCP	66	\$12.00	Eyeiece Correction Lens N6006/6000 -5.0	2948 NCP	66	\$13.50	Type E Focusing Screen (F3HP/F3/T)	2556 NAS	66	\$67.00
Rubber Eyecup DK-6 for N90, N8008S	2393 NAS	66	\$12.00	<b>Fieldsopes</b>				Type E Focusing Screen (F4S)	2552 NAS	66	\$70.50
Rubber Eyecup DK-9 for N70	2969 NCP	66	\$7.25	60mm Fieldscope II	7894 NCP	108	\$670.00	Type E Focusing Screen (F5)	2586 NAS	66	\$66.00
Rubber Eyecup for N6006/N6000/N5005/N50	2939 NCP	66	\$6.75	60mm Fieldscope IIA	7838 NCP	108	\$810.00	Type E Focusing Screen (FM2)	2422 NCP	66	\$45.00
<b>Eyeiece Correction Lenses</b>				60mm Fieldscope EDII	7895 NCP	108	\$1,190.00	Type E Focusing Screen (N90s, N90)	2583 NAS	66	\$45.50
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 +0.5	2922 NAS	66	\$23.00	60mm Fieldscope EDII A	7839 NCP	108	\$1,300.00	Type E Focusing Screen (N8008s)	2581 NAS	66	\$45.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 +1.0	2919 NAS	66	\$23.00	78mm Fieldscope ED Angled Photographic Attachment for Fieldsopes	7898 NCP	108	\$2,040.00	Type EC-B Focusing Screen (repl.)	2585 NAS	67	\$125.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 +2.0	2920 NAS	66	\$23.00		7899 NCP	108	\$2,170.00	Type F Focusing Screen (F4S)	2513 NAS	66	\$70.50
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 +3.0	2921 NAS	66	\$23.00	<b>Eyeieces for Fieldsopes</b>				Type F Focusing Screen (F5)	2597 NAS	66	\$66.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 -2.0	2915 NAS	66	\$23.00	15x	7772 NCP	108	\$147.00	Type G1 Focusing Screen (fisheye F3HP/F3/T)	2557 NAS	66	\$67.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 -3.0	2916 NAS	66	\$23.00	20x	7775 NCP	108	\$147.00	Type G1 Focusing Screen (fisheye F4S)	2514 NAS	66	\$70.50
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 -4.0	2917 NAS	66	\$23.00	20-45x	7771 NCP	108	\$318.00	Type G1 Focusing Screen (F5)	2591 NAS	66	\$66.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 -5.0	2918 NAS	66	\$23.00	30x Wide-angle	7943 NCP	108	\$265.00	Type G2 Focusing Screen (wideangle F3HP/F3/T)	2558 NAS	66	\$67.00
Eyeiece Correction Lens F3 (w/DE-2) F3AF, F2 "0"	2914 NAS	66	\$23.00	30x	7773 NCP	108	\$147.00	Type G2 Focusing Screen (wideangle F4S)	2515 NAS	66	\$70.50
Eyeiece Correction Lens F4s, F3HP/F3 +1.0	2951 NAS	66	\$23.00	40x	7774 NCP	108	\$147.00	Type G2 Focusing Screen (F5)	2592 NAS	66	\$66.00
Eyeiece Correction Lens F4s, F3HP/F3 +2.0	2952 NAS	66	\$23.00	60x	7811 NCP	108	\$160.00	Type G3 Focusing Screen (F3HP/F3/T)	2559 NAS	66	\$67.00
Eyeiece Correction Lens F4s, F3HP/F3 -2.0	2953 NAS	66	\$23.00	<b>Filters and Filter Accessories</b>				Type G3 Focusing Screen (F4S)	2516 NAS	66	\$70.50
Eyeiece Correction Lens F4s, F3HP/F3 -3.0	2954 NAS	66	\$23.00	Complete Filter Listings		63-65		Type G3 Focusing Screen (F5)	2593 NAS	66	\$66.00
Eyeiece Correction Lens F4s, F3HP/F3 "0"	2950 NAS	66	\$23.00	52mm Filter Holder for AF-1 Nikkor	2471 NAS	64	\$121.00	Type G4 Focusing Screen (F3HP/F3/T)	2560 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA +0.5	2931 NCP	66	\$23.00	95mm Fitted case for all 95mm Filters	2298 NAS	64	\$24.00	Type G4 Focusing Screen (F4S)	2517 NAS	66	\$70.50
Eyeiece Correction Lens FM2/FE2/FA +1.0	2932 NCP	66	\$23.00	122mm Fitted case for all 122mm Filters	2299 NAS	64	\$34.00	Type G4 Focusing Screen (F5)	2594 NAS	66	\$66.00
Eyeiece Correction Lens FM2/FE2/FA +2.0	2933 NCP	66	\$23.00	AF-1 52mm Gelatin Filter Holder	2278 NAS	64	\$81.00	Type H1 (F3HP/F3/T)	2561 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA +3.0	2934 NCP	66	\$23.00	AF-2 72mm Gelatin Filter Holder (with hood)	2279 NAS	64	\$147.00	Type H2 (F3HP/F3/T)	2562 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA -2.0	2935 NCP	66	\$23.00	CA-1 Filter Pouch for all 52mm Filters	2307 NCP	64	\$40.00	Type H3 (F3HP/F3/T)	2563 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA -3.0	2936 NCP	66	\$23.00	CA-2 Filter Pouch for all 39mm Filters	2305 NAS	64	\$27.50	Type H4 (F3HP/F3/T)	2564 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA -4.0	2937 NCP	66	\$23.00	CP-3 Filter Case for all 52mm Filters	2291 NCP	64	\$6.00	Type J Focusing Screen (F3HP/F3/T)	2565 NAS	66	\$67.00
Eyeiece Correction Lens FM2/FE2/FA -5.0	2938 NCP	66	\$23.00	CP-4 Filter Case for all 62mm Filters	2378 NCP	64	\$4.50	Type J Focusing Screen (F4S)	2518 NAS	66	\$70.50
Eyeiece Correction Lens FM2/FE2/FA "0"	2930 NCP	66	\$23.00	CP-5 Filter Case for all 72mm Filters	2292 NCP	64	\$6.00	Type J Focusing Screen (F5)	2595 NAS	66	\$66.00
Eyeiece Correction Lens N90s/N90/N8008S +0.5	2961 NAS	66	\$23.00	Filter Adapter Ring UR-1 Filter Holder for AF-1 (repl)	2377 NCP	64	\$26.50	Type K Focusing Screen (F3HP/F3/T)	2551 NAS	66	\$67.00
Eyeiece Correction Lens N90s/N90/N8008S +1.0	2962 NAS	66	\$23.00	Gelatin Filter Holder for AF-1 (repl)	2469 NAS	64	\$107.00	Type K Focusing Screen (FM2)	2420 NCP	66	\$45.00
Eyeiece Correction Lens N90s/N90/N8008S +2.0	2963 NAS	66	\$23.00	Gelatin Filter Holder for AF-1 Nikkor	2461 NAS	64	\$132.00	Type L Focusing Screen (F3HP/F3/T)	2566 NAS	66	\$67.00
Eyeiece Correction Lens N90s/N90/N8008S +3.0	2964 NAS	66	\$23.00	HN-12 Hood for 52mm Circular Polarizing Filter	2470 NAS	64	\$135.00	Type L Focusing Screen (F5)	2587 NAS	66	\$66.00
Eyeiece Correction Lens N90s/N90/N8008S -2.0	2965 NAS	66	\$23.00	HN-13 Hood for 72mm Circular Polarizing Filter	2472 NAS	64	\$159.00	Type M Focusing Screen (F3HP/F3/T)	2567 NAS	66	\$67.00
Eyeiece Correction Lens N90s/N90/N8008S -3.0	2966 NAS	66	\$23.00	HN-29 Hood for 77mm Circular Polarizing Filter	518 NAS	64	\$47.00	Type M Focusing Screen (F4S)	2568 NAS	66	\$67.00
Eyeiece Correction Lens N90s/N90/N8008S -4.0	2967 NAS	66	\$23.00	Slip-in 39mm Holder for ED-IF Lens (repl)	539 NCP	64	\$51.00	Type M Focusing Screen (F5)	2521 NAS	66	\$70.50
Eyeiece Correction Lens N90s/N90/N8008S -5.0	2968 NAS	66	\$23.00	Slip-in 52mm Holder for 400mm/2.8 ED-IF (repl)	4613 NAS	64	\$60.50	Type R Focusing Screen (F3HP/F3/T)	2569 NAS	66	\$67.00
Eyeiece Correction Lens N90s/N90/N8008S "0"	2960 NAS	66	\$23.00	Slip-in Gel Holder for 400m/2.8 ED-IF (repl)	2220 NAS	64	\$86.50	Type S Focusing Screen (F3HP/F3/T)	2572 NAS	66	\$67.00
Eyeiece Correction Lens N6006/6000 +0.5	2941 NCP	66	\$13.50	Slip-in Gel Holder for ED-IF Lens (repl)	2459 NAS	64	\$179.00	Type T Focusing Screen (F3HP/F3/T)	2570 NAS	66	\$67.00
Eyeiece Correction Lens N6006/6000 +1.0	2942 NCP	66	\$13.50	Square (UV) Filter for 105mm/4.5 UV Nikor (repl)	2460 NAS	64	\$179.00	Type U Focusing Screen (F3HP/F3/T)	2571 NAS	66	\$67.00
Eyeiece Correction Lens N6006/6000 +2.0	2943 NCP	66	\$13.50	UR-2 Filter Adapter for 105mm/4.5 UV-Nikkor (repl)	2443 NAS	64	\$125.00	Type U Focusing Screen (F4S)	2522 NAS	66	\$70.50
Eyeiece Correction Lens N6006/6000 +3.0	2944 NCP	66	\$13.50	<b>Focusing Screens</b>				Type U Focusing Screen (F5)	2588 NAS	66	\$66.00
Eyeiece Correction Lens N6006/6000 -2.0	2945 NCP	66	\$13.50	Type A Focusing Screen (F3HP/F3/T)	2552 NAS	66	\$67.00	<b>Interchangeable Viewfinders</b>			
				Type B Focusing Screen (F3HP/F3/T)	2596 NAS	66	\$66.00	DA-2 Action Finder	2385 NAS	22	\$770.00
				Type B Focusing Screen (F4S)	2553 NAS	66	\$67.00	DA-20 AE Action Finder	2503 NAS	11	\$1,310.00
				Type B Focusing Screen (F5)	2510 NAS	66	\$70.50	DA-30 AE Action Finder	2507 NAS	7	\$1,650.00
				Type B Focusing Screen (FM2)	2598 NAS	66	\$66.00	DE-2 Eye Level Finder	2382 NAS	22	\$301.00
				Type B Focusing Screen (N90s, N90)	2421 NCP	66	\$45.00	DE-3 High-Eyepoint Finder	2386 NAS	22	\$491.00
				Type B Focusing Screen (N8008s)	2584 NAS	66	\$45.50	DG-2 Eyepiece Magnifier	2355 NCP	7, 22	\$94.50
				Type C Focusing Screen (F3HP/F3/T)	2582 NAS	66	\$45.00	DK-2 Rubber Eyecup	2406 NAS	7, 22	\$12.00
				Type C Focusing Screen (F4S)	2554 NAS	66	\$67.00	DK-4 Rubber Eyecup	2379 NAS	22	\$12.00
				Type C Focusing Screen (F5)	2511 NAS	66	\$70.50	DP-20 Multi-Meter Finder	2505 NAS	11	\$825.00
								DP-30 Multi Meter Finder	2504 NAS	7	\$675.00
								DR-3 Right-Angle Viewing Attachment	2326 NAS	7, 22	\$234.00
								DW-3 Waist-Level Finder	2383 NAS	22	\$192.00
								DW-4 6X Magnification Finder	2384 NAS	22	\$488.00
								DW-20 Waist-Level Viewfinder	2501 NAS	12	\$364.00
								DW-21 6X High Magnification Finder	2502 NAS	11	\$695.00
								DW-30 Waist-Level Finder	2505 NAS	7	\$385.00
								DW-31 6x Magnification Finder	2506 NAS	7	\$650.00

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Product	Product #	Page #	Price†	Product	Product #	Page #	Price†	Product	Product #	Page #	Price†
Rear Lens Unit 720mm ED Nikkor-T	1362 NAS	61	\$1,160.00	MC-30 Remote Cord	4660 NAS	8	\$84.50	Spotter XL Outfit	6901 NCP	108	\$820.00
Rear Lens Unit 800mm ED Nikkor-T	1361 NAS	61	\$1,210.00	ML-2 Modulite Remote Control Set	4641 NCP	80	\$555.00	Spotter XL Outfit with Case	7900 NCP	108	\$760.00
Rear Lens Unit 1200mm ED Nikkor-T	1363 NAS	61	\$1,550.00	ML-3 Modulite Remote Control Set	4645 NAS	19, 80	\$270.00	<b>Prescription Sunglass Frames</b>			
Screw-on Cap f/Rear Lens unit (repl) 36mm	1338 NAS	61	\$15.00	MR-3 Motor Terminal Release	4563 NCP	22, 80	\$60.50	Classics	NK4307, NK4423, NK4622	110	Call
Screw-on Cap f/Rear Lens unit (repl) 58mm	1339 NAS	61	\$26.50	Modulite Remote Control Bracket	4648 NAS	80	\$17.00	Dura-Titan	DT4211, DT4212, DT4500	110	Call
Slip-on Lens Cap (repl) 42mm	1330 NAS	61	\$7.75	Motor Remote Cord with Banana Plug MC-4A (3')	4583 NCP	80	\$55.50	Nikon Kids	kd5205, kd5203, kd5302	110	Call
Slip-on Lens Cap (repl) 54mm	1331 NAS	61	\$7.75	Motor Remote				Wave	WA7428, WA7419, LE7631	110	Call
Slip-on Lens Cap (repl) 60mm	1332 NAS	61	\$9.25	Motor Remote Trigger Cord	131 NCP	80	\$73.50	<b>Sunglasses</b>			
Slip-on Lens Cap (repl) 70mm	1333 NAS	61	\$9.25	MC-12A (10')	4586 NCP	8, 80	\$89.50	Avalanche	53253 NCP	109	\$160.00
Slip-on Lens Cap (repl) 80mm	1334 NCP	61	\$11.50	Wireless Radio Control Remote Set MW-2 Receiver (repl.)	142 NCP	80	\$1,365.00	Aviator	51004 NCP	109	\$300.00
Slip-on Lens Cap (repl) 85mm	1335 NAS	61	\$12.00	Wireless Radio Remote Control Set MW-2	141 NCP	80	\$2,840.00	Bonaire	55421 NCP	110	\$140.00
Slip-on Lens Cap (repl) 100mm	1336 NAS	61	\$15.00	Wireless Radio Remote Control Set MW-2 Transmitter (repl)	143 NCP	80	\$1,420.00	Captain	53046 NCP	109	\$90.00
Slip-on Lens Cap (repl) 31.5mm	1337 NAS	61	\$9.75	<b>Speedlights and Accessories</b>				Copley	51101 NCP	109	\$275.00
<b>Miscellaneous SLR Accessories</b>				52mm Adapter Ring for SB-21 (repl)	4598 NAS	74	\$24.00	Crete	55441 NCP	110	\$160.00
Anti-Cold Battery Packs				62mm Adapter Ring for SB-21 (repl)	4599 NAS	74	\$24.00	Inbound	54390 NCP	109	\$120.00
DB-2 for F Series, FM2N	3062 NCP	32	\$108.00	AA Battery Holder (repl)	3064 NCP	71	\$26.50	Monterey	52311 NCP	109	\$200.00
Anti-Cold Battery Packs				AA Battery Holder MS-5 (repl)	4552 NCP	71	\$24.00	Outbound	55381 NCP	110	\$120.00
DB-5 for N8008S	3068 NAS	32	\$147.00	AA Battery holder MS-6 (repl)	4553 NAS	74	\$24.00	Pacific	53401 NCP	109	\$180.00
Cable Release Adapter AR-8	669 NCP	32	\$7.25	AC Power Pack LA-2 (requires SC-21 power cord)	4506 NAS	74	\$456.00	Prescott	54462 NCP	109	\$200.00
Panorama Head AP-2	2028 NCP	32	\$236.00	Adapter Ring UR-3 (req. w/60mm Micro for AF Operation)	2396 NAS	74	\$36.50	Sierra	52391 NCP	109	\$200.00
Soft Shutter Release AR-9	4417 NCP	32	\$7.75	C-Cell Battery Pack SD-7 for SB-14 (repl.—comes with SC-16 Power Cord)	4520 NCP	69, 71, 74, 75	\$246.00	Santa Fe	52511 NCP	109	\$195.00
<b>Power Sources</b>				Case for Controller Unit SS-17 (repl)	4554 NAS	74	\$15.00	Solitude	54350 NCP	109	\$120.00
AS-1 Coupler	362 NAS	76	\$48.00	Case for Flash Unit SS-21 (repl)	4723 NAS	74	\$19.50	Titan-2	51016 NCP	109	\$295.00
AS-2 Coupler	363 NAS	76	\$57.00	Controller/Power Pack AS-12 for SB-21A (repl)	4565 NAS	74	\$472.00	Venice	55262 NCP	110	\$160.00
AS-3 Coupler	353 NAS	76	\$64.00	Controller/Power Pack AS-14 for SB-21B (repl)	4566 NAS	74	\$428.00	V-Wrap	55521 NCP	110	\$89.00
AS-4 Coupler	354 NAS	76	\$48.00	DC Power Pack LD-2 (requires SC-21 power cord)	4505 NAS	74	\$310.00	VM-Oval	55550 NCP	110	\$99.00
AS-5 Coupler	3059 NAS	76	\$68.50	Flash Sync Cord SC-11 for SB-11 (repl)	3056 NCP	71	\$22.00	<b>Teleconverters</b>			
AS-6 Coupler	3060 NAS	76	\$81.00	High Performance Battery Pack SD-8	4720 NCP	69, 71, 75	\$206.00	TC-14A 1.4x Teleconverter for Nikkor AF/AIS lenses 200mm or less	1400 NCP	58	\$409.00
AS-7 Coupler	3065 NAS	76	\$137.00	Mounting Bracket SK-4 (repl)	369 NCP	71	\$94.50	TC-14B 1.4x Teleconverter for Nikkor AF/AIS lenses 300mm or more	1401 NAS	58	\$850.00
AS-8 Coupler	4544 NAS	76	\$285.00	Mounting Bracket SK-5 (repl)	4539 NAS	74	\$99.00	TC-14E 1.4x Teleconverter for Nikkor AF-1 lenses	1995 NAS	58	\$715.00
AS-9 Coupler	4545 NAS	76	\$250.00	Power Cord SC-16 for SD-7 (repl)	4523 NCP	76	\$60.50	TC-20E 2x Teleconverter for Nikkor AF-1 lenses	1997 NAS	58	\$800.00
AS-10 TTL Multi-Flash Adapter	4560 NCP	75	\$64.00	Power Cord SC-21	4534 NAS	74	\$60.50	TC-20I 2x Teleconverter for Nikkor AF/AIS lenses 200mm or less	1403 NCP	58	\$409.00
AS-11 Flash Tripod Adapter	4561 NAS	75	\$64.00	Power Cord SC-21	4534 NAS	74	\$60.50	TC-30I 2x Teleconverter for Nikkor AF/AIS lenses 300mm or more	1404 NAS	58	\$850.00
AS-15 Hot Shoe Adapter	3066 NCP	32, 76	\$23.50	SB-11	311 NCP	71	\$550.00	<b>Underwater Nikons</b>			
DB-6 External Battery Pack	3069 NAS	13, 19, 32	\$377.00	SB-16A	4542 NAS	71	\$452.00	13mm f/2.8 R-UW AF Fisheye Nikkor	11013 NCP	101	\$2,480.00
MA-4 AC/DC Converter	42 NAS	13, 21	\$1,120.00	SB-16A Coupler to F3 (repl) AS-8	4544 NAS	71, 76	\$285.00	15mm f/2.8 UW-Nikkor IC	10315 NCP	103	\$2,190.00
MB-10 Multi-Power Vertical Grip	4627 NAS	18	\$255.00	SB-16B	4543 NCP	71	\$423.00	20mm f/2.8 UW-Nikkor IC	10314 NCP	103	\$960.00
MB-20 Compact AA Type Battery Pack	4631 NAS	12	\$72.00	SB-16B Coupler to ISO shoe (repl) AS-9	4545 NCP	71, 76	\$250.00	20mm-35mm f/2.8 R-UW AF Zoom Nikkor	11012 NCP	101	\$3,690.00
MB-21 High Speed Battery Pack	4632 NAS	12	\$256.00	SB-21A TTL Macro Speedlight (F3 shoe version)	4701 NAS	74	\$665.00	28mm f/2.8 R-UW AF Nikkor	11010 NCP	101	\$995.00
MB-22 External Power Regulator	4633 NAS	12	\$585.00	SB-21B TTL Macro Speedlight	4702 NAS	8	\$635.00	28mm f/3.5 UW-Nikkor IC	10310 NCP	103	\$488.00
MB-23 Multi-Power High Speed Battery Pack	4634 NAS	13	\$635.00	SB-23	4704 NCP	70	\$164.00	35mm f/2.5 UW-Nikkor IC	10311 NCP	103	\$236.00
MC-11 Power Connecting Cord for MA-4	132 NAS	13, 21	\$73.50	SB-26	4707 NAS	69	\$525.00	50mm f/2.8 R-UW AF Micro-Nikkor	11011 NCP	101	\$1,560.00
MC-22 Remote Cord	4652 NCP	19	\$76.00	SB-27	4708 NCP	70	\$350.80	80mm f/4 UW-Nikkor IC	10312 NCP	103	\$488.00
MC-28 External Power Cord	4658 NAS	13, 32	\$135.00	SB-140 UV-IR	4512 NAS	74	\$810.00	DK-100 Eyepiece (for RS)	11105 NCP	101	\$42.50
MC-29 External Power Cord	4659 NAS	19, 32	\$114.00	SC-17 TTL Remote Cord	4557 NCP	8	\$94.50	MC-100 Remote Cord	11100 NCP	101	\$364.00
MC-32 External Power Cord	4664 NAS	8	\$235.00	SC-23 TTL Sync Cord	4562 NCP	76	\$214.00	Nikonos Close-up Outfit	10705 NCP	102	\$530.00
MD-4 Motor Drive	120 NAS	21	\$615.00	Sensor Unit SU-3 (repl)	** NAS	74, 76		Nikonos RS AF SLR Camera	11000 NCP	100	\$3,550.00
MD-12 Motor Drive	102 NCP	24	\$505.00	Sensor Unit SU-2 (repl)	3055 NCP	71, 76	\$115.00	Nikonos-V for Moss Green	10071 NCP	102	\$800.00
MH-2 NiCad Battery Unit	126 NAS	21	\$317.00	Soft Case SS-16 (repl)	4551 NCP	71	\$25.50	Nikonos-V for Orange	10070 NCP	102	\$800.00
MH-20 NiCad Battery Charger	112 NAS	13	\$444.00	Soft Case SS-23 (repl)	4609 NCP	70	\$15.00	SB-104 Speedlight Set	11200 NCP	103	\$1,560.00
MH-30 NiMH Battery Charger	117 NAS	8	\$485.00	Soft Case SS-24 (repl)	4609 NAS	69	\$17.50	SB-105 Speedlight Set	11202 NCP	103	\$820.00
MN-2 NiCad Battery Unit	125 NAS	21	\$266.00	Soft Case SS-27	364 NCP	70	\$14.00	SC-101 Sync Cord	11224 NCP	101	\$182.00
MN-20 NiCad Battery Pack	111 NAS	13	\$238.00	SW-5UV Adapter (repl)	** NAS	74		SC-102 Sync Cord	11225 NCP	101	\$273.00
MN-30 NiMH Battery Unit	116 NAS	8	\$215.00	SW-5V Visible Ray Adapter (repl)	** NAS	74		SC-103 Sync Cord	11226 NCP	101	\$213.00
MS-10 Battery Tray	4628 NAS	18	\$26.00	SW-5IR Infrared Adapter (repl)	** NAS	74		SN-104 NiCad Battery Pack	11211 NCP	103	\$198.00
MS-11 Battery Tray	4629 NAS	18	\$33.50	TTL Macro Speedlight SB-21B (ISO shoe version)	4702 NAS	74	\$635.00	SH-104 NiCad Charger	11212 NCP	103	\$427.00
MS-21 AA Battery Holder	4637 NAS	13	\$22.00	Wide Angle Flash Adapter SW-3 (repl)	3057 NCP	71	\$15.00				
MS-23 6-Piece AA Battery Holder	4640 NAS	13	\$47.50	Wide Angle Flash Adapter SW-7 (repl)	4550 NCP	71	\$15.00				
MS-30 Battery Holder	4674 NAS	8	\$40.00	Wide Flash Adapter SW-8 (repl)	4546 NAS	74	\$27.50				
NB-100 NiCad Battery	5229 NAS	18	\$85.00	<b>Spotting Scopes</b>							
NC-100 NiCad Battery Charger	5230 NAS	18	\$254.00	15-45x60 RC	7835 NCP	108	\$690.00				
SK-6 Power Bracket Model	4724 NAS	75	\$439.00	15-45x60 RC Angled	7501 NCP	108	\$720.00				
SC-12 TTL Remote Cord	356 NCP	76	\$257.00	20x60 RC	7834 NCP	108	\$467.00				
SC-13 Sensor Remote	313 NCP	76	\$167.00	20x60 RC Angled	7500 NCP	108	\$500.00				
SC-14 TTL Remote Cord	3061 NAS	75, 76	\$108.00								
SC-15 Coiled Sync Cord	4524 NCP	76	\$34.00								
SC-17 TTL Remote Cord	4557 NCP	75, 76	\$94.50								
SC-18 TTL Multi-Flash Sync Cord	4558 NCP	75	\$51.00								
SC-19 TTL Multi-Flash Sync Cord	4559 NCP	75	\$64.00								
SC-24 TTL Remote Cord	3067 NAS	8, 75	\$97.50								
<b>Remote Control</b>											
AH-3 Tripod Mounting Adapter	4580 NCP	80	\$48.00								
Cable Release AR-3	664 NCP	80	\$22.00								
Cable Release AR-10	2670 NAS	79, 80	\$125.00								
Intervalometer MT-2	128 NCP	80	\$1,670.00								
MC-12B Remote Trigger Cord	4654 NCP	19	Call								
MC-20 Remote Cord	4650 NAS	8, 19, 80	\$165.00								
MC-26 Adapter Cord	4656 NAS	80	\$87.50								

† Suggested List Price.

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\*\* Special order.

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# Nikon®

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**COVER PHOTO: POETRY IN FLIGHT**

"A great sports photograph shows you something you can't otherwise see, freezing time and movement in a way the eye can't. Motion and emotion, the critical elements. I wanted this picture to be a tribute to the beauty and athleticism of these divers. By tracking them across the plane of focus, I could accomplish a complete sequence that captured from start to finish how these masters do their dives. At 8 fps, the F5's operation gave me the maximum opportunities to do just that. But the F5 is more than speed and accuracy — it's solid! It feels great in your hand; you just can't wait to turn it on and let it rip. There isn't another camera on the market that gives you as many autofocus options. And it of course incorporates Nikon's legendary metering system. I have so much confidence in the F5, I know it will bring my vision to the film, and that confidence affords me the luxury of spending all of my energy being creative. The camera does what creative people dream of: It gives me a chance to be a better photographer."



*Bill Frakes*