

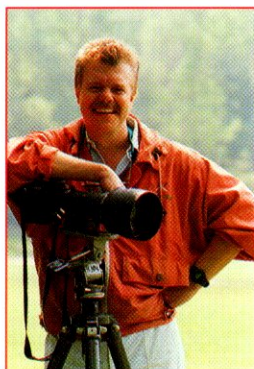
NIKON FULL LINE  
PRODUCT GUIDE

WE TAKE THE WORLD'S  
GREATEST PICTURES

\$4.95

**Nikon**





**COVER PHOTO: WHERE ART AND SCIENCE MEET**

Professional photographer Joe McNally combines Nikon technology with his sense of art and composition to render this superb low-light, balanced fill-flash photograph.

Made with a Nikon N90 camera, SB-25 Speedlight, a 20mm f/2.8 AF Nikkor ultra wide-angle lens and ISO 100 film, the photograph was created entirely in shutter-priority automatic exposure mode.

"My inspiration for this photo came from an old baseball shot where I tried to show a shortstop covering all sorts of positions on the field. The problem with the baseball shot was the use of mirrors and the reflected light patterns. It was a major set-up and metering problem.

"For this beach shot, I had a very short amount of time before the sun went down. Using the N90's eight-segment matrix metering, the camera compensated for all the contrasting light patterns. The SB-25's unique monitor pre-flash actually tested the scene for me, and made necessary adjustments to the flash level before the exposure was made. I set the shutter speed to a fifteenth of a second to create a feeling of movement, and the Nikon system did the rest. It worked like an extension of myself. Not only is this the only system that works this way, Nikon is the only 35mm equipment I trust."

*Joe McNally*

**Editor's Note:** More of Joe McNally's work appears in our "Building Your System" section on page 39.

Our thanks to the following photographers whose work is presented in this catalog:

Eddie Adams, Bernie Boston, Mike Corrado, Tim Davis, Jill Enfield, Brett Froomer, Enrico Ferorelli, Stephen Frink, John Huet, Michael A. Keller, William Pekala, Ray Porter, Roger Ressmeyer, Galen Rowell, James Russell, Al Satterwhite, Jeffrey B. Scholl, John Shaw and Lindsay Silverman. All photographs are the specific property of the photographers mentioned, and may not be reproduced in any way without their express permission.

Our thanks to TTL Helicopters and pilot Val Mazzucca for the Joe McNally photo sequence appearance in "Building Your System." Also model, Amy Graham, make-up, Peter Brown, and stylist, Dee Pool.



# WELCOME TO THE WORLD'S GREATEST PICTURES

*This Nikon Product Guide was created to help you select your Nikon camera and accessories. Throughout you'll find complete product information, photo tips and actual descriptions of how some of America's most famous photographers use Nikon equipment every day.*

*In addition to this guide, other Nikon brochures are available on individual cameras, lenses, accessories, close-up equipment and speedlights.*

*The final pages of this guide tell you how to obtain Nikon service, attend a Nikon School session near you, subscribe to Nikon World magazine, or send away for copies of Nikon School video learning cassettes.*

*We and your Nikon Advanced Systems or Consumer Products Dealer want to help you make the world's greatest pictures. Let us know how we can help.*

## QUESTIONS?

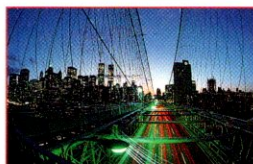
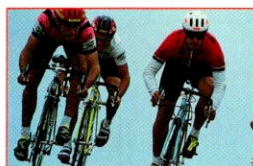
Call Nikon at 1-800-NIKON-US

Or write: Nikon Consumer Relations,

190601 Hamilton Avenue, Torrance, CA 90502 U.S.A.

## 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.



## WHAT YOU'LL FIND INSIDE

### Introduction

The Nikon Difference..... 2

### Advanced Cameras with Dedicated Accessories

F4S..... 4

F3HP & F3/T ..... 9

N90 ..... 13

N8008s ..... 17

N6006 ..... 20

N6000 ..... 21

N5005 ..... 23

FM2N..... 25

35Ti..... 27

### 35mm Lenses

Construction and Performance ..... 29

Fisheye..... 31

Ultra Wideangle..... 31

Wideangle..... 32

Normal ..... 33

Telephoto ..... 34

Reflex..... 35

Zoom ..... 36

Specialty ..... 37

Special Feature: Building Your Nikon System..... 39

### 35mm Lens Accessories

Teleconverters..... 42

Lens Hoods..... 44

Lens Caps ..... 44

Filters..... 45

### Focusing Screens and Viewfinder Accessories

Complete listing..... 47

### Camera Cases and Lens Cases

Complete listing..... 48/49

### Lenses for Large Format Cameras

Complete listing..... 50

### EL Nikkor Enlarging Lenses

Complete listing..... 51

### Speedlights

SB-11, SB-14, SB-16A&B, SB-20,

SB-21A&B, SB-23, SB-25, SB-140..... 52

Flash Compatibility Chart ..... 59

### Close-up

Complete listing of products and accessories ..... 60

### Remote Control

Cables, wireless, Intervalometer ..... 63

### Miscellaneous SLR Accessories

Miscellaneous SLR Accessories..... 64

### Compact Cameras

Complete listing with features chart ..... 65

### Underwater

Partial listing of cameras and accessories ..... 67

### Sunglasses

Overview of styles, features ..... 70

### Binoculars

Complete listing..... 71

### Nikon Services and Offerings

Nikon World, Nikon School, Gallery, Video Series ..... 74

### Product Index

Alphabetical listing with page numbers..... 76

## Nikon Consumer Products Dealers (NCP)

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# THE NIKON DIFFERENCE

*Why is Nikon the choice of photographers everywhere?*

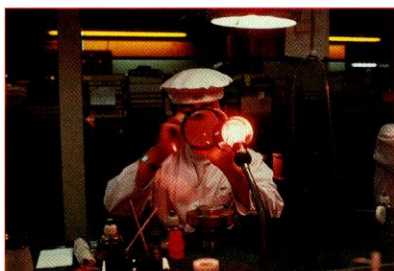
*Why is Nikon NASA's choice for out-of-this-world photography?*

*Why does "Nikon" instantly bring to mind quality, innovation  
and remarkable photographs?*

*The answer is you. For over 30 years, you have helped Nikon set  
the standards for 35mm photography. Today, Nikon cameras, lenses  
and accessories continue to be designed to accomplish one thing —  
satisfy your passion for making great photographs.*



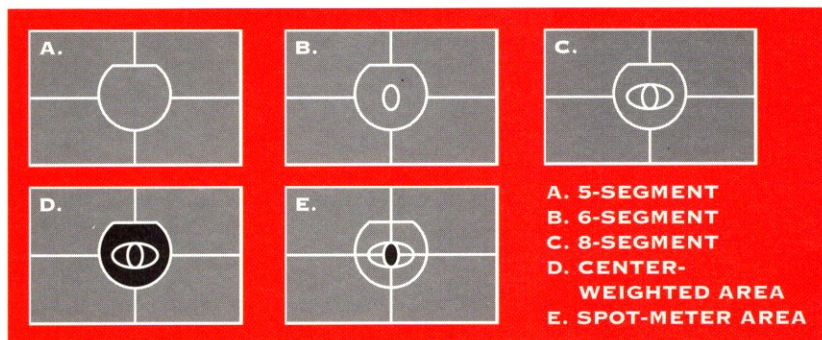
## THE CLEAR DIFFERENCE — NIKON OPTICS



One of the most important parts of any camera is the optics through which light passes. Impurities or manufacturing defects can lead to unimpressive photographic results. That's why Nikon manufactures its own optical glass. It's your assurance that every piece of Nikon glass conforms to exacting Nikon quality standards.

## ADVANCED METERING SYSTEMS

Nikon pioneered and continues to lead in the area of multi-pattern or "matrix" light metering. Working almost as you would, the system breaks the scene down into individual segments.

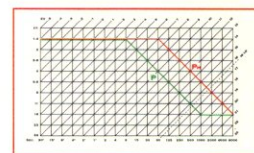


Unlike many other metering systems, Nikon systems evaluate the segments for both brightness and contrast. Then, employing fuzzy logic, proper exposure is determined. You can also select center-weighted metering for portraits or other photographs, or spot-weighted metering to concentrate your exposure in a tiny area of the viewfinder.

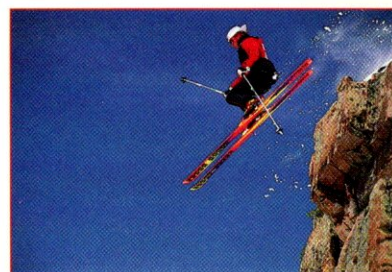
## AUTOMATIC AND MANUAL EXPOSURE MODES

Almost all Nikon advanced cameras feature four exposure modes.

**Programmed Mode** This mode determines both aperture and shutter speed. It follows one or more program curves designed to avoid camera shake, and adjusts automatically for the focal length of the lens. With most Nikon advanced cameras, you can even adjust the program, using Flexible Program, to produce exactly the kind of photos you want.



**Aperture Priority** With this mode, you set the desired aperture while the camera sets the shutter speed. Smaller aperture settings, such as f/11 and f/16 offer greater depth-of-field. Wider





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 freeze the action with higher speeds.

**Manual** You determine the aperture. You determine the shutter speed. Create exactly the effect you're looking for, based on your own experience and expertise.

**Exposure Lock** With many Nikon advanced SLRs, a flip of a switch locks the exposure. The system then memorizes the exposure value for the scene, allowing you to recompose the photograph any way you like.

**Exposure Compensation Dial** Depending on camera model, compensate your exposures within a range of  $+/-5$  EV in  $1/3$  steps. Make your photographs lighter or darker, to meet your specific objectives.

#### HIGH SPEED MOTOR DRIVE

Driving your camera is Nikon's motorized film advance. Depending upon your camera model, use single-frame advance, low-speed film advance (about three frames per second), or high-speed film advance (about five frames per second).

#### ADVANCED AUTOFOCUS WITH EXCLUSIVE FOCUS TRACKING

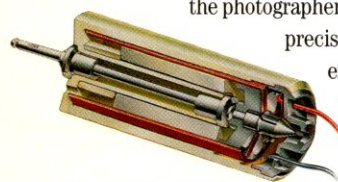
Incorporating high-speed coreless motors and advanced AF sensor modules, Nikon's advanced cameras can focus automatically in light as dim as one candle.

Choose single-servo autofocus, or choose continuous autofocus where the camera focuses and refocuses automatically as your subject moves or changes position.

In either mode, take advantage of Nikon's revolutionary focus-tracking.

With focus tracking, once the subject is moving towards the photographer, the camera anticipates its precise position at the moment of exposure. The system tracks the subject, calculating its final position between the time you press the shutter release and the time the exposure actually takes place.

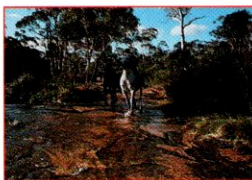
**NIKON'S EXCLUSIVE FOCUS TRACKING ANTICIPATES THE SUBJECT'S PRECISE POSITION AT THE MOMENT OF EXPOSURE.**



CORELESS MOTOR

#### MANUAL FOCUS WITH ELECTRONIC RANGEFINDER

When manually focusing, Nikon advanced AF cameras help you focus with a precision electronic rangefinder. Illuminated arrows guide you to exact focus, confirmed by a visible indicator.



#### FLASH OF BRILLIANCE

Almost everyone wants photos that combine ambient light with light from the flash. That's because photos like these are truly unusual. Especially

when taken at the slow flash sync speeds Nikon advanced cameras are capable of (be sure to see the Brett Froomer and John Huet

examples that appear in this guide). Nikon continues to lead in the area of flash photography with an array of Speedlights and a technology called matrix-balanced fill-flash. This through-the-lens system (TTL) uses matrix metering to evaluate the scene's available light. It then controls the flash to provide just enough light to illuminate the subject, while balancing the shot with a properly exposed background. The result is flash pictures like you've never seen before, in situations you might never have thought possible. Nikon's N90 and new 35Ti camera advance this technology even further with 3-D matrix balanced fill-flash.



**MATRIX-BALANCED FILL-FLASH SHOTS LOOK ALMOST AS IF FLASH HASN'T BEEN USED AT ALL. WHEN USED WITH SLOW SHUTTER SPEEDS, THE RESULTS CAN BE STUNNING.**

#### PATH TO THE FUTURE

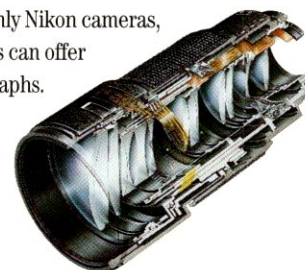
Nikon's famous F lens mount means your camera is compatible with literally hundreds of Nikon lenses. And, as Nikon innovation continues, your investment in Nikon quality continues to pay off with future system compatibility.



**NIKON'S FAMOUS F LENS MOUNT MAKES OBSOLES-CENCE, OBSOLETE.**

#### RENOWNED CONSTRUCTION AND MATERIALS

Nikon products are built to last. But to say they 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.





# F4S

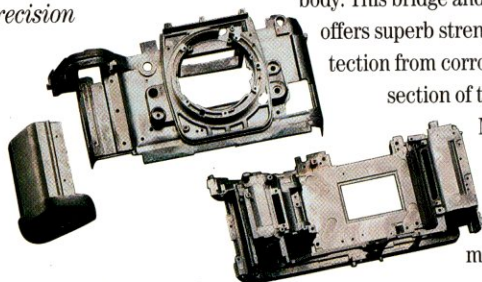
## THE CHOICE OF PROFESSIONAL PHOTOGRAPHERS EVERYWHERE

*Say the words "professional  
photography" and you'll literally be  
saying "Nikon F4S." The choice of  
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 and 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.



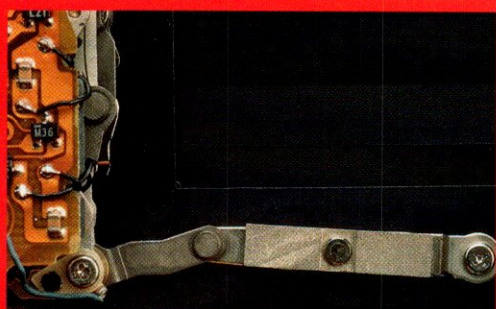
### VERTICAL TRAVEL SHUTTER

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

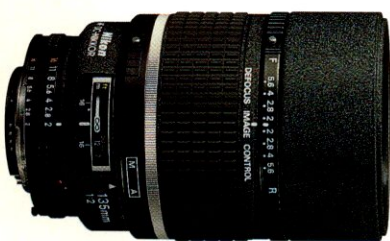
In ordinary cameras with vertical-travel, focal-plane shutters, the film plane is covered by one multi-blade shutter curtain.



With the Nikon F4, this multi-blade curtain has been doubled, leaving virtually no room for light leaks. Perform even 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, AF-I, P, AI-S and AI

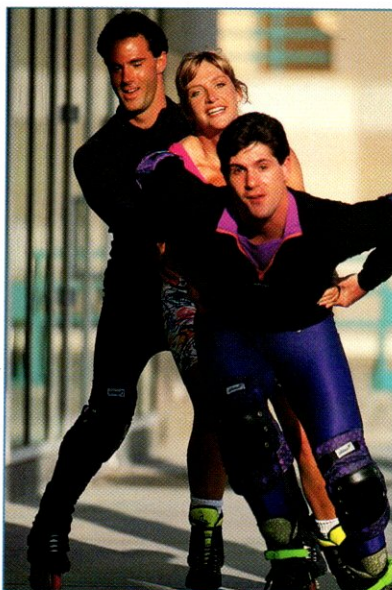
Nikon lenses, all metering systems operate. With modified AI lenses, use center-weighted or spot metering.

#### 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.

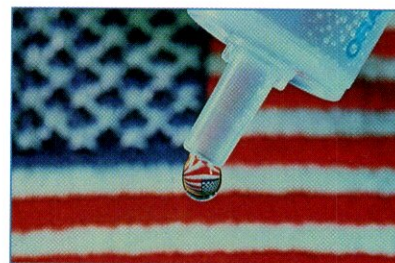
#### SPEEDLIGHTS AND ACCESSORIES

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.

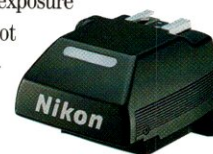
#### INTERCHANGEABLE VIEWFINDERS

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 far-sighted 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.

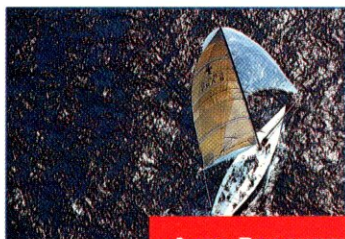
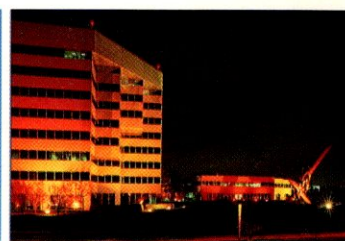
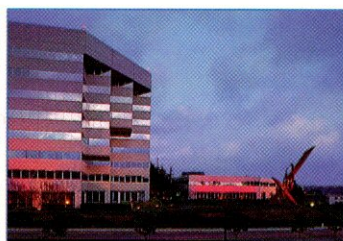
**Nikon Product Number: 2500 NAS**



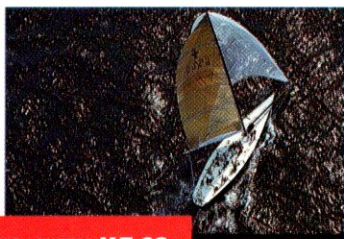




**INTERVAL TIMER WITH MF-23**



**AUTO BRACKETING WITH MF-23**



### AE ACTION FINDER DA-20

This viewfinder allows you to see a complete image at 2.4" from the camera. It is 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.

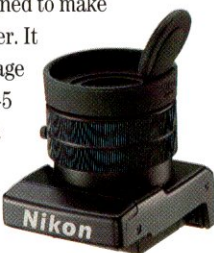
**Nikon Product Number: 2503 NAS**



### 6X HIGH MAGNIFICATION FINDER DW-21

This spot metered viewfinder is designed to make critical close-up work faster and easier. It 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.

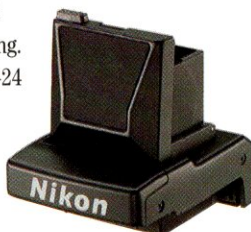
**Nikon Product Number: 2502 NAS**



### WAIST-LEVEL VIEWFINDER DW-20

Viewfinder 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**



## DATA/MULTI-CONTROL BACKS

### MULTI-CONTROL BACK MF-23

The MF-23 Multi-Control Back for the F4S is your key to making all-new types of photographs. Imprinting your photos with date, time, frame number, shutter speed, aperture setting and other information is only the beginning. The Interval Timer allows you to input commencement time, interval time, number of shots and number of intervals — outstanding for time/sequence events. Auto Bracketing means you can 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, the remaining time before exposure and the number of shots that should be taken at a specific time can be set. Use Freeze Focus to set your camera at a pre-focused distance. When the subject enters the specified zone, the camera fires. Also set daily alarm, film alarm, film stop and more.

**Nikon Product Number: 4623 NAS**



### DATA BACK MF-22

If time is your only concern, there's the MF-22 Data Back. 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**





### 250 EXPOSURE FILM CASSETTE MZ-1

Operates with 250 Exposure Multi-Control Back MF-24. Includes 2 magazines.

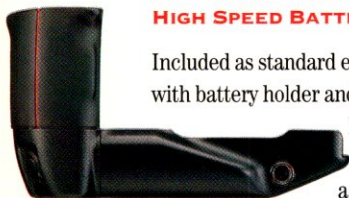
**Nikon Product Number: 2077 NAS**



## 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 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.

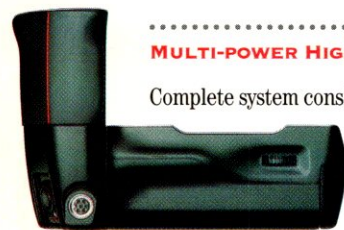
**Nikon Product Number: 4631 NAS**

### 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**

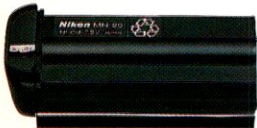
### MULTI-POWER HIGH SPEED BATTERY PACK MB-23



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**

**OTHER ACCESSORIES AND REMOTE CONTROL DEVICES FOR THE F4S APPEAR IN THEIR OWN SECTIONS OF THIS GUIDE**

### NICAD BATTERY CHARGER MH-20

NiCad battery charger for MN-20 (can charge two batteries at one time).

**Nikon Product Number: 112 NAS**



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

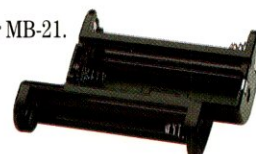
Replacement battery holder for MB-23. Allows the use of 6 AA batteries.

**Nikon Product Number: 4640 NAS**

### AA BATTERY HOLDER MS-21

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

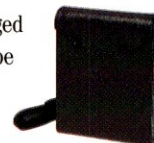
**Nikon Product Number: 4637 NAS**



### 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 MA-4 converter into the external power terminal of the MB-22.

**Nikon Product Number: 132 NAS**





## WHEN THE HEAT IS ON

There's no substitute for Nikon F4S performance and reliability when it comes to tough situations. That's why famed photographer Roger Ressmeyer chose the F4S to photograph these lava flows in Hawaii and Italy.

"In a situation like this with intense heat, debris and moisture, I use only equipment that is up to the challenge. I covered this subject from every possible angle and with every conceivable photographic approach I could think of. In each case the combination of features and durability in the F4S worked for me. Matrix metering, spot-metering and Nikon accessories, including the MF-23 Multi-control Back and Remote Triggering Cords, were vital to my success. They allowed me to produce a wide range of difficult images in the briefest amount of time so I could cut the risk to a minimum"

*Roger Ressmeyer*

**NIKON SCHOOL PHOTO TIP: THE CENTER OF INTEREST RARELY BELONGS IN THE CENTER OF YOUR FRAME. EXPERIMENT WITH SUBJECT PLACEMENT AND EVALUATE THE RESULTS FOR COMPOSITION, MOOD AND FEELING**

Photo by Roger Ressmeyer, © National Geographic



## 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-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.)\*
- Five exposure modes — M (Manual), P (Program), PH (High-Speed Program for faster shutter speeds),
- S (Shutter Priority) and A (Aperture Priority)
- 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
- 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

\* With the Nikon High Speed Battery Pack MB-21.

Nikon Product Number: 1791 NAS



# F3HP

## STRETCHING IT TO THE LIMITS

*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.*



### SOLID DIE-CAST BODY

To make the F3HP sturdy but light, Nikon made its body out of a two-piece casting of copper-aluminum alloy. This casting also secures electronic components and prevents corrosion.

### RELIABLE ELECTRONICS

All of the F3HP's electronic components are integrated onto a single flexible printed circuit board to provide the correct exposure in any picture-taking situation.



### SMOOTH WINDING MECHANISM

Winding film with the F3HP is silky smooth. Liberal use of ball bearings and an all-new mechanism contribute to its ease and convenience.

### CENTER-WEIGHTED METERING SYSTEM

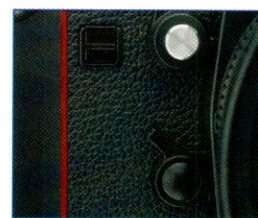
The F3HP offers a highly center-weighted metering system, concentrated in a 12mm diameter spot in the center of the viewfinder. You know exactly what the camera is metering.

### TITANIUM SHUTTER

The F3HP features a Nikon dual curtain, focal-plane shutter. Made of ultra-strong, ultra-thin titanium, these long-lasting shutters offer years of trouble-free performance.

### MECHANICAL BACKUP SHUTTER RELEASE

A special backup shutter release mechanism allows you to take pictures with exhausted batteries or when batteries have been removed (shutter speed approximately 1/60th sec.).





## INTERCHANGEABLE FOCUSING SCREENS AND FINDER ACCESSORIES

The Nikon F3HP offers a complete range of interchangeable focusing screens and finder accessories, to make sure you see things your way (see focusing screens and finder accessories section of this guide).

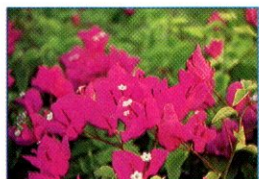
## SPEEDLIGHTS AND ACCESSORIES

The F3HP also accepts the complete line of Nikon Speedlights. Flash control is TTL (through-the-lens with SB-16A and SB-21A) for increased accuracy (see "Speedlights").



## DATA BACKS, INTERVALOMETER AND REMOTE CONTROL

Using Nikon Data Backs, Intervalometers and remote control accessories, open up a new world of possibilities with your F3HP. Create automatic long-time exposures and time-lapse photos (see sections that follow).



### CLOSE-UP

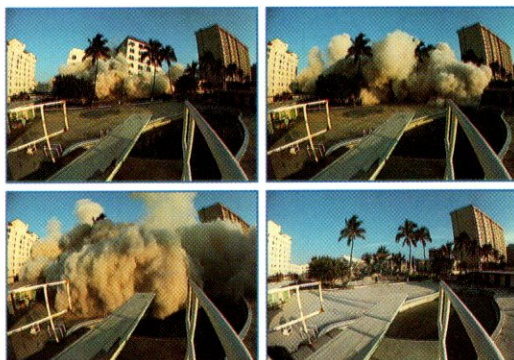
The F3 is compatible with Nikon close-up lenses and equipment. Use Micro Nikkor lenses, extension rings, even bellows to photograph an amazing new world.

## 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**



**NIKON SCHOOL  
PHOTO TIP:  
FOR NATURAL,  
DRAMATIC EFFECTS,  
PHOTOGRAPH  
DURING THE LAST  
HOUR BEFORE  
SUNSET. THIS IS  
WHEN THE LIGHT IS  
WARMEST, AND  
OBJECTS CAST  
THE LONGEST  
SHADOWS.**

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

This 10' cord connects the MA-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**



### 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.

**Nikon Product**

**Number: 134 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**

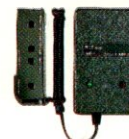


### NICAD BATTERY UNIT MN-2 AND CHARGER MH-2

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**



### 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**





## INTERCHANGEABLE VIEWFINDERS

Use different viewfinders to obtain a clear or complete view of your image, depending on where (or how) the camera is being used or held. Installing F3 series viewfinders is simple. Simply pull back the release levers and lift the viewfinder out. Installation is equally simple. Just insert viewfinder until it "click stops." With all electronic components built into the camera body of the F3HP, TTL exposure metering is possible with every interchangeable viewfinder.

### 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 NAS**



### 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 on lower right corner of the frame. 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 on lower right corner of the frame. 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**



### 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**



### 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.

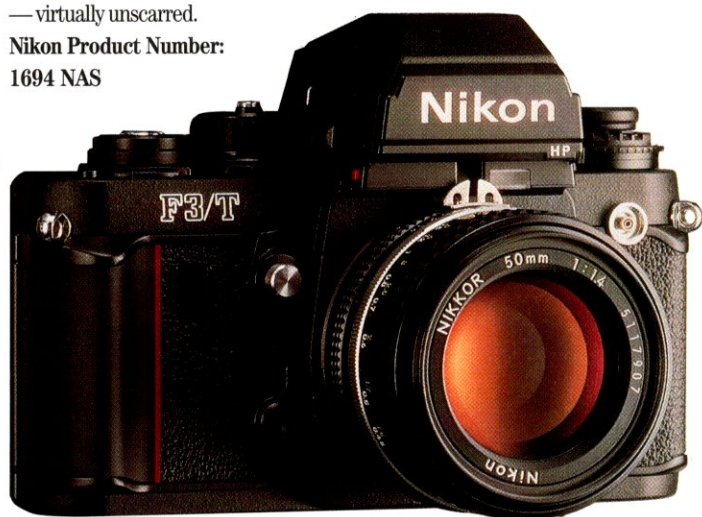
Nikon Product Number: 2079 NAS

## F3/T: STRETCHING IT EVEN FURTHER

This extra-durable version of the F3HP is made of titanium, one of the world's strongest metals. Virtually every part of the body is covered: the high-eyepoint viewfinder; the camera top and bottom; and the entire camera back. With precision parts well-guarded, the F3/T sails through demanding photographic situations to deliver the shots you've worked so hard to achieve — year in and year out — virtually unscarred.

Nikon Product Number:

1694 NAS



## F3HP

- Incomparable construction, testing and materials
- Highly center-weighted metering (80/20 balance)
- TTL (through-the-lens) flash control
- Standard DE-3 high-eyepoint viewfinder system with virtual 100% coverage
- LCD exposure information readout in viewfinder
- Manual focus. Top shutter speed 1/2000 sec. Flash sync up to 1/80 sec.
- Ultra-strong, ultra-thin, dual titanium shutter curtains for extended usage, no light leakage
- Silky-smooth, manual film advance
- Backup mechanical shutter release if batteries exhausted
- Aperture-priority automatic exposure mode and manual exposure
- Exposure memory lock button for off-center compositions
- Exposure compensation dial
- Multiple exposure lever
- Mirror lockup lever
- Depth-of-field preview button
- Self-timer with LED indicator
- High-speed MD-4 Motor Drive available
- Interchangeable viewfinders, focusing screens
- Interchangeable battery packs, power sources
- Interchangeable camera backs including 250-exposure MF-4 Multi-Control Back
- Nikon F lens mount means the F3HP uses all AI-S lenses, AF Nikkor lenses, AI and non-AI lenses

Nikon Product Number: 1691 NAS

### NIKON SCHOOL PHOTO TIP:

**YOUR NIKON SLR IS A HIGHLY-REFINED OPTICAL INSTRUMENT. HOWEVER EVERYONE'S EYESIGHT IS SLIGHTLY DIFFERENT. TO ACCOUNT FOR THESE DIFFERENCES, NIKON PROVIDES EYEPiece CORRECTION LENSES. IF YOU'RE NEAR-OR FAR-SIGHTED, ONE OF THESE LENSES CAN MAKE YOUR SHOOTING MUCH MORE COMFORTABLE. EYEPiece CORRECTION LENSES CORRECT THE IMAGE SEEN IN THE FOCUSING SCREEN FOR YOUR PARTICULAR EYESIGHT. WHILE IT IS BEST TO ACTUALLY TRY OUT DIFFERENT EYEPiece CORRECTION LENSES AT YOUR NIKON DEALER, IT IS POSSIBLE TO DETERMINE WHICH LENS YOU NEED BY CONSULTING YOUR EYEGlass PRESCRIPTION. SINCE THE FOCUSING SCREEN IN A NIKON SLR CAMERA IS OPTICALLY ONE METER (3.3') FROM THE EYE, YOU SHOULD FIRST DETERMINE WHAT YOUR EYEGlass PRESCRIPTION IS FOR THAT DISTANCE. SINCE EACH EYE MAY BE DIFFERENT, MAKE SURE YOU HAVE THE PRESCRIPTION FOR THAT PARTICULAR EYE.**

**THERE WILL BE A NUMBER ON THE PRESCRIPTION LABELED "SPHERICAL" THAT IS PRECEDED BY A + OR -. THE NIKON DIOPTRER LABELED CLOSEST TO THIS NUMBER SHOULD GIVE YOU A USABLE CORRECTION. FOR EXAMPLE, A - 3.25 SPHERICAL WOULD CALL FOR A -3.0 DIOPTRER. A +0.2 SPHERICAL WOULD CALL FOR A 0 DIOPTRER. UNFORTUNATELY NO DIOPTRER CAN CORRECT FOR ASTIGMATISM. FOR YOUR REFERENCE, ALL NIKON SLR CAMERAS HAVE A BUILT-IN DIOPTRER SETTING OF -1. HOWEVER, IT IS NOT NECESSARY TO TAKE THIS INTO ACCOUNT WHEN PURCHASING A DIOPTRER. ALL NIKON EYEPiece CORRECTION LENSES ARE LABELED FOR THE TOTAL DIOPTRITY THAT WILL BE PROVIDED WHEN THE LENS IS INSTALLED ON THE VIEWFINDER. THE STANDARD SCREW-IN EYEPieces, SUPPLIED WITH SOME NIKON SLRs, ARE FITTED WITH PLAIN GLASS THAT PROVIDES NO CORRECTION BEYOND THE -1 BUILT INTO THE CAMERA.**

**FOR A COMPLETE LISTING OF NIKON EYEPiece CORRECTION LENSES, SEE PAGE 47.**



# N90

## DESIGNED TO INSPIRE

*This is high-tech Nikon.*

*Wide-area autofocus, 8-segment*

*matrix metering, 3-D multi-sensor*

*balanced fill-flash, FP high-speed*

*flash sync up to 1/4000th sec. and*

*computerized Vari-Program combine*

*to offer all-new photographic*

*opportunities. The N90's 5-segment*

*flash sensor means that for the*

*first time matrix-like metering*

*technology has been incorporated into*

*flash photography. The N90's new*

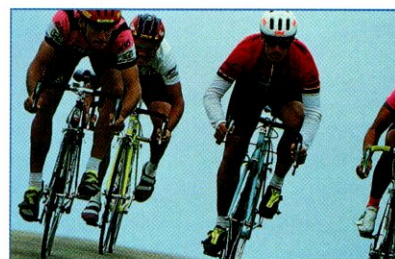
*Data Link system introduces a new*

*era in photography.*



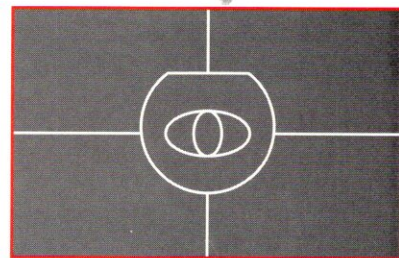
### WIDE-AREA AND SPOT AUTOFOCUS

The N90 offers two autofocus systems to let you deal with more picture-taking situations with greater ease. Use Wide-Area Autofocus, with its 7mm wide focusing zone, when subjects are off-center or moving quickly. Use Spot Autofocus to concentrate on small areas, crucial to your composition. Nikon's new CAM246 cross-type autofocus sensor module makes it possible.



### 3D MATRIX METERING

The N90 uses an 8-segment matrix meter to evaluate the scene. When used with new D-type Autofocus lenses, it then combines this exposure information with data on distance and focus. For the first time, distance information is used to enhance exposure calculations. Computers found in both the N90 and the D-type lenses share information, while Nikon software processes the data using advanced algorithms and fuzzy logic. Now light conditions that might confound any photographer, are handled beautifully and effortlessly by the N90.



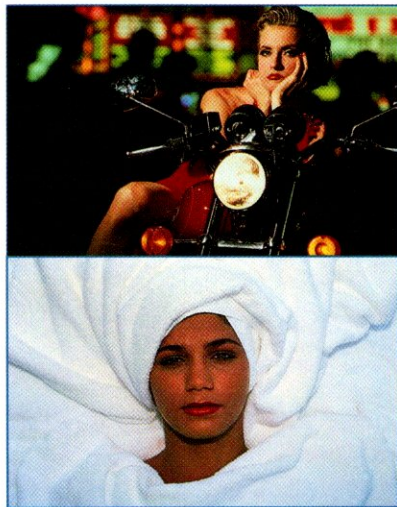
### NEW 5-SEGMENT TTL FLASH SENSOR

For the first time, matrix-like metering technology has been incorporated into flash photography. Built into the N90 is a new 5-segment flash sensor. This new TTL multi-sensor works with all Nikon TTL-controlled speedlights, enabling automatic balanced fill-flash even in bright snow and sand, as well as in dim light, indoors or out. Matrix-like flash analysis yields exceptional results, even in situations that might fool other systems.



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

This is the highest flash performance possible. Requiring a combination of the N90, a D-type AF Nikkor lens and the Nikon SB-25 AF Speedlight, the N90 uses its 8-segment meter to evaluate ambient light. The SB-25 then fires a series of invisible monitor pre-flashes, which the N90's 5-segment flash sensor analyzes. Distance information from the lens — including picture composition analysis — and other exposure control data are then integrated. Flash output is automatically compensated and balanced with the ambient light. The result is superb flash photographs — a system of unparalleled performance.



### FP HIGH SPEED SYNC FLASH

Using a Nikon N90 and 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.



### NEW VARI-PROGRAM

Now you can choose the type of pictures you want to make — automatically. You make your selection, from striking silhouettes, to beautiful portraits, to scenics, to sports photos, to close-ups, and the N90 does the rest. All required settings are made for you. When used with the SB-25 AF Speedlight, even a red-eye reduction program is included. Make the kind of photos you've always wanted, at the touch of a button.



**HYPERFOCAL  
PROGRAM**



**LANDSCAPE  
PROGRAM**



**SPORT  
PROGRAM**



**CLOSE-UP  
PROGRAM**



**PORTRAIT  
PROGRAM**



**PORTRAIT WITH  
RED-EYE REDUCTION  
PROGRAM**

### DATA LINK ENHANCES PERFORMANCE EVEN FURTHER

Propel your N90 system even further with the Data Link. Combine the Sharp Wizard® Electronic Organizer OZ-8000 Series or OZ-9000 Series with the Nikon Data Link IC Card AC-1E, and expand the control of your N90 camera's functions.

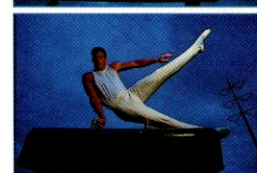
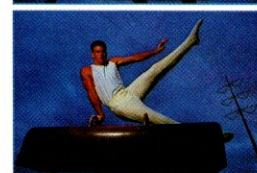
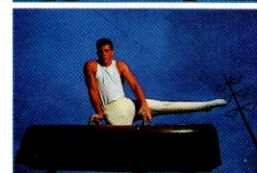
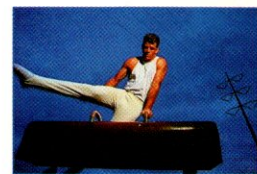
It also records shooting information and helps guide you through the operation of the N90, the SB-25, the MF-26 Multi-control Back and the Nikon World Time Data Back MF-25. It even includes general information on photography and includes other features you'll find convenient, especially on location.

**Nikon Product Number:  
4649 NAS**

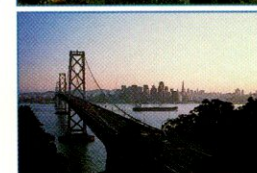
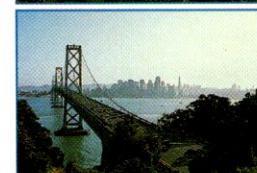
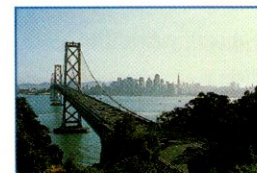


*Sharp® is a registered trademark of Sharp Electronic Corporation.*

**NIKON SCHOOL  
PHOTO TIP:  
FILM CAN'T  
CAPTURE ALL THE  
VARIATIONS IN  
BRIGHTNESS YOU  
CAN SEE IN A  
SCENE. FILL-FLASH  
WILL ADD DETAIL TO  
SHADOWS AND  
LIGHTEN BACKLIT  
SUBJECTS, SO  
CARRY YOUR FLASH  
EVEN ON THE  
BRIGHTEST DAYS.**



**FLASH EXPOSURE  
BRACKETING  
WITH MF-26**



**INTERVAL TIMER  
WITH MF-26**





#### ALL-MODE EXPOSURE BRACKETING WITH MF-26

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

The MF-26 Multi-Control Back for the N90 is your key to making extraordinary photographs. Not only can the MF-26 imprint your photos with date, time, frame number, shutter speed, aperture setting and other information, it can open up a new world of photo opportunities. The Interval Timer allows you to take photographs at specified intervals, up to 99 hours, 59 minutes and 59 seconds apart (to 99 separate frames). It's outstanding for time/sequence events. Create long-time exposure photos, also up to 99 hours, 59 minutes, 59 seconds — automatically. All-Mode Exposure Bracketing allows you to shoot from 3 to 19 frames, each with a different exposure. Flash Bracketing allows you to automatically vary flash output over a specified range. Multiple Exposure function allows up to 19 exposures on a single frame. Freeze Focus allows you to set camera at a pre-focused distance. When the subject enters the specified zone, the camera fires. Also set simultaneous or separate AE and AF lock functions, change the custom reset settings on your camera, or set flash compensation by -3EV to +1EV in 1/3 steps.

**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: 120 NAS**



### MODULITE REMOTE CONTROL SET ML-3

The compact ML-3 enables automatic N90 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**



### CONNECTING CORD MC-23

Connects two N90 cameras for simultaneous or synchronized shutter release. Requires Data Link system to control synchronized operation.

**Nikon Product Number: 4653 NAS**



### REMOTE CORD MC-20

Enables remote firing of N90 and setting of long time exposures up to 9 hours, 59 minutes, 59 seconds. LCD panel with illuminator counts exposure time up or down.

**Nikon Product Number: 4650 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.

**Nikon Product Number: 4655 NAS**



### EXTENSION CORD MC-21

Enables N90 to be connected to Nikon 10-pin remote accessories.

**Nikon Product Number: NAS**



### REMOTE CORD MC-22

Used for connection to shutter triggering device.

**Nikon Product Number: 4652 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 N90 via MC-29 cord.

**Nikon Product Number: 3069 NAS**



### EXTERNAL POWER CORD MC-29

**Nikon Product Number: 4659 NAS**



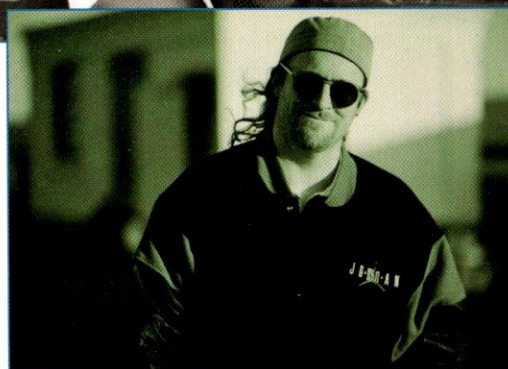
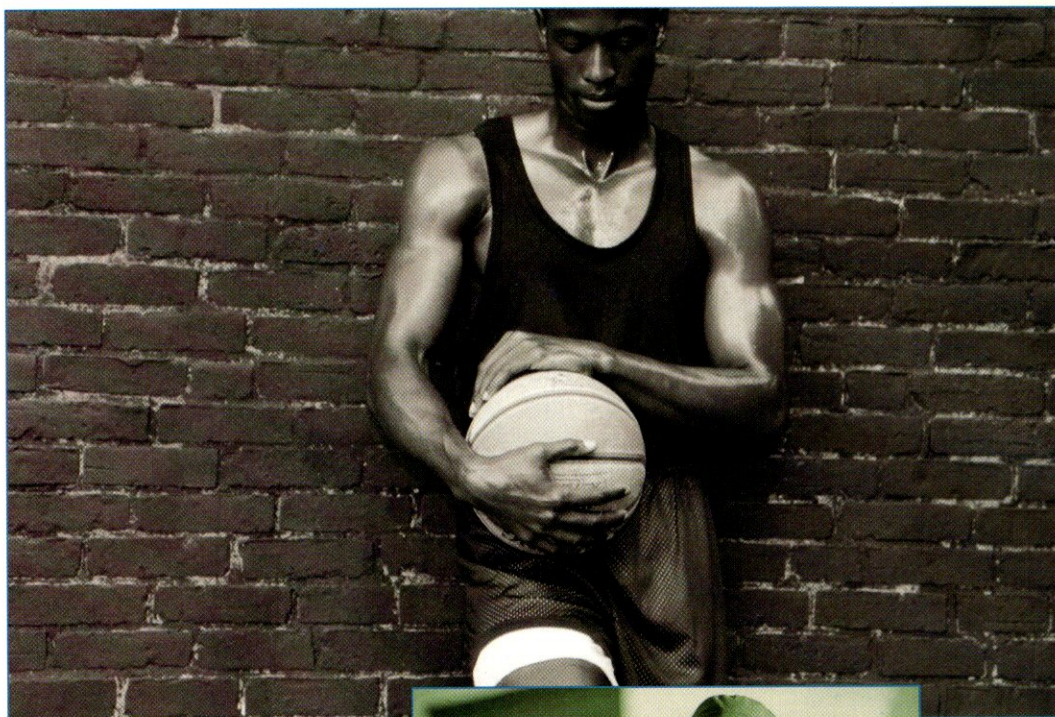
## SHOOT TO WIN

*Some subjects would rather play than pose. And no one knows that better than photographer*

*John Huet.*

*Using a Nikon N90, a 35-70mm D-type Autofocus Zoom Lens and an SB-25 Speedlight, Huet captured this difficult-light shot at the touch of a button.*

*"When you're capturing real-life action and emotion, you hardly have time to think, much less meter. Because the N90 is a system that takes everything into account — distance, focus, changes in composition, balance between foreground and background — it worked exactly as I expected on this assignment. My concentration was where it should be — on the subject."*



**THE NIKON N90 LOAN PROGRAM:**  
SELECTED NIKON ADVANCED SYSTEMS DEALERS (NAS) HAVE N90 CAMERA SYSTEMS AVAILABLE TO "TEST DRIVE". LOAN REQUIREMENTS VARY FROM DEALER TO DEALER. LIMITED TIME ONLY. TO OBTAIN A LIST OF PARTICIPATING DEALERS CALL 1-800-NIKON-US.

## N 9 0

- 8-segment matrix metering, center-weighted metering (75/25 balance), spot-metering (3mm diameter circle in center of viewfinder)
- Matrix-balanced fill-flash
- 3-D Multi-sensor balanced fill-flash with SB-25 and D-type lenses
- Bright viewfinder system with full-information readout
- Spot and wide-area autofocus with focus tracking
- Manual focus with electronic rangefinder to EV-1
- Top shutter speed 1/8000 sec.
- High-speed flash sync to 1/4000 sec. on manual with SB-25 Speedlight (1/250 sec. automatic)
- Single-frame, normal-speed (2.0 frames per sec.) and high-speed film advance (3.0 frames per sec.)
- Five exposure modes — M (Manual), P (Auto-Multi Program), (Vari-Program for faster shutter speeds), S (Shutter Priority), A (Aperture Priority), and Flexible Program
- Interchangeable focusing screens
- Interchangeable camera backs including new MF-26 Multi-Control Back
- New Data Link System to enhance performance, customize operation
- Nikon F lens mount

Nikon Product Number: 1769 NAS



# N8008s

## TOOL FOR THE IMAGINATION

*The N8008s offers the technical features and controls that enable any photographer to excel. With 5-segment matrix metering, a top shutter speed of 1/8000 sec., flash sync to 1/250 sec., motor drive, autofocus and other features, this camera is a tool for imagination; a vehicle for creative expression.*

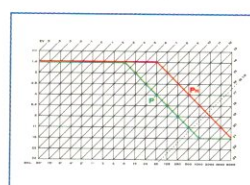
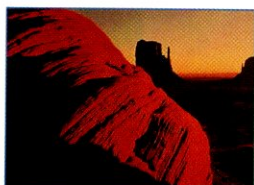


### 5-SEGMENT MATRIX METERING

The 5-segment matrix meter built into the N8008s evaluates light the way a photographer's eye and mind do. Outdoors on sunny days, shooting near a window, nighttime photography — even in difficult and harshly lit or low-light situations — the matrix meter and the system's microcomputers and software perform their exposure evaluation, and the picture is given optimum exposure. Automatically.

### CENTER-WEIGHTED AND SPOT METERING, TOO

For many portraits or scenes with severe backlighting, you might want to switch to center-weighted metering. This concentrates 75% of the meter's sensitivity on an area of the viewfinder outlined by a 12mm circle. Or, switch to spot metering. This is the most selective light metering choice, concentrating 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.



### SIX EXPOSURE MODES

The N8008s lets you choose from 6 separate exposure modes plus Flexible Program.

**Dual Program** With the "PD" exposure mode, the N8008s automatically selects the exposure program appropriate for the focal length of the lens in use. If you're using an AF Nikkor lens 135mm or longer, or if your AF Zoom Nikkor lens is set past 135mm, the N8008s will automatically shift from the Normal to the High-Speed Program. This shift will help overcome any possible camera shake or subject movement.

**Normal Program** To obtain greater depth of field in your photograph, choose Normal Program "P." The camera will automatically shift to higher aperture numbers.

**High Speed Program** To freeze the action with normal AF Nikkor lenses, choose the High-Speed Program "PH." This program is designed to select faster shutter speeds than with the Normal Program.

**Flexible Program** In any Program Mode, you can change the combination of shutter speed and aperture by turning the Command



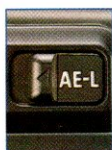
Input Control dial, and still obtain a correct exposure. So, even though the N8008s is on automatic program operation, you can still have user-creative opportunities.

**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.

**AE-Lock Button** A press of the button locks exposure. Recompose the photograph any way you like — the system will render a properly exposed subject based on the original exposure measurement.



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

#### MOTOR DRIVE

The N8008s 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 3.3 frames per second.



#### AUTOFOCUS WITH FOCUS TRACKING

Choose single-servo autofocus, where the camera focuses and remains locked until you again press the shutter release. Or,



choose continuous autofocus, where the camera focuses and refocuses automatically as your subject moves or changes position. In continuous autofocus mode, take advantage of Nikon's focus-tracking. With focus tracking, the camera anticipates the subject's position at the exact moment of exposure. While you concentrate on the action, the camera concentrates on the focus.

#### AUTOFOCUS LOCK

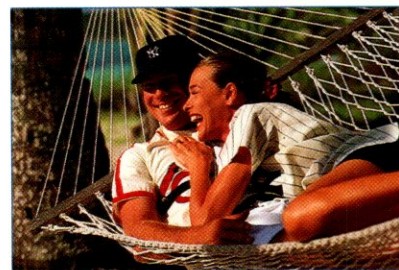
Use autofocus-lock to set the focus on your subject and recompose the photo anyway you like.

#### MANUAL FOCUS WITH ELECTRONIC RANGEFINDER

When focusing manually, the N8008s 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).

#### MATRIX BALANCED FILL FLASH

The N8008s uses matrix-balanced fill-flash to balance both subject and background illumination. The system fills in harsh shadows and brings out foreground detail without losing the correct background exposure. Available when using any AF Nikkor or Nikkor lens with built-in CPU and Nikon Speedlights SB-25, SB-23, SB-22, SB-20, SB-16B or SB-21B.



#### MULTI-CONTROL BACK MF-21

The optional MF-21 Multi-Control Back for the N8008s is ideally suited for technical and creative applications. Imprint data on each frame (choice of date, time, frame number, serial upcount number, fixed number and shutter-speed/aperture, also control camera functions to provide — Interval-Timer function, Long Time Exposures up to 99 hours, 59 minutes, 59 seconds, Auto Bracketing up to 19 consecutive exposures on a single frame with values in 1/3 EV steps from 1/3 to 2 EVs, and Freeze Focus where the subject trips the shutter when it enters the in-focus position.

Nikon Product Number: 4621 NAS



#### DATA BACK MF-20

Imprint selected date and time and information within each frame with this handy/accessory.

Nikon Product Number: 4620 NAS

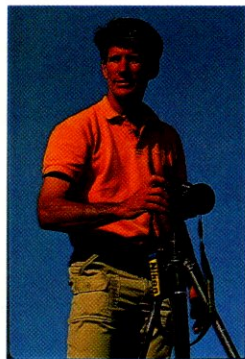
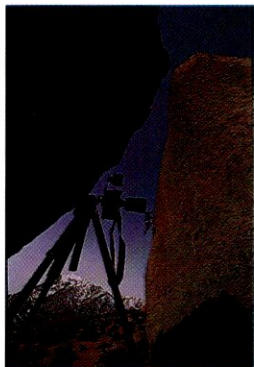
**NIKON'S FOCUS TRACKING ANTICIPATES THE SUBJECT'S PRECISE POSITION AT THE MOMENT OF EXPOSURE.**





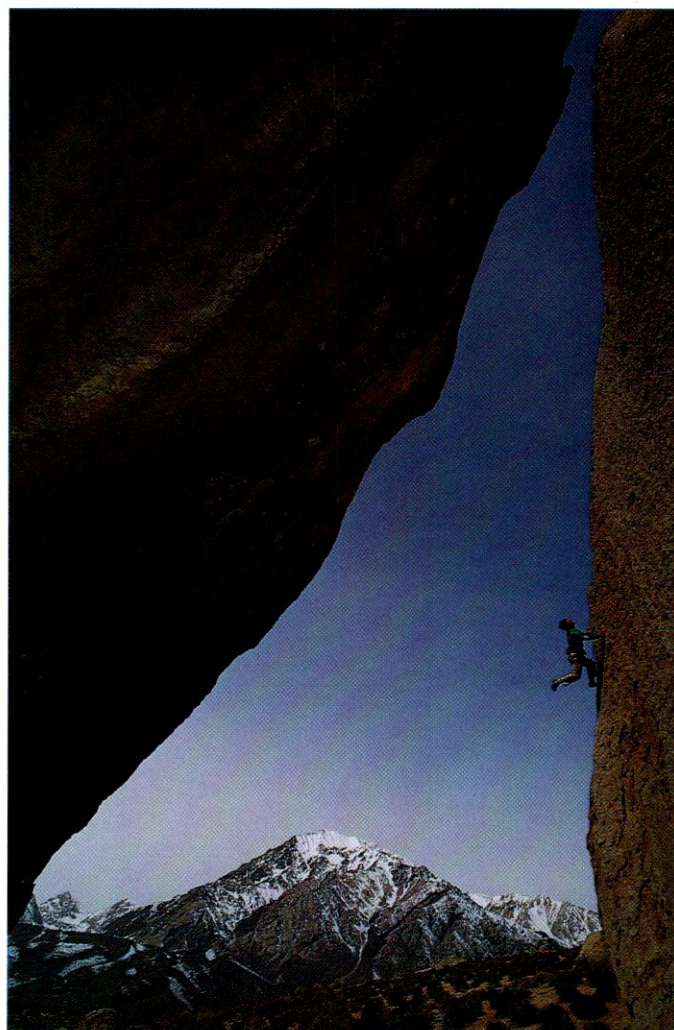
## CLIFF HANGER

*"The N8008s has the size and automatic features that make it an excellent companion — especially when rock climbing in the Sierra Madres. To shoot myself on the side of this steep cliff, I chose the aperture priority exposure mode and a small f-stop for great depth of field. Using an MF-21, I set the camera to produce three bracketed exposures every time the shutter was released. Then I packed a Nikon Modulite ML-3 Remote Control into my pocket and headed up the face of the cliff. I set the Modulite for a three-second delay, which allowed me to put*



*the Modulite back into my pocket before the camera fired. Putting my N8008s together with matrix metering, aperture control and the right accessories, I got the shot I was looking for — while still looking out for myself."*

*Galen Rowell*



**NIKON SCHOOL PHOTO TIP:**  
MOST SCENICS WILL BENEFIT FROM FOREGROUND SUBJECTS. NOTE HOW PHOTOGRAPHER GALEN ROWELL HAS KEPT A FEW BOULDERS IN THE FOREGROUND OF THE PHOTO BELOW (HE ACTUALLY ILLUMINATED THEM WITH A NIKON SPEEDLIGHT, AS WELL) TO CREATE BALANCE.

## N 8 0 0 8 s

- Superior features and performance
- 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 Nikon TTL Speedlights
- High-eyepoint viewfinder system with full information viewfinder
- Autofocus with focus tracking
- Manual focus with electronic rangefinder to EV-1
- Top shutter speed 1/8000 sec.; top flash sync 1/250 sec.
- Single-frame, continuous low speed (2 frames per second) and continuous high speed film advance (3.3 frames per sec.)
- Five exposure modes — M (Manual), P (Program), PH (High-Speed Program for faster shutter speeds), S (Shutter Priority) and A (Aperture Priority)
- Autofocus lock button; auto exposure lock button
- Interchangeable camera backs, multi-control backs
- Nikon F lens mount

Nikon Product Number: 1765 NAS



# N6006

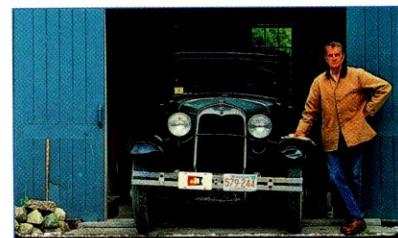
## DARING PHOTOGRAPHY

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



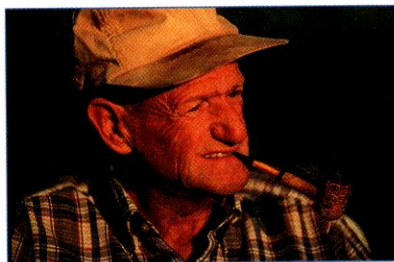
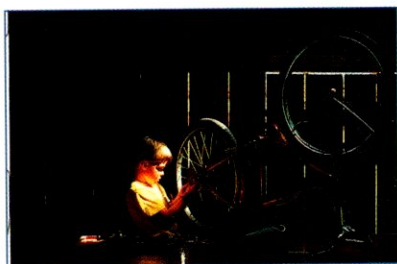
### 5-SEGMENT MATRIX METERING

The best 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. In situations where you might be wondering what to do, your N6006 already knows.



### SPOT AND CENTER-WEIGHTED METERING

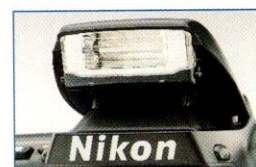
For more controllable situations, or where you want to put more emphasis on a centrally located subject, center-weighted metering concentrates 75% of the exposure on the center of the viewfinder. To concentrate the exposure even further, switch to spot-metering. Now the exposure is based on a 3.5mm-diameter circle in the center of the viewfinder. The spot meter is effective when precise measurement of the subject is required.



ing 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 also packs a wallop, offering a guide number of 43 (with ISO 100 film/feet).

### BUILT-IN WIDE-ANGLE FLASH

This flash works beautifully with your N6006 light meter-





### 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.



WITHOUT  
COMPENSATION



WITH  
COMPENSATION

### FLASH COMPENSATION

Your N6006 will make superb matrix-balanced fill-flash photographs, right out of the box. But if you want 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

When flash pictures are taken at high shutter speeds in dim light, the background may come out dark. For sunsets or night scenes, etc., a better background exposure may be achieved with Programmed or Aperture-Priority auto exposure mode, 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: the slowest shutter speed available in normal sync is 1/60 sec.



### 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.

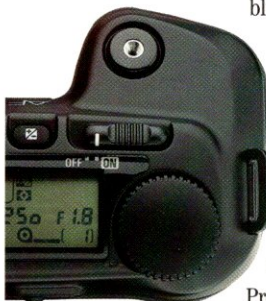
### HIGH SPEED AUTOFOCUS WITH FOCUS TRACKING

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, if you like, 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

By simply setting Auto Exposure Bracketing, the N6006 will bracket either 3 or 5 exposures for you automatically. You 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.

### N 6 0 0 6

With the Nikon N6000 you focus manually and add your own Nikon Speedlight separately. Other features are virtually identical to the N6006 — matrix-metering and center-weighted metering (no spot-meter with N6000), auto-exposure, auto-bracketing, motorized film advance, slow-sync flash, rear-curtain flash, flash compensation, 1/2000 sec. shutter speed, variable self-timer, etc.

Nikon Product Number:  
1775 NCP



AUTO EXPOSURE  
BRACKETING



## 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 wide-angle 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."



**NIKON SCHOOL PHOTO TIP: KEEP YOUR INSTRUCTION BOOKS WITH YOU FOR THE FIRST FEW MONTHS AFTER PURCHASE. IT'S LIKE HAVING A PHOTO EXPERT AROUND ALL THE TIME. TO BRING A PHOTO EXPERT RIGHT INTO YOUR HOME, SEE INFORMATION ON THE NIKON SCHOOL VIDEO LEARNING SERIES AT THE END OF THIS GUIDE.**

*Matt Groome*

## N 6 0 0 6

- Advanced Nikon features
- Built-in, wide-angle 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
- 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

**Nikon Product Number: 1770 NCP**

## N 6 0 0 0

- Advanced Nikon features
- 5-segment matrix metering, center-weighted metering (75/25 balance)
- Matrix-balanced fill-flash with optional Nikon Speedlights
- Full information readout
- Manual focus with BriteView Focusing Screen
- 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
- Auto exposure lock button
- Two-shot self-timer
- Nikon F lens mount

**Nikon Product Number: 1775 NCP**



# N5005

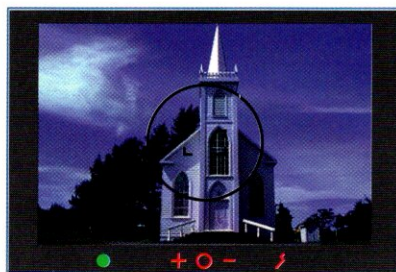
**STOP WISHING —  
START TAKING  
PICTURES YOU'LL  
BE PROUD TO SHOW**

*The N5005 is loaded with special  
features — all designed to let you  
start making pictures you'll be  
proud to show. To concentrate on  
the action, operate on automatic.  
Or, to test your skills and experience,  
switch to manual. Either way,  
stop wishing and start taking  
Nikon quality photographs.*



## **A CAMERA THAT GIVES YOU A BETTER VIEW OF YOUR SUBJECT**

The N5005 is designed for photographers who want to stop wishing and start making

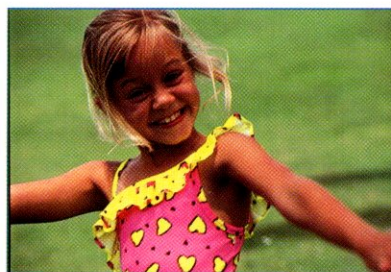


beautiful 35mm photographs. It gives you a true SLR (single-lens reflex) view of your subject and more picture variety. Choose any Nikkor interchangeable lens to complete your system — versatile zoom, wide-angle or telephoto.

## **MATRIX METERING**

Because the N5005 includes two metering systems, matrix and center-weighted, you can choose the system that's right for each situation. Matrix for most pictures, and center-

weighted for portraits or situations where you want to concentrate the exposure on a specific area.



## **AUTOFOCUS WITH FOCUS TRACKING**

The N5005 incorporates Nikon's advanced autofocus with focus tracking. Once your subject is moving, the camera's automatic focus actually follows the subject, continuously keeping it in sharp focus.

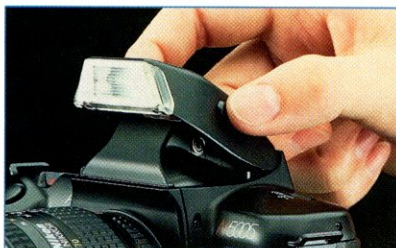
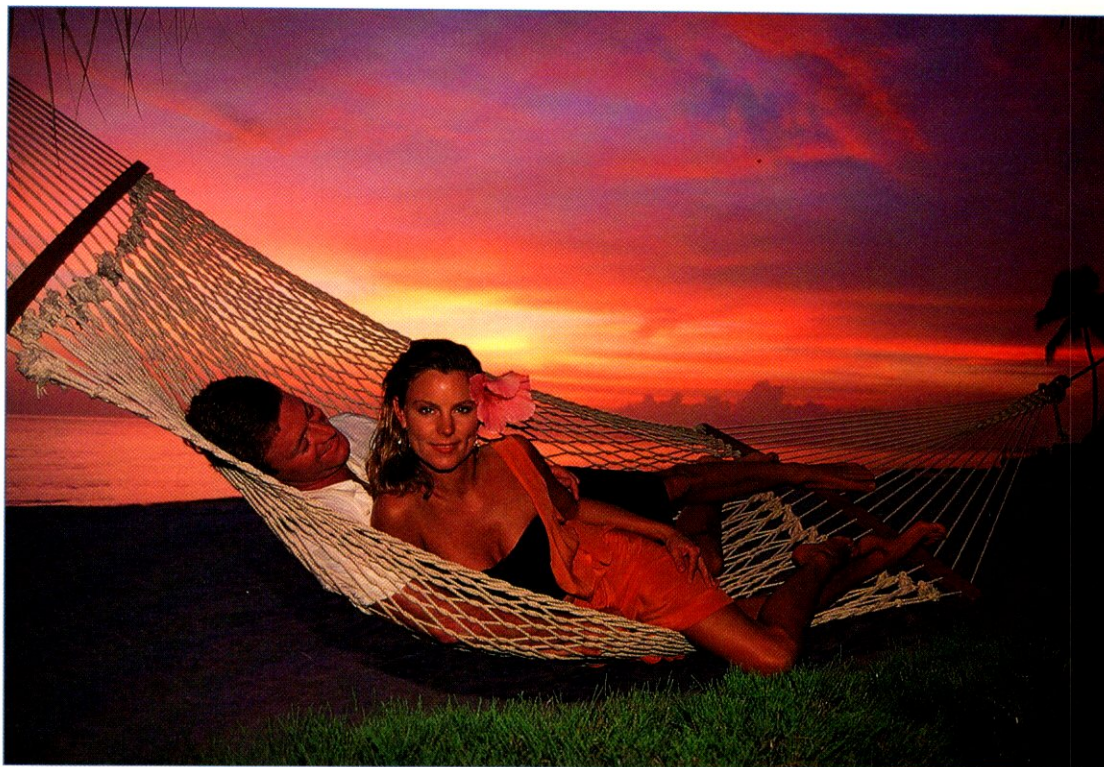


**FOCUS TRACKING**



## POWERFUL BUILT-IN FLASH

The N5005 features a powerful built-in flash that you simply pop-up when needed. It will change your whole way of thinking about flash photography. Its advanced matrix-balanced fill-flash capability means you'll be making all sorts of new pictures — on the beach at dusk, in bright sun to eliminate harsh shadows, in unusual situations where flash can turn even difficult lighting into beautiful pictures. If you're used to seeing harsh flash photographs, your N5005 photos will look almost as if flash hasn't been used at all. Works with 28mm wide-angle lenses and up.



## WIDE LENS INTERCHANGEABILITY

Because the N5005 incorporates Nikon's famous F lens mount, you can choose from a tremendous variety of Nikkor lenses — all designed to let you start taking the world's greatest pictures.

**NIKON SCHOOL PHOTO TIP:**  
FRAME-UP: TAKE A VERTICAL AND HORIZONTAL VERSION OF YOUR OUTDOOR SHOTS TO ADD VARIETY TO YOUR COMPOSITIONS.



28MM



35MM



50MM



105MM



210MM

## N 5 0 0 5

- Features you've always wanted in a camera
- Powerful built-in flash covers 28mm lenses and longer
- Two light meters: 5-segment matrix metering and center-weighted metering (75/25 balance)
- Automatic matrix-balanced fill-flash
- Autofocus with focus tracking and focus lock
- Manual focus to EV-1
- Top shutter speed 1/2000 sec.; top flash sync 1/125 sec.
- Single-frame, automatic film advance (one frame per 0.4 sec.)
- Four exposure modes — M (Manual), P (Programmed Auto), S (Shutter Priority Auto) and A (Aperture Priority Auto)
- Autofocus lock button; auto exposure lock button
- Two-shot self-timer
- Nikon F lens mount

Nikon Product Number: 1780 NAS



# FM2N

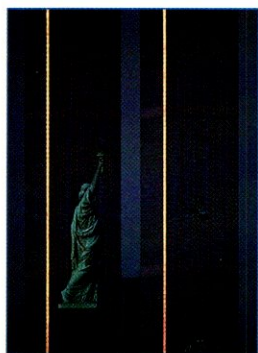
## THE TRADITIONALIST'S CHOICE

*If you want manual focus and manual exposure control, here's the way to get it — with proven Nikon performance and durability. The FM2N is the choice of traditionalists everywhere.*



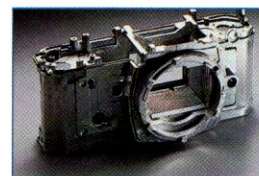
### YOU'RE IN COMMAND

The FM2N is a camera that puts you in charge. Using 60/40 center-weighted metering, you select the aperture, you select 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).

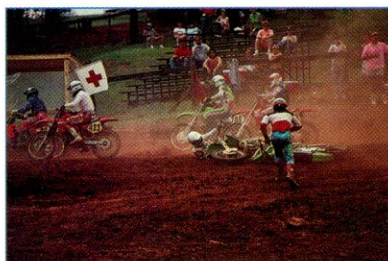
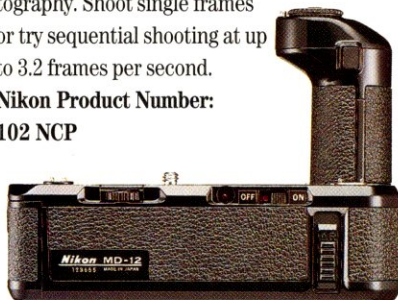




### MOTOR DRIVE MD-12

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



### 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



**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.



### 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.

### NEW TITANIUM BODY FM2T

If you're going to extremes to get a great photograph, consider the new FM2T version of the FM2N. Made with an incredibly strong titanium outer shell, this camera is highly shock and corrosion resistant. All other specifications and features are the same as the FM2N.

Nikon Product Number: 1685 NCP



### F M 2 N

- 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)



# 35Ti

## QUARTZ DATE

### A WHOLE NEW CLASS OF CAMERA

Here's an elegant new class of  
camera that combines Nikon's SLR  
image quality with a compact,  
lightweight, titanium body.

A superb Nikkor

35mm f/2.8 lens,

6-segment matrix

metering, 3-D matrix-balanced fill-

flash, programmed auto-exposure,

built-in data imprint, plus standard

and panorama formats, make the

35Ti a whole new way to take Nikon

photographs.



#### TITANIUM OUTER BODY

The 35Ti's body is made of aerospace-quality titanium. Rigid, lightweight and durable, it protects the camera from abrasion, corrosion and shock.



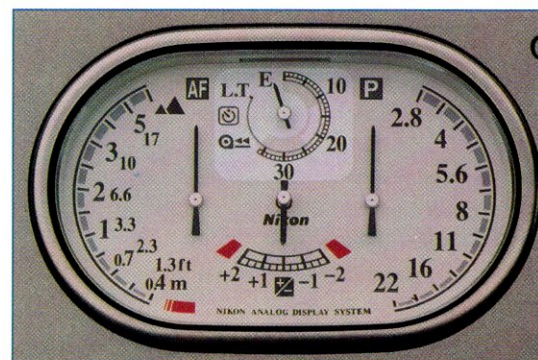
#### WORLD CLASS NIKKOR 35MM F/2.8 LENS

Made with Nikon's high refractive, low-dispersion glass, this integrated-coated lens yields photos of exceptional sharpness and color. Automatically retracts into camera body for travel.



#### UNIQUE ANALOG DISPLAY PANEL

The 35Ti uses highly accurate and easy-to-read pointers. Focus selection, aperture in use, exposure compensation values, frame count, time exposure and self-timer are easily set.



#### VIRTUALLY CONTINUOUS AUTOFOCUS

The 35Ti's autofocus system provides 833 focusing positions ("steps"). This makes it the most precise infrared autofocus system available today. Focus as close as 1.3 feet. Manual focus with analog focus display.



### 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 3-D 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

The 35Ti's Programmed Auto exposure mode automatically sets optimum aperture and shutter speed. Aperture Priority mode lets you select aperture for depth-of-field control. Flexible Program sets different combinations of shutter and aperture while maintaining correct exposure.

### ADVANCED FLASH

The built-in flash on the 35Ti 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 control 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.

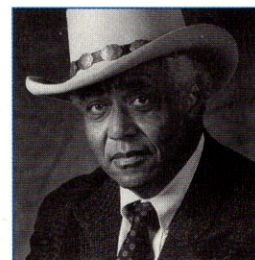
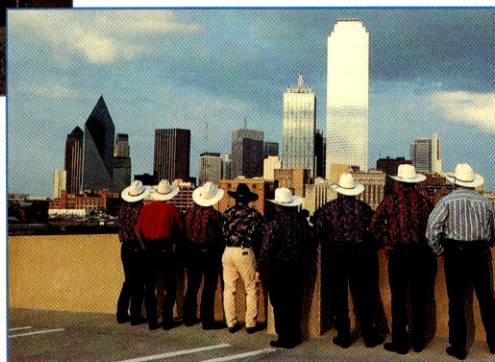
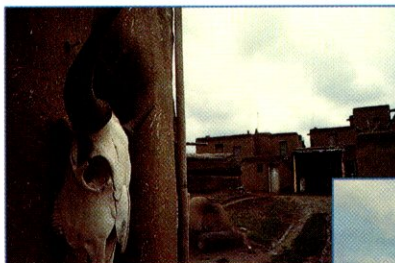


PANORAMA FORMAT

### CUSTOM FUNCTIONS

Using the 35Ti's Command Input Control Dial, you can change several operating features to meet your needs. Select Auto Flash or Flash Cancel. 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, on the first shot of each roll. Use Display Reset to return the camera to its original positions. Display panorama frames marks inside viewfinder.

*"The 35Ti is a great camera. Its pictures are tremendously sharp and the advanced technology packed into this camera rivals*



*its professional counterparts. There's never been anything like it!"*

*Barry D. D. D.*

### 35Ti

- Advanced Nikon features in a lightweight, durable titanium body
- Built-in Nikkor 35mm f/2.8 lens with integrated optical coating for sharp, clear photos
- Built-in flash
- 6-segment matrix metering and center-weighted metering (75/25 balance)
- Provides 3-D matrix-balanced fill-flash for incredible flash photography
- Virtually stepless Autofocus 833 AF system 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 35Ti operation
- Includes leather case, battery and film.

Nikon Product Number: 9630 NAS  
Available early 1994



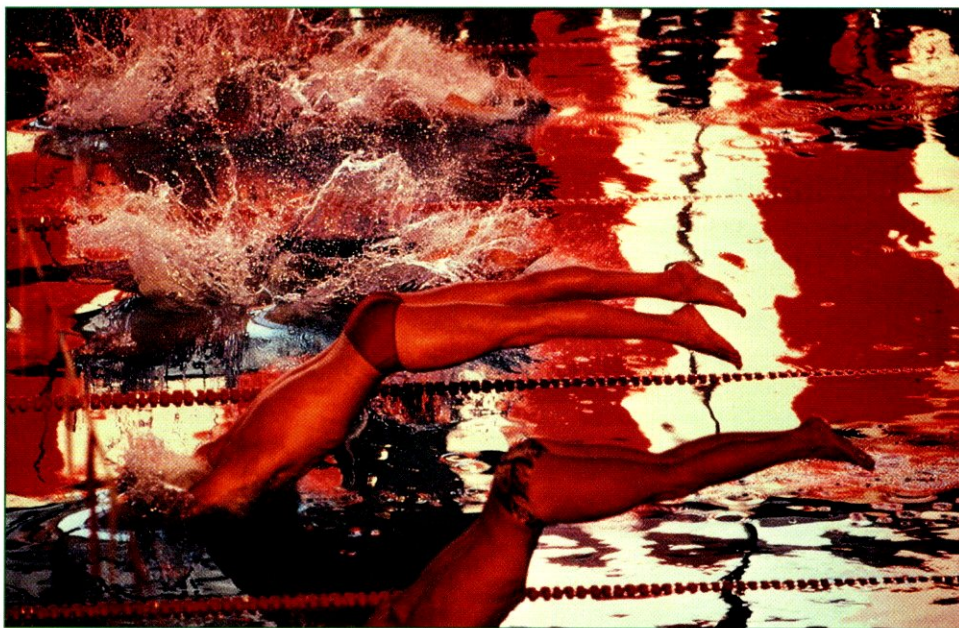
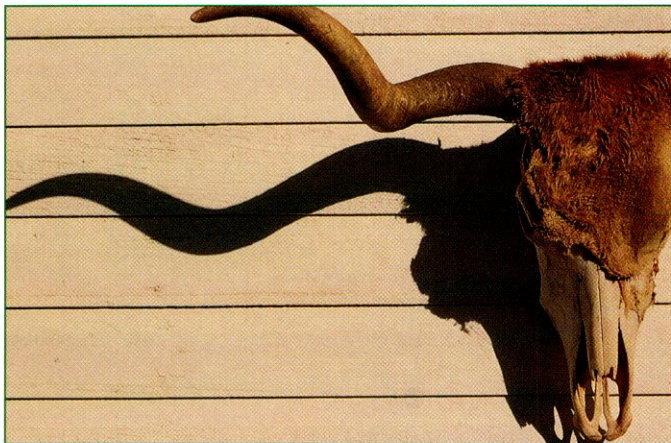
# NIKKOR 35MM LENSES

## LIKE NO OTHER LENSES IN THE WORLD

*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 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. Even Nikon's newest and most advanced lenses can be easily attached to the stainless steel F mounts of Nikon cameras dating back to the Eisenhower era. So invest in a Nikkor with confidence.*



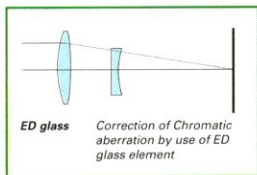


## GREAT LENSES START WITH GREAT OPTICAL GLASS

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.

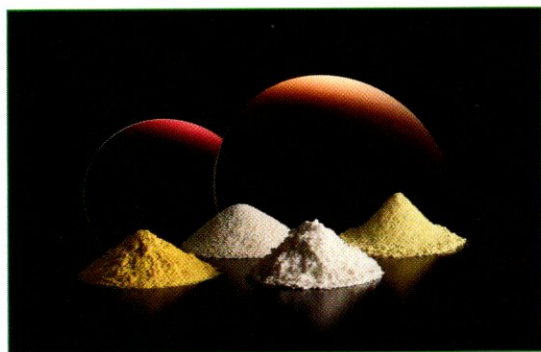
## EXTRA-LOW DISPERSION GLASS — A NIKON INNOVATION

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 eliminates the "color fringing" common with regular glass in longer focal lengths.



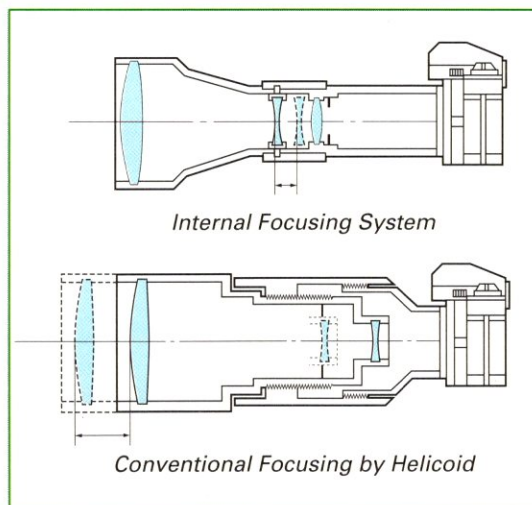
## NIKON INTEGRATED COATING

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 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 line-up. The end result is the world's greatest pictures.



## NIKON CLOSE RANGE CORRECTION SYSTEM

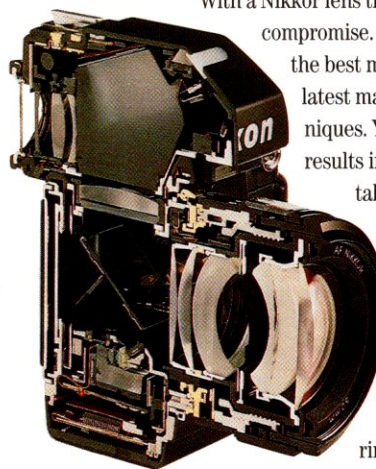
When focusing at extremely close distances most lenses offer image quality that is diminished. Clearly, that isn't good enough for Nikon. We invented an entirely new system for close-range focusing. With Nikon CRC (close range correction), the lens elements shift position in relation to each other, so 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.

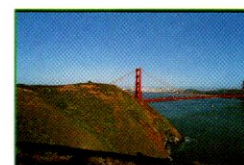
## QUALITY MECHANICAL CONSTRUCTION



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.

## GOING TO ANY LENGTHS

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



20MM



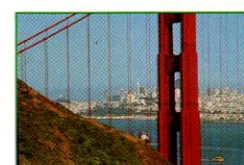
35MM



50MM



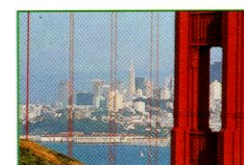
85MM



135MM



200MM



300MM

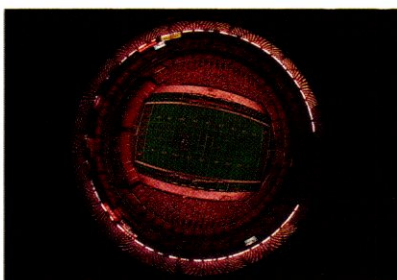


600MM



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

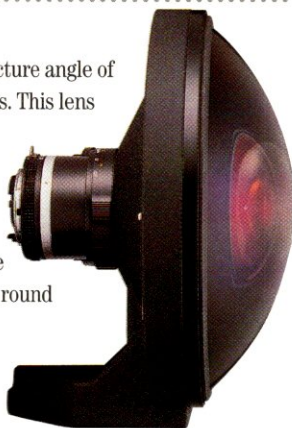
Originally developed for scientific or industrial applications, Fisheye lenses are now also widely used in advertising, commercial, and general photography. Fisheye lenses create a dramatic effect, showing the viewer the world as a fish might see it. With coverage up to 220° — virtually seeing backwards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

**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 photographing in dim light or with 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.

**Nikon Product Number: 1402 NAS**



### 16MM F/2.8 FISHEYE-NIKKOR AIS

Weighing only 10.5 ounces, and as small as a normal lens, this Fisheye is ideal for special effects applications where exceptional portability is a benefit — photojournalism, for example. 180° coverage for exaggerated perspective rendition. Bright f/2.8 aperture for photographing in dim light or with fast shutter speeds. Full-aperture viewing and metering. Easy filter interchange; 4 filters bayonet onto the back of the lens. High contrast images even at full aperture.

**Nikon Product Number: 1408 NAS**



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

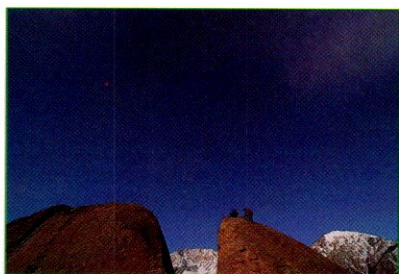
Combines the special effects advantages of 180° coverage with Nikon's advanced D-type autofocus lens technology. Distance information is automatically provided to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash possible. Bright f/2.8 aperture for photographing in dim light or with fast shutter speeds. Full-aperture viewing and metering. Easy filter interchange. High-contrast images even at full aperture. Exceptionally lightweight for a fisheye lens.

**Nikon Product Number: 1910 NAS**



## ULTRA-WIDE ANGLE LENSES (13MM, 15MM, 18MM, 20MM)

Ultra-wide angle 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-wide angle lenses render straight lines in the subject as straight lines in the photograph.

Another interesting feature of an ultra-wide angle 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-wide angle lens creates a striking impression of three-dimensionality.

### 13MM F/5.6 NIKKOR AIS

118° picture coverage — the widest of any ultra-wide angle lens in 35mm photography. Ideal for single-shot panoramas of landscapes. Straight-line rendition of subjects. Nikon lens technology eliminates light falloff 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 4 filters which bayonet onto the back of the lens.

**Nikon Product Number: 1410 NAS**



### 15MM F/3.5 NIKKOR AIS

Panoramic 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 4 filters which bayonet onto the back of the lens.

**Nikon Product Number: 1412 NAS**





#### 18MM F/3.5 NIKKOR AIS

This ultra-wide angle lens gives you 100° picture coverage with edge-to-edge sharpness. Ideal for scenic photography. Bright f/3.5 maximum aperture insures rapid composing and accurate, pinpoint focusing even in dim light. Close-Range Correction System for sharp focusing down to 10 inches. Accepts 72mm filter.



**Nikon Product Number: 1413 NAS**

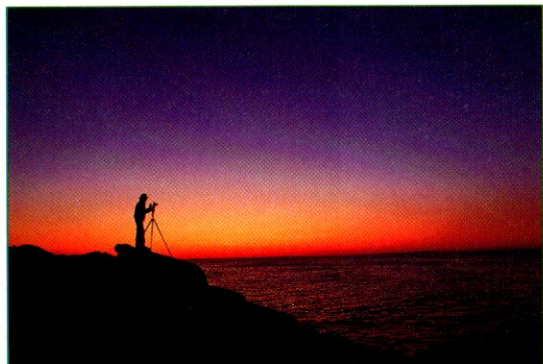
#### 20MM F/2.8 AF NIKKOR AIS

This extremely bright ultra wide-angle autofocus lens allows for pinpoint focusing even in dim light. 94° picture coverage with edge-to-edge sharpness. Tremendous depth of field enables quick shooting for action photography. Close-Range Correction System for distortion-free pictures as close as 10 inches. Superior Nikon lens technology eliminates light fall-off even when wide open. Accepts 62mm filters.



**Nikon Product Number: 1912 NAS**

### WIDE-ANGLE LENSES (24MM, 28MM, 35MM)



When you're shooting "on the run," with no time to focus or compose carefully, Nikon wide-angle 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 wide-angle lenses have a variety of applications, including photojournalism, commercial, and travel photography.

#### 24MM F/2 NIKKOR AIS

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.



Weights only 10.5 ounces. Superb picture quality, even as close as 12 inches, thanks to Nikon's Close-Range Corrections System. Accepts 52mm filters.

**Nikon Product Number: 1417 NAS**

#### 24MM F/2.8 AF NIKKOR AIS

Wide 84° picture angle for shooting a wide variety of subjects, including scenics, buildings, and interiors. Weighs only 8.75 ounces. Close-Range Correction System for edge-to-edge sharpness at minimum focusing distance of 12 inches. 10X magnification close-ups can be achieved by mounting the lens in reverse on a bellows unit. Accepts 52mm filters.

**Nikon Product Number: 1915 NCP**



#### 28MM F/1.4 D AF NIKKOR

This exceptionally fast autofocus wide-angle lens is perfect for low-light photography. No photojournalist should board a plane without one. Nikon D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash possible.

**Nikon Product Number: 1921 NAS**



#### 28MM F/2 NIKKOR AIS

Considered the standard wide-angle 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, 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 12.5 ounces. Accepts 52mm filters.

**Nikon Product Number: 1419 NAS**



#### 28MM F/2.8 AF NIKKOR AIS

Designed for the photographer who wants to carry only one wide-angle lens, the 28mm f/2.8 AF Nikkor offers exceptional flexibility for use in many applications, from landscapes to star trails. 74° picture coverage. Focus down to 9 inches. Close-Range Correction System ensures sharpness. Weighs only 8.75 ounces. Accepts 52mm filters.

**Nikon Product Number: 1917 NCP**



#### 35MM F/1.4 NIKKOR AIS

One of the fastest Nikkor wide-angle 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.

**Nikon Product Number: 1429 NAS**



#### 35MM F/2 AF NIKKOR AIS

A popular choice for travel photography and candid, the 35mm f/2 AF Nikkor offers autofocus capability, plus 62° picture coverage, additional depth of field, and a wide maximum aperture. Weighs only 9.8 ounces. Accepts 52mm filters.

**Nikon Product Number: 1920 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.

**Nikon Product Number: 1435 NAS**



### 50MM F/1.4 AF NIKKOR AIS

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 8.75 ounces. An ideal first lens, perfect for full-length portraits, travel photography, or any type of available-light shooting.

**Nikon Product Number: 1904 NCP**



### 50MM F/1.8 AF NIKKOR AIS

An affordable Nikkor that combines the ease of autofocus operation with advanced Nikon optics. Ideal for scenery or full-length portraits. Weighs only 7.7 ounces. Stops down to f/22 for additional depth of field control. Accepts 52mm filters.

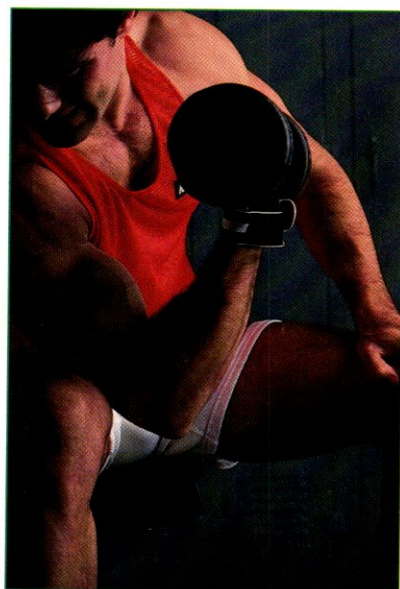
**Nikon Product Number: 1906 NCP**



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

Portraits or candid shots 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.

**Nikon Product Number: 1450 NAS**



### 105MM F/1.8 NIKKOR AIS

Ideal for candid, portraits, sports, and available-light shooting. The fastest lens on the market in the 100 - 105mm class. Shallow depth of field and natural perspective insure life-like portraits. Uses 62mm filters.

**Nikon Product Number: 1457 NAS**



### 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.

Autofocus option. Nikon D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash possible.

**Nikon Product Number: 1932 NAS**



### 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. Uses standard 52mm filters.

**Nikon Product Number: 1456 NCP**



### 85MM F/1.8 AF NIKKOR AIS

Autofocus capability for easy indoor or outdoor portraiture. Exceptionally compact for a telephoto lens. Focuses down to 36 inches. Accepts 62mm filters. An excellent choice for your first telephoto lens.

**Nikon Product Number: 1930 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 AF-DC NIKKOR AIS

Features unique Nikon Defocus-image Control technology, which allows you to control background and foreground blur, resulting in striking portraits. Autofocus capability. Large maximum aperture for shooting in dim light. Accepts 72mm filters. **Nikon Product Number: 1934 NAS**



### 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. Accept 52mm filters. **Nikon Product Number: 1462 NCP**



### 180MM F/2.8N ED-IF AF NIKKOR AIS

Ideal for sports, action, or news photography. Features Nikon IF (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 72 mm filters. **Nikon Product Number: 1939 NAS**



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

The professional's choice for sports and action photography. Extraordinarily fast f/2 maximum aperture allows high shutter speeds in lower light. Shooting at f/2

isolates subject from distracting background for incredible 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 shooting. Accepts 122mm filters. **Nikon Product Number: 1465 NAS**



### 300MM F/2.8 D ED-IF AF-I NIKKOR AIS

Nikon technology makes this lens ideal for sports photography. Built-in D/C coreless focus-driving motor assures lightning fast autofocus operation. Instant manual focus override just by touching the focus ring. Nikon ED glass for sharp, clear, colorful telephoto pictures. Accepts 39mm filters. **Nikon Product Number: 1942 NAS**



### 300MM F/2.8 ED-IF AF NIKKOR

Large maximum aperture for capturing sports action, even in dim light. Autofocus capability. Nikon Internal Focusing for compactness. Nikon ED glass assures sharp images. Built-in telescopic "bayonet-type" lens hood and 360° rotatable tripod socket collar. **Nikon Product Number: 1945 NAS**



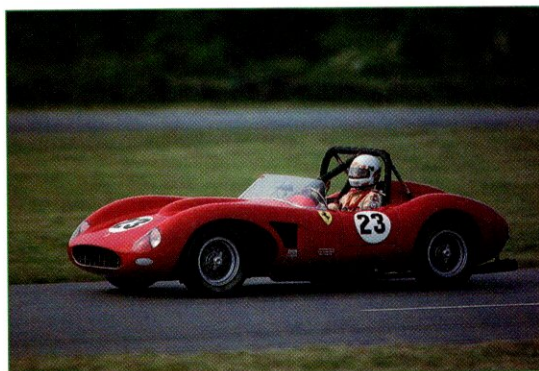
### 300MM F/4 ED-IF AF NIKKOR AIS

Spectacular telephoto effects can be achieved with this exceptionally light 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. **Nikon Product Number: 1946 NAS**



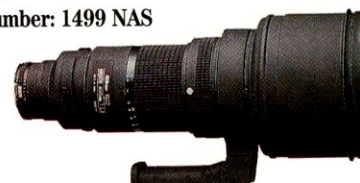
## SUPER-TELEPHOTO LENSES (400MM, 600MM, 800MM)

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/2.8 ED-IF NIKKOR AIS

Exceptionally wide maximum aperture for a 400mm lens, ideal for creating dramatic, frame-filling images in dim light. Nikon Internal Focusing technology assures smooth focusing action without any extension of the lens barrel. ED glass for sharp images. Accepts 52mm filters. **Nikon Product Number: 1499 NAS**





#### 400MM F/2.8 D 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 D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash possible. Nikon Internal Focusing technology assures smooth focusing action without any extension of the lens barrel. ED glass for sharp images.

**Nikon Product Number: (to be announced)**

**Available early 1994**



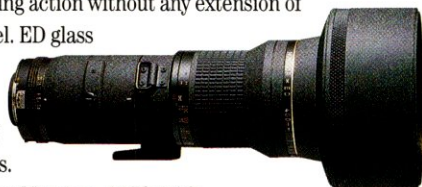
#### 400MM F/3.5 ED-IF NIKKOR AIS

For capturing fast-moving sports action in a variety of lighting conditions. Nikon Internal Focusing technology assures smooth focusing action without any extension of the lens barrel. ED glass

for sharp

images.  
Accepts 39 or  
122mm filters.

**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. Weighs only 42 ounces. Nikon Internal Focusing technology

assures  
smooth focus-  
ing action  
without any  
extension of the

lens barrel. ED glass for sharp images. Accepts 72mm filters.

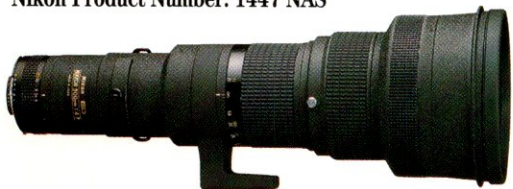
**Nikon Product Number: 1489 NAS**



#### 500MM F/4 P 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.

**Nikon Product Number: 1447 NAS**



#### 600MM F/4 D ED-IF AF-I NIKKOR AIS

Built-in D/C coreless focus-driving motor assures lightning fast autofocus operation.

Great for sports photography. Instant manual focus override just

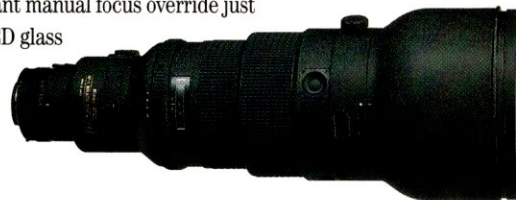
by touching the focus ring. Nikon ED glass

for sharp, clear, colorful telephoto

pictures. Accepts 39mm filters.

**Nikon Product Number:**

**1951 NAS**



#### 600MM F/4N ED-IF NIKKOR AIS

The same level of magnification as the 600mm f/4, but without the focus-driving motor. Another

good option for sports photographers. Nikon Internal Focusing technol-

ogy assures smooth focusing action without any extension of

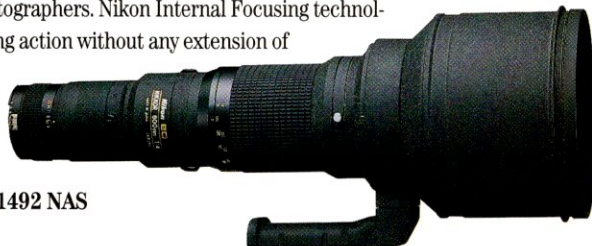
the lens barrel. Nikon ED

glass for sharp, clear, col-

orful telephoto pictures.

Accepts 39mm filters.

**Nikon Product Number: 1492 NAS**



#### 600MM F/5.6N ED-IF NIKKOR AIS

Relatively compact and light for its long focal length. Weighs only 94.5 ounces. Ideal for sports,

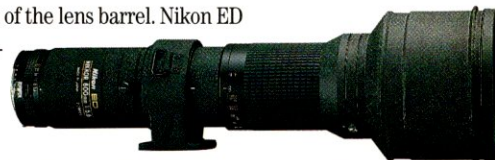
wildlife, and available-light shooting. Nikon Internal Focusing technology assures smooth

focusing action without any extension of the lens barrel. Nikon ED

glass for sharp, clear, colorful telepho-

to pictures. Accepts 39mm filters.

**Nikon Product Number: 1494 NAS**



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

Frame-filling 16X magnification of the subject.

Ideal for shooting

sports, wildlife, or

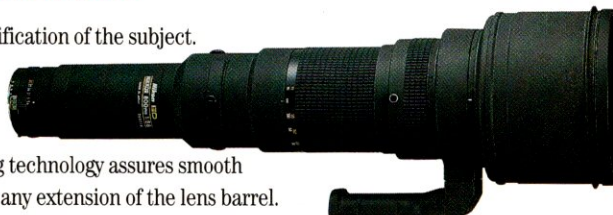
astrophotography.

Nikon Internal Focusing technology assures smooth

focusing action without any extension of the lens barrel.

Nikon ED glass for sharp, clear, colorful telephoto pictures.

**Nikon Product Number: 1446 NAS**



#### 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.

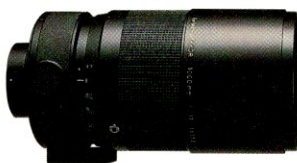




#### 500MM F/8N REFLEX-NIKKOR

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.

**Nikon Product Number: 953 NCP**



#### 1000MM F/11N REFLEX-NIKKOR

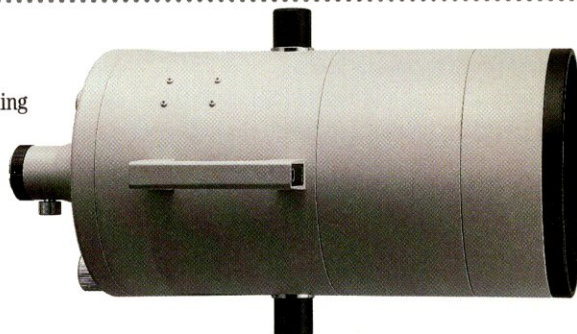
Ideal for photographing shy or dangerous animals. Powerful frame-filling 20X magnification. Outstanding picture quality. Very compact and light for its long focal length.

**Nikon Product Number: 952 NAS**

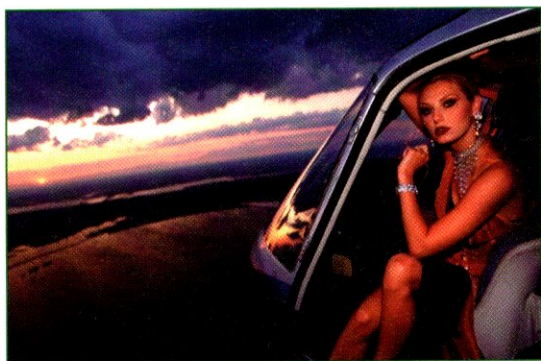
#### 2000MM F/11 REFLEX-NIKKOR

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.

**Nikon Product Number: 978 NAS**



### ZOOM LENSES (20- 35MM, 24-50MM, 35-70MM, 50-300MM, 80-200MM, 200-400MM, 180-600MM, 360-1200MM)



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.

Autofocus for ease-of-use. Focus down to 1.6 feet. Superb picture quality at every focal length. Accepts 62mm filters.

**Nikon Product Number: 1954 NCP**

#### 28-70MM F/3.5-4.5 D AF ZOOM-NIKKOR AIS

Zoom from wide-angle to moderate telephoto by turning zoom control. Nikon D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Fill-Flash possible. Autofocus for ease-of-use. Focus down to 16 inches. Accepts 52mm filters.

**Nikon Product Number: 1956 NCP**



#### 28-85MM F/3.5-4.5 AF ZOOM-NIKKOR AIS

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.

**Nikon Product Number: 1959 NCP**



#### 20-35MM F/2.8 D AF ZOOM-NIKKOR

A new, incredibly sharp and fast wide-angle zoom that incorporates three popular focal lengths -- 20mm, 24mm and 35mm. Holds its f/2.8 speed over the entire range of focal lengths. Nikon D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash possible.

**Nikon Product Number: 1953 NAS**



#### 35-70MM F/2.8 D AF ZOOM-NIKKOR

One of the fastest Zoom-Nikkors, capable of handling low-light shooting situations. Nikon D-type lens technology provides distance information to the Nikon N90 camera, making 3D Matrix Metering and 3D Multi-Sensor Fill-Flash possible. Constant 2.8 aperture throughout entire zoom range. Autofocus for ease-of-use. Focus down to 11 inches. Accepts 62mm filters.

**Nikon Product Number: 1963 NAS**



#### 24-50MM F/3.3-4.5 AF ZOOM-NIKKOR AIS

Zoom from wide-angle to normal by turning zoom control. Ideal for many applications, from candid to travel photography.



#### 35-80MM F/4-5.6 D AF ZOOM-NIKKOR AIS

Weighing in at only 8.5 ounces, this powerful little zoom is ideal for travel photography. Autofocus for ease-of-use. Focus down to 14 inches. Accepts 52mm filters.

**Nikon Product Number: 1970 NCP**





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

Extensive 3X zoom range for wide-angle, normal, telephoto, and macro photography, by sliding the zoom control. A great travel lens. Autofocus for ease-of-use. Focus down to 11 inches. Accepts 52mm filters.  
**Nikon Product Number: 1967 NCP**



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

A versatile wide-angle-to-medium telephoto lens, great for travel, candids, portraits, and close-ups. Autofocus for ease-of-use. Focus down to 12 inches. Accepts 62mm filters.  
**Nikon Product Number: 1969 NCP**



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

A very versatile wide-angle-to-telephoto lens. Focus and compose quickly with one-touch focus zoom ring. A great lens for candids, full-length, and head-and-shoulder portraits.



Focus down to 12 inches.  
Accepts 62mm filters.  
**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 ensures outstanding picture quality. Focus down to 8.5 feet. Accepts 95mm filters.



**Nikon Product Number: 1483 NAS**

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

An extremely popular mid-range zoom, suitable for many applications, including head-and-shoulder portraiture and travel photography. Autofocus for ease-of-use. Focus down to 46 inches. Accepts 62mm filters.



**Nikon Product Number: 1979 NCP**

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

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.  
**Nikon Product Number: 1982 NCP**



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

The world's fastest telephoto zoom lens, ideal for indoor sports photography and photojournalism in dim light. Autofocus for ease-of-use. Nikon Internal Focusing technology for compactness. Nikon ED glass for sharp pictures. Accepts 77mm filters.  
**Nikon Product Number: 1985 NAS**



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

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.  
**Nikon Product Number: 1490 NAS**



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

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.  
**Nikon Product Number: 1448 NAS**



**SPECIAL PURPOSE LENSES (NOCT, MICRO, MEDICAL, PC, 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.

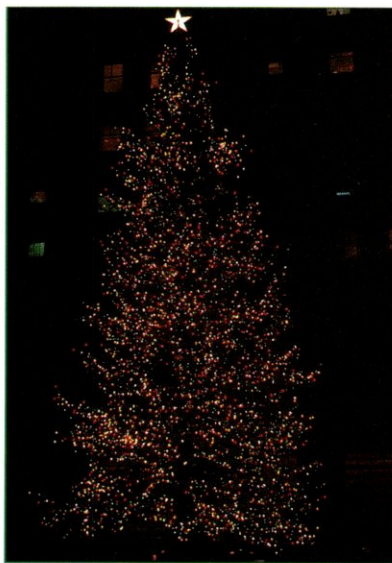
**58MM F/1.2 NOCT-NIKKOR**

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.  
**Nikon Product Number: 1439 NAS**



**55MM F/2.8 MICRO-NIKKOR AIS**

An ideal close-up lens that offers normal perspective. Focuses continuously from infinity down to 1/2 lifesize. Stops down to f/32 for additional depth of field. Accepts 52mm front screw-in filters.  
**Nikon Product Number: 1442 NAS**





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

This incredible AF lens focuses from infinity down to 1:1 or lifesize reproductions without any accessories. Ideal for close-up photographs as well as general purpose shooting. UR-3 adapter ring (#2396) required for use with SB-21 Macro Speedlight. Accepts 62mm filters.

**Nikon Product Number: 1991 NCP**



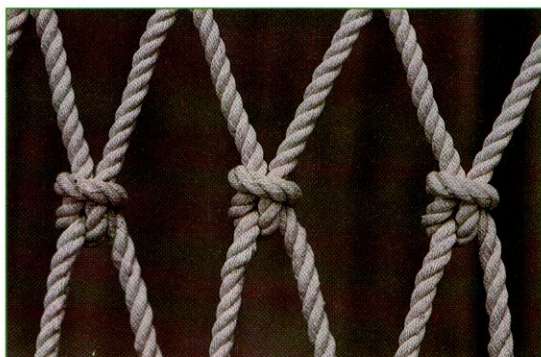
#### 105MM F/2.8 AF MICRO-NIKKOR AIS

Ideal for photographing pets, insects, or wildlife. Automatically focuses continuous-



ly from infinity down to 1/2 life-size. Stops down to f/32 for additional depth of field. Accepts 52mm filters.

**Nikon Product Number: 1992 NCP**



#### 200MM F/4 IF MICRO-NIKKOR AIS

Ideal for close-up shots of inaccessible subjects. Nikon Internal Focusing technology keeps the size of the lens unchanged as you focus. Continuous operation from infinity to a reproduction ratio of 1:2. Accepts 52mm filters.

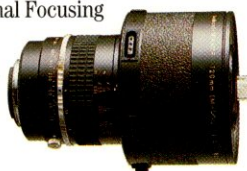
**Nikon Product Number: 1468 NAS**



#### 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 lifesize. Requires AC Power Unit LA-2 (#4506) or DC Power Unit LD-2 (#4505) for flash operation.

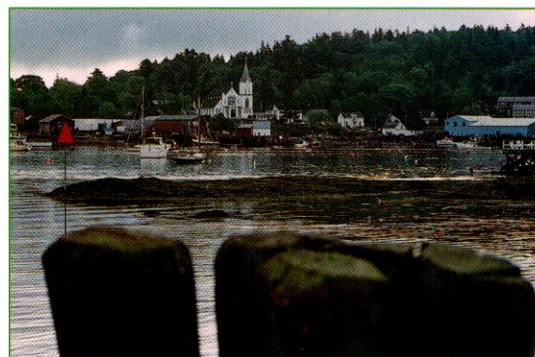
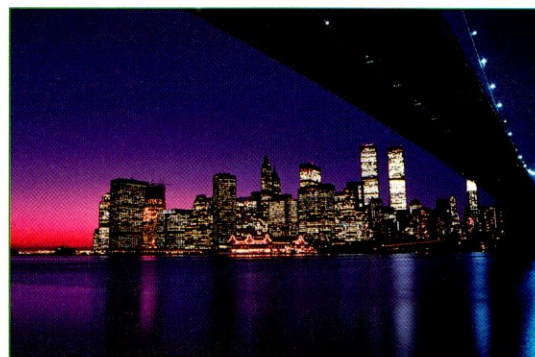
**Nikon Product Number: 983 NAS**



#### 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. Weighs only 7.7 ounces. Accepts 52mm filters.

**Nikon Product Number: 1024 NAS**



#### 35MM F/2.8 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. 62° picture coverage. For 7X magnification, mount lens in reverse on bellows unit. Weighs only 8.5 ounces. Compatible with 52mm filters.

**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. It is supplied with an AF-1 Gel Holder, UR-2 Adapter Ring and Nikon UV filter.

**Nikon Product Number: 1453 NAS**





# BUILDING YOUR SYSTEM

## ALL THE RIGHT LENSES AT ALL THE RIGHT TIMES

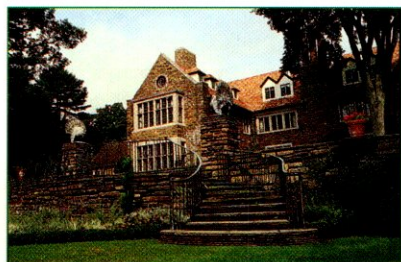
For almost all photographers, building a photographic system means adding lenses. That's because different lenses allow you to capture subjects in different ways. You can reach out, move up close, or simply shoot without being noticed. From travel, to people and portraits, to fast-action, this section 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 70mm to 210mm f/4-5.6 D 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 wide-angle 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/3.5-4.5 D 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.

"AN ARRAY OF LENSES HELP YOU CONTROL WHAT YOUR FEELING IS ABOUT A PARTICULAR SUBJECT — YOU'RE NOT LIMITED TO ONE WAY OF SEEING. WIDE-ANGLE LENSES LET YOU ESTABLISH AN ENTIRE SCENE. LONGER FOCAL LENGTH LENSES LET YOU CONCENTRATE ON SUBTLETIES, 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."



### LENS ACCESSORIES

Things can get a little bumpy when you travel, so be sure to fit each Nikkor lens with a Skylight 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

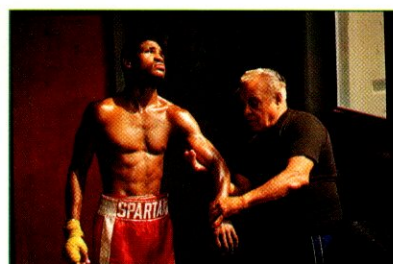
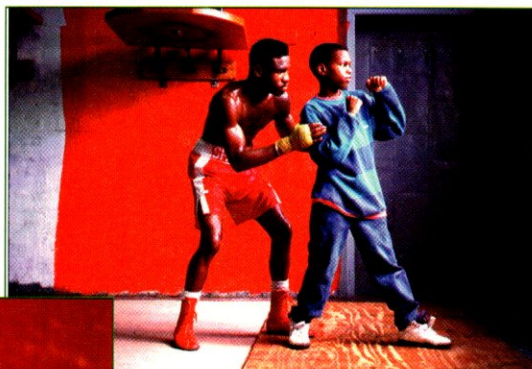
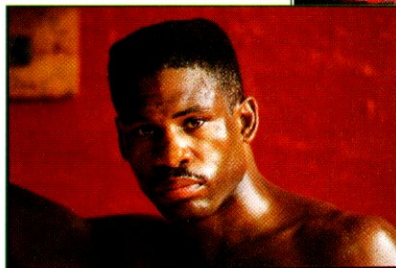
	Basic	Advanced	Advanced +	High Speed
<b>Telephoto Zoom</b>				
75-300mm f/4.5-5.6		#2 choice		
70-210mm f/4-5.6 D	#2 choice			
80-200mm f/2.8 D		#4 choice	#1 choice	#1 choice
<b>Wideangle Zoom</b>				
20-35mm f/2.8 D				#1 choice
24-50mm f/3.3-4.5			#1 choice	
28-70mm f/3.5-4.5 D		#1 choice	#2 choice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

### 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.

### PEOPLE AND PORTRAIT SYSTEMS

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



### 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 Wide-angle 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

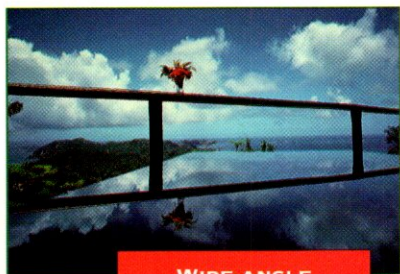
Your investment in these top-of-the-line Nikon lenses demands the protection offered by Skylight filters and lens hoods. Adding an array of other filters can greatly increase the quality of your photographs.

### FAST-ACTION SYSTEMS

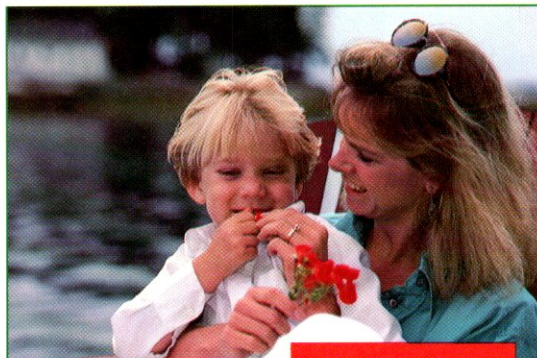
300mm f/2.8 D AF  
400mm f/2.8 D AF  
80-200mm f/2.8 D AF  
28mm f/1.4 D AF  
20mm f/2.8 AF  
50mm f/1.4



CAPTURE YOUR IMAGINATION WITH NIKKOR LENSES



WIDE-ANGLE

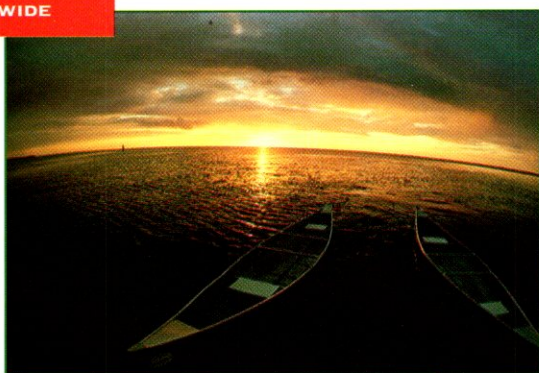


MODERATE  
TELEPHOTO

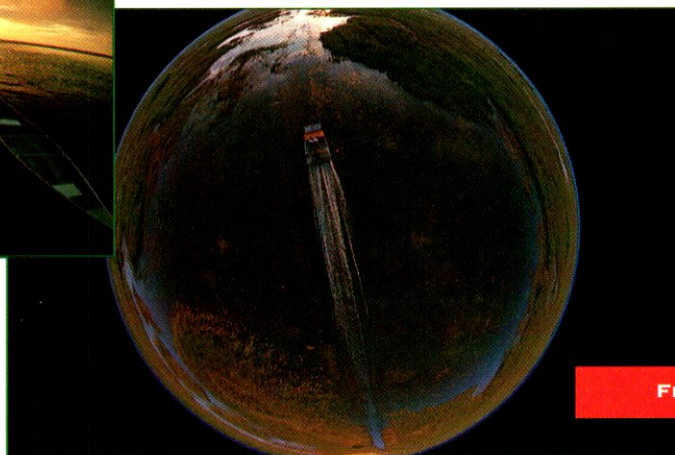


SUPER TELEPHOTO

ULTRAWIDE

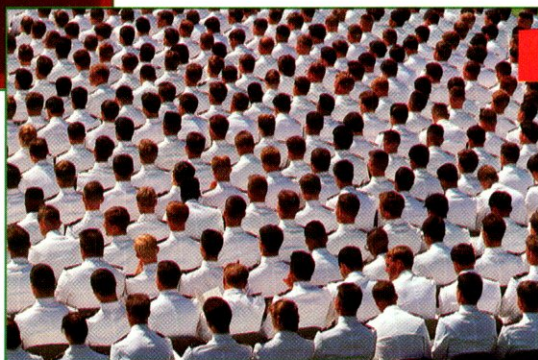


MACRO

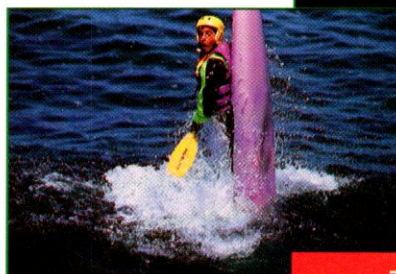
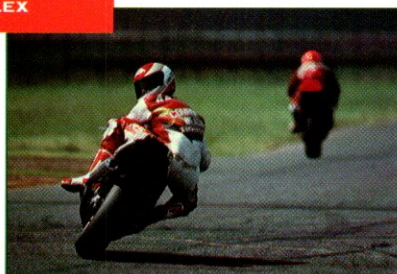


FISHEYE

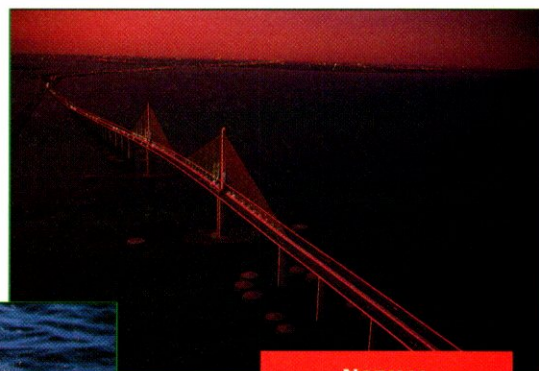
TELEPHOTO



REFLEX



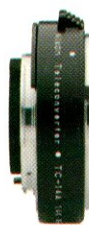
ZOOM



NORMAL



# TELECONVERTERS FOR NIKKOR SLR LENSES



TC-14A



TC-14B



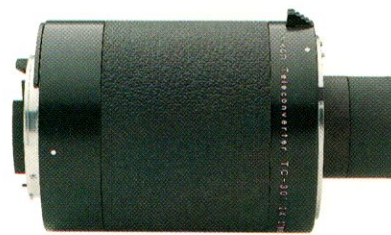
TC-14E



TC-20E



TC-201



TC-301

## EXTENDING YOUR VISION

Increase the focal length of virtually any Nikkor SLR lens (including zoom lenses) by adding a Nikon Teleconverter. Nikon Teleconverters can be mounted in seconds between the lens and the camera, and can as much as double the effective focal length of the lens in use. For example a 1.4x teleconverter will increase the focal length of a 50mm lens to 70mm; a 2x Nikon Teleconverter will increase the focal length of a 50mm lens to 100mm; and so on.

Please note: Nikon Teleconverters represent the same attention to detail and quality as other Nikon products. However the use of teleconverters may have some inherent limitations (for example, a decrease in f/stop). Also, Nikon AF/AIS lenses must be manually focused when used with teleconverters. For greatest satisfaction, be sure to check the Lens/Teleconverter Compatibility chart below before choosing your Nikon Teleconverter.

## NIKON TELECONVERTERS

### Teleconverter

<b>TC-14A</b>	1.4x Teleconverter for Nikkor AF/AIS lenses 200mm or less
<b>TC-14B</b>	1.4x Teleconverter for Nikkor AF/AIS lenses 300mm or more
<b>TC-201</b>	2x Teleconverter for Nikkor AF/AIS lenses 200mm or less
<b>TC-301</b>	2x Teleconverter for Nikkor AF/AIS lenses 300mm or more
<b>TC-14E</b>	1.4x Teleconverter for Nikkor AF-I lenses
<b>TC-20E</b>	2x Teleconverter for Nikkor AF-I lenses

### Nikon Product Number

<b>1400 NCP</b>
<b>1401 NAS</b>
<b>1403 NCP</b>
<b>1404 NAS</b>
<b>1995 NAS</b>
<b>1997 NAS</b>

## LENS/ TELECONVERTER COMPATIBILITY

The following table lists various Nikkor lenses which can be used in conjunction with Nikon Teleconverters TC-14A, TC-14B, TC-201 and TC-301; compatibility is detailed in the right hand columns.

- Perfectly matched with autofocus operation
- ◆ Matched, no autofocus operation
- Usable, but without filter
- Usable, but at a close focused distance, vignetting or other image deterioration may occur.
- ▲ Usable, but vignetting or other image deterioration may occur.
- + Not usable, because it cannot be mounted, or vignetting or other image deterioration will ruin the photo.

**Note:**  
The smaller the aperture, the less vignetting.  
When these lenses are used at apertures smaller than f/11 with higher shutter speeds, there is occasional unevenness of illumination on the film.

Non-AI lenses cannot be used; even when AI-modified, some lenses cannot be used.

**Caution:**  
Never attach the TC-14A to the GN-Nikkor 45mm f/2.8, the lens or TC-14A could be damaged.

	TC-14A	TC-14B	TC-201	TC-301
<b>AF NIKKOR</b>				
AF 20-35mm f/2.8 D	◆	◆	◆	◆
AF 24-50mm f/3.3-4.5	◆	◆	◆	◆
AF 28-70mm f/3.5-4.5 D	◆	◆	◆	◆
AF 28-85mm f/3.5-4.5	◆	◆	◆	◆
AF 35-70mm f/2.8 D	◆	◆	◆	◆
AF 35-70mm f/3.3-4.5	◆	◆	◆	◆
AF 35-80 f/4.5-5.6 D	◆	◆	◆	◆
AF 35-105mm f/3.5-4.5	◆	◆	◆	◆
AF 35-135mm f/3.5-4.5	◆	◆	◆	◆
AF 70-210mm f/4.5-5.6 D	◆	◆	◆	◆
AF 75-300mm f/4.5-5.6	▲	▲	▲	▲
AF 80-200mm f/2.8 D	◆	◆	◆	◆
AF 20mm f/2.8	◆	◆	◆	◆
AF 24mm f/2.8	◆	◆	◆	◆
AF 28mm f/1.4 D	◆	◆	◆	◆
AF 28mm f/2.8	◆	◆	◆	◆
AF 35mm f/2	◆	◆	◆	◆
AF 55mm f/1.8	◆	◆	◆	◆
AF 180mm f/2.8 ED IF	◆	◆	◆	◆
AF 300mm f/2.8 ED IF	◆	◆	◆	◆
AF 300mm f/4 ED IF	◆	◆	◆	◆
AF 50mm f/1.4	◆	◆	◆	◆
AF 50mm f/1.8	◆	◆	◆	◆
AF Micro 60mm f/2.8	◆	◆	◆	◆
AF Micro 105mm f/2.8	◆	◆	◆	◆
AF DC 135mm f/2	◆	◆	◆	◆
<b>AF-I NIKKOR</b>				
AF-I 300mm f/2.8 D	+	+	○	○
AF-I 400mm f/2.8 D	+	+	○	○
AF-I 600mm f/4 D	+	+	○	○
<b>Zoom</b>				
28-85mm f/3.5-4.5	◆	◆	◆	◆
35-70mm f/3.3-4.5	◆	◆	◆	◆
35-105mm f/3.5-4.5	◆	◆	◆	◆
35-135mm f/3.5-4.5	◆	◆	◆	◆
35-200mm f/3.5-4.5	◆	◆	◆	◆
80-200mm f/4	◆	◆	◆	◆
50-300mm f/4.5 ED	◆	◆	◆	◆
100-300mm f/5.6	◆	◆	◆	◆
180-600mm f/8 ED	+	+	+	+
<b>WIDE ANGLE</b>				
13mm f/5.6	◆	◆	◆	◆
15mm f/3.5	◆	◆	◆	◆
18mm f/3.5	◆	◆	◆	◆
20mm f/2.8	◆	◆	◆	◆
24mm f/2	◆	◆	◆	◆
28mm f/1.4 D	◆	◆	◆	◆
24mm f/2.8	◆	◆	◆	◆
28mm f/2	◆	◆	◆	◆
28mm f/2.8	◆	◆	◆	◆
35mm f/1.4	◆	◆	◆	◆
35mm f/2	◆	◆	◆	◆
35mm f/2.8	◆	◆	◆	◆
<b>NORMAL</b>				
50mm f/1.2	◆	◆	◆	◆
50mm f/1.4	◆	◆	◆	◆
50mm f/1.8	◆	◆	◆	◆
<b>TELEPHOTO</b>				
85mm f/1.4	◆	◆	◆	◆
85mm f/2	◆	◆	◆	◆
105mm f/1.8	◆	◆	◆	◆
105mm f/2 D	◆	◆	◆	◆
105mm f/2.5	◆	◆	◆	◆
135mm f/2	◆	◆	◆	◆
135mm f/2.8	◆	◆	◆	◆
180mm f/2.8 ED	◆	◆	◆	◆
200mm f/2 ED IF	◆	◆	◆	◆
200mm f/4	◆	◆	◆	◆
300mm f/2.8 ED IF	◆	◆	◆	◆
300mm f/4.5	◆	◆	◆	◆
300mm f/4.5 ED IF	◆	◆	◆	◆
400mm f/2.8 ED IF	◆	◆	◆	◆
400mm f/3.5 ED IF	◆	◆	◆	◆
400mm f/5.6 ED IF	◆	◆	◆	◆
500mm f/4 P ED IF	◆	◆	◆	◆
600mm f/4N ED IF	◆	◆	◆	◆
600mm f/4 D	◆	◆	◆	◆
600mm f/5.6 ED IF	◆	◆	◆	◆
800mm f/5.6 ED IF	◆	◆	◆	◆
<b>REFLEX</b>				
500mm f/8	▲	▲	▲	▲
1000mm f/11	+	+	+	+
2000mm f/11	+	+	+	+
<b>FISHEYE</b>				
6mm f/2.8	◆	◆	◆	◆
8mm f/2.8	◆	◆	◆	◆
16mm f/2.8 D	◆	◆	◆	◆
16mm f/2.8	◆	◆	◆	◆
<b>SPECIAL PURPOSE</b>				
PC 28mm f/3.5	+	+	+	+
PC 35mm f/2.8	+	+	+	+
Micro 55mm f/2.8	◆	◆	◆	◆
Noct 58mm f/1.2	◆	◆	◆	◆
Micro 105mm f/2.8	◆	◆	◆	◆
Micro 200mm f/4 IF	◆	◆	◆	◆
Medical 120mm f/4 IF	+	+	+	+
UV 105mm f/4.5	+	+	+	+



## CROSS REFERENCE TABLE OF LENSES AND FILTERS/CASES/HOODS

Lens	Filter (mm)	Lens Case	Lens Hood	Lens	Filter (mm)	Lens Case	Lens Hood
<b>WIDEANGLE</b>				<b>ZOOM</b>			
○ 13mm f/5.6	Bayonet	CL-14	Built-in	AF 20-35mm f/2.8 D	77	No. 62	HB-8
○ 15mm f/3.5	Bayonet	CL-17	Built-in	AF 24-50mm f/3.3-4.5	62	CL-32S CL-17 No. 62 CP-9	HB-3
18mm f/3.5	72	CL-37 CP-8	HK-9	AF 28-70mm f/3.5-4.5 D	52	CL-32S No. 62	HB-6
20mm f/2.8	62	CL-30S NO. 61 CP-8	HK-14	28-85mm f/3.5-4.5	62	CL-33S No. 62 CP-9	HK-16
AF 20mm f/2.8	62	CL-30S No. 61 CP-8	HB-4	AF28-85mm f/3.5-4.5	62	CL-33S	HB-1
24mm f/2	52	CL-31S No. 61 CP-8	HK-2	AF 35-70mm f/2.8 D	62	CL-33S No. 62 CP-9	HB-1
24mm f/2.8	52	CL-30S No. 61 CP-8	HN-1	35-70mm f/3.3-4.5	52	CL-31S No. 62	HN-2
AF 24mm f/2.8	52	CL-30S	HN-1	AF 35-70mm f/3.3-4.5	52	CL-31S No. 62 CP-9	HN-2
AF 28mm f/1.4 D	72	CL-44 No. 62	HK-7	AF 35-80mm f/4-5.6 D	62	CL-31S No. 62	HN-2
28mm f/2	52	CL-31S No. 62 CP-8	HN-1	35-105mm f/3.5-4.5	52	CL-33S No. 62 CP-9	HK-11
28mm f/2.8	52	CL-30S No. 61 CP-8	HN-2	AF 35-105mm f/3.5-4.5	52	CL-33S	HB-5
AF 28mm f/2.8	52	CL-30S	HN-2	35-135mm f/3.5-4.5	62	CL-15S No. 63 CP-9	HN-22
35mm f/1.4	52	CL-31S No. 61 CP-8	HN-3	AF 35-135mm f/3.5-4.5	62	CL-41 No. 63 CP-9	HB-1
35mm f/2	52	CL-31S No. 61 CP-8	HN-3	35-200mm f/3.5-4.5	62	CL-13A No. 63	HK-15
AF 35mm f/2	52	CL-30S No. 61 No. 62		AF 70-210mm f/4	62	CL-35A No. 63	HN-24
		CP-8 CP-9	HN-3	AF 70-210mm f/4-5.6	62	CL-15S/CL-38 No. 63 CP-9	HN-24
35mm f/2.8	52	CL-30S No. 61 CP-8	HN-3	AF 70-210mm f/4-5.6 D	62	CL15S No. 63	HN-24
				AF 75-300mm f/4.5-5.6	62	CL-36	HN-24
<b>NORMAL</b>				AF 80-200mm f/2.8 D ED	77	CL-43A	HB-7
50mm f/1.2	52	CL-34A No. 61 CP-8	HS-12, HR-2	80-200mm f/4	62	CL-35A No. 63	HN-23
50mm f/1.4	52	CL-34A No. 61 CP-8	HS-9, HR-1	50-300mm f/4.5 ED	95	CL-64 CE-2	HK-5
AF 50mm f/1.4	52	CL-30S No. 61 CP-8	HR-2	100-300mm f/5.6	62	CL-40	HN-24
AF 50mm f/1.8	52	CL-30S No. 61 CP-8	HR-2	180-600mm f/8 ED	95	CZ-1860	HN-16
50mm f/1.8	52	CL-30S No. 61 CP-8	HR-2	1200-1700mm f/5.6-8 ED	52	Trunk case	Supplied
<b>TELEPHOTO</b>				<b>FISHEYE</b>			
85mm f/1.4	72	CL-17 No. 62 CP-9	HN-20	6mm f/2.8	Built-in	Trunk case	Built-in
AF 85mm f/1.8	62	CL31S CL-15S No. 62 CP-9	HN-23	8mm f/2.8	Built-in	CL-11	Built-in
85mm f/2	52	CL-31S No. 61 CP-8	HS-10	16mm f/2.8	Provided	CL-30S No. 61 CP-8	Built-in
105mm f/1.8	62	CL-15S No. 62 CP-9	Built-in	16mm f/2.8 D	39mm Bayonet	CL-31S No. 61	Built-in
105 f/2 D AF DC	72	CL 15S	Built-in or HS-7	<b>SPECIAL PURPOSE</b>			
105mm f/2.5	52	CL-32S No. 62 CP-9	Built-in	Noct 58mm f/1.2	52	CL-34A/CL-31S No. 61 CP-8	HS-7, HR-2
135mm f/2	72	CL-15S No. 62 CP-9	Built-in	55mm f/2.8 Micro	52	CL-31S No. 61 CP-8	
135mm f/2 AF DC	72	CL-38 No. 63 CP-9	Built-in			CL-33S* NO.62*	HN-3
135mm f/2.8	52	CL-32S No. 62 CP-9	Built-in	AF 55mm f/2.8 Micro	62	CL-32S	—
135mm f/3.5	52	CL-32S No. 62 CP-9	Built-in	AF 60mm f/2.8 Micro	62	CL-32S No. 62 CP-9	HN-22
180mm f/2.8 ED	72	CL-35A	Built-in	105mm f/2.8 Micro	52	CL-33S CP-9	HS-14
AF 180mm f/2.8 ED IF	72	CL-35A CL-38 No. 63	Built-in	AF 105mm f/2.8 Micro	52	CL-15S CP-9	HS-7
200mm f/2 ED IF	122	CT-200	Built-in (HE-4)	200mm f/4 IF Micro	52	CL-36	Built-in
200mm f/4	52	CL-13A No. 63 CP-9	Built-in	Medical 120mm f/4 IF	▲ 49	Leatherette compartment case	—
300mm f/2.8 ED IF	39	CT-302	Built-in (HE-4)				
AF 300mm f/2.8 ED IF	39	CT-303	Built-in (HE-6)	PC 28mm f/3.5	72	CL-34A No. 62	HN-9
AF 300mm f/2.8 D ED IF	39	CT-304	HK-19	PC 35mm f/2.8	52	CL-34A No. 61	HN-1
AF 300mm f/4 ED IF	● 82/39	CL-42	Built-in	UV 105mm f/4.5	52	CL-15S No. 63 CP-9	—
300mm f/4.5	72	CL-20A	Built-in	<b>TELECONVERTER</b>			
300mm f/4.5 ED IF	72	CL-20A	Built-in	TC-201	—	CL-30S No. 61 CP-8	—
400mm f/2.8 ED IF	52	CT-400 No. 59	Built-in (HE-3)	TC-301	—	CL-33S No. 62 CP-9	—
400mm f/2.8 D ED IF	52	CT-401	Built-in	TC-14A	—	CL-30S No.61	—
400mm f/3.5 ED IF	● 122/39	CL-61A No. 58	Built-in	TC-14B	—	CL-30S No.61	—
400mm f/5.6 ED IF	72	CL-27A	Built-in	TC-14E for AF-I	—	CL-30S No.61	—
500mm f/4 P ED IF	39	CT-500	HK-17	TC-16	—	No. 61	—
600mm f/4 ED IF	39	CT-602	Built-in (HE-5)	TC-16A	—	No. 61	—
600mm f/4 D ED IF	39	CT-604	HK-18	TC-20E for AF-I	—	CL-31S No. 62	—
600mm f/5.6	39	CT-603	Built-in (HE-4)				
800mm f/5.6 ED IF	52	CT-800	Built-in (HE-3)				
<b>REFLEX</b>				<div>○ Rear Element Mounted Filter</div> <div>● Front Filter/Drop in Filter</div> <div>▲ Close-up attachment lens size</div> <div>* With PK-13</div>			
500mm f/8	● 82/39	CL-39	HN-27				
1000mm f/11	39	CL-29	Built-in				
2000mm f/11	Built-in	Trunk case	—				



# 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 lens and teleconverters).



### Lens/Camera Cap

	Product Number
52mm Snap-on Front Lens Cap	581 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 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 (f/200/2; f/300/2.8; f/600/5.6)	629 NAS
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

### NIKON SCHOOL PHOTO TIP:

THE COMMON DENOMINATOR IN SHOOTING ANIMALS IS MUCH THE SAME AS SHOOTING PORTRAITS OF PEOPLE: CONCENTRATE ON THE SUBJECT'S EYES AND MAKE SURE THEY ARE "MAKING CONTACT" WITH YOURS.

# 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.



Designation	Nikon Product Number	Lenses Attachable
<b>Snap-on</b>		
HS-7	541 NAS	Noct 58/1.2, AF Micro 105/2.8
HS-9	543 NAS	50/1.4
HS-10	545 NAS	85/2
HS-11	546 NAS	50/1.8
HS-12	547 NAS	50/1.2
HS-14	555 NAS	Micro 105/2.8
<b>Rubber screw-in</b>		
HR-1	537 NAS	50/1.4
HR-2	538 NAS	50/1.2, Noct 58/1.2, AF 50/1.4, AF 50/1.8
<b>Screw-in</b>		
HN-1	508 NAS	24/2.8, 28/2, PC 35/2.8, AF 24/2.8
HN-2	509 NAS	28/2.8, 35-70/3.3-4.5, AF 28/2.8, AF 35-70/3.3-4.5
HN-3	510 NAS	35/1.4, 35/2, 35/2.8, Micro 55/2.8, AF 35/2
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	35-135/3.5-4.5, AF Micro 60/2.8
HN-23	565 NAS	80-200/4, AF 85/1.8
HN-24	567 NAS	100-300/5.6, AF 70-210/4-5.6, AF 75-300/4.5-5.6
HN-26	568 NAS	62mm Circular Polar Filter
HN-27	558 NAS	Reflex 500/8
HN-28	572 NAS	AF 80-200/2.8 ED
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-9	563 NAS	18/3.5
HK-11	553 NAS	35-105/3.5-4.5
HK-14	559 NAS	20/2.8
HK-15	4600 NAS	35-200/3.5-4.5
HK-16	4601 NAS	28-85/3.5-4.5
HK-17	4608 NAS	500/4 P ED-IF
HK-18	4615 NAS	AF 1600/4 D ED-IF
HK-19	4616 NAS	AF 1300/2.8 D ED-IF
<b>Bayonet</b>		
HB-1	4602 NCP	AF 28-85/3.5-4.5, AF 35-70/2.8 D, AF 35-135/3.5-4.5, AF 35-70/2.8 AF 35-105 (Zoom Ring version)
HB-2	4603 NAS	AF 24-50/3.3-4.5
HB-3	4604 NAS	AF 20/2.8
HB-4	4610 NAS	AF 35-105/3.5-4.5
HB-5	4611 NAS	AF 28-70/3.5-4.5 D, AF 28-70/3.5-4.5
HB-6	4612 NAS	AF 80-200/2.8 D ED
HB-7	4614 NAS	

### 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

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



### Bayonet

Twist-lock mounting for extra security.



### Note:

Some lenses have built-in hoods.



# 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

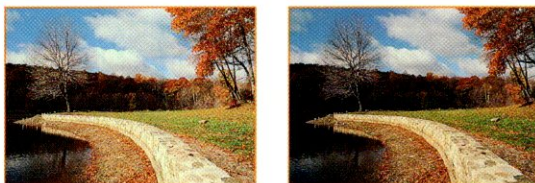
Blue filters remove reds and have a cooling effect. The mild B2 banishes reds from sunrise or sunset shots. The B12 neutralizes the red cast produced by photofloods in indoor shooting with daylight film. You can use any blue filter and underexpose to create eerie night scenes.



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

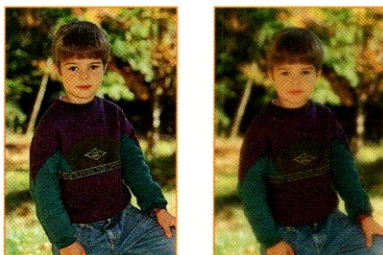
#### ULTRAVIOLET (UV) L37C, L39 SKYLIGHT L1BC

UV filters cut haze for sharper black-and-white prints, and correct the blues and violets in color prints. The multi-coated L37C reduces reflection. The L39 is perfect for black-and-white prints of mountain or beach scenes and doubles as a lens protector. The multi-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 ND2, ND4, ND8, 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.

#### 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 SLR's. 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).

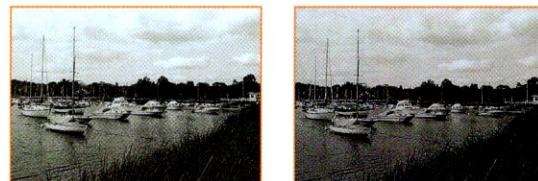
#### CONVERSION FILTERS A12, B2, B8, B12

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 ultra-violet light so skies appear darker. They work well in landscape or telephoto

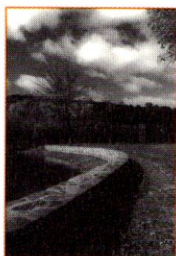


photography because they clear up the haze around distant objects. Y44 is a mild filter. Y48 is medium. Y52 produces the strongest effect.

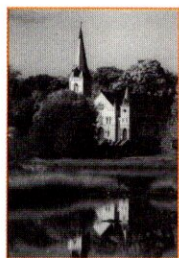
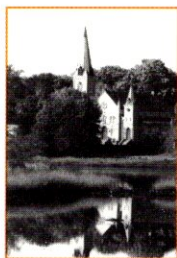


### ORANGE 056

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 infrared film.

### GREEN XO, X1

Green filters absorb red and blue, letting green and yellow through. The XO 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.

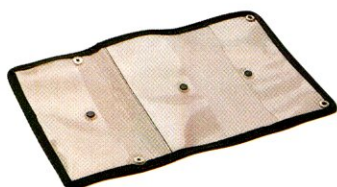
**Nikon Product Number: 2377 NCP**



### 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

##### Nikon Product Number

AF-1 52mm Gelatin Filter Holder	2278 NAS
AF-2 72mm Gelatin Filter Holder (with hood)	2279 NAS
Filter Holder for AF-I (repl)	2469 NAS
Gelatin Filter Holder for AF-I (repl)	2470 NAS
Slip-in Gel Holder for ED-IF Lens (repl)	2443 NAS
Slip-in Gel Holder for 400m/2.8 ED-IF Lens (repl)	2460 NAS
Gelatin Filter Holder for 200mm/2	2461 NAS
Slip-in 39mm Holder for ED-IF Lens (repl)	2220 NAS
Slip-in 52mm Holder for 400mm/2.8 ED-IF (repl)	2459 NAS
UR-2 Filter Adapter for 105mm/4.5 UV-Nikkor (repl)	2398 NAS
Square (UV) Filter for 105mm/4.5 UV Nikkor (repl)	2397 NAS

**NIKON SCHOOL PHOTO TIP:**  
USING FILTERS CAN HAVE A TREMENDOUS IMPACT UPON THE QUALITY OF YOUR PHOTOGRAPHS. COLOR RENDITION AND CONTRAST CAN ALL BE GREATLY IMPROVED WITH THESE RELATIVELY INEXPENSIVE ACCESSORIES THAT MANY PHOTOGRAPHERS OVERLOOK.



# FOCUSING SCREENS AND VIEWFINDER ACCESSORIES

*These accessories let you see your subject the way you want. They're ideal for a variety of applications.*

## FOCUSING SCREENS AND PRODUCT NUMBERS

**Type A** Matte/Fresnel field with 12mm center reference circle and split-image rangefinder.  
2552 NAS (F3HP/F3/T)

**Type B** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets.  
For general photography.  
2510 NAS (F4S)  
2553 NAS (F3HP/F3/T)  
2584 NAS (N90)  
2582 NAS (N8008S)

**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.  
2511 NAS (F4S)  
2554 NAS (F3HP/F3/T)

**Type D** Fine matte focusing screen with clear center circle, crosshairs in 4mm center circle for high magnification.  
2559 NAS (F3HP/F3/T)

**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.  
2512 NAS (F4S)  
2556 NAS (F3HP/F3/T)  
2583 NAS (N90)  
2581 NAS (N8008S)

**Type F** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets. Suitable with reflex lenses.  
2513 NAS (F4S)

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

**Type G1 (fisheye)** 2514 (F4S)  
2557 NAS (F3HP/F3/T)  
**Type G2 (wideangle)** 2515 (F4S)  
2558 NAS (F3HP/F3/T)  
**Type G3 (50mm f/1.2, 300mm f/2.8)**  
2516 (F4S) 2559 NAS (F3HP/F3/T)  
**Type G4 (300mm f/2.8)** 2517 (F4S)  
2560 NAS (F3HP/F3/T)

**Type H** Clear Fresnel focusing screen with microprisms 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/F3/T)  
**Type H2** 2562 NAS (F3HP/F3/T)  
**Type H3** 2563 NAS (F3HP/F3/T)  
**Type H4** 2564 NAS (F3HP/F3/T)

**Type J** Matte/Fresnel field with central 5-mm diameter microprism focusing spot and 12mm diameter circle. For general photography.  
2518 (F4S)  
2556 NAS (F3HP/F3/T)

**Type K** Matte/Fresnel field with 3mm-diameter. BriteView split-image rangefinder.

er spot surrounded by 1mm wide microprism doughnut. Rapid, accurate focusing for subjects with both straight and ill-defined contours. For general photography.  
2519 (F4S)  
2551 NAS (F3HP/F3/T)

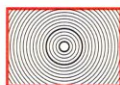
**Type L** Corresponds to Type A, but with diagonal 45° split-image rangefinder.



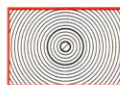
Type A



Type K



Type B



Type L



Type C



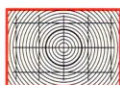
Type M



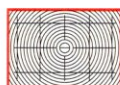
Type D



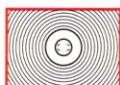
Type P



Type E



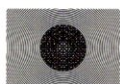
Type R



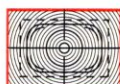
Type F



Type S



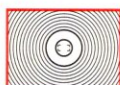
Type G



Type T



Type H



Type U



Type J

Facilitates focusing on horizontal lines.  
2566 NAS (F3HP/F3/T)

**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.  
2520 (F4S)  
2567 NAS (F3HP/F3/T)

**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 (F4S)  
2568 NAS (F3HP/F3/T)

**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/F3/T)

**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/F3/T)

**Type T** Focusing screen with matte Fresnel field and TV screen frame lines.  
2570 NAS (F3HP/F3/T)

**Type U** Matte/Fresnel field with 5mm-diameter and 12mm-diameter reference circles and AF brackets. Suitable with telephoto lenses longer than 200mm.  
2522 (F4S)  
2571 NAS (F3HP/F3/T)

## EYEPiece ADAPTER DK-7 FOR F4S, 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 N6006/N6000, 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

DK-2 for F4S, F3HP/F3/T

2406 NAS

DK-3 for FM2, FE2, FA

2362 NCP

DK-6 for N90, N8008S

2393 NAS

For N6006/N6000/N5005

2399 NCP



## RIGHT ANGLE FINDER DR-3

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

Dioptr adjusts from -5 to +3. Requires Mounting Adapter DK-7 for N90/F3HP/F4/F3T/N8008S.

No Adapter is required for use with F3 and FM2.

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

Nikon Product Number: 2326 NCP



## EYEPiece MAGNIFIER DG-2

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

Mounting Adapter. DK-7 for N90/N8008S/F4/F3HP/F3T. Adapter 2370 NCP for N6006/N6000/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, or see Nikon Photo Tip on page 12.

Lens	F4S, F3HP/F3	F3 (w/DE-2) F3AF, F2	N6006/6000	N90/N8008S	N5005/N4004	FM2/FE2/FA
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







## SECURITY IN A VARIETY OF SIZES

*No matter which lenses  
you own, there's a  
Nikon lens case to keep  
them safe from bumps  
and shocks.*

### CYLINDRICAL CASE

Tough black leatherette finish combines with soft, plush lining to protect your lenses, shielding them from shocks and bumps.

## TELEPHOTO CASE

Just the right size for storing a telephoto-lens-mounted camera; strong shoulder strap enhances ease of carrying.

## SOFT POUCH



Accommodates different lenses with different focal lengths; put it away in a pocket when you're not using it.

## PLASTIC CASE

Clear plastic effectively seals out dampness and dust. Base has a bayonet mount to which you can attach the lens.



Nikon Product Number	Nikon Prod. #	Material
	CP-9	Plastic
	CL-11	Plastic
	CL-13A	Plastic
	CL-15S	Plastic
	CL-17	Plastic
	CL-20A	Plastic
	CL-27A	Plastic
	CL-29	Plastic
	CL-30S	Plastic
	CL-31S	Plastic
	CL-32S	Plastic
	CL-33S	Plastic
	CL-34A	Plastic
	CL-35A	Plastic
	CL-36	Leatherette
	CL-37	Leatherette
	CL-38	Leatherette
	CL-39	Leatherette
	CL-40	Leatherette
	CL-41	Leatherette
	CL-42	Leatherette
	CL-43	Leatherette
	CL-43A	Leatherette
	CL-44	Leatherette
	CL-46	Leatherette
	CL-61A	Leatherette
	CL-64	Leatherette
	CZ-1860	Leatherette
	No. 61	Leather
	No. 62	Leather
	No. 63	Leather
Trunk Case		

-  Compatible
-  With a PN-11 ring
-  With a PK-13 ring

- 1 – Compatible with filter/cap and either lens hood (reversed) or rubber hood

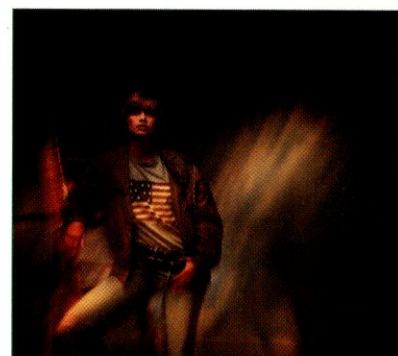
- 1<sup>S</sup> - Compatible with spring (snap-on hood)  
2 - Filter/Cap/Bayonet Hood (reversed)

- 3 – Filter/Screw-in Hood/ Slip-in Hood (not reversed)  
4 – With filter and cap  
5 – With cap

- 6 – With cap and screw-in hood  
# Accomodates lens by removing  
inside cushion



# 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 WIDE-ANGLE 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 (WIDE-ANGLE 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 with No. 0 Shutter	1:4.5	f/45	1343 NAS
Nikkor SW 90mm f/4 with No. 0 Shutter	1:4.5	f/64	1345 NAS
Nikkor SW 90mm f/4 with No. 0 Shutter	1:8	f/64	1344 NAS
Nikkor SW 120mm f/4 with No. 0 Shutter	1:8	f/64	1346 NAS
Nikkor SW 150mm f/4 with No. 0 Shutter	1:4.5	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/64	1321 NAS
Nikkor M 450mm f/9 with No. 3 Shutter	1:9	f/64	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	1358 NAS	Slip-on Lens Cap (repl)	1337 NAS 31.5mm
Rear Lens Unit 500mm ED Nikkor-T	1359 NAS	Slip-on Lens Cap (repl)	1330 NAS 42mm
Rear Lens Unit 600mm ED Nikkor-T	1360 NAS	Slip-on Lens Cap (rep)	1331 NAS 54mm
Rear Lens Unit 720mm ED Nikkor-T	1362 NAS	Slip-on Lens Cap (rep)	1332 NAS 60mm
Rear Lens Unit 800mm ED Nikkor-T	1361 NAS	Slip-on Lens Cap (repl)	1333 NAS 70mm
Rear Lens Unit 1200mm ED Nikkor-T	1363 NAS	Slip-on Lens Cap (repl)	1334 NCP 80mm
Screw-on Cap f/Rear Lens Unit (rep)	1338 NAS 36mm	Slip-on Lens Cap (repl)	1335 NAS 85mm
Screw-on Cap f/Rear Lens Unit (rep)	1339 NAS 58mm	Slip-on Lens Cap (rep)	1336 NAS 100mm

**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.



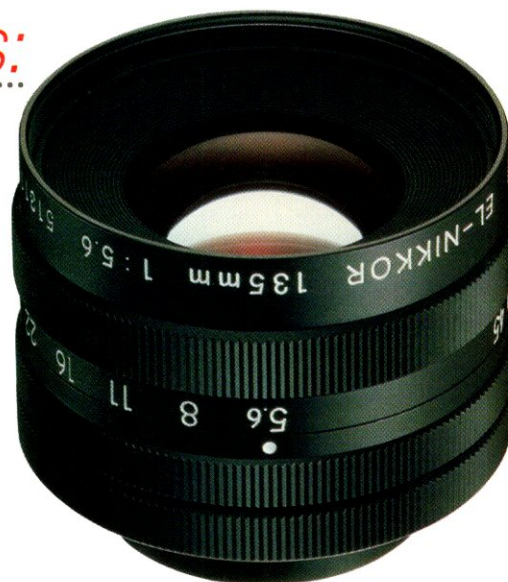
# EL-NIKKOR ENLARGING LENSES:

## 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/4N	f/22	10x	5x-30x	52°	24x36mm	209 NCP
EL-Nikkor 50mm f/4N	f/22	8x	2x-20x	41°	24x36mm	210 NCP
EL-Nikkor 63mm f/4N	f/22	8x	2x-20x	43°	32x45mm	211 NCP
EL-Nikkor 75mm f/4N	f/22	5x	2x-10x	48°	60x60mm	224 NCP
EL-Nikkor 80mm f/4N	f/22	5x	2x-15x	53°	60x70mm	212 NCP
EL-Nikkor 105mm f/4N	f/22	5x	2x-10x	51°	60x90mm	213 NCP
EL-Nikkor 135mm f/4N	f/22	5x	2x-10x	53°	90x120mm	251 NAS
EL-Nikkor 150mm f/4N	f/22	4x	2x-8x	51°	100x130mm	252 NAS
EL-Nikkor 180mm f/4N	f/22	4x	2x-8x	54°	130x180mm	253 NAS
EL-Nikkor 210mm f/4N	f/22	4x	2x-8x	54°	130x210mm	254 NAS
EL-Nikkor 240mm f/4N	f/22	4x	1x-8x	57°	180x240mm	255 NAS
EL-Nikkor 300mm f/4N	f/22	2x	1x-8x	57°	270x330mm	256 NAS
EL-Nikkor 360mm f/4N	f/22	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



# SPEEDLIGHTS

## SEE FLASH IN A WHOLE NEW LIGHT

*Get ready for a new experience in*

*flash photography. Today Nikon has*

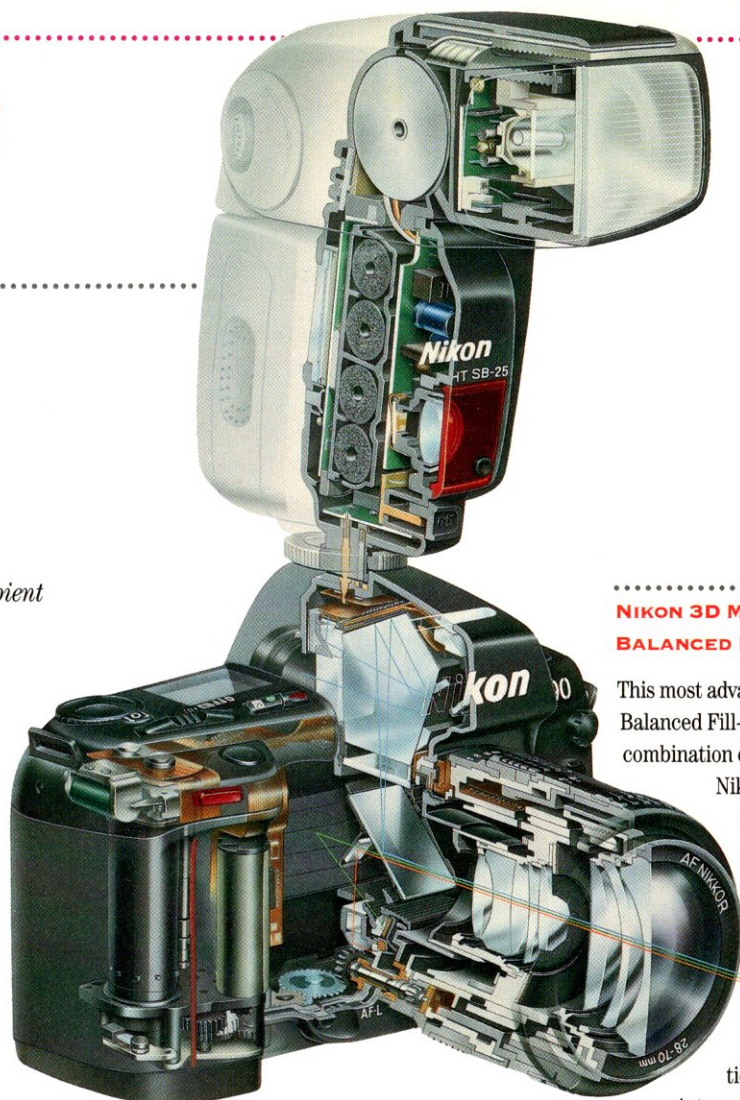
*perfected techniques that combine ambient*

*light with light from the flash.*

*You'll use flash in all-new ways, to*

*create photographs you might never*

*have gotten before.*



### 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 N90, a D-type AF Nikkor lens and the SB-25. Just after the mirror goes up but before the shutter moves, the SB-25 fires a series of imperceptible Monitor Pre-flashes that are 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; obstacle(s) in front of the subject you wish to avoid sunlight; subject against an "infinite" background (sky, clouds, etc). When the N90 and SB-25 are used with a non-D-type AF or AI-P Nikkor lens (non 3D), Multi-Sensor 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-23/22/20/16B Speedlights — an operation superior to single-sensor systems.

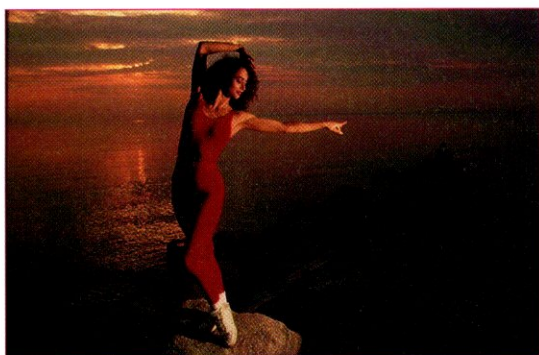
### NIKON AUTOMATIC BALANCED FILL-FLASH

Fill-flash adds an exciting new look to your pictures not only in daylight, but also in twilight and at night. Using this technique, shutter speed, aperture and flash output is automatically controlled to put the foreground subject's brightness in balance with the background. This automatic method makes fill-flash easy.

### NIKON MATRIX BALANCED FILL-FLASH

Using this technique, the camera's Matrix Meter determines exposure for the background ambient light based on segmented analysis of the scene's brightness and contrast.

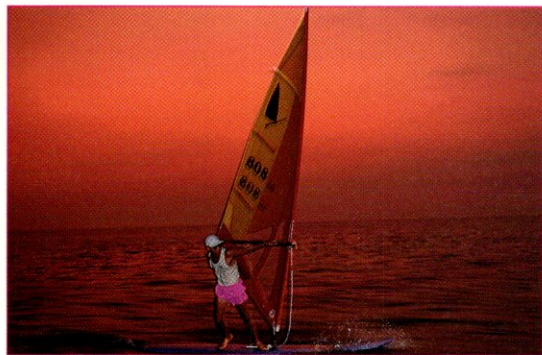
The TTL flash exposure is controlled, so flash illumination is balanced. This system operates automatically, based on a combination of general scene brightness and contrast. Matrix Balanced Fill-Flash is available with the Nikon F4S, N8008S, N6006, N6000 and N5005.





### SLOW SYNC

When flash pictures are taken in dim light, the background may come out dark. With the Nikon N90, 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.



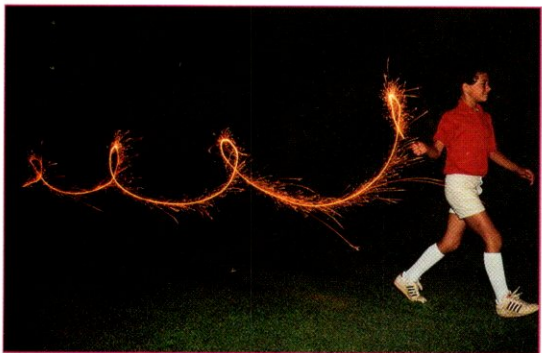
### AF-ASSIST ILLUMINATOR LED

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

Allows the flash to fire 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-illuminated subject. This technique is possible with the following combinations: F4 series, N8008S and



N90 cameras with the SB-24 or SB-25. N6006 and N6000 cameras with SB-25, SB-24, SB-23, SB-22, SB-21B, SB-20, SB-16B, SB-14 and SB-11

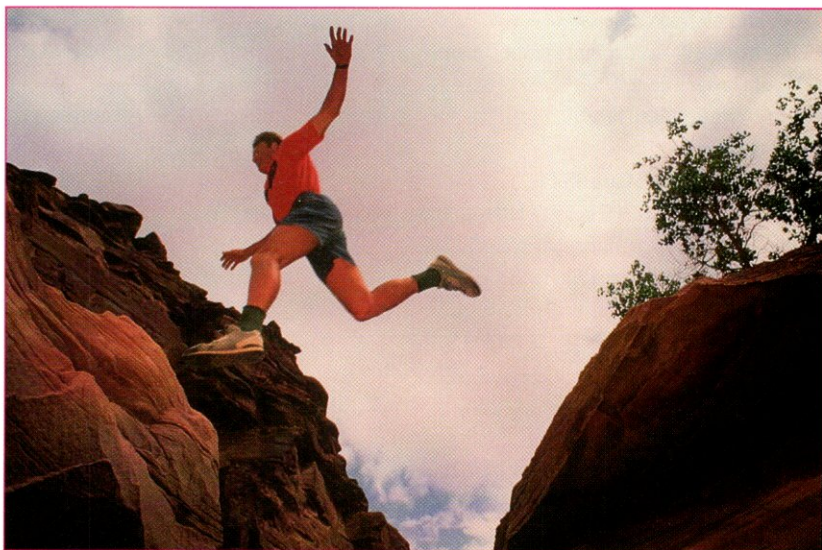
### REPEATING FLASH

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-25.



### FP HIGH-SPEED SYNC

Using manual flash operation with N90, the SB-25'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-25, used with the N90 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.

#### NIKON SCHOOL PHOTO TIP:

**YOUR ADVANCED NIKON SLR OUTFITTED WITH AN SB-25 AF SPEEDLIGHT CAN GIVE YOU STUNNING FLASH PHOTOGRAPHS AUTOMATICALLY, WITHOUT ANY ADJUSTMENTS. HOWEVER BY ADJUSTING THE CAMERA COMPENSATION BUTTON (FOUND ON MANY CAMERA MODELS) YOU CAN LIGHTEN OR DARKEN THE OVERALL PHOTOGRAPH. BY USING THE CAMERA COMPENSATION BUTTON AND THE FLASH COMPENSATION CONTROL ON YOUR SB-25, YOU CAN ADJUST THE EXPOSURE BALANCE BETWEEN THE FOREGROUND AND BACKGROUND OF THE PHOTOGRAPH TO MEET YOUR SPECIFIC TASTES.**

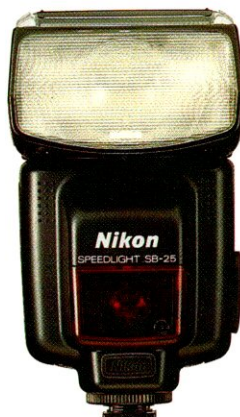


## SB-25

### FOR THE ULTIMATE IN NIKON FLASH PHOTOGRAPHY

- 3D multi-sensor balanced fill-flash with monitor pre-flashes with N90 and D-type AF Nikkor lenses
- Multi-sensor balanced fill-flash with N90 and non-D-type AF Nikkor lenses
- Matrix balanced fill-flash with F4-series, N8008s, N6006, N6000 or N5005 and AF and AI-P Nikkor lenses
- Slow sync flash with N90, N6006 or N6000
- Rear curtain sync with F4-series, N90, N8008s, N6006 or N6000
- Red-eyed reduction with N90
- FP high speed flash sync with N90
- AF-Assist Illuminator
- 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 20mm
- Built-in bounce card
- Tilting/rotating flash head
- LCD panel
- Includes Nikon Soft Case SS-24
- Guide number (ISO 100 in feet) 118 with zoom head set at 35mm
- Recycling time approximately 7 seconds

**Nikon Product Number: 4706 NAS**



### ACCESSORIES

Accessory	Nikon Product Number
Soft Case SS-24 (repl)	4609 NAS
C-Cell Battery Pack SD-7 (comes with SC-16 Power Cord)	4520 NCP
High Performance AA Battery Pack SD-8	4720 NCP

## SB-23

### BRIGHT, COMPACT TTL SPEEDLIGHT

- Multi-sensor balanced fill-flash with N90 and AF or AI-P Nikkor lenses
- Matrix balanced fill-flash with F4 series, N8008s, N6006, N6000 or N5005 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**



### ACCESSORIES

Accessory	Nikon Product Number
Soft Case SS-23 (repl)	4607 NCP

## SB-22

### COMPACT, ECONOMICAL TTL SPEEDLIGHT

- Multi-sensor balanced fill-flash with N90 and 5 AI-P or AF Nikkor lenses
- Matrix balanced fill-flash with F4-series, N8008s, N6006, N6000 or N5005 and AI-P or AF Nikkor lenses
- AF-Assist illuminator LED
- Wide flash adapter to cover 28mm lenses
- Tilting flash head from -7° to 90° for bounce flash shooting
- Includes Nikon Soft Case SS-22
- Guide number (ISO 100 in feet) 75
- Recycling time at manual full output approximately 4 seconds

**Nikon Product Number: 4703 NCP**



### ACCESSORIES

Accessory	Nikon Product Number
Soft Case SS-22 (repl)	4606 NCP
C-Cell Battery Pack SD-7 (comes with SC-16 Power Cord)	4520 NCP
High Performance AA Battery Pack SD-8	4720 NCP

## SB-20

### COMPACT, MULTI-FUNCTIONAL TTL SPEEDLIGHT

- Multi-sensor balanced fill flash with N90 and AF or AI-P Nikkor lenses
- Matrix-balanced fill-flash with F4-series, N8008s, N6006, N6000 or N5005 and AF and AI-P Nikkor lenses
- AF-assist illuminator LED
- Selectable flash coverage angles for 28mm, 35mm and 85mm or longer lenses
- Tilting flash head from -7° to 90° for bounce flash shooting
- Includes Nikon Soft Case SS-20
- Guide number (ISO 100 in feet) 100 with head set at N
- Recycling time approximately 6 seconds

**Nikon Product Number: 4700 NCP**



### ACCESSORIES

Accessory	Nikon Product Number
Soft Case SS-20 (repl)	4605 NCP
C-Cell Battery Pack SD-7 (comes with SC-16 Power Cord)	4520 NCP
High Performance AA Battery Pack SD-8	4720 NCP

#### NIKON SCHOOL PHOTO TIP:

USING FILL-FLASH OUTDOORS NOT ONLY FILL-INS 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.



## SB-16A / SB-16B

### FULLY COMPATIBLE WITH ALL NIKON SLR'S

- Multi-sensor balanced fill flash with N90 or AF and AI-P Nikkor lenses
- Matrix-balanced fill-flash with F4-series, N8008s, N6006, N6000 or N5005 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) 105 with zoom head set at N (35mm)
- 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-14

### DESIGNED TO MEET PROFESSIONAL NEEDS

- Multi-sensor balanced fill flash with N90 and AF or AI-P Nikkor lenses (with SC-23 cord)
- Matrix-balanced fill-flash with F4 series, N8008s, N6006, N6000 or N5005 and AF and AI-P Nikkor lenses (with SC-23 cord)
- TTL flash exposure with F3 series (optimal SC-12 TTL cord required)
- Angle of coverage 70° horizontal and 53° vertical (78° and 60° with wide flash adapter SW-5)
- Includes Nikon Wide Flash Adapter SW-5, Sync Cord SC-11, Bracket SK-5, Sensor Unit SU-2, SD-7 C Cell Battery Pack for 24mm lens coverage
- Guide number (ISO 100 in feet) 105 (72 with wide flash adapter)
- Recycling time approximately 8 seconds

Nikon Product Number: 4525 NAS



#### ACCESSORIES

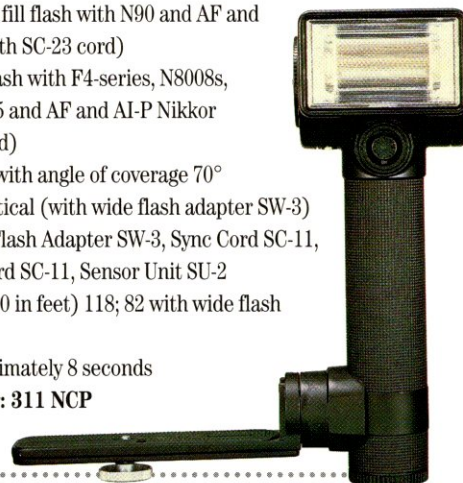
Accessory	Nikon Product Number
SC-23 TTL Sync Cord	4562 NCP
Wide Angle Flash Adapter SW-5 (repl)	4522 NAS
Sensor Unit SU-2 (repl)	3055 NCP
Mounting Bracket SK-5 (repl)	4539 NAS
Speedlight Flash Head SB-14 (repl)	4514 NAS
Flash Cord SC-11 for SB-14 (repl)	3056 NCP
Power Cord SC-16 for SD-7 (repl)	4523 NCP
C-Cell Battery Pack SD-7 for SB-14 (repl) (comes with SC-16 Power Cord)	4520 NCP

## SB-11

### HIGH-PERFORMANCE, HIGH-POWER SPEEDLIGHT

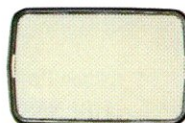
- Multi-sensor balanced fill flash with N90 and AF or AI-P Nikkor lenses (with SC-23 cord)
- Matrix-balanced fill-flash with F4-series, N8008s, N6006, N6000 or N5005 and AF and AI-P Nikkor lenses (with SC-23 cord)
- Tilting 90° flash head with angle of coverage 70° horizontal and 53° vertical (with wide flash adapter SW-3)
- Includes Nikon Wide Flash Adapter SW-3, Sync Cord SC-11, Bracket SK-4, 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, ROTATING MAIN FLASH HEAD



## 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 F4/N90/N8008S/N6006/N6000/N5005, 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

\* With Kodak Spectroscopic Type 103-0 film by using a Kodak D-19 developer at 68° for 6 minutes.

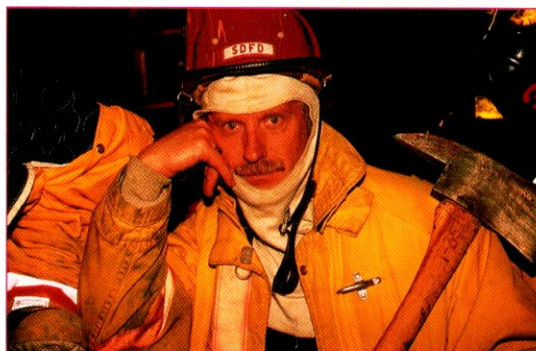
\*\*With Kodak High Speed Infrared Film 2481 by using a Kodak D-76 developer at 68° for 10 minutes.

**Nikon Product Number: 4512 NAS**



### ACCESSORIES

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	4520 NCP
(comes with SC-16 power cord)	



## 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 (F4-series N90, N8008s, N6006, N6000 and N5005). 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	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**



## 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-25, SB-22, SB-20, 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-22, SB-20, SB-11, 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-25, SB-24, SB-22, SB-20 and SB-11.

**Nikon Product Number: 4720 NCP**



### POWER BRACKET MODEL SK-6

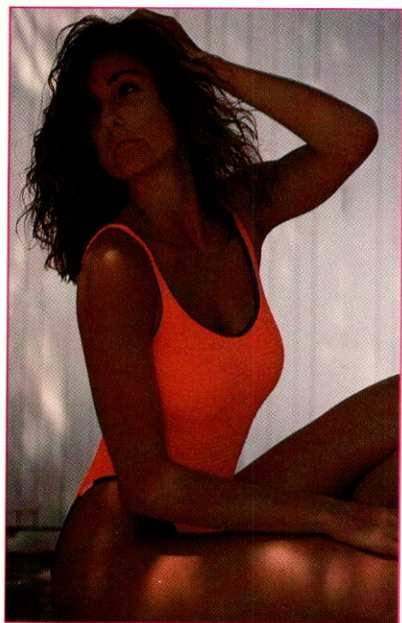
This convenient external power unit not only reduces flash recycling time, while increasing the number of available flashes, it offers an adjustable side-mounted handle. Camera, flash and all necessary connections are made within this single unit. Handle provides a convenient hand-hold for entire camera/Speedlight system, or when Speedlight is disconnected for creative lighting effects. Requires 4 AA batteries. Compatible with SB-22, 24 and 25, and Nikon F4S, N90, N8008s, 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 any combination of Nikon TTL Speedlights (SB-25, SB-24, SB-23, SB-22, SB-20, SB-17, SB-16A/B, SB-21A/B) and a Nikon N90, F3, F4, N8008S, N6006, N6000 or N5005. 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 (N90, F4, N8008(S), N6006, N6000 or N5005). 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.

**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-25, SB-22, SB-20, SB-16B or SB-21B. Connect additional TTL Speedlights with the SC-18 or SC-19.

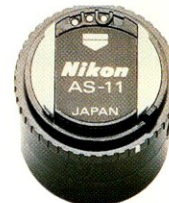
**Nikon Product Number: 4560 NCP**



#### 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.

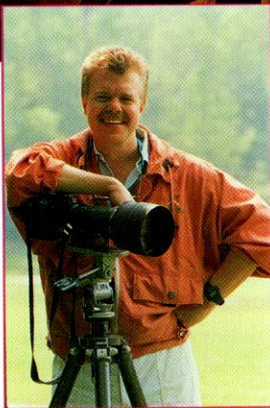
**Nikon Product Number: 4561 NAS**



#### CAT ON A DOCK

*"To me, light is like language. Using multiple flash I can communicate exactly what I want in a photograph. Using five Nikon SB-25s along with SC-17s, SC-18s, SC-19s and an AS-10 adapter, I created this image of a cat on a lonely dock at night. Because Nikon Speedlights are so compact, it was easy to place them in the exact positions I wanted them. I took this shot completely in the TTL mode and got exactly the feeling I was looking for."*

*John Hally*





## 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 N90, N8008s, N6006, N6000 or N5005. 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, SB-14 or SB-140 with Nikon F4S, N90, N8008s, N6006, N5005, N6000, N2000 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, SB-14 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-25, SB-22, SB-20, 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 F4/FM2/N90/N8008s/N6006/N6000/N5005/N2020/N2000 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 F4/FM2/N90/N8008s/N6006/N6000/N5005/N2020/N2000 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.*



## AF MICRO-NIKKOR 60MM F/2.8

This exceptional lens is a "must have" for any serious photographer. Shoot scenics at infinity, and without changing lenses or adding accessories, shoot life-size close-ups (1:1). Superb optical performance.

**Nikon Product Number: 1991 NAS**



## MEDICAL NIKKOR 120MM F/4 IF

Designed as a special-purpose lens for medical photography, the Medical Nikkor 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 lenses up to 210mm.



## MICRO-NIKKOR 55MM F/2.8 MICRO-NIKKOR 200MM F/4 IF

Without any special attachments, these close-up lenses enable continuous operation from infinity to a magnification of 1:2 (1/2 lifesize). To achieve life-size (1:1) attach the compatible close-up accessory extension ring. With the 200mm lens, also use the Nikon TC-301 Teleconverter for 1:1 photography.

**Nikon 55mm Micro-Nikkor Product Number: 1442 NAS**

**Nikon 200mm Micro-Nikkor Product Number: 1468 NAS**





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)  
 Close-up Lens No. 1 IC 52mm (1.5 Diopter)  
 Close-up Lens No. 2 IC 52mm (3.0 Diopter)  
 Close-up Lens No. 3T IC 52mm (1.5 Diopter)  
 Close-up Lens No. 4T IC 52mm (3.0 Diopter)  
 Close-up Lens No. 5T IC 62mm (1.5 Diopter)  
 Close-up Lens No. 6T IC 62mm (3.0 Diopter)

#### Nikon Product Number

2732 NCP  
 2733 NCP  
 2734 NCP  
 2736 NCP  
 2737 NCP  
 4536 NCP  
 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

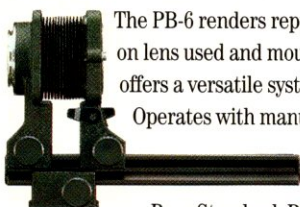
PK-11A (8mm) 2656 NCP  
 PK-12 (14mm) 2652 NCP  
 PK-13 (27.5mm) 2653 NCP  
 (PK-13 when used with 55mm f/2.8 Micro-Nikkor, 1:1.5 to 1:1 are possible)



#### 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

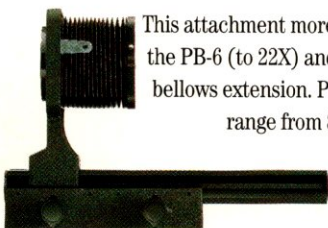


The PB-6 renders reproduction ratios to nearly 11X, depending on lens used and mounting configuration. Its modular design offers a versatile system of close-up and macrophotography.

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

#### 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 STAND 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 to increase 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

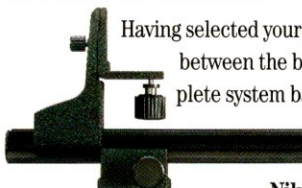
Nikon Product Number BR-3: 2629 NCP

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.

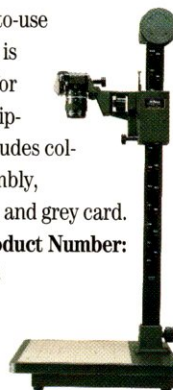
Eliminates any need to modify either lens focus ring or bellows extension.

Nikon Product Number: 2758 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

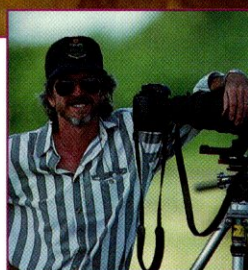
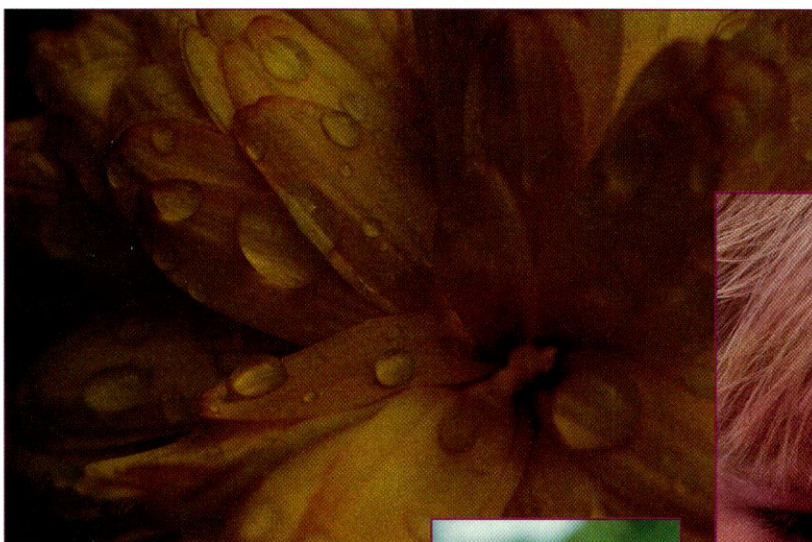


**NIKON SCHOOL PHOTO TIP:**  
 "CLOSE-UP" ISN'T ALWAYS A MATTER OF HOW CLOSE YOU CAN GET TO THE SUBJECT MATTER. INSTEAD IT IS MORE COMMONLY DEFINED BY HOW LARGE THE IMAGE APPEARS ON THE FILM. THIS IS CALLED "REPRODUCTION RATIO." FOR EXAMPLE, IF THE IMAGE IS THE SAME SIZE AS THE ACTUAL SUBJECT, THE RATIO 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.



**UP CLOSE WITH  
AL SATTERWHITE**

*"Working up close with Nikon is fast and easy. I shot this close-up portrait at the touch of a button, completely on automatic. Micro-Nikkor lenses offer tremendous flexibility. Other Nikon close-up accessories adhere to the close tolerances and exacting performance so necessary to this exciting area of photography."*

**CABLE RELEASES**

When used together with the Bellows Focusing Attachment PB-6, the AR-10, AR-7 or AR-4 stops 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

**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**



**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, N90, N8008S 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

**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 assure 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**

**Nikon Product Number SB-21B: 4702 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), N90 (requires MC-25 adapter cord), N8008s, FM2 (with MD-12). Can operate three separate cameras automatically. **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, easy-to-handle unit uses modulated light to automatically control up to two cameras for distances up to 327 feet (100 meters). Operates with Nikon motor-driven cameras F4S, F3 Series (with MD-4), N90 (requires MC-25 adapter cord), N8008s, FM2 (with MD-12). Also for N90, see ML-3 (page 15). ML-3 for Nikon 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 NCP**



## 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), N90 (requires MC-25 adapter cord), N8008s, FM2 (with MD-12). **Nikon Product Number: 128 NCP**



## MOTOR REMOTE TRIGGER CORD MC-12A (10')

For remote control photography up to 9.8' feet (3 meters) 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. **Nikon Product Number: 131 NCP**



Depressing fully releases the shutter. Trigger lock enables time exposures. F4S, F3 Series (with MD-4), N90 (requires MC-25 adapter cord), N8008s, 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 F4S, N8008S and N90 cameras. LCD panel with illuminator counts exposure time up or down. Provides both B and T mode operation. Use with F4S and N8008s 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 N8008s. **Nikon Product Number: 4656 NAS**



## MOTOR REMOTE TRIGGER CORD MC-10

For use with F4S/F3 Series/FM2/N8008 SLRs, motor drives MD-2/3/4/12/15 for firing at camera distance up to 10'. **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, N6006/6000, FM2N. AR-7 for use with PB-B and F4S, F3 series, N6006/6000, FM2N. AR-10 for use with N90 (with MC-25), N8008S.

**Cable Release Nikon Product Numbers:**  
**AR-3 664 NCP, AR-7 668 NAS,**  
**AR-10 2670 NAS**



# 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

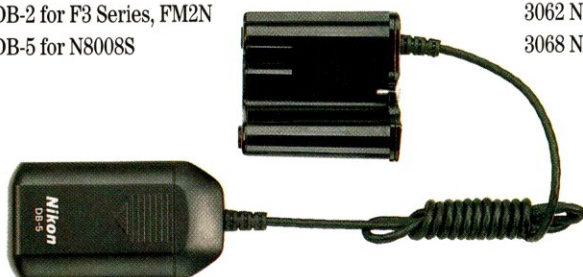
DB-2 for F3 Series, FM2N

DB-5 for N8008S

### Nikon Product Number

3062 NCP

3068 NAS



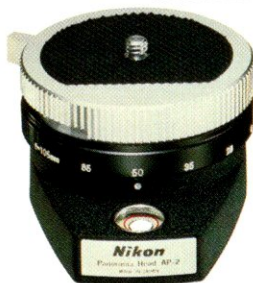
## EXTERNAL BATTERY PACK DB-6

The DB-6 provides added power for prolonged or low-temperature shooting with the F4S or N90. Uses six D-type batteries and connects to the F4's MB-21 or MB-23 Battery Packs via MC-28 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 F4S, N90, F3HP/F3/T, N8008S, N6006/6000, N5005, 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 N8008S, N6006/6000, N5005.

**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, N6000 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

\* Not for N90, N8008s, N6006/6000, N5005, N4004S or N4004.





# 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 photog-*

*rapher to get great*

*results. Our "Touch*

*Series" of compact 35mm*

*cameras is designed for*

*ease-of-use, and these*

*cameras offer the same*

*high level of quality you*

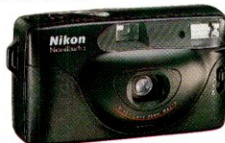
*expect from Nikon.*



### NICE-TOUCH 2 OUTFIT

Focus free, for easy point-and-shoot 35mm photography. Automatic flash and automatic exposure help you take great pictures — with just the right lighting — indoors or out. Macro lens feature for pictures as close as 1.8 feet. Supplied w/case, nylon neck strap, 12-exp. film, 2 AA batteries.

**Nikon Product Number:**  
**9615 NCP**



### FUN-TOUCH 2 OUTFIT

With fully-automatic operation, including autofocus, this stylish compact camera makes picture taking fun. Just point-and-shoot for sharp, clear results. Automatic film loading and rewind. Supplied w/case, nylon wrist strap, 12 exp. film, 2 AA batteries, photo album, cleaning cloth, and "How to Take Winning Pictures," an easy-to-read booklet.

**Nikon Product Number:**  
**9614 NCP**

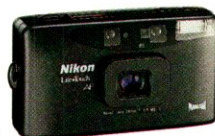


### LITE-TOUCH

The smallest and lightest 35mm AF camera in the world! The Lite-Touch allows you to take terrific regular sized 35mm pictures — or panorama pictures — at the touch of a button. Its 28mm f/3.5 lens is perfect for general-purpose shooting, and its advanced autofocus system features 100 steps plus infinity. The Lite-Touch also features a built-in automatic flash with Red-Eye Reduction, and a two-shot self-timer.

The Lite-Touch Quartz Date model allows you to imprint both regular and panorama prints with the date or time. Dimensions: 4.3 in. wide, 2.4 in. high, 1.3 in. thin.

**Nikon Lite-Touch Product Number:** 1815 NCP  
**Nikon Lite-Touch Quartz Date Product Number:** 1816 NCP



### SPORT-TOUCH OUTFIT

Sturdy splash-proof construction makes this handy Nikon camera ideal for camping trips, boating,



or even backyard picnics. Fully automatic operation for easy point-and-shoot picture taking. Supplied w/waterproof case, neck strap, 12-exp. film, 2 AA batteries.

**Nikon Product Number:** 9592 NCP

### ZOOM-TOUCH 470

A 35-70mm Power Zoom lens makes this stylish, lightweight compact camera perfect for vacations. Power zoom in to 70mm telephoto to capture distant subjects or make great portrait pictures, or stop the lens anywhere between 35mm and 70mm.

Everything is automatic, so you can focus on having fun. Optional adapter lets you capture panorama



scenes. Memorable moments are made even easier to remember when the date or time is imprinted on every picture. If this feature appeals to you, choose the Zoom-Touch 470 Quartz Date model.

**Nikon Zoom-Touch 470 Product Number:** 1830 NCP

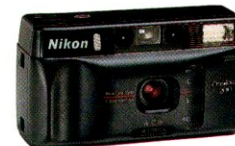
**Nikon Zoom-Touch 470 Quartz Date Product Number:** 1831 NCP



### ONE-TOUCH 200

The Nikon camera that made quality 35mm photography as easy as the touch of a button. Automatic focus, exposure, flash, film loading and rewind, Red-Eye Reduction. Unique Nikon "Smile" light lets your subjects know that their picture is about to be taken.

**Nikon Product Number:**  
**1850 NCP**





## ZOOM-TOUCH 600

This sophisticated compact zoom camera allows you to switch from taking standard sized pictures to breathtaking panorama pictures at the touch of a button. Power zoom from 32mm to 85mm in seconds to capture all the action. A variety of advanced features give you creative flexibility: • **Three focusing modes.** Carefree Autofocus, for point-and-shoot simplicity and clear, sharp pictures. Spot Autofocus allows you to focus on a small detail in a wide-view scene, even if the detail is not in the center of the frame. Infinity Focus, for taking sharper pictures through windows. • **Automatic Sequence Zoom.** Camera



automatically takes three different pictures of your subject, one wide view, one medium view, one close up.

• **Slow-Sync Flash.** Brighten your main subject, while still capturing the beauty of a background nighttime cityscape or sunset. • **Liquid Crystal Display.** For easy to read picture taking information. **Nikon Product Number: 1828 NCP**



PANORAMA FORMAT PICTURES AVAILABLE WITH  
LITE-TOUCH, ZOOM-TOUCH 470 AND ZOOM-TOUCH 600.

## ZOOM-TOUCH 800 WORLD TIME MODEL



A must for Globetrotters. The Nikon Zoom-Touch 800 World Time model automatically imprints dates, numbers and letters on each picture. And its world clock tells you the time all over the world. **Nikon Zoom-Touch 800 World Time Product Number: 1827 NC**

## ZOOM-TOUCH 800

It's easy to take great pictures with this top-of-the-line compact zoom camera. Everything can be automatic. Or, if you feel like taking your photography to the next step, exerting a little control, the Zoom-Touch 800 has just the right features for you. • **Power Zoom Lens** from 37mm to 105mm telephoto. ED glass is incorporated in the lens for superb image sharpness. • **Wide-Area Autofocus**



with Image Sensor.

Your pictures will be sharp, even if your subject isn't in the exact center of

the frame. • **Spot Autofocus.** For creative composition, this special feature allows you to pre-focus on a subject for tack-sharp pictures, regardless of where your subject is in the frame. • **Focus Tracking.** If your subject is running, the camera will "track" your subject, automatically adjusting the focus for perfect pictures. • **Automatic Sequence Zoom.** Camera automatically takes three different pictures of your subject, one wide view, one medium view, one close up. • **Manual Exposure Compensation.** Make shots darker or lighter at the touch of a button.

**Nikon Zoom-Touch 800 Product Number: 1826 NCP**

## TOUCH CAMERAS

	Nice-Touch 2	Fun-Touch 2	One-Touch 200	Sport-Touch	Lite-Touch	Zoom-Touch 470	Zoom-Touch 600	Zoom-Touch 800
<b>Lens</b>								
Focal length	35mm	34mm	35mm	35mm	28mm	35-70mm Zoom	32-85mm Zoom	37-105mm Zoom ED
f/stop	4.5	4.5	3.5	3.5	3.5	4-7.6	4.5-11	4.5-11
Diopter adjustment	—	—	—	—	—	—	yes	yes
Panorama	—	—	—	—	yes	yes w/ adapter	yes	—
<b>Auto Focus</b>								
Auto focus system	fixed focus	infrared	infrared	infrared	infrared	infrared	infrared	passive autofocus
Multiple auto focus	—	—	—	—	—	—	w/ spot	w/ spot or wide area
Auto focus tracking	—	—	—	—	—	—	—	—
Close focus	1.8 ft	3.7 ft	2 ft	2 ft	1.1 ft	2.1 ft	2 ft	2.6 ft
Infinity focus	—	—	—	—	yes	yes	yes	yes
Focus memory	—	—	yes	yes	—	—	—	—
<b>Exposure</b>								
Shutter	125	130	1/8-320	1/8-320	1/4-1/250	1-420	1/4-320	1-250
Exposure compensation	—	—	—	—	—	—	±2EV .5 steps	±2EV .5 steps
DX range	100, 400	100, 400	100-1000	100-1000	100-1000	100-1000	64-3200	64-3200
Non-DX	100	100	100	100	100	100	100	100
Automatic rewind	yes	yes	yes	yes	yes	yes	yes	yes
<b>Flash</b>								
Wide-angle*	33	33	30	30	23	39	46	56
Telephoto	—	—	—	—	—	—	53	69
Recycle time	7 sec.	5 sec.	5 sec.	5 sec.	4 sec.	5 sec.	3.5 sec.	3.5 sec.
Flash cancel	—	—	yes	yes	yes	yes	yes	yes
Slow sync speed	—	—	possible	possible	yes	yes	yes	yes
Red eye reduction	—	—	yes	yes	yes	yes	yes	yes
Anytime flash	yes	yes	yes	yes	yes	yes	yes	yes
<b>Miscellaneous</b>								
Self timer	—	—	1, 2	1, 2	1, 2	1, 2	1, 2**	1, 2
Frame skip	—	—	—	—	—	—	yes	yes
Film leader	in	in	in	in	in	in	out	out
Message print	—	—	—	—	—	—	—	3 letters
Battery	2 AA	2 AA	2 AA	2 AA	3 V-Lithium	3 V-Lithium	6 V-Lithium	6 V-Lithium
Battery life	20 rolls (36 exp)	15 rolls	24 rolls	24 rolls	23 rolls	25 rolls	22 rolls	27 rolls
24 exp./50% flash	—	—	—	—	—	—	—	—
Weight without batteries	6.9 oz.	7.1 oz.	7.1 oz.	9 oz.	5.5 oz.	9 oz.	16.2 oz.	17.6 oz.
<b>Size in inches</b>								
Width	5	5	4.9	5	4.3	5.2	5.8	6
Height	2.8	2.8	2.7	2.9	2.4	2.8	3.1	3.2
Depth	1.9	1.9	2	2.2	1.3	2	2.8	3

\*ISO 100, feet

Specifications subject to change without notice.

\*\*5-30 sec. possible



# NIKONOS UNDERWATER PHOTOGRAPHY SYSTEMS

## PLUNGE INTO A NEW WORLD OF PHOTOGRAPHIC POSSIBILITIES

*Beneath the waves a  
remarkable world is  
waiting for you: Schools  
of exotic fish*

*with blaz-  
ing, swirling  
colors, coral*

*landscapes,  
waving fields of plant life*

*so beautiful they'll take  
your breath away.*

*Capture it all with Nikon  
underwater photograph-  
ic systems, a complete*

*line of gear designed  
specifically to meet the  
rigorous demands of  
water pressure, and  
underwater light.*



### 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 w/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**



#### 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. Supplied w/SK 104 Mounting Bracket Set, UW Sync. Cord, Spare O-ring Set.

**Nikon Product Number: 11200 NCP**



#### SB-103 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. 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: 10103 NCP**



#### 15MM F/2.8 UW-NIKKOR IC

**1** This underwater-only, ultra-wide angle 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**



#### 20MM F/2.8 UW-NIKKOR IC

**2** Great for up-close shooting (to 1.3') with the Nikonos-V. Underwater corrected for optimum sharpness. Under-water-only. Picture angle 78°. DF-12 available for compensating parallax.

**Nikon Product Number: 10314 NCP**



#### 35MM F/2.5 W-NIKKOR IC

**5** 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.

**Nikon Product Number: 10311 NCP**



#### 28MM F/3.5 UW-NIKKOR IC

**3** 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 can be used with mounting mask.

**Nikon Product Number: 10310 NCP**

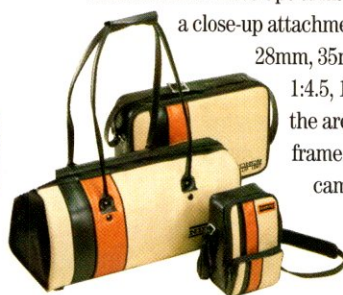
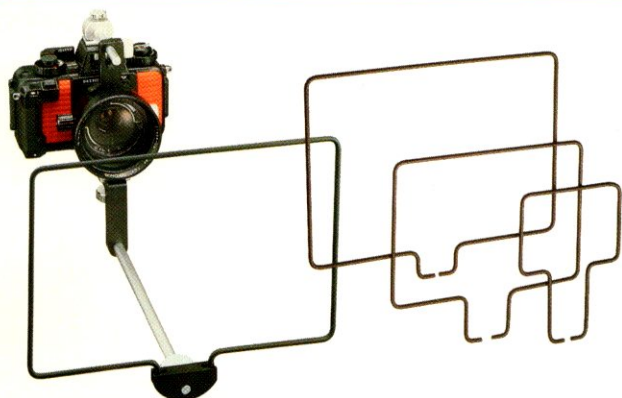
#### 80MM F/4 NIKKOR IC

**4** 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**



## 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

### 50MM F/2.8 R-UW AF MICRO-NIKKOR

The perfect 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

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 any-thing in-between. 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



## TAKE YOUR UNDERWATER PHOTOGRAPHY TO AN EXCITING NEW LEVEL WITH THE NIKONOS RS AF SYSTEM

### NIKONOS RS AF SLR CAMERA

The ultimate underwater camera, packed with high-tech features for fast, easy operation and maximum creative control.

Single lens reflex system allows for precise composition.

High-eyepoint action finder and large BriteView finder screen make it easy to see your subject. Five focusing options: Single-Servo Autofocus with Focus

Lock capability, Continuous-Servo Autofocus, Power Manual Focus, Freeze Focus, or Focus Tracking. 5-segment Matrix Metering is ideal for picture-taking in complex or fast-changing lighting situations.

Or, choose center-weighted metering. Select aperture-priority or manual exposure control.

Automatic matrix-balanced fill-flash or center-weighted TTL auto-

flash or manual flash control.

Also use rear curtain sync flash. Operate camera via remote control accessories.

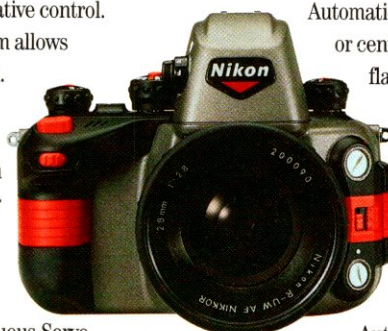
Built-in motor drive automatically advances film. Power film rewind.

Automatic film loading.

Ergonomic grips for easy handling.

Supplied w/Neck Strap, Spare O-Ring Set, 6V Lithium Battery.

Nikon Product Number: 11000 NCP

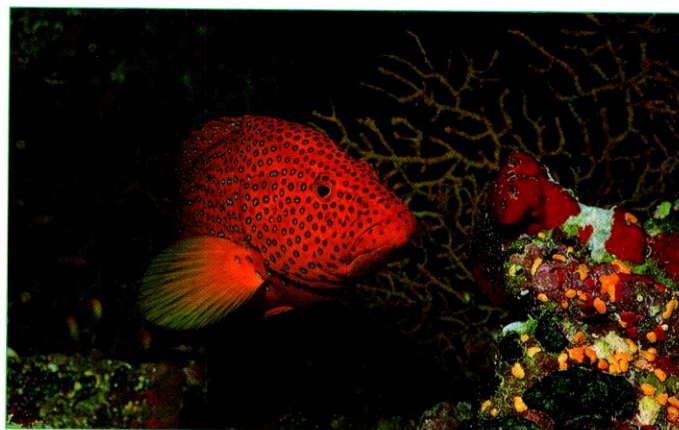
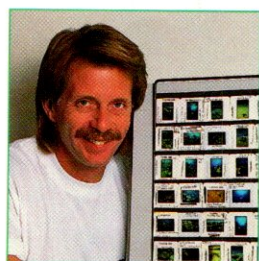


NIKON CARRIES EVEN MORE UNDERWATER PRODUCTS AND ACCESSORIES. ASK YOUR DEALER FOR COMPLETE INFORMATION OR CALL 1-800-NIKON-US.

### 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 Irvine*



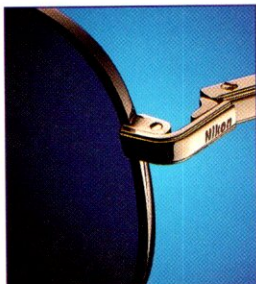


# NIKON HIGH PERFORMANCE SUNGLASSES

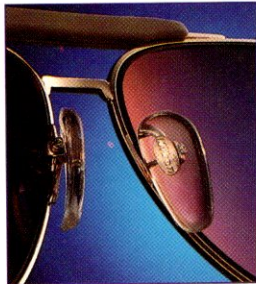
## ADVANCED TECHNOLOGY YOU CAN WEAR

*You won't take photographs with anything less than a Nikon camera. Why compromise when it comes to sunglasses? Nikon offers a full line of sunglasses with the most advanced optic technology — and every fashion — under the sun.*

Designed to meet the demands of outdoor enthusiasts the world over, all Nikon lenses are manufactured within their legendary glassworks to the strictest optical standards. Nikon lenses provide complete protection from harmful ultraviolet light, and yet they remain comfortably lightweight. Try on a pair and you'll see that there's just no substitute for Nikon quality.



Many styles feature optical spring hinges for comfort and durability.



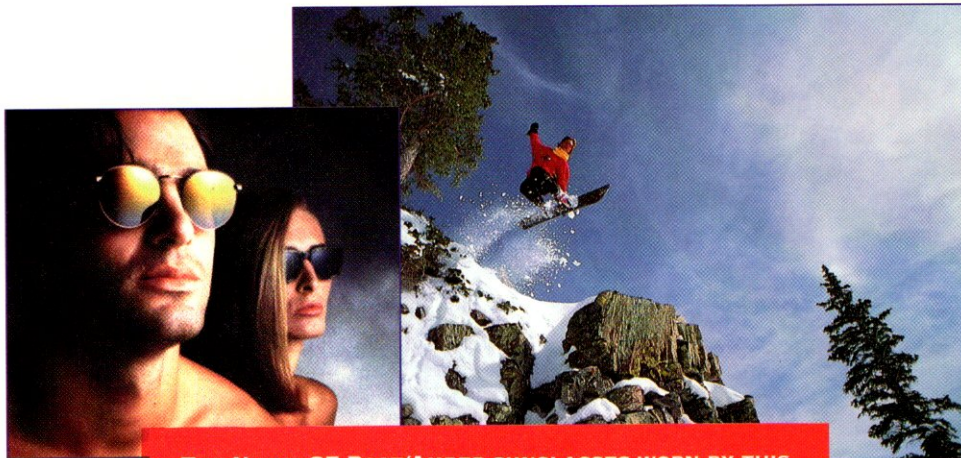
Gimballed silicon nose pads for a comfortable fit.

### AVALANCHE SUNGLASSES



Nikon CE Lenses. A skier's dream come true, Nikon CE lenses feature a high-contrast rose/amber lens tint and red mirror coating to reflect intense light. Terrain variations, like moguls, can be more easily seen. Don't fall for any imitations; insist on Nikon CE Lenses.

**Nikon Product Number: 54250 Black**



THE NIKON CE ROSE/AMBER SUNGLASSES WORN BY THIS SKIER HELP HIM SEE VARIATIONS IN THE TERRAIN, LIKE MOGULS, THAT OTHERWISE WOULD BE DIFFICULT TO SPOT.

### SOHO SUNGLASSES



Nikon LE Lenses. Whether you're lounging on the beach, or cruising in your convertible, these all-purpose Nikon lenses deliver superior performance. Photochromic glass automatically adjusts to changing light conditions, so you're not left in the dark if a cloud passes overhead. With Nikon's gradient mirror coating to reflect intense light and an anti-reflective coating, eye fatigue is drastically reduced. High-contrast copper tint lenses yield maximum protection from the sun's harmful ultra-violet rays. Made with Borosilicate glass in Nikon's own glassworks, LE lens are durable, yet incredibly lightweight.

**Nikon Product Number: 52021 Black**

### AVIATOR SUNGLASSES



Nikon LE Polarized Lenses. Perfect for driving, boating, or flying, these top-of-the-line lenses offer all the advantages of Nikon LE lenses, plus polarized filters that virtually eliminate glare.

**Nikon Product Number: 51003 Gold**

### BAJA SUNGLASSES



Nikon SX Lenses. For maximum protection from the sun's harmful ultra-violet rays, look for Nikon SX sunglasses. Available in a wide range of innovative and classic frames, these high-performance lenses feature anti-reflective coatings and the optical clarity available only from Nikon glass.

**Nikon Product Number: 55240 Black**

### NAVIGATOR SUNGLASSES



Nikon GX Polarized Sunglasses. Fish wish these extraordinary water sport lenses had never been invented. Each Nikon GX lens is polarized to virtually eliminate reflected glare, with a double-gradient mirror coating sandwiched inside where it can never be scratched. Whether the brilliance is coming from the sky, or reflected off the water, you're left with clear vision — and a cooler full of fish.

**Nikon Product Number: 53052 Black**



# BINOCULARS

**IT'S A  
BEAUTIFUL  
WORLD; SEE  
IT BETTER  
WITH NIKON**

*Nikon binoculars are  
made with precision  
aligned, fully-coated  
Nikon optics incorporat-  
ing BAK 4 high-index  
prisms. State-of-the-art  
optical technology,  
combined with quality  
Nikon construction and  
materials, provides you  
with unsurpassed  
clarity, brightness and  
strain-free viewing  
pleasure. Try one. You'll  
never see things quite  
the same again.*

**RATED HIGHEST BY  
WILDLIFE  
MAGAZINE REVIEW,  
ALL NIKON  
BINOCULARS  
DELIVER CRYSTAL-  
CLEAR IMAGES AND  
STRAIN-FREE  
VIEWING**



## STAYFOCUS PLUS® II SERIES

**10 x 50 CF, 7 x 35 CF, 8 x 40 CF, 7 x 50 CF**

Rugged yet lightweight, the StayFocus Plus II Series of four full-size Nikon binoculars delivers a low-light advantage, wide field of view and powerful images – all at a surprisingly affordable price. They're ideal for spectator-sports and birdwatching, especially in low-light situations. Three popular focusing modes incorporated are: **1.** Full central focus from close-up to infinity **2.** Focus lock any distance **3.** NO FOCUS setting.



## 7-15 x 35 SCOUTMASTER ZOOM II

An ideal binocular for when you're way back in the stands, or up in the balcony, and you want 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  
Supports The  
**NATIONAL  
WILDLIFE FEDERATION®**  
Working for the Nature of Tomorrow





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## SPORTSTAR COMPANION SERIES

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### 8 x 20 DCF, 10 x 25 DCF

High power in a sleek pocket-size design makes this series popular with hikers and theatergoers alike. Quality roof-prism design offers incredibly clear viewing.



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## THE CRITERION SERIES OF HIGH PERFORMANCE BINOCULARS

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### 7 x 50 IF SP PROSTAR, 10 x 70 IF SP ASTROLUXE

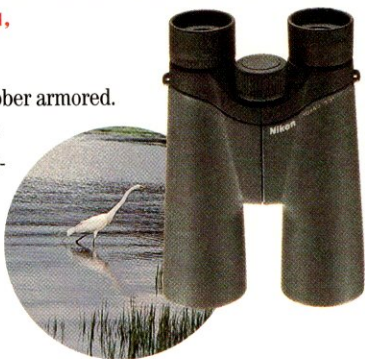
"The connoisseur's binocular" as stated in Astronomy Magazine. Pinpoint resolution, free from coma and virtually all spherical and chromatic aberrations; multi-coated optics providing unbelievable brightness and contrast; able to clearly identify stars half to a full magnitude fainter than those visible with ordinary binoculars. Waterproof and fogproof.



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### 10 x 40 DCF EXECULITE II, 8 x 32 DCF EXECULITE II

Ultra-slim, ultra-lightweight, rubber armored. 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).



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### 8 x 40 DCF CLASSIC EAGLE

This streamlined, all-metal roof prism 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 fog proof.



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### 8-16 x 40 CF ZOOM XL, 6-12 x 24 DCF LETOUR ZOOM

In a super choice of Porro prism or roof prism slim line design, these are the highest quality zooms in the industry. Micro-smooth central focus and zoom controls, ultra precision lens fittings and superb optics in perfect alignment. (8-16 x 40 CF ZOOM XL not pictured).



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## TRAVELITE III COMPANION SERIES

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### 7 x 20 CF, 8 x 23 CF, 9 x 25 CF, 10 x 25 CF

Take one look at the Travelite III Companion Series and you'll begin to see why these binoculars are so immensely popular. Take one look *through* any one of the four models in this series and you'll buy one on the spot. Travelite binoculars offer an irresistible combination of high power, superb resolution, and a compact, lightweight design at a popular price. The 8 x 23 Travelite III is the replacement for our famous #1 consumer rated 8 x 23 Venturer with a new ergonomic shape as the only change. 10 x 25 CF not pictured.





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THE SEA N' SPORT SERIES. BUILT TO LAST IN THE GREAT OUTDOORS.

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**MOUNTAINEERS, AND TRAILBLAZER, 8 X 23 CF, 10 X 25 CF, 8 X 30 DIF**      **FIELDSCOPES / SPOTTING SCOPES**

As their names suggest, these binoculars are powerful and tough. Waterproof and fog proof. Heavy-duty rubber-armored 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.



Designed primarily for serious birdwatchers and nature lovers, these scopes deliver incredible power and crisp, clear viewing for anyone with the itch to go beyond, even the stars.

Fieldscopes are available as body only in 60mm and 78mm objective lens sizes in both straight and angled eyepiece versions. Available eyepieces for Fieldscopes only: 15x, 30x, 30xW, 45x, 60x, 20-45x zoom. Spotting scope available in 20 x 60 and 15-45 x 60 zoom models.



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**7 X 50 IF SEAFARER II**

Batten down the hatches. This rugged binocular is waterproof and fogproof and features large 50mm objective lenses for maximum resolution to spot fish, shore lines, buoys and markers — even in foggy or very low light conditions. 7x power is high enough magnification to do the job, yet low enough to be manageable on a rocking boat. Rubber armor absorbs shock, and provides an easy-to-grip surface.



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THE CRITERION E 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).



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THE ACTION SERIES

**7 X 35 NATURALIST III, 8 X 40 EGRET, 10 X 50 LOOKOUT III**

If you have an eye on your budget, but you still value Nikon quality, consider the Action Series. Depending on the model, Action Series binoculars can be used for astronomy, sports viewing, or backyard birdwatching. Quick central focusing, diopter controls, BAK 4 high index prisms and rubber coated durable die cast aluminum construction truly make them an incomparable buy.



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DIPLOMAT

**NEW**

**8X23, 10X25**

These extraordinary new Porro prism binoculars redefine the word "sharp" in a compact, portable binocular. Featuring the cutting edge technology of aspherical (AS) lenses, 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).



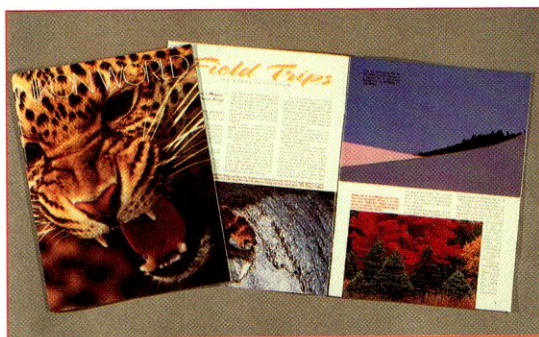


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# NIKON — HELPING YOU TAKE THE WORLD'S GREATEST PICTURES

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*Nikon's dedication to the finest in  
photography extends far beyond its  
commitment to produce only the very best  
state-of-the-art equipment. Nikon offers  
you a comprehensive blend of information,  
training and services to sustain and  
advance your photographic expertise.*



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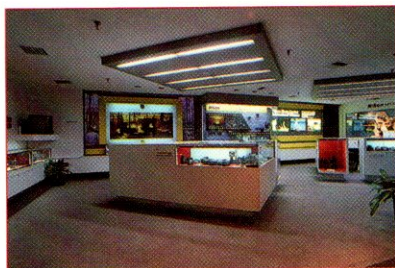
## NIKON WORLD MAGAZINE

Published three times a year along with a calendar issue, this magazine presents the most up-to-date information on Nikon's latest products, and features a selection of Nikon photographs taken with Nikon equipment. Nikon camera purchasers can subscribe by submitting the application form packed in the camera box or calling 1-800-NIKON-US. Subscription Rates: One year, \$9.95; 2 years, \$17.95, 3 years, \$25.00. Back Issues: \$3.00.

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## NIKON HOUSE GALLERY AND SHOWROOM

Located in New York's prestigious Rockefeller Center, this facility encompasses a Nikon equipment showroom, photo gallery, and seminar center. Since its founding in 1970, Nikon House has showcased the works of hundreds of photographers, and hosted the millions who share their fascination with photography. Address: Nikon House, Rockefeller Center, 620 Fifth Avenue, New York, NY 10020, Phone: 212-586-3907





## NIKON SCHOOL OF PHOTOGRAPHY

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 taking the kind of pictures you want, and doing is successfully. 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.

Each of the Nikon Schools instructors brings a unique combination of photographic teaching and presentation skills to make learning about photography exciting. With years of photographic experience, they have assisted the top photographers in the world in creating images. Some of their photographic experience has even been out of this world since they have also trained NASA astronauts in the art of photography.

Learn about lens selection, exposure metering, compo-

sition, light – the essence of photography, electronic flash, close-up photography and more.

The complete Nikon School course is conducted twice in one week-end. You can attend all day Saturday, or all day Sunday from 9:00 a.m.

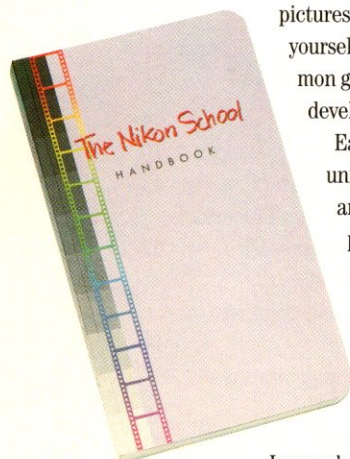
– 6:00 p.m. Your fee includes a lunch and a special 300-page edition of The Nikon School Handbook – a \$24.95 value.

Attendance is limited to the number of seats available. The earlier you enroll, the more certain you can be of getting into the session of your choice.

**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

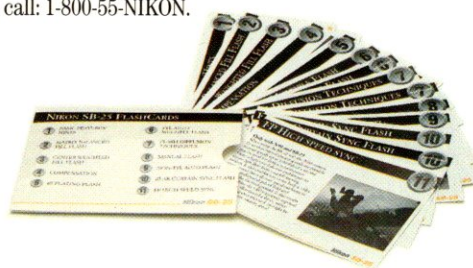
# The Nikon School



## NIKON SCHOOL VIDEO LEARNING SERIES

Your instruction book is only the beginning when it comes to learning about Nikon photography. The award-winning Nikon School Video Learning Series brings professional photographers right into your living room. From cameras, to flash, to 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: F4, N90, N8008s, N6006, N5005, SB-25 Speedlight, SB-24 Speedlight (both Speedlight tapes come with quick-

reference "Flashcards"), Essence of Light, and Full-line Video Catalog of all major Nikon products. Lengths vary from 35 minutes to over an hour. Available at \$29.95 each. To order call: 1-800-55-NIKON.



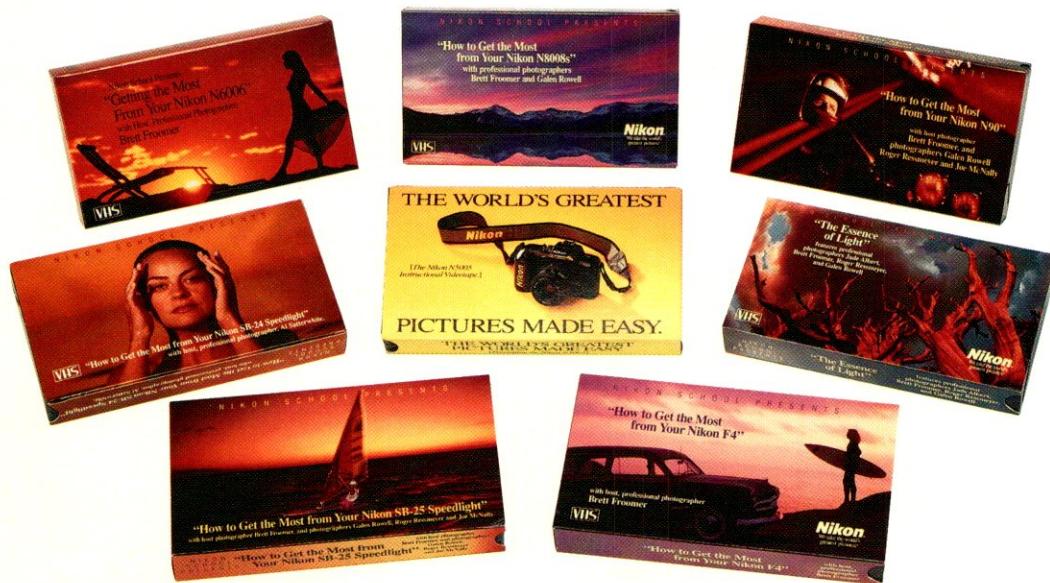
**FOR NIKON QUESTIONS: YOUR NIKON DEALER IS YOUR BEST SOURCE FOR INFORMATION RELATING TO ALL NIKON PRODUCTS AND SERVICE. TO FIND THE LOCATION OF THE NIKON DEALER NEAREST YOU, CALL:**

**1-800-NIKON-US.**

# Nikon

**Nikon Advanced Systems Dealer**

**Nikon CONSUMER PRODUCTS DEALER**





ALPHABETICAL INDEX TO PRODUCTS AND PRODUCT CATEGORIES

Product	page	Product	page	Product	page	Product	page
35Ti Camera	27	Lens Cases	49	N8008S Camera	17	SB-25	54
250 Exposure		Lens Hoods	44	Nikon Gallery	74	SB-140 UV-IR	56
Magazine Back MF-4	10	Lenses (35mm)		Nikon School	75	Straps	64
Film Cassette MZ-1	7	Fisheye	31	Nikon Video		Sunglasses	70
Binoculars	71	Moderate Telephoto	33	Learning Series	75	Teleconverters	42
Building Your System	39	Normal	33	Nikon World Magazine	74	Underwater Cameras	
Camera Cases	48	Special Purpose	41	Power Sources		and Accessories	67
Close-up		Super Telephoto	34	AA Battery Holder	7	Viewfinders	
Bellows PB-6	61	Telephoto	34	AA Battery Holder		6X Magnification	
Bellows/Rail Spacer		Ultra Wide-angle	31	MS-21	7	DW-4	11
PB-6D	62	Wide-angle Lenses	31	AA Battery Pack		6X Magnification	
Cable Releases	62	Zoom	36	MB-20	7	DW-21	6
Extension Bellows		Lenses for Large		External Battery Pack		Action Finder DA-2	11
PB-6E	61	Format Cameras	50	DB-6	7	AE Action DA-20	6
Extension Rings	61	Miscellaneous		External Power Cord		Eye-Level DE-2	11
Focusing Stage PG-2	61	Accessories	64	MC-28	7	High Eyepoint DE-3	11
Lens Reversing Rings	61	Motor Drive		High Speed Battery Pack		Multi-Meter DP-20	5
Macro Copy Stand		AC/DC Converter		MB-21	7	Waist Level DW-3	11
PB-6M	61	for MD-4	10	Multi-Power High Speed		Waist Level DW-20	6
Macro lenses	60	Auto Stop Back		Battery Pack MB-23	7	Viewing Attachments	
Macro Speedlight		MF-6	10	NiCad Battery Charger		Eyepiece Magnifier	
SB-21 A/B	62	Firing Rate Converter		MH-20	7	DG-2	11
Other Close-up		MK-1	10	NiCad Battery Pack		Right Angle DR-3	11
Accessories	62	Magazine Back		MN-20		Rubber Eyecups	
Repro Copy Outfit		MF-4	10	Power Regulator MB-22	7	DK-2, DK-4	11
PF-4	61	MC-11 for MD-4	10	Remote Control		Charts	
Slide Copying Adapter	61	MD-12	26	Complete Section	63	Filter Selection Chart	43
Compact Cameras	65	Motor Drive		Adapter Cord MC-25	15	Lens Hoods	43
Data Backs		MD-4	10	Connecting Cord		Lens/Teleconverter	
MF-16	26	Motor Terminal Release		MC-23	15	Compatibility	40
MF-20	18	MR-3	10	Extension Cord MC-21	15	People and Portraits -	
MF-22	6	Multi-Motor Cord		Module ML-3	15	Building Your System	40
MF-25	15	MC-17S	10	Remote Cord MC-20	15	Touch Camera	
Data Link	14	NiCad Battery Charger		Remote Cord MC-22	15	Features	66
Enlarging Lenses	51	for MD-4	10	Intervalometer MT-2	63	Travel - Building Your	
Eyepiece		Power Converters	7	Radio Control Set		System	39
Correction Lenses	47	Multi-Control Backs		MW-2	63		
F3/T Camera	12	MF-21	18	Remote Cords/			
F3HP Camera	9	MF-23	6	Adapters	63		
F4S Camera	4	MF-24	6	Speedlights			
Filter Accessories	46	MF-26	15	Accessories	59		
Filters	44	Multiple Flash	57	SB-11	55		
FM2N Camera	25	N90 Camera	13	SB-14	55		
FM2N Titanium		Data Link	14	SB-16A/16B	55		
Body Camera	26	N5005 Camera	23	SB-20	54		
Focusing Screens	47	N6000 Camera	22	SB-21 Macro A/B	56		
Lens Caps	44	N6006 Camera	20	SB-23	54		





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Many of the 35mm photographs shown in this product guide have been separated using the Nikon LS-10 Coolscan Desktop Scanner. Two models are available: a light-weight, portable external unit, and an internal unit that will mount into your computer's half height disk drive slot.

**What it is.** First full-color, single pass film scanner of its kind. Reliable, compact and quiet, with low power consumption. Inexpensive to buy and use. Simple to operate, with little or no training required. Just insert a 35mm slide or negative and

select the desired resolution. Coolscan does the rest. Compatible with PCs, Macs and many other computers with a SCSI interface.

**What it does.** Scans color or monochrome 35mm positive or negative mounted slides or strip film with state-of-the-art optical definition and color sensitivity. Automatically adjusts for film type and shooting conditions. Corrects for amount of exposure, gamma, and color balance. Achieves high resolution scans up to 2700 dpi. Lets you quickly produce presentations, catalogs, newsletters and manuals. Assures security and reduced costs with in-house production.



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