

# **Nikon SLR Accessories**



# Nikon System Accessories: An Introduction

Paramount to the Nikon System is an integrated array of more than 300 precision accessories, extending the Nikon system user's mastery to any and all photographic applications. Every Nikon accessory is crafted with the rugged excellence typical of the cameras for which it is intended

**Nikon Close-Up, Macro and Micro Accessories** bring unrivalled flexibility and precision to one of the most fascinating areas in all photography, from simple close-ups to advanced photomicrography.

**Nikon Viewfinder Attachments** provide optimum viewing and focusing comfort and accuracy under a broad range of light and shooting conditions, further expanding the visual control inherent in Nikon single-lens reflex design

**Nikon Carrying Cases, Flash Equipment and General Accessories** provide practical solutions to a multitude of picture-taking needs.





# Nikon Close-up, Macro & Micro Accessories

In the fascinating area of close-up photography Nikon and Nikkormat cameras offer exceptional advantages. The Nikon system provides the widest array of aids in 35mm photography: close-up lenses, extension rings, bellows units, slide copiers, viewfinder attachments, finder screens, specially-designed optics, camera supports, and even illumination systems. Singly or in combination, they enable the Nikon or Nikkormat owner to undertake any challenge from simple close-ups of flowers or artifacts to advanced photomicrography. And, because all these precision accessories are specifically designed for use with Nikon system cameras and lenses, highest optical and mechanical quality are assured.



## Close-Up Attachment Lenses No. 0, 1, & 2

The simplest, most economical approach to close-up photography. Individual No. 0, 1 and 2 Close-up Lenses screw into any 52mm-thread Nikkor lens; all automatic camera/lens functions remain in operation. Use singly or in combinations to reproduce subjects measuring from 26x38" to as small as 2.8"x4.3" (0.3X ratio) with 50mm f2 lens. Gives optimum sharpness at smaller lens openings. Excellent for flowers, plants, animals, other 3-dimensional subjects. No. 0, Product No. 2729; No. 1 Product No. 2730; No. 2, Product No. 2731



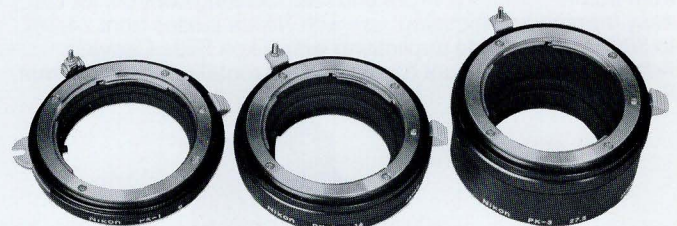
## Extension Ring E2

Semi-automatic extension ring of 14mm depth; mounted between camera and normal lens, covers subject areas from 3.5x5.2" to 2.5x3.8" (0.27x-0.37x reproduction ratio) with 50mm lens. Push-button control opens lens to full aperture for viewing and focusing—when released, closes lens to preset aperture for metering and exposure. May be operated via Nikon cable release if desired. Use alone for moderate close-up application, in pairs, or with other extension rings or bellows units to provide semi-automatic diaphragm control. Product No. 2720.



## Extension Ring Set K

Versatile 5-piece system provides increased lens-to-film distances from 5.8mm to 46.6mm, in various combinations. With 50mm lens, fills frame with subjects from 8.4x12.6" to 0.9x1.4" (0.11x-1x); can also be used with any other Nikkor lens. Stopdown, thru-the-lens metering and manual diaphragm control; Extension Ring E2 may be added for semi-automatic diaphragm operation with Auto-Nikkor or AI-Nikkor lenses. Provides great flexibility at moderate cost. With case. Product No. 2710.



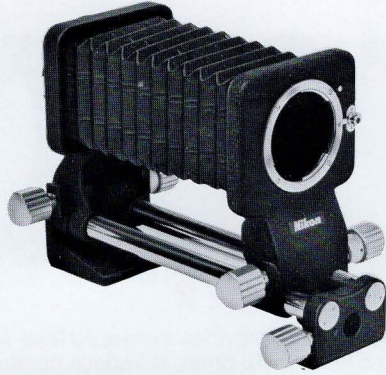
## Automatic Extension Rings

Precision metal extension rings maintain full-aperture metering and automatic diaphragm control of Auto-Nikkor lens in macro range with Nikon system cameras incorporating external meter-coupling mechanism. PK-1, 2, & 3 Rings are respectively 8mm, 14mm, and 27.5mm long; mount between camera and lens individually or in any of seven combinations to increase lens-to-film distance up to 49.5mm; with 50mm normal lens, record subjects measuring from 6.1x9. " to just 0.89x1.3"—larger than 1:1 or 'life' size on the film. May be used with all Nikkor lenses from 20mm wide angle to 300mm telephoto. PK-1, Product No. 2643; PK-2, Product No. 2644; PK-3, Product No. 2645.

**Note:** For AI Nikkor lenses use PK-11, 12 & 13. Similar specifications to PK-1, 2 & 3, but with AI coupling. PK-11, Product No. 2651 PK-12, Product No. 2652; PK-13 Product No. 2653.



# Nikon Close-Up, Macro & Micro Accessories



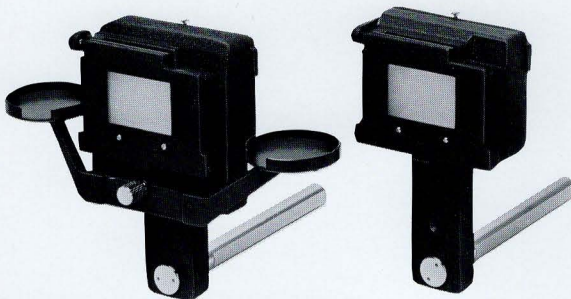
## Bellows Attachment PB-5

Mounts between camera and lens for close-up and macro pictures from nearly life-size (0.83x) to almost four times life-size (3.6x) with 50mm lens and 1.6x to 4.4x with the lens mounted in reverse position via a BR-2 reversal ring. Excellent for stamps, coins, insects, sections of plants or flowers, any ultra-small subject. Continuously variable lens-to-film extension from 43mm—185mm. Front and rear focusing controls for fast, easy framing and focusing; use with Nikkor lenses from 24mm to 300mm or for slide duplicating with Nikon Slide Copying Adapter. Camera mount rotates for horizontal or vertical format. Product No. 2635.



## Bellows Attachment PB-4

Most versatile of all photomacrography accessories; provides all features of PB-5 plus twin dual-track mechanism that permits moving lens and camera separately or as a unit for fastest, most convenient framing and focusing. Lensboard shifts 10mm left or right and swings 25° from left-to-right for enhanced depth-of-field control. Product No. 2602.



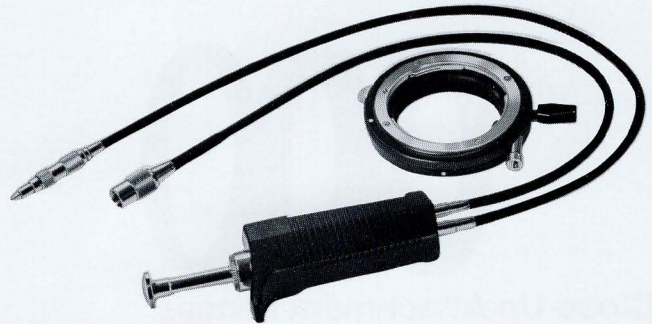
## Slide Copying Adapters PS-4 & PS-5

Attach to either Nikon Bellows unit for same-size or enlarged duplicates of 35mm or smaller slides and negatives as well as filmstrips, even 8mm, Super-8, or 16mm movie films! Deluxe model PS-4 has support trays for uncut rolls, permits cropping by shifting slideholder 6mm vertically, 9mm horizontally. PS-4, Product No. 2633; PS-5, Product No. 2634.



## Macro Adapter Rings BR-2 & BR-3

BR-2 lets you mount any 52mm-thread Nikkor lens in reverse position on extension rings or bellows for optimum performance (and added lens-to-subject distance) when shooting at life-size (1x) or larger magnifications. Unique BR-3 Ring converts bayonet mount of reverse-mounted lens into 52mm diameter thread to accept Slide Copying Adapter, 52mm filters, or lens hoods. BR-2 Ring, Product No. 2630; BR-3, Product No. 2629.



## Auto Ring BR-4 & Double Cable Release AR-4

Provides one-touch automatic diaphragm control and shutter-release action with Nikon Bellows units or Extension Ring Set K. Auto Ring is bayonet-mounted to lens; then, one of the paired Cable Releases is screwed into Auto Ring, the other into the camera's shutter release. Pressing the release plunger first closes down lens diaphragm, then trips shutter. Depth-of-field preview button on Auto Ring permits quick stopdown for metering and depth-of-field check. When mounted between lens and camera or bellows, the ring also serves as 9mm extension. BR-4 Ring, Product No. 2637; AR-4 Double Cable Release, Product No. 2636.

All specifications subject to change without notice.



# Nikon Close-up, Macro & Micro Accessories



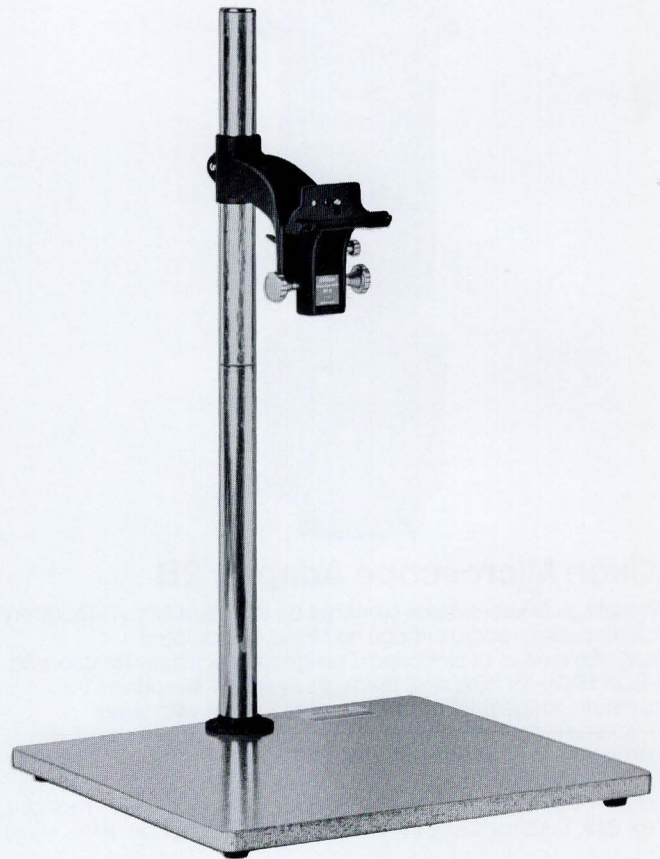
## Electronic Ringlight Unit SR-2

For use in close-up photography with 52mm-thread Nikkor lenses from 35mm—200mm. Provides soft, shadowless lighting at lens-to-subject distances of 7.8" to about 10 feet. Accepts AC or Battery Power Pack of Medical-Nikkor lens with full and 1/4-power selector Product No. 342.



## Macro Ringlight Unit SM-2

Designed for optimum performance in photomacrography, at magnifications of 1x (life-size) or larger; attaches directly to flange of reversed Nikkor lenses 24mm—135mm for mounting on bellows unit, using BR-2 Ring. Operates on AC or Battery Powerpack of Medical-Nikkor lens, with full and 1/4-power control. Product No. 343.



## Repro-Copy Outfits

Rugged, rigid, versatile camera supports for photography of documents, books, paintings, and similar materials. Coarse and fine elevation controls for accurate camera positioning; camera mount is adjustable to 8 different positions at 45° intervals for copying wall-mounted originals. Model PFB-2 (Product No. 2761) supplied with hardwood baseboard; Model PFC-2 Product No. 2760) in carrying case which opens up to form work surface. Accessory clamp Product No. 2755) permits mounting column on table or bench.



# Nikon Close-up, Macro & Micro Accessories



## Nikon Microscope Adapter 2B

Mounts all Nikon-system cameras on standard Nikon laboratory microscopes; records image on film at  $\frac{1}{2}$  indicated magnification of microscope. Designed specifically for use with Nikon HKW-5x, 10x, and 15x 'high-eyepoint' eyepieces for optimum image quality (not intended for use with other eyepiece types). Includes green filter for improved chromatic correction with black & white films. With Nikon Type C Finder Screen for use with all Nikon F2 cameras, Product No. 813; for other Nikon system cameras, without Finder Screen, Product No. 818. Leather Case for either model, Product No. 819.



## Camera Body M35-S

Can be used with Microflex, in place of Nikon or Nikkormat body. Contains film transport and counter, with dark slide. Product No. 801



## Microflex PFMF

Embodies its own image-forming optics, shutter mechanism and viewing system. Reduces overall magnification by one-half. Supplied with focusing ocular eyepiece for high-power photomicrography, and interchangeable ground-glass screen and 7x magnifier for low-power work. The screen also offers advantages in teaching and other group-viewing applications. For use with all Nikon and Nikkormat SLR cameras.

The Microflex has an internal prism system which diverts the microscope image into the viewing eyepiece or onto the viewing screen. Exposure is made with conventional cable release, which swings the prism out of the light path and trips the shutter. All of the light reaches the film. Shutter speeds range from 1 second to 1/250th plus "bulb" and "time" for prolonged exposures. There is also provision for synchronized flash. Product No. 805.

## Microflex PFM-B

A similar micro system for use with Nikon M35-S Camera Body. Product No. 806.

All specifications subject to change without notice.



# Nikon Close-Up, Macro & Micro Accessories

## Usable Magnification Range of Auto-Nikkor Lenses in Close-Up Photography

Values shown are for lenses most commonly employed in close-up photography. However equivalent magnification ranges apply with other Nikkor lenses of similar focal length for all applications except with lens mounted in reverse position.

	Lens Only	Extension Ring E2	Extension Ring Set K	Auto Extension Rings PK-1,2,3	Bellows Attachments PB4/5	
					Forward	Reverse
28mm f3.5	1/Inf.—0.14x	0.5x—0.63x	0.2x—1.8x	0.28x—1.9x	1.5x—2.9x	3.6x—8.6x
35mm f2.8	1/Inf.—0.18x	0.38x—0.56x	0.16x—1.5x	0.22x—1.6x	1.2x—5.1x	2.6x—6.5x
50mm f2.0	1/Inf.—0.14x	0.27x—0.42x	0.11x—1 1x	0.15x—1 1x	0.83x—3.6x	1.6x—4.4x
85mm f2	1/Inf.—0.11x	0.16x—0.29x	0.07x—0.67x	0.09x—0.7x	0.5x—2.2x	0.45x—2.1x
105mm f2.5	1/Inf.—0.12x	0.13x—0.26x	0.06x—0.56x	0.08x—0.6x	0.4x—1.8x	0.3x—1.6x
135mm f3.5	1/Inf.—0.11x	0.1x—0.21x	0.04x—0.45x	0.06x—0.48x	0.3x—1.38x	1/Inf.—0.7x
200mm f4.0	1/Inf.—0.13x	0.07x—0.2x	0.03x—0.37x	0.04x—0.38x	0.21x—0.91x	
55mm f3.5	1/Inf.—0.5x	0.25x—1.25x*	0.1x—1.85x*	0.14x—1.4x	0.8x—3.4x	1 7x—4.3x
105mm f4.0	1/Inf.—0.5x	0.13x—1 13x**	0.05x—1.44x**	0.08x—1.0x	0.4x—1.8x	0.26x—1.6x

Notes: Maximum magnification values include focusing range of Nikkor lens. With Extension Ring Set K, some intermediate ratios may require additional extension depending on lens in use. All values shown are approximate.

\*With PK Ring  
\*\*With PN Ring

Magnification Ratio	0.1x	0.2x	0.3x	0.4x	0.5x	0.6x	0.7x	0.8x	0.9x	1.0x
Field Size in mm	240x360	120x180	72x108	60x90	48x72	40x60	34x51	30x45	27x40	24x36
Magnification Ratio	1.5x	2.0x	2.5x	3.0x	3.5x	4.0x	5.0x	6.0x	7.0x	8.0x
Field Size in mm	16x24	12x18	10x15	8x12	7x10	6x9	5x7	4x6	3.4x5	3x4

All specifications subject to change without notice.



# Nikon and Nikkormat Viewfinder Accessories

All accessories screw into 19mm-threaded eyepiece of all Nikon-system Pentaprism viewfinders, except where noted.

## Right Angle Viewing Attachment DR-2

Unique 7-element, 6-group optics provide 1:1 right-side up, laterally correct image of entire finder area at 90° angle. Special roof prism construction gives same-size reproduction, permits unrestricted finder-screen visibility including meter needle and all other information normally visible in finder. Built-in diopter adjustment, -5 to +3. Permits aerial-image focusing with Types C and M finder screens. Weighs just 3.9 ounces. A tremendous aid to more comfortable, precise close-up and copy photography. Product No. 2320.



## 2X Eyepiece Magnifier

Doubles magnification of central 12mm finder area for pinpoint focusing accuracy; particularly helpful in closeups and photomacrography. Hinged mount permits swinging 2X Magnifier out of the way for composition and metering. 3-element optical system adjustable from -5 to +1 diopters. Permits aerial-image focusing with Types C and M screens. Accepts accessory rubber eyecup. Product No. 2315.



## Folding Rubber Eyecup

Shields finder and eye from extraneous light for more comfortable viewing and focusing—especially for eyeglass wearers—may be used with Eyepiece Correction Lens if desired. Particularly effective in shielding meter from stray light entering through eyepiece when stopdown metering is employed. For Nikon F2, Product No. 2313; for Nikkormat, Product No. 2312.



## Eyepiece Correction Lenses

Aids viewing and focusing for both far- and nearsighted photographers. For nearsightedness, 4 "minus" lenses are offered; for farsightedness, 4 "plus" lenses. The correction lenses are numbered to indicate the total effect of the viewing system, which has a built-in -1 factor; thus, when a +2 lens (actually a 3-diopter lens) is attached, the total viewing system has a rating of +2 diopters. A neutral (0 diopter) lens is also available.

### Nikon Eyepiece Correction Lens Selector

Prod. No.	Description	Corrects For
2918	-5 Diopter	Nearsightedness
2917	-4 Diopter	Nearsightedness
2916	-3 Diopter	Nearsightedness
2915	-2 Diopter	Nearsightedness
2914	0 Diopter*	Normal Vision
2922	+0.5 Diopter	Farsightedness
2919	+1 Diopter	Farsightedness
2920	+2 Diopter	Farsightedness
2921	+3 Diopter	Farsightedness

\*Replacement (gives effective -1 factor)

NOTE: These eyepieces may not be used on the Nikon FM. Some viewfinder accessory items may block the access to the camera back on the FM, due to compact size of this camera.



# Nikon/Nikkormat Compartment Cases

Feature roomy, safe storage and separate compartments for cameras and lenses and, in some models, outside pockets for accessories. Luxuriously finished in genuine cowhide or durable leatherette, each case comes with shoulder strap and nonslip shoulder pad. For all Nikon and Nikkormat cameras.



## Compartment Case FB-8

Holds two cameras (one with lens), three extra lenses (to 300mm) in individual bayonet sockets. Opens away from you for quick, safe access to contents. Outside pocket for small accessories. Made of fine black leatherette.



## Compartment Case FB-11A

Extra-large Pro-bag with carrying handle and detachable shoulder strap. Removable tray holds two cameras plus extra lens; additional lenses and

accessories fit into bottom compartment which has adjustable partitions. With partitions removed, there is room for an extra-long lens, up to 500mm Reflex-Nikkor. Made of fine cowhide.



## Compartment Case FB-12

Similar to FB-11A but smaller. Removable tray holds two cameras (or one plus extra lens); bottom section adapts for a variety of lenses and accessories. Cowhide.



## Compartment Case FB-13

Pro-bag style with removable compartments. Accommodates one or two cameras with (or without) attached motor drive, auto winder, lenses, or diverse other equipment. Cowhide.



## Compartment Case FB-14

Handsome semi-soft shoulder bag with full-length zipper and outer pocket. Holds one camera and three lenses up to 80-200mm Nikkor zoom or 300mm f4.5. Fine leather construction.



## Shoulder Bag Model 1

Versatile carry-all bag holds an amazing quantity and variety of equipment. Full-length zipper gives access to non-compartmented interior; another zipper opens a small pocket for film or accessories. Stores flat when empty. In soft, black vinyl.

## Nikon Compartment Case Selector

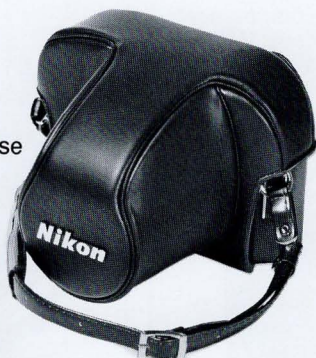
	FB-8	FB-11A	FB-12	FB-13	FB-14	Shoulder Bag Model 1
Number of Cameras	2	2	2	2	1	1
Lenses	4 (up to 300mm f4.5)	4-9 (up to 500mm f8)	3-6 (up to 400mm f5.6)	3 (up to 300mm f4.5)	3 (up to 300mm f4.5)	3
Motor Drive or Auto Winder		Yes		Yes		
Nikon Compact Thyristor Flash	Yes	Yes	Yes	Yes	Yes	Yes
Large size accessory (such as Bellows)		Yes				
Side Pocket for Sundries	Yes				Yes	
Approx. Outer Dimensions	12.3x8.6x9.0"	15.0x9.5x11.5"	13.1x7.9x10.5"	13.1x8.0x10.5"	11.5x5.8x9.8"	13.0x5.0x12.5"
Accessories Provided		4 Partitions, Cushion Pad, Filter Pouch	3 Partitions, Cushion Pad, Filter Pouch	3 Partitions, Cushion Pad, Filter Pouch, Camera Pad		
Product No.	496	500	501	502	503	404

This chart lists possible combinations of equipment which may be stored in each of the cases listed. In most instances, alternate components will also fit. The number of lenses accommodated in each case will vary depending on the size of the individual lenses.



# Nikon/Nikkormat Carrying Cases

Hard Eveready Case



Soft Pouch Case



Semi-Soft Case



Combining handsome styling with practical protection, each Nikon and Nikkormat carrying case is constructed of the finest materials reflecting Nikon's traditional quality and is designed for specific camera/lens combinations as noted. Case tops fold down, can be detached if desired. In black finish.

## Nikon/Nikkormat Case Selector

Prod. No.	Model Description	Nikon F2 with			Nikon		Nikkormat			With Lenses 16mm to 55mm <sup>1</sup> as well as:
		Pentaprism Finder	Photomic Finder (All)	Action Finder	FM	EL2	EL	ELW	FT2/3	
413	CH-4 Hard Eveready Case	•	•							85mm
416	CH-5 Hard Eveready Case	•	•							85mm, 105mm, 43-86mm
414	CF-1 Semi-Soft Eveready Case	•	•							85mm
415	CF-2 Semi-Soft Eveready Case	•	•	•						85mm
429	CS-12 Soft Pouch Case	•	•							85mm
425	CS-8 Soft Pouch Case	•	•			•	•	•		
426	CS-9 Soft Pouch Case	•	•			•	•	•		85mm, 105mm, 135mm
427	CS-10 Soft Pouch Case	•	•			•	•	•		85mm, 105mm, 135mm, 200mm, 43-86mm, 80-200mm
410	CF-6 Semi-Soft Utility Case	•	•			•	•	•	•	85mm, 105mm, 135mm, 200mm, 43-86mm, 80-200mm, + extra lens, filters.
420	CH-3 Hard Eveready Case					•	•	•		85mm
393	CH-8 Hard Eveready Case					•	•	•		85mm, 105mm, 43-86mm
428	CS-11 Semi-Soft Eveready Case					•	•	•		85mm
422	CS-7 Soft Pouch Case					•	•	•	•	
423	CH-9 Hard Eveready Case					• <sup>2</sup>		• <sup>2</sup>		85mm
424	CH-10 Hard Eveready Case					• <sup>2</sup>		• <sup>2</sup>		85mm, 105mm, 43-86mm
4481	CF-7 Semi-Soft Eveready Case				•					85mm
4487	CH-6 Hard Eveready Case								•	85mm
4488	CH-7 Hard Eveready Case								•	85mm, 105mm, 43-86mm
489	CF-4 Semi-Soft Case								•	85mm

<sup>1</sup>Includes 16mm f3.5; 20mm f4; 24mm f2.8; 28mm f2, 2.8, & 3.5; 35mm f1.4, 2, & 2.8 (except PC); 45mm f2.8; 50mm f1.4 & 2; 55mm f1.2 & 3.5 (without PK or M-Ring).

<sup>2</sup>With Auto Winder AW-1

Note: Soft Pouch Cases (CS-series) require accessory Neckstrap with Shoulder Pad, Models AN-1 Leather, Prod. No. 635, or AN-3, Leatherette, Prod. No. 637

All specifications subject to change without notice.



# Nikon Electronic Flash Units

## Nikon SB-5 Thyristor Flash System



Versatile thyristor flash ideally suited to motor-drive photography. Key features:

### Variable Power Control

Selector switch on flash permits operation at Full Power  $\frac{1}{4}$  Power or special 'MD' setting equivalent to  $\frac{1}{8}$ th power. In MD mode, recycles within 0.25 seconds to permit motorized flash photography at speeds to 3.8 frames per second, in continuous bursts up to 40 frames! Guide numbers (ASA 100): 105 at full power, 36 in MD mode.

### Automatic Control

Accessory SU-1 Sensor permits accurate automatic operation at choice of three f/stops, at distances to 26.2 feet. Sensor plugs into flash for direct lighting, mounts on camera accessory shoe with accessory SC-9 Adapter for automatic bounce flash.

### Quick-Release Bracket with 12-Way Bounce

Flash may be rotated vertically, locking at 30° increments, for 360° light path flexibility. Additionally, the flash grip can be rotated horizontally in the bracket to permit unrestricted flash placement whether camera is used in horizontal or vertical mode.

### Choice of Power Sources

Nicad battery pack SN-2 provides 75-420 flashes (depending on subject distance), recharges fully in 3 hours with accessory Quick Charger SH-2. Alternatively, the heavy-duty power pack SD-4 (with shoulder strap) gives 250-4000 flashes per set of two 240v dry batteries.

Other Nikon SB-5 features include 48° x 67° angle of coverage to cover 28mm Nikkor lenses; *direct-reading exposure calculator* with automatic guide number readout; *built-in neckstrap provision*, and *open-flash control*.

SB-5 is available with either battery pack and accepts a complete range of Nikon Eyepiece ready-light adapters, synch cords, and other accessories.

## Nikon SB-2 and SB-3 Thyristor Flash Units



SB-2



SB-3

Two compact, shoe-mount units with energy-saving thyristor circuitry and accurate, automatic exposure control at a choice of 3 lens apertures. **Model SB-2** is equipped with Nikon F2 series hot shoe, fits Nikkormat-type hot shoe with accessory AS-2 Flash Coupler; **Model SB-3** has standard Nikkormat-type hot shoe, fits Nikon F2 hot shoe with AS-1 Flash Coupler or Nikon R10/R8 Super Zoom cameras with SC-7 Flash Cord. Key features:

### Automatic Exposure Control

Silicon-controlled rectifier (SCR) system shuts off flash when correct amount of light reaches subject; provides accurate automatic control from 24" to 20', according to aperture selected (f4, 5.6 or 8 with ASA 100 film), plus full manual override. Guide Number: 40 for ASA 25 film, 80 for ASA 100.

### Ultra-Fast Recycling

Energy-saving thyristor system recycles in under 1 second at close range. With 4 AA alkaline batteries, gives 140—1400+ flashes, according to subject distance and aperture selected. This extremely rapid recycling and large number of flashes make Nikon SB-2 and SB-3 ideally compatible with Nikon motor drive systems or Auto Winder.

### 3-Way Horizontal/Vertical Mount

Flash head adjusts over 180° for desired light path and convenient access to camera controls; in horizontal position, provides 40x56° coverage, matching field of 35mm wide-angle Nikkors; accessory SW-1 Wide Flash Adapter expands coverage for use with Nikkor 28mm or 28-45mm Zoom-Nikkor lenses. Positive locking screw prevents inadvertent removal.

### Camera Ready-Light Provision

Nikon SB-2 couples automatically to ready-light contact of Nikon F2 Photomic-series finders; if mounted off-camera, ready-light activation is obtained via Ready Light Adapter SC-4. SB-3 is equipped for use with the Eyepiece Pilot Lamp SF-1 giving eyepiece ready-light indication with all Nikon system cameras, and also provides off-camera ready-light indication with Nikon F2 and F2A Photomic finders by means of Ready Light Adapter SC-4.

Nikon SB-2 and SB-3 also feature click-stopped, direct-reading calculator dials, combined ready-light/open-flash control, and built-in flash cord outlet accepting Nikon and other parallel-blade cords. Both units supplied with synch cord SC-7 and black vinyl case SS-2.



# Nikon Electronic Flash Units

## Nikon SB-4 Compact Thyristor Flash

Single-aperture automatic providing quick, reliable operation in one of the smallest and lightest thyristor flash units—only 6.4 ounces in weight! Guide number of 52 for ASA 100 film permits automatic operation up to 13.1 feet, with full manual control also possible. Powered by two AA alkaline batteries, the SB-4 provides 140-1000 flashes with recycling times from less than 1 second to approximately 13 seconds, according to distance. Supplied with Nikkormat-type hot shoe, detachable PC cord, and case.



## Technical Data

	SB-5	SB-2	SB-3	SB-4
<b>Flash Type</b>	Thyristor Side-Mount	Thyristor Shoe-Mount (Nikon-Type)	Thyristor Shoe-Mount (Nikkormat Type)	Thyristor Shoe-Mount (Nikkormat Type)
<b>Power Source</b>	SN-2 Nicad Powerpack or SD-4 480 V Powerpack	4-AA Alkaline Batteries	4-AA Alkaline Batteries	2-AA Alkaline Batteries
<b>Approx. Number of Flashes</b>	SN-2: 75-420 SD-4: 250-4000	140-1400	140-1400	140-1000
<b>Approx. Recycling Speeds</b>	SN-2: 0.25-2.6 sec. (Auto) 0.25-2.6 sec. (Man.) SD-4: 0.25-0.5 sec. (Auto) 0.25-1.5 sec. (Man.)	Under 1 to 8 sec. (Auto) 8 sec. (Man.)	Under 1 to 8 sec. (Auto) 8 sec. (Man.)	Under 1 to 9-13 sec. (Auto.) 9-13 sec. (Man.)
<b>Automatic Distance Range</b>	24"-26.2' at max. aperture 24"-18.4' at med. aperture 24"-13.1' at min. aperture	24"-20' at max. aperture 24"-15' at med. aperture 24"-10' at min. aperture	24"-20' at max. aperture 24"-15' at med. aperture 24"-10' at min. aperture	24"-13.1
<b>Automatic Aperture Options (ASA 100)</b>	f4, f5.6, f8	f4, f5.6, f8	f4, f5.6, f8	f4
<b>Guide Numbers</b>	ASA 100: 105, 52, 36 ASA 25: 52, 26, 18	ASA 100: 80 ASA 25: 40	ASA 100: 80 ASA 25: 40	ASA 100: 52 ASA 25: 26
<b>Angle of Illumination (H/V)</b>	67°x48° (covers 28mm lens)	56°x40° (covers 35mm lens)	56°x40° (covers 35mm lens)	56°x40° (covers 35mm lens)
<b>Duration (Manual)</b>	1/1000th, 1/3000th, 1/6500th sec.	1/1200th sec.	1/1200th sec.	1/800th sec.
<b>Dimensions</b>	3.7x4.9x9.9"	1.6x4.1x4.3"	1.6x4.1x4.3"	1.6x2.8x3.0"
<b>Weights (Less Batteries)</b>	42.7 oz. incl. bracket, cord	15.1 oz.	14.1 oz.	6.4 oz.
<b>Supplied With</b>	bracket, synch cord SC-5	synch cord SC-7 case	synch cord SC-7 case	synch cord SC-8, case
<b>Other Features</b>	Adjustable manual control at full and 1/4-power and MD			
<b>Product No.</b>	W/SN-2: 301 W/SD-4: 302	298	299	300

Note: For information on Nikon Ringlight Units, refer to *Nikon Close-up, Macro & Micro Accessories* section.

All specifications subject to change without notice.



# Nikon Flash Accessories

The following accessories are exclusively for the Nikon SB-5 thyristor flash:



## Sensor SU-1

Attaches to SB-5 flash or accessory cord SC-9. Product No. 306.

## Extension Cord SC-9

3.3' coiled PC cord connects SU-1 to Nikon F2 hot shoe, with eyepiece ready-light coupling. Product No. 307

## PC Cord SC-5

Replacement. Product No. 340.

## Nicad Powerpack SN-2

Includes NC batteries. Product No. 309.



## Quick Charger SH-2

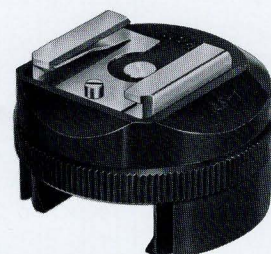
For use with SN-2 Nicad Powerpack. Product No. 310.



## Battery Pack SD-4

Requires two 240v batteries (not included). With shoulder strap, power cord. Product No. 311

For indicated Nikon flash units:



## Flash Coupler AS-1

Adapts Nikkormat-type flash to Nikon F2 hot shoes. For SB-3, 4. Product No. 362



## Flash Coupler AS-2

Adapts Nikon F2 type flash to Nikkormat hot shoes. For SB-2, 5. Product No. 363.



## Eyepiece Ready Light SF-1

For Nikon-system cameras without built-in ready-light. For SB-2, 3, 5. Product No. 329.



## Ready Light Adapter SC-4

Activates F2 finder eyepiece ready light when flash is off camera. For SB-2, 3, and 5. Product No. 320.

## AC Adapter SA-2

For SB-2, 3. Product No. 346.



# Nikon Flash Accessories

## Synch Cord SC-6

3.3' coiled PC cord. For SB-2, 3, and 5. Product No. 341

## Synch Cord SC-7

Replacement PC cord. For SB-2, 3. Product No. 347

## Synch Cord SC-8

Replacement PC cord. For SB-4. Product No. 348.

## Heavy Duty Coiled Cord

Extends to 6' with Nikon screw-on PC fitting and standard 2-blade plug. Product No. 381

## Wide Flash Adapter SW-1

Covers field of Nikkor 28mm lenses.  
For SB-2, 3. Product No. 345.



## Soft Case SS-2

Replacement. For SB-2, 3. Product No. 350.



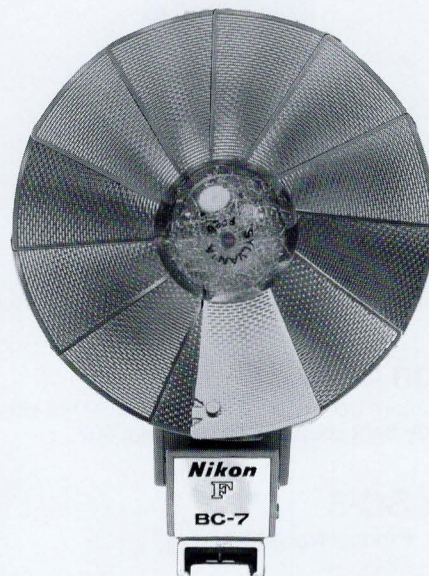
## Soft Case SS-3

Replacement. For SB-4. Product No. 351

## Battery Holder

Replacement for SB-2, 3. Product No. 349.

## Nikon BC-7 Flash Unit and Accesories



Ultra-compact folding flash accepts AG-1, M3, or 6/26 flash bulbs. Reflector tilts to clickstopped 30, 60, 90, and 120° bounce positions. Direct-reading calculator dial. Requires one 15v battery (Eveready #504 or equivalent, not included). Attaches directly to hot shoe of Nikon F2 cameras; may be used with other hot-shoe Nikon-system cameras with accessory Flash Coupler AS-2 (Product No. 363). Nikon BC-7 Flash Unit with case, Product No. 357

## 8" Synch Cord BD-1

Tough molded 8" cord for using BC-7 in shoe or separate bracket. With Nikon screw-on PC fitting. Product No. 338.

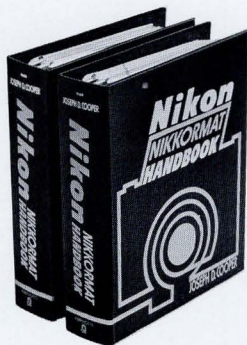
## 40" Synch Cord BD-2

40" molded cord for off-camera flash with BC-7. Nikon screw-on PC fitting. Product No. 339.

All specifications subject to change without notice.

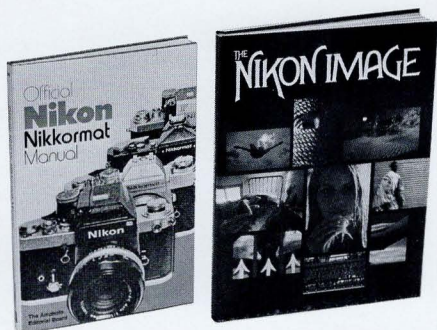


# Nikon Publications and General Accessories



## Nikon/Nikkormat Handbook

A complete guide to the entire Nikon system of 35mm photography. Comprehensive information on latest and previous Nikon, Nikkormat, and Nikonos cameras, lenses, and accessories. Actually consists of a series of books within a book, each covering specific aspects of Nikon photography including selection and use of lenses; perspective & composition; exposure; artificial light and flash techniques, close-ups and copying, motor-drive and remote-control systems; astrophotography and photomicrography; underwater photography; filters, special effects even an introduction to darkroom work! Includes over 1000 illustrations, many in color, plus hundreds of charts and tables. Latest 2-volume edition, in convenient loose-leaf format for ready update with optional periodic supplements. An indispensable aid to photographic achievement with the Nikon System. Product No. 2029.



## Nikon/Nikkormat Guide

Compact manual details camera/ accessory operation in simplified form. 160 pages, many charts, illustrations. Hard cover. Product No. 2030.

## Nikon Image Book

Beautiful 144 page book with full-color reproductions of outstanding photography by 17 prominent Nikon photographers. Newly revised, includes complete technical data on each photograph. Hard-cover, 8 3/4" x 12" A valuable addition to any library. Product No. 2035.



## Panorama Head AP-2

Mounts between tripod and camera for accurately-spaced, panoramic pictures up to 360°. Calibrated for Nikkor 28mm, 35mm, 50mm, 85mm, and 105mm lenses; may also be used with other lenses. Built-in spirit level insures correct camera alignment. Product No. 2028.



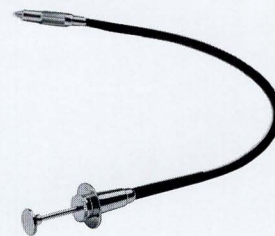
## Pistol Grip 2

Large, contoured grip gives steady hold on Nikon or Nikkormat camera. Has trigger release for use with connecting cable release or special cord for MD-2, MD-3, MD-11 and Nikon F motors. Particularly useful with extra-long lenses. Product No. 45. Cable Release for Grip. Product No. 46; coiled motor drive cord, Product No. 28.



## 36-Exposure Film Cassette AM-1

Durable 2-piece metal construction with separate inner and outer sections plus take-up spool. Unique design causes cassette to open when in Nikon F2 camera to permit smooth film transport and rewind at high speeds without danger of abrasions. Recommended for use with Nikon motor-drive systems. Product No. 2081.



## Cable Release AR-3.

Vinyl-clad 12" release for Nikon FM, EL2, and all Nikkormat cameras. Product No. 664. A similar release, Model AR-2, incorporates a lock for Time exposures, and operates with all Nikon F2 cameras as well as all other Nikon system models; Product No. 660.



## Soft Shutter-Release Button AR-1

Raises height of release button approximately 10mm. Extra height and oversize top surface facilitate smooth shutter release. Particularly useful when wearing gloves. Product No. 661



## Body Cap

For all Nikon and Nikkormat cameras; protects camera interior from dust and damage when lens is removed. Product No. 587



## F/C Lensmount Adapter

Permits use of all Nikkor SLR lenses on 16mm or TV cameras with "C" mount. Permits focusing throughout full range of lens; accepts intermediate accessories such as Nikon Extension Rings or Bellows Units. Product No. 2360.