



*At the heart of the image*

SLR CAMERA

**F6**



**WARNING** TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.



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Nikon's new top-of-the-line F-SLR, the F6, signifies the depth and breadth of our vision for truly high-quality photography. The F6 has been refined to a degree other manufacturers will be hard-pressed to match. Mechanical innovations offer greatly enhanced stability and durability, and enable quieter operation than ever. Advanced electronic improvements deliver extremely high-speed, high-quality performance. The F6 also follows Nikon's long-standing tradition for extensive system compatibility. And the ergonomics — the carefully sculpted exterior design, the button and dial design and layout — make the F6 incredibly attractive while significantly increasing operational intuitiveness and comfort. Every attribute of the camera has been examined, evaluated and polished to provide experienced photographers with a film SLR of amazing precision and remarkable durability. Nikon's F6 affords a pure, gratifying photographic experience comparable to no other.



1959



1971



1980



1988



1996

# The Ultimate in Film SLR Evolution.

# Extraordinary Precision



**HUSHED INTEGRITY** — The influence of state-of-the-art mechanics is evident in the highly refined sound of the F6 in action.



Shutter Monitor

## High-precision shutter unit

No shutter unit in any other camera comes close to matching the precision of the F6's assembly. Created from cutting-edge materials — DuPont™ KEVLAR® and a special aluminum alloy — the blades of the shutter unit offer unparalleled reliability and are extremely lightweight, for lightning-quick movement. For enhanced accuracy, during shutter unit development, the movement of the blades is carefully analyzed using a high-speed video camera and computer simulations, enabling unprecedented precision even at shutter speeds of up to 1/8,000 second. Shutter accuracy is maintained by the Shutter Monitor, which scrutinizes every single shutter release. Should the shutter speed vary even slightly from the calibrated speed, the camera automatically compensates to maintain accurate exposure. The ultimate in precision and reliability, under even the most demanding conditions.

## High-speed mirror balancing

A sophisticated mirror balance mechanism reduces the time required to lower the mirror. The F6's Mirror Balancer, in addition to

minimizing mirror bounce, extends viewing time, allowing more time for AF operation — this is one reason the F6 can offer autofocus and Focus Tracking at motor speeds of up to 8fps, shot after wonderful shot. In conjunction with the bright, easy-to-view 0.74x viewfinder, the Mirror Balancer provides distinct advantages that give you sharper views whenever and wherever the moment happens to occur.

## Minimized operational sound and vibration

In order to subdue the operational sounds, Nikon engineers used a professional audio room to properly measure their frequencies. The degree to which every part of the camera would be subjected was measured. The implementation of floating-type designs for the shutter unit, aperture control mechanics and shutter charge motor have significantly suppressed internal vibrations. This approach has resulted in virtually noise-free movement, diminished to levels unheard of with other SLR cameras. The F6 has been refined for absolute minimum vibration, to levels below detection by the human ear.

## Highly efficient mechanics

The development of the F6 marks the first time 3D computer movement analysis has ever been applied to an SLR. This technique reveals the degree of power distributed to or generated by particular components in specific directions. This made it possible for us to optimize the mechanical operation of the camera with fewer parts, leading to lower power consumption and higher durability.



Rear chassis — film rewind and shutter charge mechanism

# Supreme Sensitivity



**VISUAL BRILLIANCE** — The 0.74x viewfinder portrays radiant colors in every hue imaginable, and the F6's superior electronics do the rest.

## Autofocus



AF sensors for 11-area wide autofocus system

### 11-Area High-Speed Autofocus System

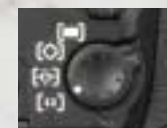
Featuring eleven AF sensors — including nine cross-type sensors which cover the greater part of the viewing area — the Multi-CAM2000 AF sensor module responds quickly and delivers razor-sharp focus even in the most challenging situations. The cross-type sensors function with all AF Nikkor lenses with a maximum aperture of f/5.6 or faster, and enable enhanced small or low-contrast subject detection. Furthermore, large sensors help make possible smooth, swift AF operation with markedly wider defocus detection capability.

### Dynamic AF Operation

Even when shooting a moving subject, the F6's Dynamic AF ensures highly precise focusing, by shifting rapidly to the focus area to which the subject has moved.

In Dynamic AF mode, one of three available modes, you can assign top priority to the most suitable focus area for your composition. Engage Closest-Subject-Priority Dynamic AF mode to have the F6 select the appropriate area for you. And for optimum results when attempting to capture a moving subject, use Group Dynamic AF mode. Select several adjacent focus areas (center, top, bottom, left, right), and the camera automatically focuses on the center focus area of the selected areas.

AF Area Mode selector



## Exposure Metering

### 3D Color Matrix Metering

The F6's 3D Color Matrix Metering offers enhanced precision thanks largely to an improved scene-detecting algorithm. It analyzes numerous aspects of the scene conditions — including brightness, contrast, selected focus area, subject-to-camera distance and color — and compares them to the reference information of more than 30,000 actual scenes in the database, ensuring super-precise exposure control and faithfully preserving the ambience of the scene.



RGB Sensor for exposure metering

### Flexible Center-Weighted and Spot Metering

Nikon's own Flexible Center-Weighted Metering provides you with the option of selecting the size of the sensing area from Custom Settings. And Spot Metering changes to correspond with the focus area you've selected.

## Flash Control

### i-TTL Balanced Fill-Flash

The F6 supports the i-TTL Flash Control system, providing outstanding results and myriad creative possibilities. Nikon's Creative Lighting System, the most advanced flash control system anywhere, uses a new algorithm and a brighter, shorter Monitor Pre-flash to lift the precision of i-TTL Balanced Fill-Flash even beyond that of Nikon's acclaimed 3D Multi-Sensor Balanced Fill-Flash systems. Furthermore, the Creative Lighting System allows you to employ advanced flash techniques including Advanced Wireless Lighting and FV (Flash Value) Lock.



TTL Multi Sensor for i-TTL flash control





**ENDURE ALL ELEMENTS** — The strength to weather nature's most rugged conditions.

# Remarkable Reliability



*Actual photo from dust resistance testing*

## Harsh environmental testing

To ensure the high level of durability you expect from a Nikon F series SLR, the F6 has been subjected to rigorous testing. Even the lubricants applied to gear parts are carefully tested to assure peak performance in extreme temperatures and high humidity. The F6's astonishing reliability is a

function of Nikon's "right material for the right place" approach. Our engineers considered countless situations of potential camera use, then submitted the F6 to real-life testing to ensure exceptional dependability wherever and whenever you shoot.

## Camera ergonomics

In our quest for new levels of ergonomic achievement, we've left no part of the camera's exterior ignored. The first time you handle the F6, you're seduced by the strikingly comfortable, ergonomic design. Every curve, every undulation has been accomplished through advanced computer-aided design. But that's just the tip of the iceberg. Nikon spent unprecedented amounts of time sculpting the contours of the grip, to ensure greater comfort and balance in the hand even during extended use. The button and dial design and layout are every bit as intelligent as they are attractive.

## Unrivaled durability

Imagine, as a photographer, the places or conditions in which you are most concerned about the toughness of your photographic tools. Now look at the F6 — an aluminum-alloy die-cast chassis; magnesium-alloy front

body and covers (top, bottom); strategically placed rubber surfaces; an easy-to-grip texture, and a shutter that has undergone testing to assure accurate release up to and beyond 150,000 cycles. The F6 features the strength, rigidity and durability to perform whenever you need it. Put it to the test and see for yourself.

## Multiple power sources

The F6's standard power source, two CR123A 3V lithium batteries, enables high-speed film advance at 5.5 fps. Or you can go with the optional, multifaceted Multi-Power High Speed Battery Pack MB-40 that offers



*Multi-Power High Speed Battery Pack MB-40*



up to 8 fps film advance.

It requires either eight AA-size batteries or the outstanding Rechargeable Li-ion Battery EN-EL4 (also compatible with the D2 series). The MB-40 offers outstanding vertical shooting operation, as it incorporates a shutter release button, AF Start button, Multi-selector and Command Dials.



*Rechargeable Li-ion Battery EN-EL4*



*Quick Charger MH-21*



# Formidable Flexibility

## Exposure modes

Programmed Auto (P) mode offers automatic shutter speed and aperture settings. In Flexible Program, rotate the Main-Command Dial to choose settings other than those automatically selected. Shutter-Priority Auto (S) lets you manually set shutter speeds ranging from 1/8,000 to 30 seconds. In Aperture-Priority Auto (A), you can choose from available apertures in 1/3 EV steps. For complete control over exposure settings, select Manual (M) mode.



up to 5.5 fps (or 8 fps with optional Multi-Power High Speed Battery Pack MB-40), and Continuous Silent (CS) for nearly silent operation at approximately 1 fps.



## Data back functions

Access built-in data back functions easily via the rear LCD panel and Multi Selector. Functions include data imprint (in-frame or between-frame), Multiple exposure and Interval timer. You also have control over 41 Custom Settings. The recorded data of each shot can be downloaded to your computer as text data via optional Data Reader MV-1, which is equipped with a CF (CompactFlash™) card.



Exposure data display (rear LCD)

## Exposure compensation/AE Bracketing

Control exposure compensation manually from +5 EV to -5 EV in 1/3 EV steps. Automatic Bracketing allows you to shoot the same scene two to seven times at exposure values differing in increments of 1/3, 1/2, 2/3, or 1 EV.

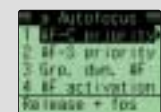
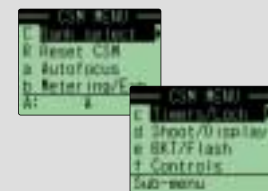
## Film advance modes

Four modes are available: Single (S), Continuous Low-Speed (CL) for up to approximately 2 frames per second (fps), Continuous High-Speed (CH) for



## Custom Settings

### Custom Setting Menu



Custom Setting options (Autofocus)

You can personalize your F6 exactly as you wish. Any of the 41 Custom Settings (in six groups) can be easily selected and adjusted, as they are clearly displayed on the rear LCD panel.

### C: Bank select

Groups of custom settings are stored in four banks (A, B, C and D)

### R: Reset CSM

Select one of the banks above to reset all of its Custom Settings to the factory values.

### a: Autofocus

- a1: AF-C priority operation
- a2: AF-S priority operation
- a3: Group dynamic AF operation
- a4: AF Activation
- a5: Focus area illumination
- a6: Focus area selection
- a7: Vertical AF start button
- a8: M/A mode

### b: Metering/Exposure

- b1: EV step for shutter speed/aperture
- b2: EV step for exposure compensation
- b3: Exposure compensation by Command Dial only
- b4: Diameter of Center-Weighted metering area
- b5: Extended shutter speed in M mode

- b6: Compensation for focusing screen

### c: Timer/Lock

- c1: AE lock operation
- c2: AE-L/AF-L operation
- c3: AF-ON/AE-L button operation
- c4: Auto meter-off duration
- c5: Self-timer duration

### d: Shoot/Display

- d1: Film loading operation
- d2: Film rewind operation
- d3: Film leader status after rewind
- d4: Last frame number for auto rewind
- d5: Film advance speed (fps) for CH mode with MB-40
- d6: DX warning
- d7: Rear LCD panel information

- d8: Imprint density
- d9: MB-40 battery indication

### e: Bracketing/Flash

- e1: Top flash sync speed setting
- e2: Slowest flash sync speed setting
- e3: AA flash mode
- e4: Modeling flash activation by depth-of-field preview button

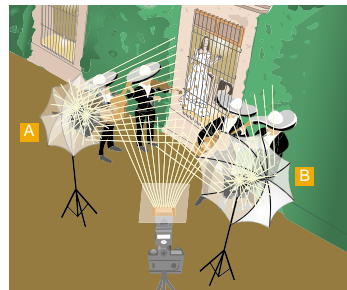
- e5: AE/Flash bracketing
- e6: Exposure bracketing in M mode
- e7: Bracketing order
- e8: Bracketing setting operation

### f: Controls

- f1: Center click of Multi-selector
- f2: AE meter/AF activation by Multi-selector

- f3: FUNC button assignment
- f4: Command Dials' function
- f5: Button press-and-release operation

# Extra Lighting



The master SB-800 attached to the F6 is fitted with an orange color filter for frontal illumination. Each of Group A's two SB-800s has a Diffusion Dome SW-10H attached, and provides illumination for the woman on the balcony, while Group B's two SB-800s are each fitted with an orange color filter for illumination of the mariachis to the right.

## Nikon Creative Lighting System

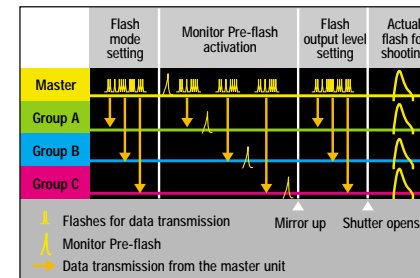
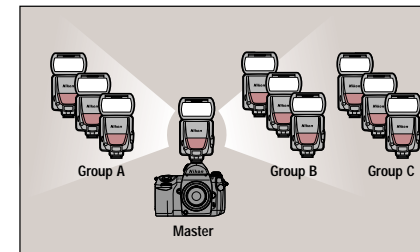
The Nikon F6, when used with equipment compatible with Nikon's Creative Lighting System, supports a full range of the most advanced flash capabilities including i-TTL flash control. The system elevates Nikon's flash control capabilities to unprecedented heights of precision and performance.

## Advanced Wireless Lighting

Wireless multiple flash can be performed just as easily as with an on-camera Speedlight, affording you the freedom to explore the limitless creative potential of the system. You can also enjoy comprehensive control over scene

lighting when using Nikon's i-TTL Speedlights SB-800/SB-600/SB-R200 as they can be separated into as many as four groups (the master\* and three i-TTL Speedlight groups). Control independent flash mode settings and adjustment of compensation values for each group's flash output level via the master. To pre-check a scene for illumination and shadows, there's the Modeling Flash function. And each group can comprise as many Speedlights as you want, virtually putting you in total command of background lighting.

\*SU-800 can be used as a master to trigger remote unit. SB-600 or SB-R200 cannot be used as a master unit.



## Advanced Wireless Lighting procedure

Flash mode and other types of information are transmitted from the master unit in the form of a series of low-level flashes to each remote unit. In TTL mode, the camera's RGB metering sensor detects Monitor Pre-flashes to determine each flash unit's flash output level.

## Modeling Flash

This is useful for checking illumination levels and the shadows cast on the subject before actually taking the picture. The flash can fire up to approximately 3 seconds while the button is pressed.

## Flash Value Lock (FV Lock)

Flash Value represents the degree of flash exposure for a given subject. Engaging FV Lock maintains the desired flash exposure during zooming or recomposition, allowing you to concentrate on the scene's lighting.

## Auto FP High-Speed Sync

Enables fill-flash photography even in bright conditions at wide apertures with shallow depth of field unhindered by the standard 1/250 second flash sync. Once the mode is activated, the F6's rapid flash synchronization makes available shutter speeds faster than the camera's flash sync speed.

## Wide-Area AF-Assist Illuminator

Wide-Area AF-Assist Illuminator can be used with all 11 focus areas to provide autofocus capability in dim lighting — even when you change the focus area.

## Distance-Priority Manual Flash (SB-800 only)

In this mode, the SB-800 automatically controls light output according to the distance value and set aperture. This means that even when shooting at different apertures, you can take pictures having the same exposure.

## Close-up Speedlight Commander Kit R1C1

This newly developed Speedlight system is fully compatible with Nikon's Creative Lighting System and enables easy and versatile close-up flash and wireless multiple-flash shooting. The R1C1 comes equipped with SU-800, two SB-R200s, and a variety of accessories.



## Powerful, Intelligent, Complete

Serves as Master, Commander or Remote Unit in Advanced Wireless Lighting

Guide number (ISO 100, m): 38 (with zoom head set at 35mm)  
 Dimensions (W x H x D): Approx. 70.5 x 129.5 x 93.0mm  
 Weight (without batteries): Approx. 350g



## Practical, Intelligent, Indispensable

Serves as Remote Unit in Advanced Wireless Lighting

Guide number (ISO 100, m): 30 (with zoom head set at 35mm)  
 Dimensions (W x H x D): Approx. 75.5 x 125.0 x 88.4mm  
 Weight (without batteries): Approx. 300g

## Wireless Speedlight Commander SU-800\*

For easy command of wireless remote Speedlight operation.

## Wireless Remote Speedlight SB-R200\*

Flexible, dependable flash control. Can be handheld, clamped on a stand or attached to the lens using the SX-1. The lighting angle can be adjusted by tilting the flash head.

## Attachment Ring SX-1

Allows quick-and-easy attachment/detachment of SB-R200 Speedlights to the lens.



\* These products can be purchased separately.

# The Optics



## Nikon F-mount

Nikon's legendary lens mount compatibility allows you to use any Nikkor lens in the incredibly deep, varied lineup. Even with older non-CPU lenses, Color Matrix Metering can still be performed after programming the lens' focal length and maximum aperture in the camera's memory. The F6 can store this data for as many as ten non-CPU lenses at a time.

## Nikon's exclusive lens technologies

Nikon Super Integrated Coating (SIC) delivers fabulous contrast and color rendition. Chromatic aberration is minimized by Extra-low Dispersion (ED) and new Super ED glass elements. Nikon's own Close-Range Correction (CRC) offers superb quality throughout the zoom range. The Silent Wave Motor (SWM) greatly enhances precision and reduces noise in AF operation. And Vibration Reduction (VR) compensates for image blur caused by camera shake.



## AF Zoom-Nikkor Lenses



## AF Single-Focal-Length Nikkor Lenses



## Lens Compatibility Chart (DX and IX-Nikkor lenses cannot be used.)

Lens	Focusing		Exposure mode				Metering system		
	AF	Electronic Range-finder <sup>1</sup>	P mode	S mode	A mode	M mode	Color Matrix	Center-Weighted	Spot
AF-S & D-G-type AF Nikkors <sup>2</sup>	✓	✓	✓	✓	✓	✓	✓ <sup>3</sup>	✓	✓
AF-S & AF-I Teleconverters <sup>4</sup>	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓ <sup>3</sup>	✓	✓
Non-D-type AF Nikkors	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	✓	✓	✓	✓	✓
AI-P-type Nikkors	—	✓	✓	✓	✓	✓	✓	✓	✓
AI-type Nikkors	—	✓	—	—	✓	✓	✓ <sup>6</sup>	✓	✓ <sup>7</sup>
Reflex-Nikkors	—	—	—	—	✓	✓	—	✓ <sup>8</sup>	✓ <sup>7, 8</sup>
PC-Nikkor	—	✓	—	—	✓ <sup>9</sup>	✓ <sup>10</sup>	✓ <sup>6</sup>	✓	✓ <sup>7</sup>
D-type PC-Nikkor <sup>11</sup>	—	✓ <sup>12</sup>	—	—	—	✓	✓ <sup>3</sup>	✓	✓
AI-type Teleconverters	—	✓	—	—	✓	✓	✓ <sup>6</sup>	✓	✓ <sup>7</sup>
Bellows Focusing Attachment PB-6 <sup>13</sup>	—	✓	—	—	✓ <sup>14</sup>	✓ <sup>15</sup>	✓ <sup>6, 16</sup>	✓ <sup>16</sup>	✓ <sup>7, 16</sup>

✓ Compatible — Incompatible

1 With maximum effective aperture of f/5.6 or faster.

2 G-type Nikkor has no aperture ring. Aperture should be selected from camera body.

3 3D Color Matrix Metering is selected. Compatible with AF-S and AF-I Nikkor lenses except AF-S 17-35mm f/2.8D IF-ED, AF-S 24-85mm f/3.5-4.5G IF-ED, AF-S VR 24-120mm

4 When AF 80-200mm f/2.8 is used in a telephoto zoom position at close range, the image on the clear matte

field may not coincide with the focus indication. In this case, focus manually using clear matte field.

6 With focal length and maximum aperture registered in "setting lens data".

7 Exposure metering area is locked to the center focus area.

8 Go to "b6: Screen Comp." in Custom Settings and adjust the compensation value as indicated on the supplied "Focusing Screen Selector Chart".

9 By stop-down metering. Exposure is determined by pre-setting lens aperture. Exposure must also be determined before shifting; use AE/AF-L button before shifting.

10 By stop-down metering. Exposure is determined by pre-setting lens aperture. Exposure must also be determined before shifting.

11 The camera's exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture.

12 Without shifting and/or tilting the lens.

13 Auto Extension Ring PK-11A, 12 or 13 is necessary.

14 By stop-down metering. Exposure is determined by stopping-down aperture on the bellows. Exposure must also be determined before shooting.

15 By stop-down metering.

16 Go to "b6: Screen Comp." in Custom Settings and select "+0.5".

## Manual Nikkor Lenses





# The System

## Viewfinder Accessories

### Interchangeable Focusing Screens

A wide choice of high-quality ground glass screens ideal for manual focusing or compositional aides, without influencing autofocus performance. There are seven types available (B, U, E, M, J, A, and L).

### Eyepiece Correction Lenses DK-17C

Five optional eyepiece correction lenses allow you to adjust the diopter beyond its standard range of -2 to +2m<sup>1</sup>.

### Rubber Eyecup DK-19

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

### Antifog Finder Eyepiece DK-17A

Features a special surface coating to reduce fogging on the eyepiece.

### Right-Angle Viewing Attachment DR-5

Provides an upright, frontward-facing image with right-angle viewing. Select a reproduction ratio of 1:1 or 2:1.

### Eyepiece Magnifier DG-2

Provides 2x magnification of the central portion of the viewfinder image. Requires optional Eyepiece Adapter DK-18 for attachment to the F6.

### Magnifying Eyepiece DK-17M

Magnifies the finder image approximately 1.2 times. Widens the diopter adjustment range for both the + and - sides.

## Close-up Accessories

### Auto Extension Rings PK-12/13

Slides on and off your camera in seconds for a wide range of reproduction ratios.

\* G-type lenses cannot be used.

### Bellows Attachment PB-6

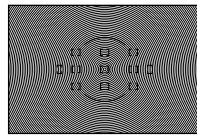
Mounts between body and lens for close-up and macro photography. Optional accessories include PB-6E Extension Bellows, PB-6M Macro Copy Stand and PS-6 Slide Copying Adapter.

### Bellows Spacer PB-6D

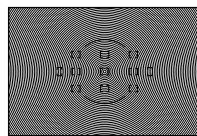
Enables you to move the camera on the PB-6 rail without interference. Also allows horizontal/vertical changeover anywhere along the rail.

### Macro Adapter Ring BR-2A

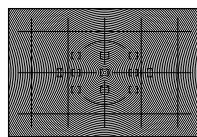
Enables lenses to be mounted in reverse



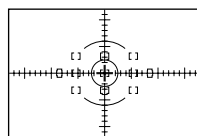
**Type B:** This standard screen offers unobstructed viewing and easy focusing on its overall matte surfaces.



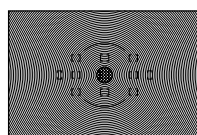
**Type U:** For lenses with focal lengths longer than 200mm.



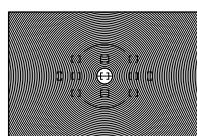
**Type E:** Grid lines for accurate picture composition of architectural subjects.



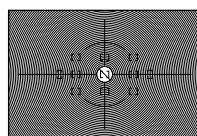
**Type M:** This shows cross hair and millimeter scales. Ideal for high-magnification close-ups and astrophotography.



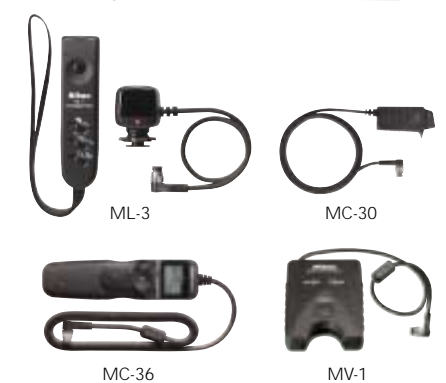
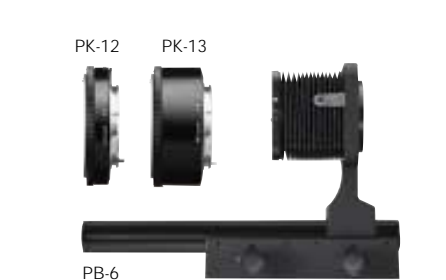
**Type J:** Equipped with a microprism for use with manual focusing.



**Type A:** Features a matte Fresnel field with split-image rangefinder and microprism collar.



**Type L:** Same as Type A but with split-image rangefinder line at a 45° angle.



for a relatively high reproduction ratio.

### Focusing Stage PG-2

Simplifies close-up focusing when using a tripod-mounted camera.

## Remote control accessories

### Modulite Remote Control Set ML-3

Enables fully automatic camera operation from a distance of up to 8 meters (26 ft.) via an infrared beam. There are two channels available.

### Remote Cord MC-36 (0.85m/2.8 ft.)

Enables remote firing of a camera, setting of Interval Timer and Long Time Exposure. Features illuminated LCD panel.

### Remote Cord MC-30 (0.8m/2.6 ft.)

Enables remote firing with a trigger-lock function.

### Remote Cord MC-22 (1m/3.3 ft.)

Useful for connection to shutter triggering device.

### Extension Cord MC-21 (3m/9.8 ft.)

Available for 10-pin remote accessories.

### Connecting Cord MC-23 (0.4m/1.3 ft.)

Connects two F6 cameras for simultaneous shutter release.

## Data Communication Accessories

### Data Reader MV-1

Transfers shooting data stored in the F6 to a CompactFlash™ card. Data then can be transferred from the memory card to your personal computer in the text (.txt) file format. Compatible with both Windows and Mac operating systems.

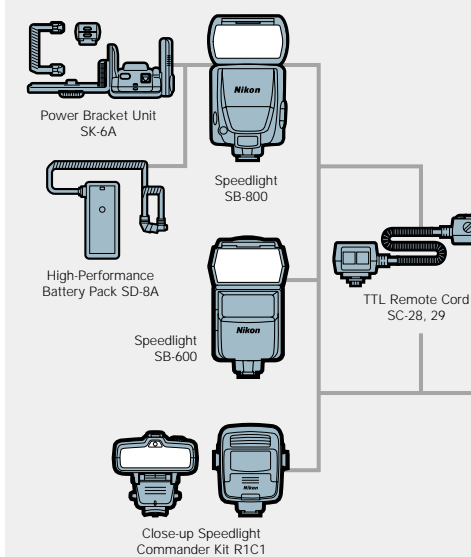
## Nikon Film Scanners

### SUPER COOLSCAN 5000 ED/ COOLSCAN V ED

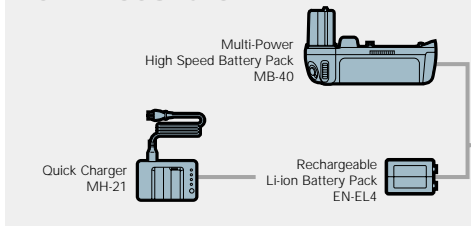
These scanners enable high-quality scanning with a true optical resolution of 4,000 dpi, delivering exceptionally sharp digital images. The award-winning 5000 ED offers unmatched scanning speeds of 20 seconds per image — there's no more efficient way to create an archive of shots you've captured with your F6.



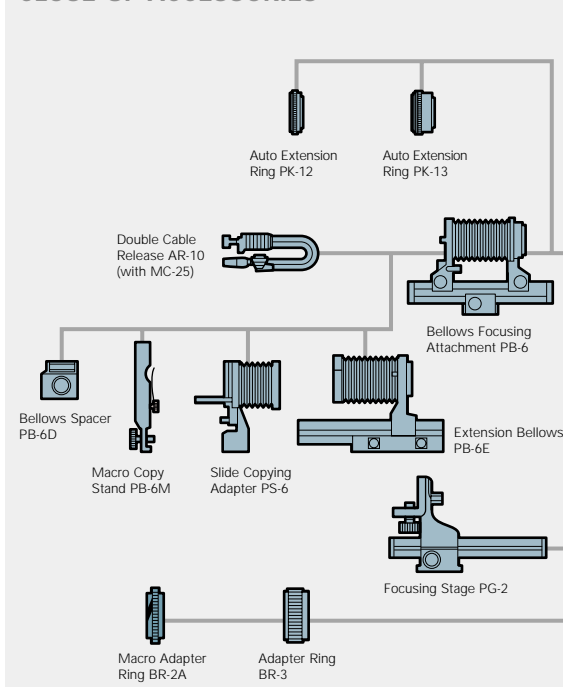
## SPEEDLIGHTS



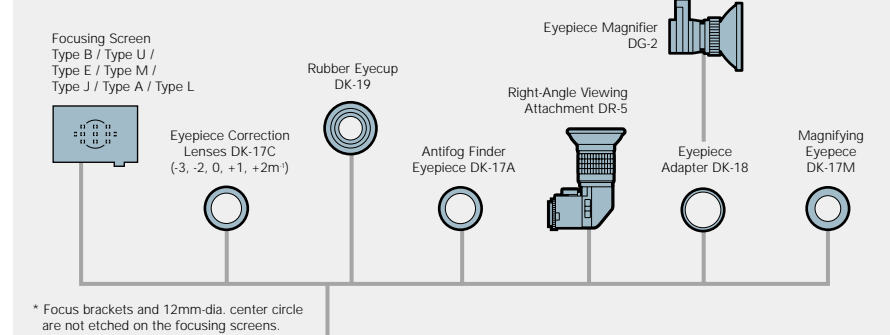
## POWER SOURCES



## CLOSE-UP ACCESSORIES

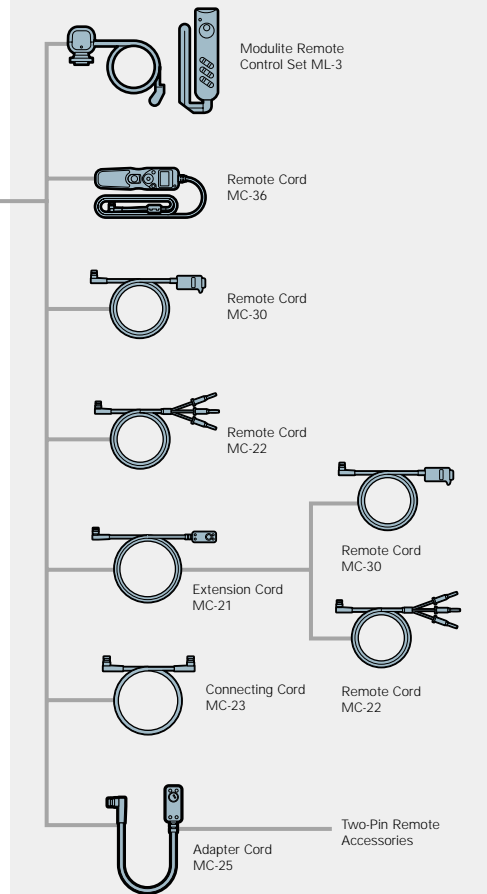


## FINDER ACCESSORIES



\* Focus brackets and 12mm-dia. center circle are not etched on the focusing screens.

## REMOTE CONTROL ACCESSORIES



## DATA COMMUNICATION ACCESSORIES

## CASE/STRAPS



