From the world’s finest cameras and lenses to an immense range of specialized equipment and accessories, Nikon boasts the world’s most comprehensive photography system. This brochure covers the most important Nikon photographic accessories — tools that work seamlessly with your Nikon camera for optimum performance.

Each accessory delivers the same exacting standard of quality that has made Nikon synonymous with professional photography. Nikon accessories are designed to withstand the most demanding photographic conditions imaginable to assure a lifetime of excellent service for everyone from beginners to professionals.
The right lighting is crucial to photography. That's why the Nikon Creative Lighting System provides superior performance and a near-limitless amount of illumination options. When cameras like the Nikon F6, D2 series, D200, D70 series or D50 are partnered with equipment that is compatible with the Creative Lighting System (i.e. Speedlights SB-800/SB-600/SB-R200 and Wireless Speedlight Commander SU-800), a new level of flash performance and potential is possible. Along with i-TTL Flash Control, an evolution of the highly regarded D-TTL system, features like Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Wide-Area AF-Assist Illuminator and Flash Color Information Communication (for digital SLRs) help make the Nikon Creative Lighting System the best there is. And thanks to Advanced Wireless Lighting, you have up to four separate i-TTL Speedlight groups at your disposal. The possibilities are endless, so let your ideas truly shine.

Advanced Wireless Lighting

Thanks to Nikon's Creative Lighting System, Advanced Wireless Lighting (also called "wireless multiple flash") is as easy to use as an on-camera Speedlight, enabling professionals and advanced amateurs alike to freely test the seemingly limitless creative potential of the system. You can separate i-TTL Speedlights into four groups (comprised of the master* and three remote i-TTL Speedlight groups), for comprehensive control over scene lighting. The master allows you to control independent flash mode settings (i.e., TTL, Auto Exposure (Non-TTL Auto), Manual, Repeating and Flash Cancel) and adjust flash output level compensation values for each group. With no limit to the number of Speedlights contained in each group, Advanced Wireless Lighting offers virtually absolute control over background illumination.

*Wireless Speedlight Commander SU-800 can be used as a master to trigger remote units. SB-600 cannot be used as a master unit.

Advanced Wireless Lighting Benefits

The ability to adjust the flash output level of every flash unit from the camera gives you the freedom to experiment with a variety of settings much faster and more simply than with conventional systems. For convenience in pre-shooting lighting confirmation, use the Modeling flash function.

Distance-Priority Manual Flash (SB-800 only)

In this mode, the SB-800 automatically controls the light output according to distance and set aperture. Enter the shooting distance value and you can take pictures with the same exposure – even when shooting at different apertures. This mode allows you to make exposure compensation by varying the flash output level compensation value.

Modeling Flash

Press the Modeling Flash button and the flash will fire repeatedly at a reduced output level. 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.
See where Advanced Wireless Lighting can take you

The following examples show how to create dramatic effects with Advanced Wireless Lighting. From simple wireless lighting with one remote Speedlight to more artistic lighting using four Speedlight groups, these examples will guide you to a new dimension of enjoyment in flash photography.

**Emphasize spatial effects through shadows**

**Create atmospherics through indirect lighting**

**Utilize available indoor lighting**

**Emphasize perspective through multiple speedlights**

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**Equipment:**
- Nikon D2x and two SB-800s

**Setting:**
- The Speedlight SB-800 [A] is located at a distance, illuminating the subject from the right. Considering the distance to the subjects, the Speedlight is set at Manual full output to make depth of field larger with a smaller aperture. For the SB-800 [B] attached to the D2x as a master, an amber filter is used to maintain a warm atmosphere based on red. With Manual 1/2 output, the master SB-800 illuminates the whole scene by bouncing light off a white ceiling.

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**Equipment:**
- Nikon D2x and two SB-800s

**Setting:**
- The remote Speedlight SB-800 [A] is located at a distance, illuminating the subject from the left-hand side in TTL mode. A reflector located at the front right-hand side of the subject prevents shadowy areas of the subject from becoming too dark.

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**Equipment:**
- Nikon D2x and two SB-800s

**Setting:**
- To illuminate the wall the subject is leaning against, Slow Sync mode is used. The Speedlight SB-800 [A] illuminates the subject from the right-hand side at Manual 1/4. The strong reflective light from the wall emphasizes its metallic surface. The Speedlight SB-800 [B] attached to the D2x as a master provides soft illumination at Manual 1/64 so that shadowy areas of the subject do not appear too dark.

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**Equipment:**
- Nikon D2x and two SB-800s

**Setting:**
- The Speedlight SB-800 [A] attached to the D2x as a master illuminates the ceiling above the subjects in TTL mode (exposure compensated at –3 EV). This light bounced off the ceiling prevents shadowy areas around the subjects from appearing too dark without diminishing the illumination from the jewel box. The remote SB-800 [B] set at TTL (exposure compensated at +0.7 EV) illuminates the window from outside. A blue filter is utilized to create the dramatic shadow of window frames.

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**Equipment:**
- Nikon D2x, three SB-800s and one SB-600

**Setting:**
- The Speedlight SB-800 [A] attached to the D2x as a master illuminates the subject from the front at Manual 1/32 output. A bounce adapter is used to cover the wideangle 12-24mm lens and soften the light. The remote SB-800 [B] illuminates the subject from above at Manual 1/4 with a wide panel set at Manual 1/8 output. The remote SB-800 [C] with bounce adapter is set at Manual 1/8 output. The latter two remote Speedlights provide light patterns on upper and lower parts of the glossy wall, respectively. The SB-600 also illuminates the floor.

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**Equipment:**
- Nikon D2x and four SB-800s

**Setting:**
- The Speedlight SB-800 attached to the D2x as a master is set to Flash Cancel mode and used solely to trigger the remote speedlights. The remote SB-800s [A] and [C] are both set at TTL (exposure compensated at –0.7 EV for [A] and –1.0 EV for [C]), so that the outline of the subjects’ faces is pronounced while highlighted areas will not appear washed out. Another remote SB-800 [B] set at TTL (exposure compensated at +0.3 EV) illuminates the window from outside.
Speedlight SB-800

A revolutionary achievement for Nikon's Creative Lighting System

The SB-800 is a high-performance Speedlight with a large guide number of 125 (ISO 100, ft.) or 174 (ISO 200, ft.) at the 35mm zoom-head position. Automatic power zoom covers 24mm to 105mm, with a built-in Wide Flash Adapter that extends the wide-angle range to 14mm or 17mm. The built-in AF-Assist Illuminator can be used with all the focus areas of each camera. For bounce-flash or closeup photography, the flash head can be rotated upwards 90°, downwards 7° below the horizontal, 180° to the left, and 90° to the right. Soft lighting can be achieved with the supplied Bounce Adapter.

Depending on the camera and lens, the SB-800 supports i-TTL, TTL, Auto Aperture (AA), non-TTL Auto and Manual flash control. Creative Lighting System features such as Advanced Wireless Lighting (including Modeling Flash), AUTO FP High Speed Sync and Flash Value Lock are made possible when used with the F6, D2-series, D200, D70-series and D50 cameras. In Distance-Priority Manual Flash mode, once you’ve entered the shooting distance value, even changing the aperture won’t alter the flash exposure.

Quick Recycling Battery Pack

The supplied Quick Recycling Battery Pack SD-800 enables installation of a fifth battery to shorten recycling time to as short as 2.9 seconds in Manual mode at full output.

Speedlight Stand AS-19

For the stable placement of the SB-800. A tripod socket is also provided.

Bounce Adapter SW-10H

By attaching the SW-10H over the flash head, you can diffuse the light during bounce flash to further soften the shadows.

Color Filters

The SB-800 Speedlight ships with two filters developed exclusively for digital cameras — one for incandescent and the other for fluorescent lighting. The optional SJ-1 Color Filter Package, which contains 8 different colored filters, is also available.

SB-800 Specifications

Electronic construction: Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
Guide number: 125 (ISO 100, ft.), 174 (ISO 200, ft.)
Angle of coverage: 24mm, 28mm, 35mm to 105mm (in 5mm zoom steps); 17mm, 24mm with built-in wide-flash adapter, 14mm with soft dome
Flash mode: i-TTL, D-TTL, TTL, (film-based cameras); Auto Aperture; Non-TTL Auto; M (Manual); FULL; 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/12, 1/15, 1/16, 1/18, 1/20, 1/25, 1/30, 1/35, 1/40, 1/50, 1/60, 1/125, 1/250, 1/500, 1/1000
Recycling time: Approx. 2.9 seconds with supplied Quick Recycling Battery Pack SD-800 (Manual at full)
Number of flashes: Approx. 125 (Manual at full)
Bounce capability: Flash head tilts down to 7°, or up to 90°; flash head rotates horizontally 180° to the left or right

SB-600 Specifications

Electronic construction: Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
Guide number: 85 (ISO 100, ft.), 138 (ISO 200, ft.)
Angle of coverage: 24mm, 28mm, 35mm to 85mm (in 5mm zoom steps); 24mm with built-in wide-flash adapter
Flash mode: TTL, D-TTL, TTL, (film-based cameras); Non-TTL Auto; M (Manual); FULL; 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/9, 1/10, 1/12, 1/15, 1/16, 1/18, 1/20, 1/25, 1/30, 1/35, 1/40, 1/50, 1/60, 1/125, 1/250, 1/500, 1/1000
Recycling time: Approx. 4.5 seconds (Manual at full)
Number of flashes: Approx. 125 (Manual at full)
Bounce capability: Flash head tilts up to 90°; flash head rotates horizontally 180° to the left or right

Color Filters

The SB-600 Speedlight supports Nikon's Creative Lighting System. Within its compact body, the SB-600 has inherited most of the creative features of the SB-800 to offer a truly impressive range of possibilities. It features a guide number of 90 (ISO 100, ft. at 35mm) and automatic power zoom coverage from 24mm to 85mm. The built-in wide flash adapter increases the angle of coverage to a range of 14mm to 85mm. A tilting/rotating flash head makes it easy to perform bounce flash shooting. Depending on the camera and lens you use with the SB-600, you can employ TTL auto flash and Manual flash control. When used with the F6, D2-series, D200, D70-series and D50 cameras, the SB-600 enables Advanced Wireless Lighting* (including Modeling Flash), Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Wide-area AF-Assist Illuminator and Flash Color Information Communication (for digital SLR).

The SB-600 is a portable, high-performance Speedlight that supports Nikon's Creative Lighting System. With its compact body, the SB-600 has inherited most of the creative features of the SB-800 to offer a truly impressive range of possibilities. It features a guide number of 90 (ISO 100, ft. at 35mm) and automatic power zoom coverage from 24mm to 85mm. The built-in wide flash adapter increases the angle of coverage to a range of 14mm to 85mm. A tilting/rotating flash head makes it easy to perform bounce flash shooting. Depending on the camera and lens you use with the SB-600, you can employ TTL auto flash and Manual flash control. When used with the F6, D2-series, D200, D70-series and D50 cameras, the SB-600 enables Advanced Wireless Lighting* (including Modeling Flash), Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Wide-area AF-Assist Illuminator and Flash Color Information Communication (for digital SLR).

The SB-600 is a portable, high-performance Speedlight that supports Nikon's Creative Lighting System. Within its compact body, the SB-600 has inherited most of the creative features of the SB-800 to offer a truly impressive range of possibilities. It features a guide number of 90 (ISO 100, ft. at 35mm) and automatic power zoom coverage from 24mm to 85mm. The built-in wide flash adapter increases the angle of coverage to a range of 14mm to 85mm. A tilting/rotating flash head makes it easy to perform bounce flash shooting. Depending on the camera and lens you use with the SB-600, you can employ TTL auto flash and Manual flash control. When used with the F6, D2-series, D200, D70-series and D50 cameras, the SB-600 enables Advanced Wireless Lighting* (including Modeling Flash), Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Wide-area AF-Assist Illuminator and Flash Color Information Communication (for digital SLR).

Specifications apply when fresh LR6 (AA-size alkaline) batteries are used at normal temperature (68°F); AF-Assist Illuminator, zoom flash or LCD illuminator is not used.

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The newly developed Nikon Wireless Speedlight system is compatible with the Creative Lighting System and easily enables versatile close-up flash and wireless multiple-flash shooting.

The main components of the system are the Wireless Speedlight Commander SU-800, Wireless Remote Speedlight SB-R200, and Attachment Ring SX-1. Wireless close-up flash shooting is made easy by using the SU-800 as a commander to control up to three i-TTL Speedlight groups. What’s more, Creative Lighting System features such as AUTO FP High Speed Sync, FV Lock and Modelling Flash are available with the system, and a variety of accessories are available to enhance the enjoyment of flash photography.

The system is available as the Close-up Speedlight Commander Kit R1C1 and the Close-up Speedlight Remote Kit R1. The R1C1 package includes:

- **Wireless Speedlight Commander SU-800** • Wireless Remote Speedlight SB-R200 (x2) • Attachment Ring SX-1 • Adapter Rings (5 types) • Color Filter Holder SZ-1 (x2) • Color Filter Set SJ-R200 (x2) • Extreme Close Up Positioning Adapter SW-11 (x2) • IR Panel for Built-in Flash SG-3IR • Flexible Arm Clip SW-CN1 • Attachment Ring SX-1 • Diffuser SW-12 • Speedlight Stand AS-20 (x2)

The R1 contains all the same components except the Wireless Speedlight Commander SU-800.

**Recommended lenses:**

- AF Micro-Nikkor 60mm f/2.8D
- Recommended lenses:
- AF Micro-Nikkor 105mm f/2.8D
- SW-C1 • Attachment Ring SX-1 • Diffuser SW-12 • Speedlight SW-11 (x2) • IR Panel for Built-in Flash SG-3IR • Flexible Arm Clip SW-CN1 • Attachment Ring SX-1 • Diffuser SW-12 • Speedlight Stand AS-20 (x2)

- AF Micro-Nikkor 200mm f/4D ED-IF
- AF Micro-Nikkor 105mm f/2.8D
- SW-11 • IR Panel for Built-in Flash SG-3IR • Flexible Arm Clip SW-CN1 • Attachment Ring SX-1 • Diffuser SW-12 • Speedlight Stand AS-20 (x2)

- AF Micro-Nikkor 105mm f/2.8D
- AF Micro-Nikkor 200mm f/4D ED-IF

Please refer to the instruction manual for a complete list of usable lenses, as well as the number of SB-R200 units attachable to a lens and available focal range of each lens.

**Wireless Speedlight Commander SU-800**

The SU-800 features a commander function that can trigger wireless remote flash units SB-R200, SB-600 and SB-800. AF-Assist Illuminator, Target Light button and Test button are provided.

**Wireless Remote Speedlight SB-R200**

The SB-R200 features a guide number of 30 (ISO 100, ft.) or 46 (ISO 200, ft.). When attached to a lens via the SX-1, the flash head can be tilted up to 60 degrees toward the optical axis of the lens or up to 45 degrees away from the lens.

**Attachment Ring SX-1**

For attaching the SB-R200 to the lens front via adapter ring. Up to eight SB-R200 units can be attached. The SB-R200 can be moved via the SX-1, positioning it at a desired click stop (each stop is 15°).

**Adapter Rings**

Enables placing the Attachment Ring SX-1 on the front of the lens. Five filter attachment sizes (52mm, 62mm, 67mm, 72mm, 77mm) are available.

**Color Filter Holder SZ-1**

Enables attaching filters to the SB-R200.

**Color Filter Set SJ-R200** (for SB-R200 package)

Contains four filters (Blue, Red, FL-G1 for fluorescent light and TN-A1 for incandescent light).

**Color Filter Set S2-2** (optional)

Contains 8 types, 20 filters in total.

**Components and Accessories**

**Wireless Speedlight Stand AS-20**

For the stable placement of the SB-R200. A tripod socket is also provided.

**Extreme Close-up Positioning Adapter SW-11**

For centering the light from the SB-R200 flash to an optical axis, which is especially effective in close-up shooting. Recommended for shooting distances (lens to subject) within 15cm.

**IR Panel for Built-in Flash SG-3IR**

Attached to the camera’s accessory shoe when the built-in Speedlight of a camera is used as a commander.

**Flexible Arm Clip SW-CN1**

Enables the attachment of a Diffuser, etc. can be attached to the guide groove of the Attachment Ring SX-1.

**Diffuser SW-12**

This milky-white board is used to diffuse light from a flash and to soften shadows.

**Cases**

- Soft Case for SU-800 SS-U800
- Soft Case for SU-800 SS-R200, Soft Case for SX-1 SS-SX1-72
- Close-up Speedlight Kit Case SS-MS1
- TTL Cord SC-30 (optional)

Connect the SU-800 and SB-R200 to enable close-up flash shooting when using a camera not compatible with the Creative Lighting System.

**Adapter Ring UR-5 (optional)**

With the AF Micro-Nikkor 60mm f/2.8D, attach the Attachment Ring SX-1 to the lens using Adapter Ring UR-5 and Adapter Ring SX-1-72.

Note: These products (except SJ-R200) can be purchased separately.

**Wireless Speedlight Commander SU-800 Specifications**

- Infrared pulse emitting communication using a flash discharge tube
- Transmission range:
  - Approx. 20m for SB-800/SB-600, approx. 4m for SB-R200 at normal setting
- Number of channels: 4
- Number of groups: 3
- Number of transmissions: Approx. 1,200
- Transmission interval: Approx. 1 second
- Flash light wavelengths: Approx. 800 to 1,000nm (infrared ray)
- Flash output: Approx. 69° (vertical), approx. 78° (horizontal)
- Display: LCD, red light
- AF-Assist illuminator:
  - Automatically turns on when performing autofocusing in dim light or in the dark with AF-S; approx. 10m shooting distance with a 50mm f/1.8 lens
- Power source:
  - One 3V CR123A lithium battery
- Dimensions (W x H x D): Approx. 7.5 x 3.8 x 3.1 cm
- Weight (without battery): Approx. 50 g

**Wireless Remote Speedlight SB-R200 Specifications**

- Transmitter mode: Automatic insouled Gate Bipolar Transistor (100ns) and linear chirp (for wireless remote flash unit only)
- Guide number:
  - 30 (ISO 100, ft.), 46 (ISO 200, ft.)
- Angle of coverage:
  - 24°
- Flash mode:
  - TTL, D-TTL, T-TTL (55-based cameras)
  - Auto Aperture: M (manual); full: 1/64 output (64% of full); 1/128 output (commander)
- Recycling time:
  - Approx. 6.0 seconds (Manual or full)
- Number of flashes:
  - Approx. 290 (Manual or full)
- Operating range:
  - Flash head 85° to 90°, or up to 45°
- Mounting foot:
  - Dedicated shoe for Attachment Ring SX-1 or Speedlight Stand AS-20
- Target light:
  - White LED
- Display:
  - Ready-light
- Power source:
  - One 3V CR123A lithium battery
- Dimensions (W x H x D): Approx. 3.1 x 3.0 x 2.2 cm
- Weight (without battery): Approx. 42.9 g

Specifications apply when a fresh battery is used at normal temperature (68°F); AF-Assist Illuminator is not used.
## Camera/Speedlight Compatibility

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<th>Speedlights</th>
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Note: This chart shows the features available when the Speedlight is connected directly to each Nikon camera, and standard features with an AF Nikkor lens attached.

## TTL Flash System

Nikon’s professional-quality TTL multiple-flash system is designed so that even a novice can use it with confidence right away. Choose any combination of TTL Speedlights with your Nikon F5, F200, FM3a, N80, N75 or N65 camera. Then use the TTL remote or TTL multi-flash sync cord available for TTL off-camera or multi-flash photography. You’re all set for off-camera multiple-flash photography — without the strong shadows. You’ll be able to create stunning effects and always get perfectly exposed pictures. Plus, there’s no need for complicated manual exposure-value calculation or accessory flash meters.

### TTL Flash System Configuration

![TTL Flash System Configuration Diagram]

### Accessories for TTL Flash System

- **Wireless Slave Flash Controller SU-4**
  - When connected to a Nikon Speedlight with ISO-type mounting, this enables wireless TTL flash control when using another Nikon Speedlight as a master unit. The provided Diffuser reduces the built-in Speedlight’s output, making the remote unit a main flash. (i-TTL/D-TTL operation is not possible.)

- **TTL Remote Cord SC-28/SC-29**
  - The TTL Remote Cord SC-28/SC-29 comes with two multiple flash terminals, making off-camera TTL flash control easy. With the F6, D2 series, the SC-29 also works as an external AF-assist illuminator.

- **TTL Multi-Flash Sync Cord SC-26/SC-27**
  - TTL Multi-Flash Sync Cord SC-26/SC-27 connects TTL flash units to each other through the TTL Remote Cord SC-28/SC-29 for multi-flash operation. (i-TTL/D-TTL operation is not possible.)

- **TTL Remote Cord SC-24**
  - For TTL flash control when using the Nikon F5 with DW-30 or DW-31.

- **TTL Multi-Flash Adapter AS-10**
  - Attache the AS-10 to a Nikon Speedlight such as the SB-800 or SB-27. Connect additional TTL Speedlight units with the SC-26 or SC-27. The AS-10, featuring tripod socket, controls up to three TTL Speedlight units.

### TTL Flash System Features

- **i-TTL Balanced Fill-Flash**
  - Flash output level is decided before actual shooting, according to data from the TTL Multi Sensor or RGB sensor, distance information from the lens in use and the results of Monitor Pre-flash.

- **3D Multi-Sensor Balanced Fill-Flash**
  - The camera’s built-in computer determines which segments of TTL Multi Sensor should be used for TTL automatic balanced fill-flash operation, according to data from the TTL Multi Sensor, distance information from the lens in use and the results of Monitor Pre-flash.

- **D-TTL Flash**
  - TTL auto-flash mode for Nikon Digital SLRs. The flash output level is attained before shooting based on Monitor Pre-flash and distance information.

- **Matrix Balanced Fill-Flash**
  - Based on the results of Matrix Metering, the flash output level is adjusted for the most well-balanced exposure between the main subject and background.

- **Standard TTL Flash**
  - The main subject is correctly exposed regardless of the background brightness.

- **Auto Aperture Flash**
  - The flash output level is automatically controlled by the flash sensor on the Speedlight according to the aperture setting on the camera.

- **Non-TTL Auto Flash**
  - The flash output level is automatically controlled by the flash sensor on the Speedlight according to the aperture manually set on the Speedlight.

- **Manual Flashing**
  - The flash output level is manually set on the Speedlight.

- **Distance-Priority Manual Flash**
  - Once the shooting distance value is set, even changing the aperture won’t alter the flash exposure.

- **Repeating Flash**
  - The Speedlight delivers a strobe effect, firing the flash continuously at selected rates.

- **Red-Eye Reduction**
  - Minimizes red-eye effect, for natural-looking flash portraits.

- **AF-Assist Illuminator**
  - Projects LED light on the subject, making it possible to focus on the subject even in total darkness.

- **Automatic Power Zoom**
  - The zoom head is automatically adjusted according to the focal length of the lens in use.

- **Monitor Pre-flash**
  - Distance information from the TTL Multi Sensor or RGB sensor, distance information from the lens in use, according to data from the TTL Multi Sensor, distance information from the lens in use and the results of Monitor Pre-flash.
A powerful postproduction tool, Nikon Capture 4 comprises Nikon Capture 4 Editor and Nikon Capture 4 Camera Control. Using the software, you can transfer images to your computer, view, edit, and even print them — all in a single process. Nikon Capture 4 gives you comprehensive control over the final quality of your Nikon Electronic Format (NEF) image data.

Note: Nikon Capture 4 version 4.4 or later is required with the D200.

The postproduction imaging tool that’s a key element to an efficient, effective digital imaging workflow. Nikon’s newly upgraded image-enhancement software affords you the ability to explore digital imaging more in-depth, and grants you a high degree of control via your personal computer.

**Software**

**Flash Accessories**

- **Power Bracket Unit SK-6A**
  Not only does the SK-6A enable you to use the camera-mountable SB-800 as a grip-type flash, it also offers you remote-flash capability. Used as an external power source, the SK-6A reduces minimum recycling time by about half and doubles the total number of flashes available. It accepts six 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (R6/AA-size NiCd) or 1.3V F R6 (AA-size lithium) batteries.

- **Bracket SK-7**
  This enables you to attach a TTL Speedlight unit next to a Nikon SLR. By connecting the TTL Speedlight unit and Nikon SLR’s accessory shoe with the TTL Remote Cord SC-28/29, you can use the Speedlight as a grip-type flash.

- **Sync Terminal Adapter AS-15**
  The AS-15 is designed for use with Nikon cameras with standard ISO-type accessory shoes which do not have a sync terminal.

- **Speedlight Stand AS-19**
  The Speedlight Stand AS-19 is designed for stable placement of a Nikon Speedlight. Use the AS-19 for setting remote flash unit(s) in multiple remote flash shooting. The AS-19 also features a tripod socket.

- **External Power Sources**

  - **Flash Unit Coupler AS-17 (for F3 series)**
    This unit gives you TTL flash control capability for the F3 when used with TTL Speedlights that feature an ISO-type mounting foot (i.e. the SB-800, etc.).

  - **Flash Unit Coupler AS-7 (for F3 series)**
    The AS-7 is required when using the F3 series with the SB-800. It lets you rewind or replace film without removing the coupler.

- **Flash Unit Coupler AS-6**
  As for the SB-16A, for Nikons with standard ISO-type accessory shoes, there’s the AS-6.

- **High-Performance Battery Pack SD-8A**
  The SD-8A is designed for use with the SB-800 to shorten flash recycling time and enhance flash capacity. It accepts six 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (R6/AA-size NiCd), 1.3V F R6 (AA-size lithium) or 1.3V R6/AA-size Ni-MH batteries.

- **Sync Terminal Adapter AS-15**

- **Speedlight Stand AS-19**

- **Bracket SK-7**

- **Power Bracket Unit SK-6A**

- **Flash Unit Coupler AS-17 (for F3 series)**

- **Flash Unit Coupler AS-7 (for F3 series)**

- **Flash Unit Coupler AS-6**

**Software**

The Nikon Electronic Format (NEF) File

This unique format consists of the RAW data of an image, along with an instruction set that provides extensive image editing capability not available with other file formats. With a NEF file, the original RAW data of an image is never changed. All corrections and adjustments that you make are preserved in the file’s instruction set. You can change the instruction set as many times as you like without ever disturbing the original image’s RAW data.

Nikon cameras compatible with NEF are the D2 series, D1 series, D200, D100, D70 series, D50 digital SLRs, and the COOLPIX 8800, 8700, 8400, 5700 digital compacts.

**Image Processing on NEF (RAW) File Using Nikon Capture 4**

- **Instruction set (Shooting data)**
- **Image processing 1**
- **Image processing 2**
- **Image processing 3**
- **Image processing information**

**Ordinary Image Processing Workflow**

- **Original image data**
  - **Image processing 1**
  - **Image processing 2**
  - **Image processing 3**

**Saved in NEF**

*Original image quality is never changed.*

**Saved in TIFF or JPEG**

Original image quality cannot be maintained.
Nikon Capture 4 Editor
Nikon Capture 4 Editor component provides you with a broad variety of image adjustment tools, some of which can only be applied to NEF (RAW) data.

White Balance
The tools in the White Balance palette are used to adjust the white balance for NEF (RAW) images. White balance can be adjusted by specifying the desired color temperature or by selecting the image for the gray point. You can define white balance using a single point or the average of an area.

Advanced RAW
Many of the attributes of NEF (RAW) image data can be altered or corrected using the Advanced RAW feature. Exposure Compensation, Sharpening, Tone Compensation, Color Temperature, Vertical Saturation Setting and Hue Adjustment combine to give you a high degree of control over image quality.

Color Aberration Control
This feature reduces lateral chromatic aberration (colored fringes or halos) that appears toward the edge of an image—a phenomenon caused by differences in the refractive index of each color's wavelength—in RAW images taken with Nikon digital SLRs.

Vignette Control
This palette tools are used to correct for loss of marginal illumination, which causes a drop in brightness at the edges of a photograph. Vignette Control is most effective with images captured using a D-/NIKON lens, and at larger apertures.

Image Dust Off
This function compares NEF (RAW) photographs with a reference image created with the same camera to reduce the effects of any dust that may be present on the low-pass film protecting the camera’s image sensor.

D-Lighting
D-Lighting reveals details that are obscured by shadows or highlights, correcting for underexposure in brightly lit areas. You can enhance the image by increasing the contrast of the edges of the image, while leaving other areas untouched.

Size/Resolution lets you specify the final output image size.

Plug-in filters and software update

Compatibility with Color Modes I, II, III, IV and IIIa.

3 Not compatible with Mac OS X.

FishEye Image Transformer
The tools in the FishEye Lens palette convert images taken with the AF DX 10.5mm f/2.8G ED lens to rectilinear images. Both vertical and horizontal compensation can be performed.

Noise Reduction
Random noise that appears in digital camera images can be effectively minimized using the Color Noise Reduction function. Edge Noise Reduction makes outlines more distinct by reducing the noise along the edges of a photo. Color Moiré Reduction is also usable with NEF images.

*4 These features can only be applied to NEF (RAW) image data.

Other handy, innovative features

LCH Editor enables editing of Luminosity (master lightness), Chroma (color saturation or vividness) and Hue. The Color Balance palette offers simple controls for adjustment of overall brightness, contrast and color balance for the entire image.

The Photo Effects palette enables easy conversion of color images to black-and-white, sepia or other monochrome tints.

To correct "red-eye" in portrait subjects, the Red-Eye Correction palette is available.

Using Unsharp Mask, you can enhance image sharpness by increasing the contrast of the edges of the image, while leaving other areas untouched.

Size/Resolution lets you specify the final output image size.

Compatibility with Color Modes I, II, III, IV and IIIa.

3 Not compatible with Mac OS X.

Noise Reduction
Noise Reduction is also usable with NEF images.

Advanced RAW
* Not compatible with Mac OS 9.

White Balance
White Balance can be used to fine-tune the white balance for the entire image.

Saturation Setting and Hue Adjustment
Tone Compensation, Color Mode, Saturation Setting and Hue Adjustment combine to give you a high degree of control over image quality.

Capture 4 Functions/Cameras Compatibility Chart

Nikon Capture 4 System Requirements

*1: When used in conjunction with other software, the total amount of free space required can be determined by referring to the user's guides for the respective programs.

*2: Data transfer may not work properly if the connection to a computer is via a USB hub.

*3: Data transfer may not work properly if the connection to a computer is via a USB hub.

Superb operability for improved efficiency
Nikon Capture 4 incorporates tools that allow you to zoom in/out, scroll, rotate, flip, stretch and crop images. The Multi-Image Window enables image adjustment while you switch among images. The Multi-Image Palette provides the level distribution for each image in the active window. Changes made to images can be recorded using the Copy to Markers Palette.

To enable you to apply the adjustment settings of one image to another, Nikon Capture 4 enables you to save and copy the settings independently or simultaneously. The Save Progress window shows all save operations currently in progress, and can be used to pause, restart or cancel the current task. And Batch Processing enables automated processing of multiple images—particularly effective when applied to a series of photographs taken under identical conditions.

Nikon Capture 4 Camera Control
Once you connect the D2 series (USB Hi-Speed), D1 series (IEEE 1394) or D200/D70 series cameras to your computer, the Camera Control component of the Nikon Capture 4 provides you with remote control from your computer of virtually every aspect of camera operation. Wireless Transmitters WFT-2A give D52s and D2Xs users remote control functionality via PTP/IP. Pictures taken with the camera will be stored on your computer's hard disk as opposed to the camera’s memory card. This turns your computer's hard disk into the equivalent of a large-capacity media card—especially valuable when performing high-volume shooting.

Capture 4 Functions/Cameras Compatibility Chart

Nikon Capture 4 System Requirements

*1: Not compatible with OS X or Mac OS X (ver. 10.3 or later).

*2: Requires PTP/IP Protocol (ver. 3.0 or later) for the Camera Control component of the Nikon Capture 4.


*4: Digital Still Camera Station (DSS) and Digital Still Camera Capture Utility (DSCU) are also compatible with D1/D1H/D1X series cameras#


*6: Digital Still Camera Station (DSS) and Digital Still Camera Capture Utility (DSCU) are also compatible with D1/D1H/D1X series cameras. Nikon Capture 4 supports the DSS/DSCU protocol.


*8: Check the support page on Nikon’s web site for a list of compatible boards and cards.


*10: Check the support page on Nikon’s web site for a list of compatible boards and cards.

Nikon Capture 4 System Requirements

USB*3: Built-in USB interface, or RATOC Systems REX-PCIU3 board, or ORIX USB-205 board (for use with MAC OS X and the D2 series)

*1: When used in conjunction with other software, the total amount of free space required can be determined by referring to the user’s guides for the respective programs.

*2: Data transfer may not work properly if the connection to a computer is via a USB hub.

*3: Data transfer may not work properly if the connection to a computer is via a USB hub.

*4: Compatible with approximately 10 files (approx. 10MB or less)

*5: Compatible with D200/D70 series cameras (USB 2.0 USB board for use with MAC OS X and the D2 series)

*6: Nikon D90 or D80

*7: Compatible with Mac OS X 10.3.9 or later

*8: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*9: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*10: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*11: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*12: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*13: Check the support page on Nikon’s web site for a list of compatible boards and cards.

*14: Check the support page on Nikon’s web site for a list of compatible boards and cards.
Major features (ver. 1.6)

- Image files are automatically imported
- Major features (ver. 1.6)
- CD or DVD images created using
- Pop-up messaging service employed to
- Any and all changes made to images can
- Intuitive editing tools simplify the

To further enhance your digital imaging experience, PictureProject features compatibility with three optional plug-ins.

PictureProject DVD Show

Have even more fun making videos. You can create a DVD-video or a Video-CD with the click of a single button. Enjoy flexible control over effects, duration and music.

PictureProject COOLPIX Remote Control

This software allows you to control COOLPIX-series digital cameras remotely from your computer. Camera settings can be adjusted in the Settings Panel. Capture an image by clicking the Shoot button in the COOLPIX Remote Control dialog, and it is transferred directly to the computer hard disk and catalogued in PictureProject without being saved to the camera memory card. Because every camera operation is controlled while monitoring images to be taken, the software improves workflow efficiency even in professional applications.

PictureProject System Requirements

CPU Pentium III 500MHz or higher recommended (Pentium III 700MHz or higher for COOLPIX S4)
RAM 512MB or more recommended (1GB or more for FAV images or movie option)
Hard disk 20GB required for installation
Display EIZO RGB plus or more with 16-bit color (High Color/thousands of colors) or more
Others CD-ROM drive is recommended

** nik Color Efex Pro 2.0 Express Edition **

The Express Edition of the nik Color Efex Pro 2.0 is a simple version of digital photographic filters offered by nik multimedia, Inc. It contains 15 filters that even first-time digital-filter users can easily handle. (For more details, see page 19.)

* COOLPIX L1 and COOLPIX S4 can be used with the optional plug-in and is compatible with PictureProject version 1.1 or later.
* Also compatible with PictureProject version 1.1 or later.
** All these filters are included in the Standard Edition compatible with Nikon Capture version 4.1 or later.

Multiple filter types

nik Color Efex Pro 2.0 filters are categorized into two groups — “Traditional” and “Stylizing.” Traditional filters function like conventional photographic filters, and include B&W Conversion, Polarization, Graduated, Skylight, and Infrared filters. Stylizing filters enable the enhancement of an image or the creation of a photographic style or abstract transformation.

Major features

- Functionality in RGB, CMYK, Grayscale, and LAB, in both 8- and 16-bit/channel modes.
- True Light™ is a dynamic color treatment system that every filter utilizes automatically to provide better color and light enhancements. It preserves the relationship of highlights and shadows in your image while controlling the enhancement and protecting these elements of the image. A histogram display enables you to identify potential problems in the image.
- Using a Selective tool, access to each of the filters is quick and easy. By simply selecting a filter from the palette, it can be applied to the image.
- As each filter adjusts its effect based on the detail structures, colors and contrast range, consistency across a range of images is possible.
- The capability of the filters to adapt to previous filter adjustments or changes to the image is extremely valuable, as it allows you to apply filters in a different order, giving you increased control and additional enhancement options.
- The Preview Toggle feature enables you to alternate between the original image and the one with the current effect(s) applied.
- The preview area is recalculated each time an adjustment is made to the image.
- You can create customized color filters using any color from a color picker for added versatility.
Battery Packs and Motor Drives

For F6

Multi-Power Battery Pack MB-40
Runs on eight 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V R6/AA-size Ni-MH batteries or Rechargeable Li-ion Battery EN-EL4 and provides a film advance speed of up to 8.0 fps. Provides an alternative shutter release button, AF start button, multi selector and command dials to make shooting vertical-format pictures much more comfortable.

For F5

Ni-MH Battery Unit MN-30
This nickel-metal hydride battery unit enables you to make the most of the F5’s powerful capabilities. It contributes to film advance speed of up to 8 frames per second, film rewind speed of 4 seconds for a 36-exp. roll and stable camera performance even in cold ambient temperatures. To charge the MN-30, Multi Charger MH-19 is available. The External Power Cord MC-29 connects 12V DC external power source to the F5.

For N90s

Multi-Power Vertical Grip MB-10
A dedicated grip designed for the N90s, the MB-10 provides an alternative shutter release button for vertical shooting. It runs on either four R6/AA-size batteries or two 3V CR123A lithium batteries (with MS-11).

For N90

Battery Pack MB-16
Connected to the tripod socket on the N80 bottom, it accepts four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V R6/AA-size NiCd or 1.2V R6/AA-size Ni-MH batteries.

For N75

Battery Pack MB-18
A dedicated grip designed for the N75, the MB-18 provides an alternative shutter release button for vertical shooting. It accepts four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V R6/AA-size NiCd or 1.2V R6/AA-size Ni-MH batteries.

For D200

Multi-Function Battery Pack MB-D200
The ergonomically designed MB-D200 blends extended stability and shooting potential. Runs on either six LR6/AA-size alkaline, FR6/AA-size lithium, 1.2V R6/AA-size Ni-MH batteries, or two EN-EL3e rechargeable Li-ion batteries. Features an extra command dial, shutter release button and AF start button for vertical shooting.

For D200

Quick Charger MH-21
With the MH-21, you can recharge Rechargeable Li-ion Battery EN-EL4.

For F6/D2 series

Quick Charger MH-11
With the MH-21, you can recharge two units of the Rechargeable Li-ion Battery EN-EL4.

For D200

Multi-Function Battery Pack MB-D200
This nickel-metal hydride battery unit enables you to make the most of the D200’s powerful capabilities. It contributes to film advance speed of up to 8.0 fps, provides an alternative shutter release button, multi selector and command dials to make shooting vertical-format pictures much more comfortable.

External Power Source

Anti-Cold Battery Holder DB-2
The DB-2 keeps your camera and metering system operating in extreme cold. Remove the two batteries from the camera battery chamber, attach the chassis to the DB-2 loaded with two R6/AA-size* batteries via DB-2 connecting cord, then put the DB-2 in a coat or other warm place.

External Battery Pack DB-6
For FM3a
For added power, especially during prolonged or low-temperature shooting, the Nikon N90s can count on the DB-6, which uses six D-type batteries, as an alternative power source. The DB-6 connects to the N90s via the Nikon External Power Cord MC-29.

* Do not use R6/AA-size NiCd, Ni-MH or lithium batteries. A tripod cannot be attached when the DB-2 is connected.

** Do not use R6/AA-size NiCd, Ni-MH or lithium batteries. A tripod cannot be attached when the DB-2 is connected.

For FM3a

Motor Drive MD-12
Enables you to shoot at a rate of up to 3.2 frames per second. Lightly pressing the trigger activates the camera’s exposure meter.

MD-12 Specifications

Firing rate: Approx. 3.2 fps (at 1/125 s shutter speed, shutter speed priority auto)
Shooting mode: Single-frame (S); Continuous (C); movie recording Possible; uses standard Nikon 3-pin connector
Remote control: SU-800 P-TTL flash, SU-800 TTL, SU-800 TTL (auto) P-TTL flash

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Remote Control & Data Communication Accessories

Terminal Release MR-3

The MR-3 connects to the remote-control terminal to provide an additional trigger button for firing camera in vertical position. It also enables you to trigger the camera with Nikon Cable Release AR-3.

Remote Cord MC-12B

(3.6 ft.)* Enables you to perform remote firing up to 2.6 ft.

Remote Cord with Release Terminal For N80/ FM3A/ D100

Remote Cord MC-30 (2.6 ft.) Enables remote firing of a camera with trigger-lock function.

Remote Cord AR-3 (1.0 ft.) Enables delayed shutter release, and continuous shooting.


Cable Release AR-3 (1.0 ft.) Essential for slow shutter speeds, these cable releases ensure one-hand, vibration-free shutter release operation.

Remote Cord MC-DC1 (3.3 ft.) Enables remote firing of the D70s.

Remote Control Accessories

For N70/ FM3a with MD-12

Two-Pin Remote Accessories

For F6/ F5/ F100/ D2 series/ D1 series/ D200/ D100 with MB-D100

Ten-Pin Remote Accessories

Remote Cord MC-36 (2.8 ft.) Enables remote firing of a camera and setting of Interval Timer and Long Time Exposure. LCD panel with illumination is incorporated.

Remote Cord MC-30 (2.6 ft.) Enables remote firing of a camera with trigger-lock function.

Remote Cord MC-22 (3.3 ft.) Useful for connection to shutter triggering device.

Extension Cord MC-21 (9.8 ft.) Used with MC-30 or MC-22. 

Connecting Cord MC-23 (1.3 ft.) Connects two cameras for simultaneous or synchronized shutter release.

Adapter Cord MC-25 (0.7 ft.) Enables use of two-pin remote accessories: MC-44, MC-128, and MR-3.

Cable Release AR-3 (1.0 ft.) Enables delayed shutter release, and continuous shooting.

Remote Cord MR-3

(MR-3 is sold separately. See instruction manual.)

Remote Control Accessories

For F6/ F5/ F100/ D2 series/ D1 series/ D200/ D100 with MB-D100

Remote Cord MC-36 (2.8 ft.) Enables remote firing of a camera and setting of Interval Timer and Long Time Exposure. LCD panel with illumination is incorporated.

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Remote Cord MR-3

(MR-3 is sold separately. See instruction manual.)
### Viewing Accessories

#### Interchangeable Focusing Screens

<table>
<thead>
<tr>
<th>For F6</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Type B*</td>
<td>Type G</td>
<td>Type V*</td>
</tr>
</tbody>
</table>

Types B, B2, B3, D, U
Each screen offers unobstructed viewing and easy focusing over the entire matte surface. Types D and U are especially for telephoto lenses.

Type EC-B (for F5)
With an Electromechanical (EC) device, shows the focus area selected and offers unobstructed viewing and easy focusing on the overall matte surface.

Types K, K2, K3
Feature a matte fresnel field with split-image rangefinder and microprism collar.

Type EC-E (for F5), E, D2, D3
Feature grid patterns that are ideal for architectural photography. Type EC-E screen shows the focus area selected and offers unobstructed viewing and easy focusing.

Types A, J, L, P
Designed for general photography, these screens have either a split-image rangefinder or a microprism or both.

Types C, M
Used for high-magnification close-ups or astrophotography.

Types G (G1–G4)
Exceptionally bright image because matte surface is not used. Suitable for dim light or fast-moving subjects.

Type U
Suitable with telephoto lenses longer than 200mm.

Types V, W
With the D2x, corner brackets indicate the rectangular area to be shot in High-speed Crop mode.

* Supplied with product

---

#### Eyepiece Correction Lenses

- For F100: G (–5 to +3m⁻¹, 9 kinds)
- For D2 series: G (–3 to +2m⁻¹, 5 kinds)
- For D1 series: G (–5 to +3m⁻¹, 9 kinds)
- For N90s: G (–3 to +2m⁻¹, 5 kinds)
- For FM3A: G (–5 to +3m⁻¹, 9 kinds)

#### Artifog Finder Eyepiece

- DK-17C
  - for F6, F5, D2 series, D1 series
  - (–3 to +2m⁻¹, 5 kinds)
- DK-17A
  - for F6, F5, D2 series, D1 series
  - (–5 to +3m⁻¹, 9 kinds)
- DK-17M
  - for F6, F5, D2 series, D1 series
  - (–5 to +3m⁻¹, 9 kinds)
- DK-3
  - for FM3A
  - (–3 to +2m⁻¹, 5 kinds)
- DK-15
  - for F100

#### Rubber Eyecups

- DK-6
  - for F100
- DK-3
  - for FM3A

#### Eyepiece Adapter

- DK-7
  - for F6, F5, D2 series, D1 series
- DK-6
  - for F6, F5, D2 series, D1 series
- DK-15
  - for F6, F5, D2 series, D1 series

#### Right-Angle Viewing Attachment

**DR-5: DR-6**
Provides an upright, reversed image for right-angle viewing. Individual eyepiece adjustment is possible. They allow you to set the reproduction ratio to either 1:1 or 1:2. The DR-5 is for cameras designed with a circular eyepiece, and the DR-6 is for rectangular-eyepiece cameras. An adapter ring is required for F6, F5, F100, D2 series and D1 series when attaching the DR-5.

**Eyepiece Magnifier DG-2**
Provides 2x magnification of the central portion of the finder image. Eyepiece adjustment provided. Useful for critical focusing in close-up photography. An eyepiece adapter is required with all cameras except FM3A.

**Magnifying Eyepiece DK-17M**
Attached to the D2 series, D1 series, F6 and F5, the DK-17M magnifies the finder image by approximately 1.2 times. Diopter adjustment range is widened for both the + and – sides.

**Rubber Eyecups**
Increase viewing comfort and prevent stray light from entering the viewfinder and washing out contrast.

**Eyepeice Correction Lenses**
An easy-to-use viewing and focusing aid for near- and farsighted photographers, which enables them to view the finder image accurately without having to wear their eyeglasses.

**Artifog Finder Eyepiece**
DK-13/ DK-17A
This eyepiece features a transparent plastic plate with a special surface coating which reduces fogging on the eyepiece. DK-17A is for Nikon F6, F5, D2 series and D1 series, while DK-13 is for Nikon F300.
A wide variety of Nikon Filters are available.

### Filters

**Filters for B&W Photography**

- **Circular Polarizing Filters**
  - By reducing the light reflected from non-metallic surfaces, polarizing filters allow direct shooting through glass windows and reduce the glare from water surfaces and sunlit trees and grass. They are the only filters that darken the sky in color photography without affecting color balances.

- **Soft Focus Filters No. 1, No. 2**
  - The Soft Focus Filter No. 1 is good for portraits and gives a “romantic” style haze to images. The No. 2 filter is stronger and produces a fog-like effect in landscapes, or high-contrast subjects.

- **Ultraviolet L37C, L39 Skylight L1BC**
  - While invisible to the naked eye, ultraviolet light can reduce contrast and detail. The colorless UV filters not only produce sharper, non-hazy B&W prints, they correct the blue or violet tints that may occur with color film.

**Filters for Color and B&W Photography**

- **Neutral Color NC Filters**
  - Available in attachment sizes 39mm, 46mm, 52mm, 58mm, 62mm, 72mm and 77mm, these neutral-color filters serve as lens protectors. They do not affect color balance. In addition, multilayer coating prevents light reflection inside the glass, thus improving color rendition.

**Filters for Color Photography**

- **Ander A1, A12**
  - Because they subtract blue and amber colors, these filters reduce glare from non-metallic surfaces such as glass and water. Simply turn the rotating ring on the holder to find the most effective position. The filters do not affect autofocus or auto exposure features.

**Slip-in Circular Polarizing Filters**

- Designed for use in combination with telephoto lenses equipped with a slip-in filter holder, these filters reduce glare from non-metallic surfaces such as glass and water. Simply turn the rotating ring on the holder to find the most effective position. The filters do not affect autofocus or auto exposure features.

**Gelatin Filter Holders AF-3, AF-4**

- Accommodate gelatin or glass filters to thickness of approx. 2mm. The AF-3 is used with 3-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/77/82/95mm. Nikon also offers two dedicated hood options — the HN-36 for the AF-3 and the HN-37 for the AF-4. Several hoods of equal diameter can be used with 4-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/77/82/95mm. The AF-4 is used with 4-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/77/82/95mm. The AF-4 is used with 4-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/77/82/95mm.

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- **AF-4**
  - These enable standard 75mm gelatin filters to be used with many Nikkor lenses, the AF-1 for 52mm attachment size and the AF-2 for 72mm attachment size.

- **72-42 Filter Adapter Ring UR-1**
  - This adapter enables a filter with an attachment size of 72mm to be used with any Nikkor lens that is equipped with a filter attachment size of 72mm.

### Tungsten Light Designation

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### Screw-in Type

- **Tungsten Light**
  - Designation
  - **Filter**
    - **Neutral Color NC Filters**
      - Available in attachment sizes 39mm, 46mm, 52mm, 58mm, 62mm, 72mm and 77mm, these neutral-color filters serve as lens protectors. They do not affect color balance. In addition, multilayer coating prevents light reflection inside the glass, thus improving color rendition.

### Filters for B&W Photography

- **Yellow Y44, Y48, Y52**
  - Yellow filters absorb both the blue and ultra violet light, so that skies appear darker in a B&W print. They are particularly useful for heightening contrast.

- **Orange OS6, Red R60**
  - The OS6 and R60 offer greater contrast between sky and subjects than Y-series filters. The OS6 substrates green as well as blue.

- **Green X0, X1**
  - Green filters subtract red and blue and let through green and yellow. Although both X0 and X1 absorb the same amount of blue, the X0 absorbs less red than the X1, so its effect is milder. The X0 is used for general-purpose shooting, while the X1 is most effective for portraits.
Close-Up Accessories

Bellows Focusing Attachment and Accessories

Bellows Focusing Attachment PB-6
Lets you vary the lens extension from 48mm to 208mm, producing frame-filling images of the most minute subjects. Requires an Auto Extension Ring when used with the F6, F5, D2 series, D1 series or D700/DC/D7.

The Bellows Spacer PB-6D
Enables moving a Nikon F6, F5, D2 series or D1 series on the PB-6 rail without interference. It also allows horizontal/vertical changeover anywhere along the rail. Two PB-60s are needed with the PB-6; three are needed when using the PB-6E.

Extension Bellows PB-6E
Attaches to the PB-6 for magnification to an astounding 2x life-size when using a 20mm wideangle lens in reverse position.

Slide Copying Adapter ES-1
Attached to the AF Micro-Nikkor 60mm f/2.8D lens with the BR-5 Ring or the Micro-Nikkor 55mm f/2.8 lens, this adapter enables duplication of 35mm film.

Macro Copy Stand PB-6M
Attaches to the end of the PB-6 to convert it to a miniature copy stand or specimen stage.

Cable Releases
The AR-4 and AR-7 Double Cable Release and the AR-10 Cable Release provide the PB-6 with automatic diaphragm control, even for a lens in the reversed position.

Close-Up Attachment Lenses
These cases keep lenses safe from dust, dampness and shocks.

Cylindrical Cases (CL)
The handsome black leatherette finish is complemented by soft, plush lining.

Trunk Case (CT): A durable trunk case is supplied with larger lenses including bright super-telephoto lenses.

Soft Pouch (No. 58-62, CL-S2/SL-S2): Suits WU-3J/3U-2J/12J:
Accommodates a variety of lenses of different focal lengths.

Lens hoods minimize stray light, helping reduce flare and eliminate "ghost" images, they also protect the lens.

Lens Hood Names represent types: HN for Cylindrical Cases, CT for Trunk Cases and No. 58-62 and CL-SM, for Soft Pouches.

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Lens hoods minimize stray light, helping reduce flare and eliminate "ghost" images, they also protect the lens.

Lens Copier Stand PB-6M
Attached to the AF Micro-Nikkor 60mm f/2.8D lens with the BR-5 Ring or the Micro-Nikkor 55mm f/2.8 lens, this adapter enables duplication of 35mm film.

Macro Adapter Ring BR-5
Needed when using the BR-2A with lenses that have a 62mm front attachment size.

Adapter Ring BR-3
A handy adapter that converts the bayonet mount of reverse mounted lenses to the 52mm thread used for filters and hoods.

Macro Adapter Ring BR-5
Attached to the AF Micro-Nikkor 60mm f/2.8D lens with the BR-5 Ring or the Micro-Nikkor 55mm f/2.8 lens, this adapter enables duplication of 35mm film.

Macro Copy Stand PB-6M
Attached to the AF Micro-Nikkor 60mm f/2.8D lens with the BR-5 Ring or the Micro-Nikkor 55mm f/2.8 lens, this adapter enables duplication of 35mm film.

Close-Up Accessories

Bellows Focusing Attachment and Accessories

Bellows Focusing Attachment PB-6
Lets you vary the lens extension from 48mm to 208mm, producing frame-filling images of the most minute subjects. Requires an Auto Extension Ring when used with the F6, F5, D2 series, D1 series or D700/DC/D7.

The Bellows Spacer PB-6D
Enables moving a Nikon F6, F5, D2 series or D1 series on the PB-6 rail without interference. It also allows horizontal/vertical changeover anywhere along the rail. Two PB-60s are needed with the PB-6; three are needed when using the PB-6E.

Extension Bellows PB-6E
Attaches to the PB-6 for magnification to an astounding 2x life-size when using a 20mm wideangle lens in reverse position.

Lens Cases/Lens Hoods

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Camera Cases
Made to fit camera and standard lens only or a variety of camera-lens-accessory combinations including telephotos and motor drives, Nikon camera cases not only keep valuable equipment clean, safe and ready to get at, they look good, too. From classic black to stylish custom models, every Nikon case is carefully designed and manufactured to the same precise standards as all Nikon equipment, and will provide long years of service. Four types are available:

Semi-Soft Case: A two-piece design, this case is more pliable and is textured in appearance.

Soft Case: Foldable when not in use, these cases are usually one-piece in design and are more for convenience than protection.

Blimp Case: Foldable, this case is useful to dampen shutter/motor drive noise or to protect the camera/lens from freezing temperatures. Compatible with any Nikon SLR.

Speedcase: With its accessory kit on the outside, the speedcase offers maximum convenience when carrying camera/telephoto lens and small accessories.

Camera Case Base Portions
Designed for use when a data back is attached in place of the standard camera back, these base portions have a handy window which allows full viewing of all the data back displays. They attach easily to the top portion of the standard camera carrying case.

Neckstraps
Fully adjustable to a variety of different lengths, Nikon neckstraps are available in either nylon, leather or leatherette. The nylon neckstraps are flared for no-strain carrying, and come in black or black with yellow stripes. Both the leather and leatherette straps have a non-slip rubber shoulder pad for added security. All Nikon neckstraps are designed so that the hardware will not scratch the corners of the camera body.
**Nikon Film Scanners**

**Your film's digital bridge to the future**

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**Multi-format Film Scanner**
**SUPER COOLSCAN 9000 ED**
- Multiple film format (120/220, 35mm, etc.)
- 4,000 dpi true optical resolution
- 16-bit A/D, 16-/8-bit output
- Large-diameter SCANNER NIKKOR ED lens
- Rod dispersion LED illumination
- Multi-sample scanning
- Scan Image Enhancer
- Quick AF & Quick Preview
- IEEE1394 interface
- Digital ICE® Advanced™ (Digital ICE quad advanced)
- Digital ICE Professional™ for Kodachrome film

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**35mm/IX240 Film Scanner**
**SUPER COOLSCAN 5000 ED**
- 4,000 dpi true optical resolution
- 16-bit A/D, 16-/8-bit output
- SCANNER NIKKOR ED lens
- Fast 20-second scanning (including image transfer to monitor)
- Multi-sample scanning
- Scan Image Enhancer
- Quick AF & Quick Preview
- High-speed USB 2.0 interface
- Roll film compatible (optional)
- Digital ICE® Advanced™ (Digital ICE quad advanced)

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**35mm/IX240 Film Scanner**
**COOLSCAN V ED**
- 4,000 dpi true optical resolution
- 14-bit A/D, 16-/8-bit output
- SCANNER NIKKOR ED lens
- Gentle-on-film LED illumination
- Fast 38-second scanning (including image transfer to monitor)
- Scan Image Enhancer
- Quick AF & Quick Preview
- Layout-free design
- Easy-to-connect USB interface
- Digital ICE® Advanced™ (Digital ICE quad advanced)

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**Multi-format Film Scanner**
**SUPER COOLSCAN 9000 ED**
- Multiple film format (120/220, 35mm, etc.)
- 4,000 dpi true optical resolution
- 16-bit A/D, 16-/8-bit output
- Large-diameter SCANNER NIKKOR ED lens
- Rod dispersion LED illumination
- Multi-sample scanning
- Scan Image Enhancer
- Quick AF & Quick Preview
- IEEE1394 interface
- Digital ICE® Advanced™ (Digital ICE quad advanced)
- Digital ICE Professional™ for Kodachrome film

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**Digital Photo Storage Viewer**
**COOLWALKER MSV-01**
- Your 30GB portable photo album
- High-quality 30GB hard disk stores up to 10,000* digital images
  - Calculated for 6-megapixel images stored in JPEG FINE format
- High-quality 2.5-inch TFT color monitor
- Easy data transfer between COOLWALKER and CF Card or PC (USB 2.0)*
  - Using CF card type adapter, SD card is also usable
- Simple user interface for intuitive operation
- Compatible with JPEG, TIFF and NEF file
- Slideshow image display
- PictBridge compatible

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Digital ICE® Advanced™ is Digital ICE™, Digital ROC™, Digital GEM™ and Digital DEE™.
Digital ICE® Advanced™ are technologies developed by Applied Science Fiction.
Digital ICE Professional™ is technology developed by Applied Science Fiction.

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