

Nikon SPEEDLIGHT UNITS SB-5, SB-7E, SB-8E, SB-9, SM-2 and SR-2



Nikon

GET MORE OUT OF LIGHT WITH A NIKON SPEEDLIGHT UNIT



Nikon fans are primarily interested in quality. And high quality flash equipment is a must for those who aim at putting flash photography at their command. So, true to its tradition of making only high quality products, Nikon developed a comprehensive line of speedlight units as an integral part of the Nikon system of photography.

This line includes the SB-7E and SB-8E Speedlight Units for those who require compactness but shoot under a wide variety of conditions and the SB-9 for those who require simplicity and convenience along with high performance. For the professional and advanced amateur, the amazingly versatile and powerful SB-5 is an excellent choice. Close-up fans will find the SR-2 and SM-2 Ringlights the answer to their needs.

All Nikon Speedlight Units feature precision flash heads designed for even illumination and uniform color temperature for consistent, natural lighting. Some of the units are equipped with automatic output control.

Try one of the complete line of Nikon Speedlight Units and get more out of light!

SPEEDLIGHTS SB-7E and SB-8E

A Critical Balance between Compactness and Advanced Versatile Features



These two electronic flash units are designed to go anywhere with maximum convenience and still provide a full range of capabilities. The built-in computerized flash control automatically adjusts the light output according to the flash-to-subject distance.

No special exposure calculations or adjustments are required. And the direct series circuit with SCR stores the unused energy for the next flash which results in reduced recycling time, and battery drain. Despite its compactness, the guide number is 25 (in meters set on manual) for ASA 100 film and the reflector, coupled with an advanced high efficiency flash tube, ensures corner-to-corner brightness and even illumination. The SW-2 wide flash adapter extends coverage up to 75°, enabling use with 28mm wideangle.

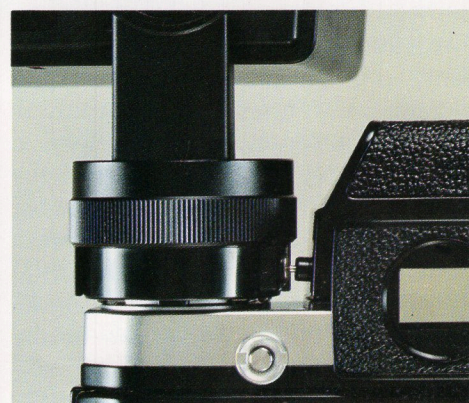
Although the two units are identical performance-wise, the SB-7E has a special bayonet for cordless connection to F2 Nikon cameras and connects directly to the ready-light built

into the camera viewfinder. The SB-8E has a shoe for cordless connection to Nikon/Nikkormat or other cameras with standard ISO-type hot shoe.



A convenient exposure calculator is mounted on the top of these units for determining aperture settings. Once the film ASA value is set, two f-numbers appear opposite color coded marks (blue, and orange) for the selection of a suitable f-stop for

automatic operation. The scale also indicates proper combinations of f-stops and focused distances for manual operation (marked "M").



An electrical contact is provided on the foot of the model SB-7E for powering the ready-light built into the viewfinder of F2 Nikon cameras. This convenient feature permits continuous viewing without the need of moving your eye from the eyepiece to check if it is ready to fire. To prevent extra battery drain, the ready-light on the flash unit is deactivated in this case.

SPEEDLIGHT SB-5

A Professional, Multi-purpose Electronic Flash Unit



The Nikon SB-5 Speedlight Unit has many outstanding features that cover virtually all occasions associated with flash photography and that even expand the possibilities. A high-power electronic flash unit with a guide number of 32 (in meters) for ASA 100 film at the FULL setting. The light output is dispersed at a vertical angle of 48° and a horizontal angle of 67° to provide coverage sufficient for wideangle lenses up to 28mm focal length.

The SB-5 has three output power settings (FULL, 1/4 and MD) for a variety of applications.

When used at the MD setting, it synchronizes with any Nikon motor drive at up to 3.8 fps. And recycling times at MD and 1/4 settings are consistently below 1 sec.

Bounce flash, often necessary for a shadowless, natural appearance, is very easy to control with this unit, using mounting bracket SK-3.

You can control the flash head angle for the most suitable bounce flash in accordance with the subject.

The flash unit can be rotated and click stops are provided at 30° intervals. Although exposure calculation is very difficult with bounce flash, automatic flash control can be used by mounting an SU-1 unit on the camera body via the extension cord SC-9.

Use of the optical Sensor Unit which incorporates a direct series circuit with SCR provides fully automatic flash operation. In addition, the selector dial on the SU-1 offers three automatic positions, plus an 'M' (manual) position and an 'S' (slave) position. All automatic positions ensure precise control of the light output for the specific flash-to-subject distance in use. When the dial is set at the 'S' position, the SB-5 fires the modulated flash, so that you can easily accomplish inter-

ference-free slave flash photography when the receiver of Nikon Modulite Remote Control Set ML-1 is mounted on a second speedlight.



Camera: Nikon F2A
Photomic
Motor Drive: MD-2

SPEEDLIGHT SB-9

A Compact, Lightweight Electronic Flash Unit



The automatic Nikon SB-9 Speedlight Unit is especially for photographers who require compactness, light weight and ease of operation above all else.

This unit is extremely compact and slim (only 24mm) due to the use of a high-efficiency miniature flash tube, yet it provides light coverage for lenses to 35mm focal length.

The SB-9 clips directly on the standard ISO-type hot-shoe of Nikon/Nikkormat cameras and can be used with Nikon F2 cameras by adding an accessory shoe AS-1.

A convenient ready-light and flash button are provided as standard equipment.



For each ASA film speed, there are two f-numbers: one for the subject distance of 0.6 to 3.5m and the other for the distance of 0.6m to 5m. Both are color-coded to correspond with the colors of the mode selector switch.

RINGLIGHT SR-2/MACRO RINGLIGHT SM-2

Shadowless Illumination for Close-up and Macro Photography



The Nikon SR-2 Ringlight mounts to 200mm Nikkor lenses and operates at distance down to 20cm (8 in.).

The Nikon Macro Ringlight SM-2 bayonets to the rear of Nikkor lenses with focal lengths of 20mm to 135mm and can be used for macro photography and close-ups.

Both units have a light output selector which allows selection of full or 1/4 output, depending on film speed and lens aperture. And optional DC and AC power packs also used for the medical Nikkor lens are available.

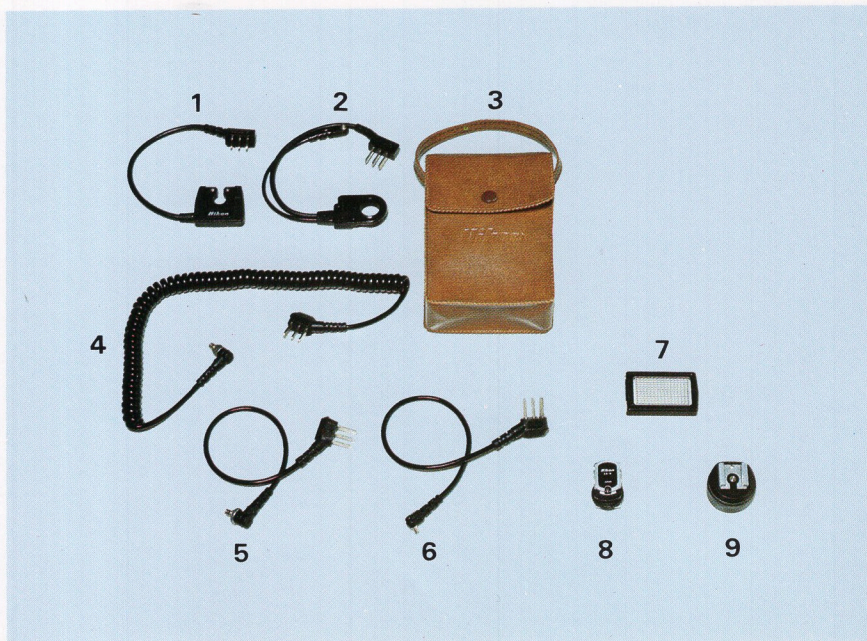
Lighting is even and diffused over the entire subject area to insure the sharpest possible results.

The SM-2 also has a button that simultaneously opens the lens diaphragm and turns on a focusing light for the precise focusing required in macro photography.

ACCESSORIES

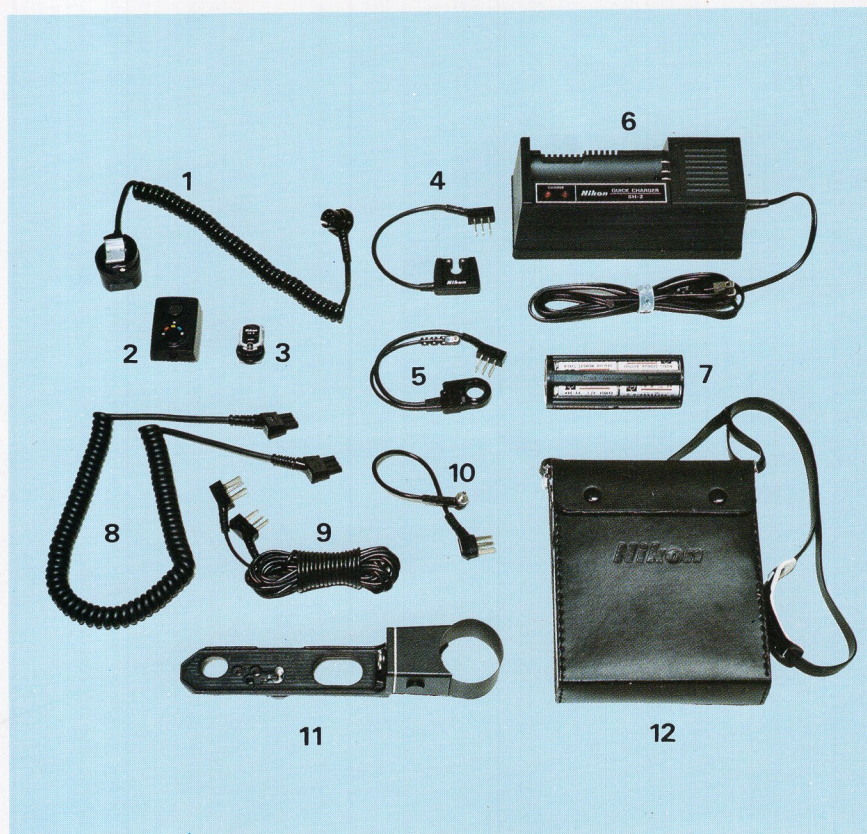
For SB-7E/SB-8E

1. **Ready-light adapter SC-4**
Permits use of the ready-light built into the viewfinders of F2 Nikon cameras when the flash unit is used off-camera.
2. **Eyepiece pilot lamp SF-1**
Fits the eyepiece of Nikon/Nikkormat cameras without a built-in ready-light in the finder eyepiece to provide ready-light indication.
3. **Soft case SS-7**
4. **Coiled sync cord SC-6**
Extends to one meter to permit off-camera flash.
5. **Sync cord SC-5**
Provides sync coupling of the flash unit to cameras not equipped with a hot-shoe.
6. **Sync cord SC-7**
Provides sync coupling of the flash unit to cameras not equipped with a hot-shoe.
7. **Wide-flash adapter SW-2**
Increases the angular coverage of the flash to provide for illumination when using a 28mm lens.
8. **Flash unit coupler AS-2**
Adapts the SB-7E to the Nikon/Nikkormat camera with ISO-type hot shoe.
9. **Flash unit coupler AS-1**
Adapts the SB-8E to F2 Nikon cameras.



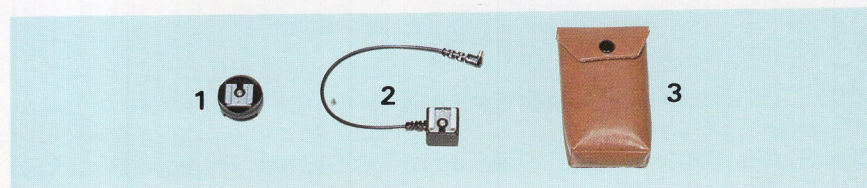
For SB-5

1. **Extension cord SC-9**
Enables automatic flash operation with the SB-5 off the camera. Permits mounting of the SU-1 on the camera's flash shoe and provides all ready-light and sync connections.
2. **Sensor Unit SU-1**
Mountable on the SB-5 or on the camera's accessory shoe (via the SC-9). Permits selection of three f/numbers in automatic as well as manual and slave operation.
3. **Flash unit coupler AS-2**
Used to connect the SC-9 to the ISO-type hot shoe.
4. **Ready-light adapter SC-4**
5. **Eyepiece pilot lamp SF-1**
6. **NC battery quick charger SH-2**
Used for recharging the SN-2 NC battery unit.
7. **NC battery unit SN-2**
Used to power the SB-5 for normal picture taking situations. Available with the SH-2 or separately.
8. **Coiled sync cord SC-6**
9. **Extension cord SE-2**
Extends to three meters to connect two flash units for multiple flash operation.
10. **Sync cord SC-5**
11. **Mounting bracket SK-3**
12. **Battery pack SD-4**
Accepts two 0160-type (240) batteries or one 0160-type battery. Useful for high-power applications.



For SB-9

1. **Flash unit coupler AS-1**
Adapts the SB-9 to F2 Nikon cameras.
2. **Sync cord SC-10**
Connects the flash unit to the camera without the hot shoe.
3. **Soft case SS-9**



SPECIFICATIONS

Flash Unit Description		SB-7E/SB-8E	SB-5	SB-9	SR-2/SM-2
Light output control	Automatic	Direct series control with SCR (Silicon Controlled Rectifier)	Direct series control with SCR using optional sensor unit SU-1	Bypass method	Impossible
	Manual	Only FULL output	Three output settings: FULL, 1/4 and MD	Impossible	FULL and 1/4
Guide number (in meters, ASA 100)		25(FULL output) 17(with SW-2)	32(FULL), 16(1/4), 11(MD)	14(FULL output)	SR-2: 16(FULL), 8(1/4) (usable at distances of more than 0.6m) SM-2: not ratable at macro distance
Angle of coverage	Horizontal	56°, 67° using SW-2	67°	56°	SR-2: 65°
	Vertical	40°, 48° using SW-2	48°	40°	
Automatic shooting range (ASA 100)		0.6–6m at f/4 (orange) 0.6–3m at f/8 (blue)	0.6–8m at f/4 (orange) 0.6–5.6m at f/5.6 (yellow) 0.6–4m at f/8 (blue)	0.6–5m at f/2.8 (green) 0.6–3.5m at f/4 (orange)	
Recycling time	Automatic (average)	** Less than 1 sec.	0.5 sec. or less * regardless of battery type	Approx. 9 sec.	
	Manual	Approx. 8 sec.	1.5–2.6 sec. (FULL), 0.5–0.4 sec. (1/4), 0.25 sec. (MD), depending on battery type	Approx. 9 sec.	Approx. 12 sec.
Number of flashes (approx.)	Automatic	Alkaline manganese batteries: 1,000**	SN-2: 420 (orange) 340 (yellow) 230 (blue) SD-4: 3,000 (orange) 2,200 (yellow) 1,500 (blue)	Alkaline manganese batteries: 200	
	Manual	Alkaline manganese batteries: 160	SN-2: 75(FULL), 270(1/4) 400(MD) * SD-4: 250(FULL), 1,800(1/4) 4,000(MD)		Alkaline manganese batteries: 600(FULL), 1,400(1/4)
Power source		Four 1.5V AA-type batteries.	Rechargeable NiCd battery unit SN-2 Battery pack SD-4 for laminated batteries	Two 1.5V AA-type batteries.	DC power unit: LD-1 AC power unit: LA-1 (Both units can be used for the medical-Nikkor 200mm f/5.6 lens)
Ready-light		Built-in ready-light/open flash button	Built-in	Built-in	Built-in
Test firing button		Serves both for ready-light and test firing	Built-in	Built-in	Built-in
Mounting		SB-7E: Nikon F2 type shoe SB-8E: ISO-type shoe	Bracket mounting (SK-3)	ISO-type shoe	SR-2: screws into 52mm threads on lenses SM-2: bayonets to rear of lenses
Dimensions		100 x 79 x 37mm (3-15/16 x 3-1/8 x 1-7/16 in) (excluding mounting foot)	93 x 252 x 125mm (3-11/16 x 9-15/16 x 4-15/16 in)	56 x 99 x 24mm (2-3/16 x 3-7/8 x 15/16 in) (excluding mounting foot)	SR-2: 140 x 106 x 25mm (5-1/2 x 4-3/16 x 1 in) SM-2: 70 x 100 x 35mm (2-3/4 x 3-15/16 x 1-3/8 in)
Weight (without batteries)		SB-7E: 300g (10.5 oz) SB-8E: 270g (9.5 oz)	900g (31.7 oz)	87g (3.0 oz)	SR-2: 200g (7.0 oz) SM-2: 185g (6.5 oz)

* When fired at a subject of average reflectivity from 2m.

** When fired at a subject of average reflectivity from 1m.

Specifications and designs shown herein are
subject to change without notice.



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