

F A S T & A C C U R A T E

N90s

Sales Manual

THE NIKON

ADVANTAGE



THE BEST FLASH SYSTEM IN THE MARKET

SPEEDLIGHT

P E R F O R M A N C E

Better pictures through expanded control of light.

Nikon first accomplished this by inventing the first multi-segment light meter for ambient light—the AMP meter which evolved into today's sophisticated 3D Matrix Meter. We also placed flash exposure under the powerful control of Nikon's Matrix Meter, a creative technique known as Matrix Balanced Fill-Flash. Then came Nikon's 3D Multi-Sensor Balanced Fill-Flash with five-segment TTL Multi-Sensor, Monitor Pre-flash and the D-Signal—all for improved precision and ability to deal with more complex lighting conditions. The N90s offers all these features; it is more advanced, more accurate and more versatile than any other camera. With the N90s, you will use flash more frequently and make more pictures—and perfectly. Another reason why more professionals who use 35mm shoot with Nikon than all other brands combined.

I. THE ULTIMATE: 3D MULTI-SENSOR BALANCED FILL-FLASH

BENEFIT

FEATURE

N90s

1 Optimum exposure results

- Beautifully blends fill-flash with ambient light
- Automatically overcomes complex exposure problems and challenges, for example:
 - a) Subjects located at the corner of the framing
 - b) Scenes that include something very close in the foreground
 - c) Subjects against distant backgrounds
 - d) Scenes that include highly reflective backgrounds
 - e) Subjects with other than unusual reflectance

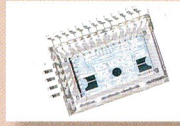
2 Flexibility for personal creativity

- Enables creative control of fill-flash effect
- The subject does not need to be at the focus sensor area

3 Instantaneous operation

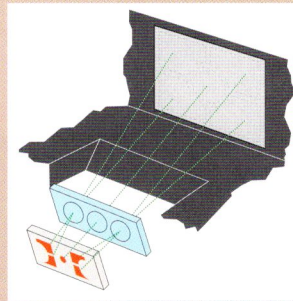
- Everything precisely performed in milliseconds
- No need for manual compensation for reflectivity

1. Exclusive 5-segment TTL multi-sensor



Nikon's pioneering TTL multi-sensor has been designed with the most logical pattern segmentation, which conforms to the classic rules of composition. The formation has been carefully designed to be able to handle more versatile composition requirements. Compared with some other systems, in which the TTL sensor is just divided into three segments (one of which is weighted according to the focus point selected), Nikon's five-segment sensor can contribute to better flash exposure results. Also, unlike systems in which the TTL multi sensor works only in the autofocus mode, Nikon's TTL Multi Sensor also works in the manual focus mode.

2. Monitor Pre-Flash and Distance Signal



Monitor Pre-flash is a high-tech simulation of the series of test flashes that professionals usually perform using a separate flash meter before actually taking flash photographs. Nikon's flash system adapts this otherwise complicated technique for practical use under virtually any picture-taking situation. The Nikon SB-26 (or SB-25) Speedlight fires a series of imperceptible pre-flashes just after the mirror goes up but before the shutter opens. Upon reaching the subject, Monitor Pre-flash returns to the camera's TTL Multi Sensor. The amount of light received by each of the Multi-Sensor's five segments is then compared with the actual amount of Pre-flash output, taking Distance Information and aperture from the D-type AF Nikkor lens in use into consideration. According to this information, the computer analyzes and decides which segments of the TTL Multi Sensor to use and what amount of main flash is necessary. For example, if some segments indicate a reflected light amount comparatively lower, the computer judges that there is a faraway background and the main subject does not belong to those areas. These segments are then ignored for the main flash output control. The computer even informs the system about the subject's reflectance. In practice, this process takes place in a split second.

3. Ambient exposure control

When the Matrix Meter is in use, the camera's computer automatically determines optimum exposure for the ambient lighting and provides balanced flash exposure to the subject. In addition to Matrix, the photographer can also select Center-Weighted Meter or Spot Meter for more personal creative control over ambient lighting. In addition, the Nikon system works in a wider EV range, including both lighting extremes.



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3D Multi-Sensor Balanced Fill-Flash



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A With 3D Multi-Sensor Balanced Fill-Flash **B** Without 3D Multi-Sensor Balanced Fill-Flash

II. VERSATILE FLASH OPERATION

BENEFIT

FEATURE

N90s

1 | Allows personal control

- Full creative freedom in controlling ambient exposure
- More accurate flash compensation control
- Fill-flash effect can be canceled, if desired

2 | Works effectively in all exposure and focusing modes

- 3D Multi-Sensor Balanced Fill-Flash works not only with most automatic mode combinations but also with *any* exposure *and* focusing mode including Manual

3 | Easy to operate

- No complicated procedures involved
- Various creative techniques can easily be combined



1. Five-segment TTL multi-sensor works with all ambient exposure light meters



The photographer has a choice of Matrix, Center-Weighted or Spot meter for ambient light reading. Exposure can be based on a specific part of the background

and the benefits of 3D Multi-Sensor Balanced Fill-Flash are fully available.

2. Automatic Balanced Fill-Flash works with any exposure control mode

Automatic Balanced Fill-Flash fully works with all the exposure control modes of P (Programmed), S (Shutter-Priority Auto), A (Aperture-Priority Auto) and Manual. It is also available when other creative options are used, including exposure compensation, all-mode exposure bracketing, and Flexible Program. This means that you get maximum creative freedom while benefiting from fully automatic flash operation.

3. Quick and accurate flash exposure compensation at all exposure modes

Normally, flash compensation is done automatically, but with the N90s, flash compensation can also be manually operated. You can manually adjust the flash exposure level in a range from -3 to +1 EV in 1/3 EV steps.

4. Turn fill-flash on/off at the press of a button

You can easily cancel Balanced Fill-Flash control, which also cancels Monitor Pre-flash, by pressing the "M" button on the accessory Nikon SB-26 Speedlight to perform standard TTL operation. To regain Balanced Fill-Flash operation, you simply press the "M" button again. There is no need for custom functions.

5. LED signal confirms Fill-Flash operation



The Nikon SB-26 Speedlight lets the photographer know if the subject may have been under exposed because it's too far away or the aperture chosen is too small. The LED indicator blinks for a few seconds after the shot is taken and the amount of underexposure is indicated in the Speedlight's back LCD panel—a feature not provided with other systems.

6. Use Slow Sync and Rear-Curtain Sync in all exposure modes



No matter which exposure mode is selected, Slow Sync and Rear-Curtain Sync can be used. Unlike some other systems, it is possible to use Slow Sync or Rear-Curtain Sync in the Programmed Auto mode. When Rear-Curtain

Sync is set in the Programmed Auto or Aperture-Priority Auto mode, the N90s automatically controls shutter speed down to as slow as 30 seconds.



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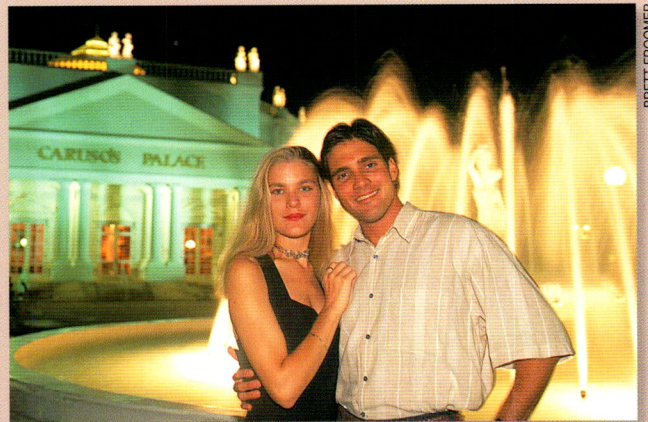
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Rear-Curtain Sync



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Slow Sync



BRETT FROOBER

3D Multi-Sensor Balanced Fill-Flash with Center-Weighted Meter



BRETT FROOBER

Rear-Curtain Sync

III. VERSATILE FLASH SYSTEM

BENEFIT

FEATURE

N90s

1 | Unequaled creativity

- Automatic flash bracketing available
- Choice of many sync modes
- Multiple flash control with TTL mode and A-mode non-TTL
- Wireless multiple flash control compatible with the main flash unit in TTL

2 | Easy control

- Logical and precise operation
- Full TTL operation available

3 | Unlimited possibilities

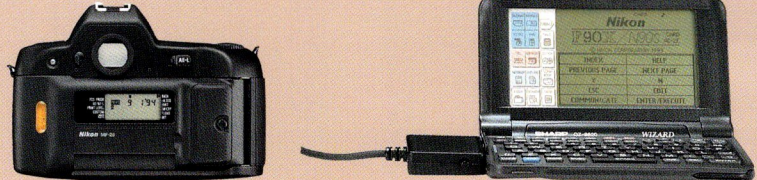
- As many “secondary” Speedlights can be used as desired
- Secondary Speedlight(s) can be positioned where conventional cord connection does not allow



Nikon SB-26 Speedlight

1. Flash bracketing—with MF-26 or unique Data Link system

Up to 19 flash exposures can be bracketed in 1/3 step intervals. Some other systems do not provide a flash bracketing feature at all. This is convenient when doing multiple flash or shooting close-ups with flash. It gives the photographer more confidence of “having the shot.”



2. Flexible choices of the slowest flash sync speed on Programmed or Aperture-Priority Auto modes—with exclusive Data Link system

Normally the flash sync speed automatically controlled is between 1/250 and 1/60 seconds on Programmed Auto or Aperture-Priority Auto, but with the Data Link system, the slowest flash sync speed can be set anywhere between 1 and 1/125 sec. The photographer can then choose the sync speed range that best meets requirements.

3. FP High-Speed Sync

With the Nikon SB-26 set at the manual FP mode, flash synchronization with high shutter speeds from 1/250 to 1/4000 sec. is possible. The user can capture Fill-Flash pictures even when using film with a high ISO rating, and still maintain wide aperture settings for expanded control of depth of field.

4. Multiple flash operation

Up to five TTL Speedlights can be controlled through the Nikon SC-18 or SC-19 sync cords. You can manage all the flash units connected TTL- controlled or non-TTL in the A (Aperture-Priority Auto Exposure)-mode. Full Manual multiple flash operation is available, of course.



SC-18/SC-19

5. Wireless multiple flash operation

“Secondary” SB-26 unit(s) can be fired even though they’re not connected to the camera by cord. In the “D” (delay) mode, the “secondary” Speedlight(s) fires 1 millisecond after the primary Speedlight (any Nikon Speedlight), thus preventing the primary Speedlight’s TTL operation from being adversely affected. There’s no limit to the number of secondary Speedlights (SB-26) that can be used.



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28 units of Nikon SB-26 Speedlight are used for this wireless multiple flash photograph



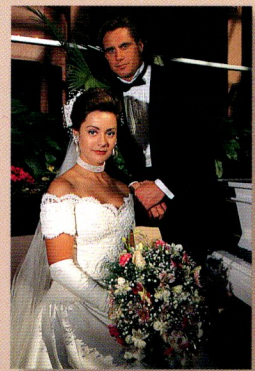
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Secondary SB-26 units are illuminating the models



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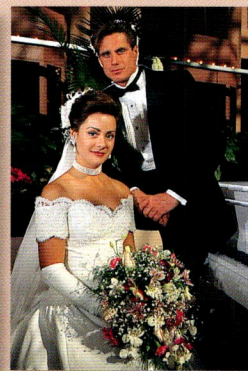
Secondary SB-26 unit is used for the background



One unit



Two units





Three units





Four units

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Speedlight Compatibility

		Multi-Sensor Balanced Fill-Flash	Standard TTL Auto	Non-TTL Auto	Manual	AF Illuminator	Slow Sync	Rear-Curtain Sync	Repeating Flash	Manual Flash Output Level Compensation	FP High-Speed Sync	Red-Eye Reduction
SB-26	Direct Mount						*					
SB-25	Direct Mount						*					
SB-24	Direct Mount						*					
SB-23	Direct Mount						*	*				
SB-22	Direct Mount						*	*				
SB-20	Direct Mount						*	*				
SB-16B	Direct Mount						*	*				
SB-15	Direct Mount						*	*				
SB-11	Via SC-23						*	*				
SB-14	Via SC-23						*	*				
SB-140	Via SC-23						*	*				
SB-21B	Direct Mount						*	*				
SB-16A	Via AS-6						*	*				
SB-21A	Via AS-6						*	*				

 Compatible

 : 3D Multi-Sensor Balanced Fill-Flash available when used with D-type AF Nikkor lenses

* Set on the camera side.



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