Nikon CREATIVE LIGHTING SYSTEM

At the heart of the image...

Control the light.
Expand the possibilities.
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The Nikon Creative Lighting System

Flexible, easy flash control for lighting indoors or outdoors
When you’re ready to differentiate your photos, Nikon Speedlights capture your imagination with limitless light sculpting potential and workhorse performance. Make subjects stand out, enhance natural and available light, and add artistry and drama to any scene. The world of light is yours to explore and control with Nikon’s Creative Lighting System (CLS), engineered and optimized specifically for your Nikon camera.

Nikon’s CLS offers a comprehensive selection of portable lighting tools to match virtually any need – from a simple on-camera bounce flash to more advanced off-camera wireless units and even a close-up speedlight system that is great for macro photography. With the world’s most intelligent and versatile lighting units, this comprehensive system offers unprecedented levels of accuracy, automation, integration and control that only Nikon can deliver.

Versatile, Powerful Flash for the Enthusiast and the Pro
The Nikon Creative Lighting System leverages cutting-edge technology in electronics, data communications, and processing algorithms providing versatile and innovative Speedlight functionality. Whether in simple on-camera use at a family gathering or in multiple wireless off-camera arrays on location, the system’s precision-engineered units operate in perfect concert with Nikon’s CLS-compatible DSLRs.

An impressive range of powerful capabilities, including the precise automatic exposure of i-TTL (intelligent-through-the-lens) metering, provide accurate, controllable light when and where it’s needed. With state-of-the-art technology, line-of-sight wireless control, Advanced Wireless Lighting using radio control – the Nikon Creative Lighting System offers photographers extraordinary new tools to accomplish a single objective: better quality flash photography.

© Joe McNally
SB-5000
Nikon’s flagship Speedlight that fully supports the next-generation Creative Lighting System

Introducing Nikon’s flagship Speedlight, a flash designed to empower the most seasoned professionals and passionate enthusiasts. The SB-5000 AF Speedlight takes Nikon’s acclaimed Creative Lighting System with Advanced Wireless Lighting (AWL) to the next level with both traditional optical wireless control and powerful new radio control. Place up to six groups of remote flashes out of view, behind obstacles—even in other rooms—up to 98 feet away. Designed for fast shooting at weddings, commercial shoots or on the red carpet, the SB-5000 AF Speedlight also introduces the world’s first hot-shoe mount flash cooling system for more than 100 consecutive shots at full output, all in a smaller design with streamlined operation. Whether building a new lighting system or integrating with your existing system, the SB-5000 AF Speedlight opens exciting new lighting possibilities. *As of January 5, 2016.
SB-5000

- Radio-controlled Advanced Wireless Lighting system realizes wireless multiple flash photography even under bright sunlight or when obstacles block optical control, for improved lighting flexibility (with D5, D850, D500 and D7500).
- Cooling system that suppresses heat generation within the flash head is incorporated, providing a greatly increased number of consecutive shots.
- Unified flash control function enables setting changes and flash operation using camera menus or a personal computer with the optional Camera Control Pro 2 software (D5, D850, D500 and D7500).
- Frequently used functions can be accessed quickly with a press of the rotary multi selector or the [i] button.
- Three illumination patterns (standard/even/center-weighted), with increased light distribution accuracy, are available to match every shooting environment.
- Automatically detects Nikon FX and Nikon DX formats and selects suitable light distribution angles.
- Hard type color correction filters (Tungsten/Fluorescent) that are superior in durability and heat resistance (supplied).
- Guide number of 113 ft. at height of about 1.2 m; varies with weather conditions and presence or absence of obstacles.
- Approximately range at height of about 1.2m versus soft weather conditions and presence of absorptive obstacles.
- Remote controls using infrared light, it is possible to release the shutter even if there are obstacles in the way, such as trees and walls. The communication distance for a combination of the WR-T10 and WR-R10 is approx. 164 ft (*1). You can control a single or multiple cameras with the WR-T10 attached using the WR-A10 as a transmitter (*2).

Smaller and easier to operate

For studio, wedding, event and action photographers, continuous shooting is the name of the game. The SB-5000 AF Speedlight can handle more than 100 consecutive firings at full output without overheating, thanks to an innovative built-in cooling system and a brilliant heat-shielding design. For TTL shooters, this means a new level of lighting control while capturing decisive moments. Great shots don’t wait for a flash to be ready, and neither should you.

SB-5000 AF Speedlight introduces powerful radio control Advanced Wireless Lighting (AWL) communication to Nikon’s innovative Creative Lighting System for exciting lighting possibilities. When used with a compatible Nikon DSLR with the WR-T10 (Wireless Remote Controller Transceiver) when attached to the D5, D850 and D500 using the WR-A10 (Wireless Remote Adapter) or the D7500***, SB-5000 AF Speedlight can control active output up to 8 groups (A/B/C/D/E/F/G) of SB-5000 Speedlight behind obstacles, around corners, in bright sunlight—even in different rooms—up to 98 feet away. Of course, the SB-5000 AF Speedlight also integrates seamlessly with Nikon’s optical wireless Speedlights and D500s.

***D7500 has 2 Groups of radio controlled Speedlights

Radio controlled communication

The SB-5000 AF Speedlight also integrates seamlessly with Nikon’s optical wireless Speedlights and D500s.

WR-R10/WR-A10/WR-T10

WR-T10/WR-R10 Wireless Remote Controllers Remote Triggering

WR-R10/WR-T10 Wireless Remote Controllers expand the flexibility of remote flash photography. Unlike remote controls using infrared light, it is possible to release the shutter even if there are obstacles in the way, such as trees and walls. The communication distance for a combination of the WR-T10 and WR-R10 is approx. 164 ft (*1). You can control a single or multiple cameras with the WR-T10 attached using the WR-A10 as a transmitter (*2).

Remote Flash

WR-A10 Wireless Remote Adapter is required for attaching WR-T10 to DSLR camera with a ten-pin remote terminal. Also, WR-T10 can be used as a commander (*3) of Radio-Control Advanced Wireless Lighting when used with D5, D850, D500 and SB-500.

Compatible with D5, D4 series, D750, D700, D610, D810, D850, D810A, D7500, D7200, D7100, D7500, D7200, D7100, D6100, D5900, D5600, D5500, D5300, D5200, D3300, D3200, COOLPIX A **

** Approximate range at height of about 1.2m versus soft weather conditions and presence of absorptive obstacles.

***D7500 has 2 Groups of radio controlled Speedlights

Lighting Diagram: Garage Warehouse

Speedlight: SB-5000

Camera: D5

Quantity: 17 Speedlights

Communication: WR-T10 / WR-A10 Wireless Remote Controller

Light Modifier: 3M TAH Diffusion Dome (supplied)

Umbrella, Soft Boxes, CTO Gel, Fog Machine

Groups:

- **Group A**
  - 2X SB-5000
  - 1X SB-5000

- **Group B**
  - 1X SB-5000

- **Group C**
  - 2X SB-5000

- **Group D**
  - 1X SB-5000

- **Group E**
  - 2X SB-5000

- **Group F**
  - 1X SB-5000

SB-5000 Tether Mode

SW-15H Diffusion Dome (supplied)

Wireless Remote Controller WR-R10

Wireless Remote Adaptor WR-A10

Wireless Flash Remote Transmitter WR-T10

Wireless Flash Remote (optional, sold separately)

Wireless Remote Transmitter WR-T10 (optional, sold separately)

Wireless Remote Controller WR-R10 (optional, sold separately)

Wireless Remote Transmitter WR-T10 (optional, sold separately)
FINAL IMAGE WITH DIRECT LIGHT ADDED TO ALL OTHERS
SPEEDLIGHT: SB-5000 (Radio Control Wireless using all three SB-5000s)
CAMERA: D7500 (In commander mode)
COMMUNICATION: WR-R10 WIRELESS REMOTE

- FOREGROUND LIGHT
- BACKGROUND LIGHT
- ACCENT / RIM LIGHT
SB-700
High-performance versatile Speedlight brings simplicity to on-camera, remote and multiple flash photography

The i-TTL-optimized SB-700 AF Speedlight offers the perfect balance of exposure, performance and portability for any photographer on the go. Its flexible flash head provides creative lighting freedom for nearly any subject. Achieve brilliant results and seamless lighting system integration with hot-shoe operation or wirelessly as a master, commander or remote light source.
SB-700

- Functions as a master or remote flash unit in Advanced Wireless Lighting
- Controls an unlimited number of Speedlights for up to two groups
- Offers four independent channels of wireless control up to 32.8 ft for competitive shooting environments
- Quick wireless control mode allows for fast and convenient flash output for two remote flash units
- LCD and layout of controls designed for easy and intuitive operation
- Power zoom covers wide 24-120mm zoom range (Manual also available)
- Three illumination patterns (standard/even/center-weighted) are available
- Automatically detects Nikon FX and DX formats for suitable light distribution
- AF-assist illumination, compatible with multi-point AF system, covers wide 24-135mm focal length range

Nikon’s precision i-TTL Flash control
Optimized for use with Nikon’s Creative Lighting System (CLS), the SB-700 AF Speedlight is equipped with Nikon’s precision i-TTL (Intelligent Through-The-Lens) flash control to deliver precise flash exposures and seamless fill-flash performance—even in challenging lighting situations. Immediately before the main flash goes off, the SB-700 AF Speedlight fires a series of monitor pre-flashes, which convey information about the scene’s lighting to the camera. i-TTL then automatically balances the output of the Speedlight and the scene’s ambient light.

Wireless commander mode
The SB-700 offers wireless Commander Mode to allow you complete control over compatible Creative Lighting System (CLS) products using line-of-sight wireless technology. The SB-700 AF Speedlight controls up to 2 remote Speedlight groups and an unlimited number of compatible Speedlights. When used as a remote Speedlight, up to 3 groups can be selected. Four wireless channel options help manage wireless conflicts in multi-photographer environments.

Compatible with D5, D4 series, D3, D810/D810A, D750, D610/D600, D800, D7000, D5000, D4000, D3000, COOLPIX A.
**SPEEDLIGHT:** SB-700 as a remote Speedlight  
**CAMERA:** D7500 (in commander mode)  
**COMMUNICATION:** LINE OF SIGHT

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**SPEEDLIGHT:** Two SB-700 Speedlights (foreground and background) as remote Speedlights  
**CAMERA:** D7500 (in commander mode)  
**COMMUNICATION:** LINE OF SIGHT

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**foreground light**  
D7500  
SB-700

Bounce flash above model

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**foreground & background light**  
D7500  
SB-700

Bounce flash above model  
Lighting wall behind model
Speedlights were used to light this image, 18 SB-5000 units, of which were controlled by radio, which is the max for radio control. The others were a mix of SB-5000 and SB-910 units triggered off of the radio units, set as line of site remote flash units.

© Joe McNally
SB-500
Versatile Speedlight with high mobility and flexibility

As you master your camera, you begin to look at lighting in an entirely new way. No longer is proper exposure your only goal—now you can use shadows and brightness to add a sense of depth, an artistic characteristic to your photos and HD videos. A first for Nikon Speedlights, the SB-500 AF Speedlight is a compact, lightweight i-TTL Speedlight and LED video light that gives you total control of the light around you. Whether you’re looking for extra illumination during HD video recording, a wireless off-camera flash to use along with your camera’s built-in commander mode or just an advanced and versatile—yet simple to use—Nikon Speedlight, the SB-500 AF Speedlight is a bright idea.

• Compatible with Advanced Wireless Lighting
• Flash head tilts up to 90° and rotates horizontally 180° to the left and right
• Guide number of 78.7 ft. at ISO 100
• High-performance LED light (approx. 100 lux) is incorporated
  – Particularly convenient for movie recording and close-up still shooting
  – Output level selectable in three steps (Low, Mid, High)
  – Illumination with surface light source utilizing a diffuser for soft lighting
  – With the color temperature of 5400°K, natural auxiliary light is ensured
  – Color information communication function automatically sets the optimal white balance when attached to the D810 or D750
  – Superior color rendering performance for faithful reproduction of subject’s color
• Compatible with readily available R6/AA-size batteries
Compatible with D5, D4 series, Df, D850, D810/D810A, D750, D700, D600/D610, D500, D7200, D7100, D5600, D5500, D5300, D5200, D3400, D3300, D3200, COOLPIX A

© Mattia Bonavida
SB-300
Compact and lightweight Speedlight with bounce flash capability

- Compact and lightweight design for great portability
- Easy operation even for novices
- Flash head can be tilted up to 120° upward for beautiful indoor portraits
- Compatible with readily available AAA-size batteries

Compatible with:
D5, D4 series, Df, D850, D810/D810A, D750, D7500, D500, D7000, D610/D600, D500, D5100, D5200, D5600, D5500, D5300, D5200, D3400, D3300, D3200, COOLPIX A

The right lighting can transform an everyday shot into an extraordinary memory. Even if your camera has a pop-up flash, an external Speedlight provides capabilities and control that every shooter can appreciate—so much more than simply illuminating a dimly lit scene. The compact, lightweight SB-300 AF Speedlight makes it easier than ever to harness the power of a Nikon Speedlight. With its simple operation, excellent performance and approachable price tag, the SB-300 AF Speedlight belongs in the camera bag of every DSLR owner. Take control of the lighting around you.
R1C1/R1
Close-up Speedlight Kit

The ultimate Speedlight system for creative, wireless close-up photography

R1C1: Close-up Speedlight Commander Kit (SU-800, two SB-R200s and all the accessories)
R1: Close-up Speedlight Remote Kit (Two SB-R200s and all the accessories)

- Up to three remote groups and four channels using SU-800 as a commander and SB-R200s as remote units can be arranged to enable creative lighting from the left, right, above or below your subject
- Settings are easily made and confirmed on the SU-800's LCD panel from the camera's position
- SB-R200 units can be tilted up to 60 degrees to accommodate lenses with short working distances

* There are limitations to usable lenses.

Portable and flexible close-up lighting control

Nikon's R1 Wireless Close-Up Speedlight System allows superb close-up lighting control with exceptional flexibility. It's innovative options such as the ability to incorporate up to three remote groups, four independent channels for competitive wireless environments, 60-degree tilt control and flash compensation allow you to produce exceptionally lit close-up photography without worry.

Producing desired close-up lighting effects is straightforward and uncomplicated with the flexible control of the Nikon R1 system. The system works as a unit with Nikon i-TTL DSLRs that have built-in Speedlights with Commander mode. It comes supplied with two SB-R200 Speedlights, but the SX-1 master attachment ring accommodates up to eight SB-R200s (off-camera) and up to four (on camera).

Experience complete lighting freedom with the R1 Wireless Close-Up Speedlight System. Three remote groups (A, B, and C) are available on the SB-R200. SB-R200 Wireless Remote Speedlights can be tilted up to 60 degrees to accommodate lenses with short working distances. SB-5000, SB-910, SB-900, SB-800, SB-700, SB-600 or SB-500 Speedlights can be combined and controlled for additional creative lighting effects.

Complete close-up lighting control

The R1C1 Wireless Close-Up Speedlight System is an exceptional tool for those wishing to dramatically improve the quality of their close-range photography. The system enables superb close-up lighting control with exceptional flexibility and innovative options when used with the Nikon Creative Lighting System or compatible DSLRs without a built-in flash.

Nikon's premiere close-up flash system

Nikon's R1C1 Wireless Close-Up Speedlight System lets you get the most out of close-up, macro and general flash photography by providing flexible, even light to your subjects with the convenience of wireless control. The system includes two SB-R200 Speedlights and the SU-800 Wireless Speedlight Commander to provide additional functionality with SB-5000, SB-910, SB-900, SB-800, SB-700, SB-600 or SB-500 Speedlights.
Precision lighting control

The extremely compact and portable SU-800 Wireless Speedlight Commander offers highly flexible control over the SB-5000, SB-910, SB-900, SB-800, SB-700, SB-600, SB-500 or SB-R200 Speedlight units. It functions as a wireless commander for compatible Nikon DSLRs without a built-in Commander mode and meets the demands of all of your remote lighting needs.

Complete lighting control center

The SU-800 Wireless Speedlight Commander provides wireless control of up to 66 feet for an unlimited number of Speedlights for up to three groups. The lighting system you design is only limited by your creativity.

Control in any environment

To ensure precise control of your specific lighting system, the SU-800 Wireless Speedlight Commander offers 4 independent channels for competitive shooting environments to prevent any potential signal confusion. It’s built-in AF assist illuminator helps you attain critical focus in low-light situations. So whether you’re shooting bugs in your backyard or supermodels in the studio, the SU-800 provides reliable, consistent, remarkable lighting for any subject you desire.

Also available as a separate unit

Placed atop your Nikon DSLR’s hot-shoe, the SU-800 acts as a commander for as many Speedlights as you desire. Compatible with D5, D4 series, D7500, D7200, D7100, D5600, D5500, D5300, D5200, D3400, D3300, D3200, COOLPIX A

Accurate exposure for close-up shooting

Close-up, portrait and macro photographers will love the SB-200’s ability to project the correct amount of light on their subjects without leaving images looking washed-out or overexposed. Thanks to Nikon’s i-TTL flash control along with its built-in target light and AF Illuminator, the SB-R200 allows for proper positioning of the Speedlight in relation to the subject, as well as autofocus operation in low-light situations, to always ensure brilliantly lit images.

Seamless lighting system integration

The SB-R200 makes an excellent light source, both on its own through hot-shoe connectivity, or as part of a complete lighting system. It can be set to one of three Speedlight groups and integrates perfectly into multiple flash situations including the SB-5000, SB-910, SB-900, SB-800, SB-700, SB-600, or SB-500 Speedlight units. The SB-R200 also offers four independent channels for shooting in competitive environments.

Also available as a separate unit

Two SB-R200 units are included with both the R1C1 and the R1. Each unit features a guide number of 33 ft. at ISO 100 to 46 ft. at ISO 200. 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. Compatible with D5, D4 series, D1, D850, D810/D810A, D750, D610/D600, D500, D7500, D7200, D7100, D5600, D5500, D5300, D5200, D3400, D3300, D3200, COOLPIX A

SB-R200

Wireless Remote Speedlight

Creative, flexible lighting

The compact and lightweight SB-R200 Wireless Remote Speedlight unit is perfect for close-up and general photography. It supports the Nikon Creative Lighting System (CLS) and compatible CLS cameras. The SB-R200’s easy-to-set analog controls offer quick setting changes for the photographer on the move.

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Close-up, portrait and macro photographers will love the SB-200’s ability to project the correct amount of light on their subjects without leaving images looking washed-out or overexposed. Thanks to Nikon’s i-TTL flash control along with its built-in target light and AF Illuminator, the SB-R200 allows for proper positioning of the Speedlight in relation to the subject, as well as autofocus operation in low-light situations, to always ensure brilliantly lit images.

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SU-800

Wireless Speedlight Commander

Precision lighting control

The extremely compact and portable SU-800 Wireless Speedlight Commander offers highly flexible control over the SB-5000, SB-910, SB-900, SB-800, SB-700, SB-600, SB-500 or SB-R200 Speedlight units. It functions as a wireless commander for compatible Nikon DSLRs without a built-in Commander mode and meets the demands of all of your remote lighting needs.

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Also available as a separate unit

Placed atop your Nikon DSLR’s hot-shoe, the SU-800 acts as a commander for as many Speedlights as you desire. Compatible with D5, D4 series, D1, D850, D810/D810A, D750, D700, D610/D600, D500, D7500, D7200, D7100, D5600, D5500, D5300, D5200, D3400, D3300, D3200, COOLPIX A
A variety of advanced features achieved via a combination of Speedlights and CLS-compatible cameras remarkably expands the possibilities of flash photography. CLS is Nikon’s original flash system that utilizes optimized data communication between Speedlights and cameras.

**Nikon Creative Lighting System (CLS)**

CLS is composed of versatile functions as shown below. (Available functions differ depending on the combination of Speedlights and cameras.)

- **Funct ions that support camera functions during flash photography**
  - **Unified flash control**
  - **Flash Value (FV) lock**
  - **Advanced Wireless Lighting**
    - Radio-controlled
    - Optically-controlled
  - **AF-assist illumination for multi-point AF**
  - **i-TTL flash control**
  - **Auto FP high-speed sync**
  - **Flash color information communication**
    - [Flash]
    - [LED light]
  - **Modeling illumination**
  - **Auto FP, high-speed sync**
  - **Functions that support camera functions during flash photography**

**Major Features of the Nikon Creative Lighting System**

**Advanced Wireless Lighting**

Wireless multiple flash photography is made possible with multiple Speedlights. Speedlights’ positions and flash settings can be adjusted to employ various lighting choices. There are two control systems: Radio-controlled and optically-controlled.

- **Radio-controlled**
  - Attaching the WR-R10 Wireless Remote Controller to a compatible camera (D5, D850, D500, D7500), remote Speedlights (SB-5000 only) can be controlled via radio waves. WR-R10 Wireless Remote Adapter is required for the D5, D850 and D500.
  - Optically-controlled: SB-5000, SB-910, SB-900, SB-800, SB-700, SB-900 Speedlights can be controlled via firing from a master flash.

- **Optically-controlled**
  - CLS-compatible cameras: FX-format/DX-format
  - Nikon digital SLR cameras (except D1 series and COOLPIX
  - COOLPIX cameras compatible with i-TTL flash control.

**i-TTL flash control**

A camera sensor meters reflected light from subjects via monitor pre-flashes before the main flash, then analyzes the information and adjusts the flash output. The number of monitor pre-flashes and its amount are optimized for more precise flash output adjustment. When a G-type lens is attached, the distance information from the subjects is applied to determine the most appropriate output.

- **i-TTL balanced fill flash**
  - Balances the brightness of main subjects and background to optimize flash output. Main subjects can be exposed correctly with natural brightness, against the background ambient light.

- **Standard i-TTL flash**
  - Adjusts flash output to apply an appropriate amount of light to main subjects. Ideal for emphasizing the background ambient light.

**Flash color information communication**

• **LED light**: Color temperature information from compatible Speedlight’s light conditions.
• **Flash**: Information on color temperature and white balance according to the flash or the compatible Speedlight’s light conditions.
• **Flash**: Information on color temperature and color filters is transmitted to the camera.
• **LED light**: Color temperature information from the SB-5000 LED light is transmitted to the camera.

**Auto FP, high-speed sync**

For i-TTL flash control and manual flash control, flash photography using a shutter speed faster than the camera’s own sync speed is enabled. This function automatically activates when the shutter speed exceeds the normal flash sync speed.

**AF-assist illumination for multi-point AF**

When it is difficult to focus on a subject in low light, this function projects AF-assist illumination compatible with multi-area AF and multi-point AF of the camera to achieve autofocus.

**Unified flash control**

This function can share various flash settings with SB-5000 Speedlights and D5, D850, D500 and D7500 cameras. Speedlight settings can be adjusted using a camera or Camera Control Pro 2 (optional). Settings executed on Speedlights are reflected on the camera and Camera Control Pro 2.
Radio-controlled Advanced Wireless Lighting

With the WR-R10 Wireless Remote Controller attached to the camera (D5, D850, D500, D7500) as a commander, radio-controlled Advanced Wireless Lighting is available by locating remote flashes more flexibly than with an optically-controlled system, even when they’re out of view, behind obstacles or in bright ambient light.

• WR-A10 Wireless Remote Adapter is required when attaching WR-R10 to the D5, D850 and D500.
• Only the SB-5000 can be used as remote flashes.
• Up to six groups (if using 18 units) can be set as remote flash units.
• Wireless multiple flash photography without using a master flash is also possible.

Optically-controlled Advanced Wireless Lighting

Wireless multiple flash photography with an optically-controlled system is enabled with the CLS-compatible cameras except D500, D7500 and Speedlights. Also, a built-in flash with commander function can be used.

• Up to three groups (A, B, C) of remote flashes can be set. There is no limit to the number of remote units in each group, however, up to three for each group is recommended.

Simultaneous use of optically-controlled and radio-controlled systems

With D5, D850, D500

Optically-controlled system with a master flash (except SB-500E) attached to the camera and radio-controlled system with the WR-R10 can be used simultaneously.

• Remote flashes of groups A, B and C are optically controlled, while those of groups D, E and F are radio-controlled.
• SB-500E cannot be used as a master flash in the optically-controlled system.
• Only the SB-5000 can be used as a remote flash in the radio-controlled system

With D7500

Using the built-in flash of the D7500 as a commander, optically-controlled Advanced Wireless Lighting is available for up to two groups of remote units. When used in conjunction with Nikon’s WR-R10 Wireless Remote Controller, the built-in flash can also control up to three groups of optional SB-500 Speedlights simultaneously via radio. Advanced Wireless Lighting using both optical and radio control at the same time is also possible.

*SB-500, SB-910, SB-800, SB-850, SB-700, SB-600, SB-500 and SB-R300 (all optional).

Other Functions of Speedlights

Standard TTL flash
A camera meters reflected light of the main flash through the lens, then adjusts the flash output level so that the subject is correctly exposed.

Non-TTL auto flash
Reflected light of the main flash is detected by the flash sensor in the Speedlight and controlled for appropriate exposure.

Auto power zoom function
This feature allows the angle of illumination to be automatically adjusted as the lens is zoomed in or out.

Distance-priority manual flash
Once the shooting distance is set, the Speedlight automatically controls the flash output according to the aperture set. You can take pictures while retaining the same flash exposure even with different apertures.

Red-eye reduction
A process that removes “red-eye” caused by light reflecting from the camera taken with the flash. It works “pre-flashes” several times before the main flash, to make the subjects’ pupils contract for reducing red-eye. (Available with a camera featuring red-eye reduction model)

Repeating flash
Flash fires repeatedly during a single exposure to create a stroboscopic multiple exposure effect.

Bounce flash
When the flash head is tilted to bounce flash position, you can bounce the flash off the ceiling or a wall to soften shadows and produce a more natural-looking picture.
Speedlight Compatibility

| Speedlights | Nikon Creative Lighting System | Nikon Creative Lighting System
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Available functions with a combination of Speedlights and CLS-compatible cameras

- *1 Available with D500, D5600, D5500, D5300, D5200, D3400, D3300, D3200 when attached to a CPU lens.
- *2 Commander function not available with built-in flash of D5600, D5500, D5300, D5200, D3300, D3200.
- *3 When using SU-800, SB-5000 or SB-700 with AF-assist illumination for multi-point AF.
- *4 Available only when used with D5, D4S, D4, D810, D810A, D750, D700, D610, D600, D500, D7200, D7100, D7500, D7000, D5600, D5500, D5300, D3400, D3300, D3200.
- *5 With D3400, Non-TTL auto flash is available when attached to a lens other than E and G type.

Optically-controlled system

- *4 Available only with D5, D4S, D4, D810, D810A, D750, D700, D610, D600.

Simultaneous use of optically-controlled and radio-controlled systems

- *5 Available only when used with D5, D4S, D4, D810, D810A, D750, D700, D610, D600.

Combination of camera and Speedlights with Advanced Wireless Lighting

- *6 WR-R10i is available.

Radio-controlled system

- *7 When remote flash photography with two commander flash units is used, set commander flash units to channel A or B.
- *8 With D5, D4S, D4, D810, D810A, D750, D700, D610, D600, Group A and Channel 1-4 can be set in commander mode.

Glossary

- **Advanced Wireless Lighting**: Allows remote flashes to operate independently of the main camera to control up to 128 remote flashes.
- **Radio-controlled**: Remote flash photography is available without a commander flash unit.
- **Optically-controlled**: Remote flash photography is available when a commander flash is used.
- **SB-910/SB-900**: These indicate support for 4 groups (A-F) and 12 channels (1-12).
- **SB-5000**: Indicates support for 3 groups (A-C) and 4 channels (1-4).
## Speedlights

### SB-5000
- Guide number: 113 ft. at 35mm zoom head position, 130 ft. at 200mm zoom head position (FX format, standard illumination pattern) at ISO 100, 23°C
- Angle of illumination: Power zoom 24 to 200mm, 14mm with wide panel
- Illumination pattern: 3 illumination patterns (standard/even/center-weighted)
- Flash mode: i-TTL, Auto aperture flash, Non-TTL auto flash, Distance-priority manual flash, Manual flash, Repeating flash
- Other available functions: Test firing, monitor pre-flashes, AF-assist illumination for multi-point AF, and modelling illumination
- Minimum recycling time: Approx. 1.8 seconds (with Ni-MH batteries)
- Number of flashes: Approx. 150 (with alkaline batteries)
- Power source: Four R6/AA-size batteries; SD-9 High-Performance Battery Pack
- Other features: ISO sensitivity manual setting, redisplay of amount of underexposure due to insufficient flash output in i-TTL mode, reset to the default settings, key lock, thermal cut-out, firmware update
- Dimensions (W x H x D): Approx. 73.0 x 137.0 x 103.5 mm
- Weight (without batteries): Approx. 450 g

### SB-700
- Guide number: 180 ft. at 35mm zoom head position, 20°C. To 128 ft. at ISO 200, 35mm zoom head position, in FX format, standard illumination pattern, 20°C
- Angle of illumination: Power zoom 24 to 120mm, 12mm with built-in wide-flash adapter
- Illumination pattern: 3 illumination patterns (standard/even/center-weighted)
- Flash mode: i-TTL, Distance-priority manual, Manual, Repeating flash
- Other available functions: Test firing, monitor pre-flashes, AF-assist illumination for multi-point AF, and modelling illumination
- Minimum recycling time: Approx. 2.5 seconds (with Ni-MH batteries)
- Number of flashes: Approx. 100 (with alkaline batteries)
- Power source: Four R6/AA-size batteries
- Other features: ISO sensitivity manual setting, redisplay of amount of underexposure due to insufficient flash output in i-TTL mode, reset to the default settings, key lock, thermal cut-out, firmware update
- Dimensions (W x H x D): Approx. 71.0 x 114.5 x 70.8 mm
- Weight (without batteries): Approx. 360 g

### SB-500
- Guide number: 76ft. at ISO 100
- Angle of illumination: Power zoom 24 to 120mm, 12mm with built-in wide-flash adapter
- Illumination pattern: 3 illumination patterns (standard/even/center-weighted)
- Flash mode: i-TTL, Distance-priority manual, Manual, Repeating flash
- Other available functions: Test firing, monitor pre-flashes, AF-assist illumination for multi-point AF, and modelling illumination
- Minimum recycling time: Approx. 2.5 seconds (with Ni-MH batteries)
- Number of flashes: Approx. 100 (with alkaline batteries)
- Power source: Two R6/AA-size batteries
- Other features: ISO sensitivity manual setting, redisplay of amount of underexposure due to insufficient flash output in i-TTL mode, reset to the default settings, key lock, thermal cut-out, firmware update
- Dimensions (W x H x D): Approx. 67.0 x 104.5 x 62.3 mm
- Weight (without batteries): Approx. 226 g

### SB-300
- Guide number: 38ft. at ISO 100
- Angle of illumination: Power zoom 24 to 120mm, 12mm with built-in wide-flash adapter
- Illumination pattern: 3 illumination patterns (standard/even/center-weighted)
- Flash mode: i-TTL, Distance-priority manual, Manual, Repeating flash
- Other available functions: Test firing, monitor pre-flashes, AF-assist illumination for multi-point AF, and modelling illumination
- Minimum recycling time: Approx. 3.5 seconds (with Ni-MH batteries)
- Number of flashes: Approx. 100 (with alkaline batteries)
- Power source: Two AAA-size batteries
- Other features: ISO sensitivity manual setting, redisplay of amount of underexposure due to insufficient flash output in i-TTL mode, reset to the default settings, key lock, thermal cut-out, firmware update
- Dimensions (W x H x D): Approx. 57.4 x 65.4 x 62.3 mm
- Weight (without batteries): Approx. 97 g

*1 When used as a remote unit
*2 Firmware can be updated from camera.
Nikon CREATIVE LIGHTING SYSTEM

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