Fast Track To Advanced Wireless Lighting

SB-5000 SPEEDLIGHT
EXPANDING THE REACH OF CREATIVE LIGHTING

Introducing Nikon’s new 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 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.

Advanced Wireless Lighting

• With the SB-5000, wireless multiple flash-unit photography using optical control (line-of-sight) or radio control is possible.
• With radio control, only D5 and D500 are compatible. (See reference chart for complete compatibility).
• In optical (line of sight) wireless multiple flash-unit photography, the Speedlight attached to a camera is the master flash unit. Other compatible Speedlights function as remote flash units.

*As of July 31, 2016

SB-5000 is a high-performance Speedlight compatible with Nikon (FX/DX) CLS (Creative Lighting System) cameras. For complete instructions to using the SB-5000 Speedlight, please refer to the supplied User Manual.
SB-5000 Wireless Multiple Flash Unit Photography Using Radio or Optical Control

DS and D500: the Wireless Remote Controller WR-R10 and the WR-A10 adapter (both optional) are required for wireless multiple flash-unit photography using radio control. For details, see the respective product user’s manuals.

For radio control, only the SB-5000 can be used as a remote flash unit.

- Up to 6 groups of remote flash units (A, B, C, D, E, F) can be set up, but only 2 groups of remote flash units (A, B) can be set with quick wireless control.
- Single or multiple remote flash units can be allocated for each group.
- The master flash unit and each remote flash unit group can operate with a flash compensation value that is different to the other flash units or groups. In group flash mode, they can also operate with different flash modes.
- SB-5000 can be used as a Master (Commander) or Remote unit for wireless optical control. For complete compatibility, please refer to the SB–5000 user’s manual.
**Radio Control**

**Step 1 - Set Flash Control for CMD Wireless Flash Options Radio AWL**

1. Photo shooting menu, select flash control CMD.
2. Using the multi selector ▶️ press to the right, Wireless Flash Options.
3. Using the multi-selector ▶️ press to the right, select RADIO AWL.

**Step 2 - Setting the Channel**

1. Check the channel set on the WR-R10
   - For details about WR-R10 settings, see the WR-R10 user’s manual.
2. Choose [CHANNEL] from the wireless item menu.
3. Press the multi-selector ▲▼ to choose the same channel as the WR-R10, and then press the OK button.

**Step 3 - Setting the Link Mode**

1. Check the link mode set on the camera with the WR-R10 attached
   - For details about how to check the link mode, see the camera user’s manual.
2. Choose [LINK MODE] from the wireless item menu.
3. Press the multi-selector ▲▼ to choose the same link mode as the camera with the WR-R10 attached, and then press the OK button.

**Step 4 - Setting the Link**

1. When link mode is set to pairing
   - Choose [PAIR] from the wireless item menu
   - Check that [EXECUTE] is highlighted, and then press the OK button while pressing the pairing button on the WR-R10 attached to the camera.
   - An execution indicator appears on the LCD and the LINK indicator flashes slowly in green and orange while pairing.
   - The LINK indicator flashes slowly in green if the device to be paired cannot be found while pairing.

2. Check that Pairing has succeeded
   - When pairing succeeds, a completion indicator appears on the LCD and the LINK indicator lights up green.
   - When pairing fails, an error indicator appears on the LCD and the LINK indicator flashes slowly in orange. Check the channel and link mode setting and try again.
   - For details about WR-R10 settings, see the WR-R10 user’s manual.
   - To complete set-up see next page.

**Pairing:**

- Once the SB-5000 and the WR-R10 are paired, it is not necessary to pair them again.
- To use multiple SB-5000 units, each unit must be paired with the WR-R10.
- When another WR-R10 is attached to the camera, re-execute pairing with it.
- Pin Code Pairing: You can set a unique PIN code on each Speedlight. See page D-14 of the SB-5000 User’s Guide for setting and using a PIN code.
Setting a Radio Control Remote Flash Unit

**Step 1 - Remote Flash Unit Setting**

1. Set the power switch to REMOTE
2. Press the multi-selector ▲ to highlight the group, ▼ rotate the rotary multi-selector to choose a group, and then press the ok button.
   - Alternatively, press the rotary multi selector ◀ to choose a group.
3. Press the rotary multi-selector ▼ to highlight the channel
   ▼ rotate the rotary multi-selector to choose a channel, and then press the OK button.
   - Alternatively, press the multi-selector ◀ ▼ to choose a channel.

**With radio control**
- Be sure to choose the same channel number as set on the WR-R10.

**With optical control**
- Be sure to choose the same channel number as set on the master flash unit.

**Step 2 - Flash Control Menu Settings on the Camera**

1. Press the center multi-selector and highlight Flash control CMD §
2. Press the multi-selector ▼ to Remote flash control and highlight GRP § Group flash
3. Press the multi-selector ▼ and highlight Group flash options
4. Press the multi-selector ◀ ▼ to choose the Group that you set on the SB-5000 and choose the Mode by highlighting the Mode option for the selected group and using the ◀ ▼ choose the Group flash options.

**Time Saving Tips**

One Button Access to the Flash Control Menus when using D5 or D500

**D500 User’s Manual:**

1. Go to MY MENU options (page 313) and add Flash Control from the Photo Shooting menu (page 283) and move it to the top item in MY MENU.
2. From the Controls menu located in the Custom Settings Menu (page 305): Choose the roles assigned to camera controls, either alone or in combination with the command dials.
3. Select one of the following options: Preview Button or Fn1 or Fn2 Buttons.

From the options: Select “Access top menu item in MY MENU option”.
When using SB-910 in its Radio Control mode — every time that you press the button assigned, the Flash Control Menu will appear, making it quicker to select the flash options for each Speedlight.

**D5 User’s Manual:**

1. Go to MY MENU options (page 314) and add Group Flash Options from Flash Control located in the Photo Shooting menu (page 289) and move it to the top item in MY MENU.
2. From the Controls menu located in the Custom Settings Menu: Choose the roles assigned to camera controls, either alone or in combination with the command dials.
3. Select the option of Preview Button or Fn1 or Fn2 From the options: Select Access top menu item in MY MENU option.

When using SB-5000 in its Radio Control mode — every time that you press the button assigned, the Flash Control Menu will appear, making it quicker to select the flash options for each Speedlight.
ADVANCED WIRELESS LIGHTING

Optical Control

Setting the Master Flash Unit: Optical Control (Line-of-sight) with D5, D500, D4 series, D800 series, D750, D610, Df, D7200

The following combinations enable group flash using optical control and radio control concurrently.

Master flash unit (Optical Control) (other than the SB-5000)
Remote flash units

Optical control with Speedlight other than the SB-5000

Radio control with camera

WR-R10 / WR-A10 attached to camera

Remote flash units

Important NOTE:
The SB-5000 cannot be used as the master flash unit when using optical control and radio control concurrently.

Remote flash unit groups A, B and C (Optical Control)
Up to 3 groups of remote flash units (A, B, C) can be set up for optical control.
Choose optical control remote mode when using the SB-5000 as remote flash unit in groups A, B and C.
SB-900 series, SB-800, SB-700, SB-600, SB-500 can be used as a optical remote.

Remote flash unit groups D, E and F (Radio Control)
Up to 3 groups of remote flash units (D, E, F) can be set up for radio control.
Camera with the WR-R10/WR-A10 attached controls the flash function.

Optical & Radio Control Concurrently

Using Optical Control and Radio Control Concurrently

Control type information

<table>
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<tr>
<th>Option</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOTE</td>
<td>Optical control remote mode</td>
</tr>
<tr>
<td>REMOTE/DIRECT</td>
<td>Direct remote mode</td>
</tr>
<tr>
<td>REMOTE/Radio</td>
<td>Radio control remote mode</td>
</tr>
</tbody>
</table>

Setting a Remote Flash Unit in an Optical Control (Line-of-sight) Configuration

Remote Flash Unit Setting

1. Set the power switch to REMOTE
2. Press the wireless setting button to choose optical (line-of-sight) control mode
3. Set the groups (A/B/C) by pressing the selector dial on the bottom to highlight the Groups. Match the Groups with what you have selected on the Master Speedlight
4. Set the channel (1-4) by pressing the selector dial ▼ on the bottom to highlight the channels. Match the channel with what you have selected on the Master Speedlight

With optical control

1. Choose [CHANNEL] in i menu
   - Press the i button to display i menu
   - Use the rotary multi selector to choose [CHANNEL], and then press the OK button.
2. Use the rotary multi selector to choose a channel, and then press the OK button
   - Flash mode and flash compensation value can also be configured in i menu.

With radio control

1. Choose [CHANNEL] in menu
   - Press the button to display menu
   - Use the rotary multi selector to choose [CHANNEL], and then press the OK button.

With direct remote control

1. Choose [REMOTE] in menu
2. Press the button to display menu
3. Use the rotary multi selector to choose [REMOTE], and then press the OK button.

Flash mode and flash compensation value can also be configured in [REMOTE] menu.
## ADVANCED WIRELESS LIGHTING

### System Compatibility

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<th>DSLR</th>
<th>SB-5000</th>
<th>SB-910</th>
<th>SB-700</th>
<th>SB-500</th>
<th>SU-800</th>
<th>SB-R200</th>
<th>Camera’s built-in flash</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D5</strong></td>
<td>Can be used as a Commander, Master or Remote during Optical Wireless Control</td>
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<tr>
<td><strong>D810A, D800</strong></td>
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<tr>
<td><strong>D7000, D7100</strong></td>
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*Requires Optional WR-R10 + WR-A10 for Radio Control Remote Flash only*
Ambient Light
The natural, available light in a scene. Also known as existing light.

AF-Assist Illuminator
LED light on the camera that illuminates 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.

Backlighting
The light coming from behind the subject.

Bounce Lighting
Using the bounce feature on a Speedlight, light is bounced off a ceiling or wall to soften or diffuse the light's intensity.

CLS
Creative Lighting System — Nikon's Speedlight system.

Commander
Commander function: Controls remote flash units without firing flash during exposure.

Feathering
Panning or tilting the light so that its dim edge is used to light the subject.

Flash Output Level Compensation
Flash compensation used to increase or decrease the output power of a Nikon Speedlight unit.

Fill-Flash
A technique to brighten dark shadow areas, often used when the subject is located in the dark shadow.

Fill Light
A light that supplements the key light without changing its character, used to lighten or open shadows within a scene.

Front Lighting
Light coming from the direction of the camera toward the subject.

FP Auto High-Speed Sync
Auto high-speed flash synchronization enables CLS-compatible cameras and Speedlights to sync at the camera’s highest possible shutter speed. This technique minimizes depth of field and freezes high-speed subjects.

Flash Synchronization
A means by which a Speedlight is fired at precisely the moment when the camera’s shutter is at its peak opening. Also referred to as flash sync.

Front Curtain Sync
Also referred to as Normal sync, the flash fires immediately after the front curtain opens completely.

FV Flash Value Lock
Locks in the appropriate flash exposure for the main subject, which remains locked whether the aperture, composition or lens zoom position is changed.

Guide Number (Flash)
Guide numbers proclaim the light output of electronic flash units. The guide number divided by subject distance represents the power of the Speedlight: usually in feet or meters.

i-TTL Metering
Nikon’s Intelligent Through-The-Lens (TTL) flash metering using monitor pre-flashes for unprecedented levels of precision and performance.

Key Light
Also called “main” light, is the principal source of light on a subject or a scene.

Master Speedlight Unit
Controls remote flash units while firing flash during exposure.

Monitor Pre-Flash
A series of pre-flash firings detected by the camera’s TTL multi-sensor, analyzed for brightness and contrast. Also used to communicate output values to remote Speedlight units in multiple wireless lighting.

Optical Control
Using pulsating beams of light (pre-flash) that travel in a direct line-of-sight between a camera based transmitter and flash based receiver.

Quick Wireless Mode
The flash output level ratios of two remote flash unit groups (A and B) can be easily balanced in quick wireless control mode.

Radio Control
Speedlight transmits data via radio frequency.

Rear Curtain Sync
The flash fires just before the rear (second) curtain starts to close, for special effects photography where the blur appears behind the subject.

Reflectors
Flat devices, typically white, silver or gold, that redirect light to soften or fill in areas of a subject or scene.

Remote Speedlight Unit
A remote Speedlight’s flash fires only when triggered by a master flash unit or a commander.

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

Side Lighting
Light shining on the subject from the side relative to the camera, often casting long shadows.

Slow Sync Flash
The flash is controlled at a slower shutter speed to obtain the correct exposure for both the main subject and the background in low light situations or at night.

TTL
Through the lens. Any metering system — ambient exposure metering or flash metering — which works through the lens.