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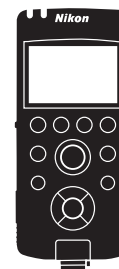
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Nikon

Wireless Remote Controller

WR-1

User's Manual



Thank you for your purchase of an WR-1 wireless remote controller. Read both this manual and the documentation provided with your camera before using the product, and keep these instructions where they will be read by all who use the product.

Controller Settings

Unless otherwise noted, the explanations in this manual assume that default settings are used.

Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:



This icon marks cautions, information that should be read before use to prevent damage to the product.



This icon marks notes, information that should be read before using the product.



This icon marks references to other pages in this manual.

The ▲, ▼, ◀, and ▶ symbols represent up, down, left, and right on the multi selector.

Illustrations

Instructions referring to cameras with ten-pin remote terminals are accompanied by illustrations of the D800, those referring to cameras with accessory terminals by illustrations of the D7100.

Before proceeding, confirm that the package contains the following:

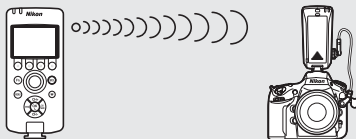
- ☐ WR-1 wireless remote controller
- ☐ *User's Manual* (this manual)
- ☐ Warranty
- ☐ Soft case
- ☐ MC-37 cable (for ten-pin remote terminals)
- ☐ MC-38 cable (for accessory terminals)

Batteries are not included.

Principal Features

Basic

Configure one unit as a transmitter and a second as a receiver, and attach the receiver to a camera. Pressing the shutter-release button on the transmitter will release the camera shutter.

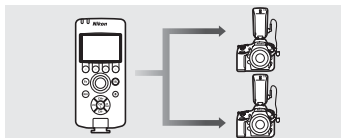


Pressing the shutter-release button on the transmitter...

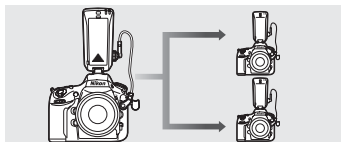
...releases the shutter on the cameras connected to the receivers.

Advanced

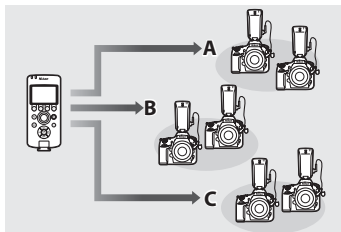
Simultaneous release: Release the shutters on multiple cameras simultaneously (12).



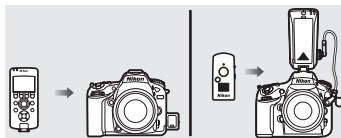
Synchronized release: Synchronize the shutters of one or more remote cameras with the shutter on a master camera (13).



Groups: Divide remote cameras into groups and control each group separately (14).



The WR-R10/WR-T10: The WR-1 can be used with WR-R10 units as receivers or a WR-T10 as a transmitter (15).



Wireless Regulation Data

Trade Name: **Nikon**

Model: WR-1

FCC ID: CGJ4149EA

IC: 4634A-4149EA

Compliance Statement

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est déclaré conforme à la Partie 15 de la Réglementation FCC et à la norme RSS-210 d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) cet appareil ne doit pas causer d'interférences nuisibles, et
- (2) cet appareil doit accepter les interférences reçues, y compris celles susceptibles de causer un fonctionnement indésirable.

Modifications not expressly approved by Nikon Corporation could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency

energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiofrequency radiation exposure information:

The radiated output power of the device is far below the FCC radio frequency exposure limits.

Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

FCC CAUTION

Changes or modifications not expressly approved by Nikon Corporation could void the user's authority to operate the equipment.

Nikon Inc., 1300 Walt Whitman Road,
Melville, New York
11747-3064, U.S.A. Tel.: 631-547-4200

Notices for Customers in Europe

EC Declaration of Conformity

Nikon WR-1

Manufacturer: Nikon Corporation

A copy of the original DoC for this product as it relates to R&TTE can be found at the following website:

http://imaging.nikon.com/support/pdf/DoC_WR-1.pdf

R&TTE Directive

C € 0682

This product conforms to the regulations governing radio-frequency devices in the following countries and can not be used in other jurisdictions. Nikon accepts no responsibility for the use of this device in countries other than those listed below.

AT	BE	BG	CY	CZ	DK	EE	FI
FR	DE	GR	HU	IE	IT	LV	LT
LU	MT	NL	PL	PT	RO	SK	SI
ES	SE	GB	IS	LI	NO	CH	TR

Notice for Customers in Singapore

Trade Name: **Nikon**

Model: WR-1

This device complies with radio-frequency regulations. The content of certification labels not affixed to the device is given below.

**Complies with
IDA Standards
DA103423**

For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this product. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:



This icon marks warnings, information that should be read before using this Nikon product to prevent possible injury.

WARNINGS

-  **Do not disassemble.** Failure to observe this precaution could result in fire, electric shock, or other injury. Should the product break open as the result of a fall or other accident, remove the batteries and take the product to a Nikon-authorized service representative for inspection.
-  **Keep out of reach of children.** Failure to observe this precaution could result in injury. In addition, note that small parts constitute a choking hazard. Should a child swallow any part of this product, consult a physician immediately.
-  **Cut power immediately in the event of malfunction.** Should you notice smoke or an unusual smell coming from the product, immediately turn the product off. Continued operation could result in injury. Once the product has cooled, remove the batteries and take the product to a Nikon-authorized service representative for inspection.
-  **Do not use in the presence of flammable gas.** Failure to observe this precaution could result in explosion or fire.
-  **Keep dry.** Do not immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.
-  **Do not handle with wet hands.** Failure to observe this precaution could result in electric shock.
-  **Do not remain in contact with the camera or controller for extended periods while the products are on or in use.** Parts of the product become hot. Leaving the product in direct contact with the skin for extended periods may result in low-temperature burns.
-  **Do not expose to high temperatures.** Do not leave the product in a closed vehicle under the sun or in other areas subject to extremely high temperatures. Failure to observe this precaution could result in fire or in damage to the casing or internal parts.

⚠ Follow the instructions of hospital and airline personnel. This product emits radio frequency radiation that could interfere with medical or navigational equipment. Turn the product off during takeoff and landing and when so directed by airline or hospital staff.

⚠ Observe proper precautions when handling batteries. Batteries may leak, rupture, or overheat if improperly handled. Observe the following precautions when handling batteries for use in this product:

- Turn the product off before replacing the batteries.
- Use only AA alkaline or NiMH batteries. Do not combine old and new batteries or batteries of different makes or types.
- Be sure to insert in the correct orientation.
- Do not attempt to recharge non-rechargeable batteries. When recharging NiMH batteries, follow instructions, use compatible chargers only, and charge each pair as a set.
- Do not short or disassemble batteries or attempt to remove or otherwise damage the battery insulation or casing.
- Do not transport or store with metal objects such as necklaces or hairpins. For transport, place batteries in a plastic bag or other container to insulate the terminals.
- Do not expose to flame or to excessive heat, immerse in or expose to water, or subject to physical force.
- Batteries are prone to leakage when fully discharged. To prevent damage to the product, be sure to remove the batteries and disconnect the product from the camera when no charge remains or if the product will not be used for an extended period.
- Should liquid from damaged batteries come in contact with clothing, eyes, or skin, immediately rinse the affected area with plenty of water.
- Discontinue use immediately should you notice any changes in the battery, such as discoloration or deformation.
- Dispose of used batteries in accord with local regulations. Prior to disposal, insulate the terminals with tape. Fire, overheating, or rupture may result should metal objects come into contact with the terminals.

Notices

- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been made to ensure that the information in this manual is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

This product, which contains encryption software developed in the United States, is controlled by the United States Export Administration Regulations and may not be exported or re-exported to any country to which the United States embargoes goods. The following countries are currently subject to embargo: Cuba, Iran, North Korea, Sudan, and Syria.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Notices for Customers in Europe

This symbol indicates that electrical and electronic equipment is to be collected separately.



The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- For more information, contact the retailer or the local authorities in charge of waste management.

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Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available online at the following sites:

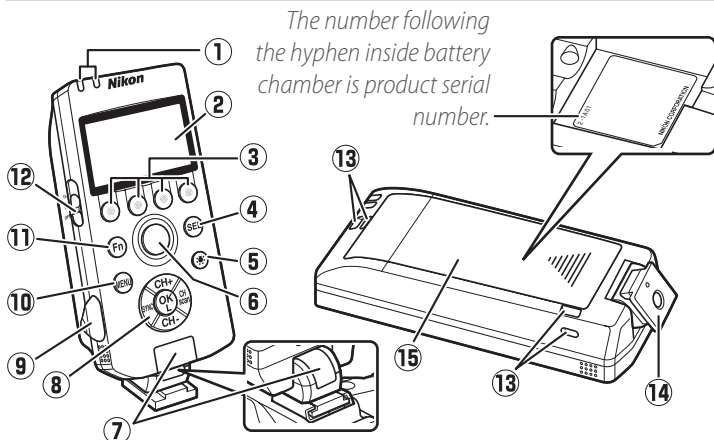
- **For users in the U.S.A.:** <http://www.nikonusa.com/>
- **For users in Europe and Africa:** <http://www.europe-nikon.com/support/>
- **For users in Asia, Oceania, and the Middle East:** <http://www.nikon-asia.com/>

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the following URL for contact information: <http://imaging.nikon.com/>

Introduction

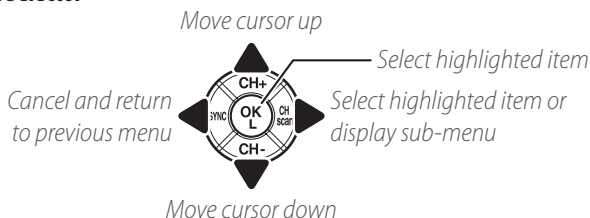
This section offers an overview of product controls and displays.

Parts of the WR-1

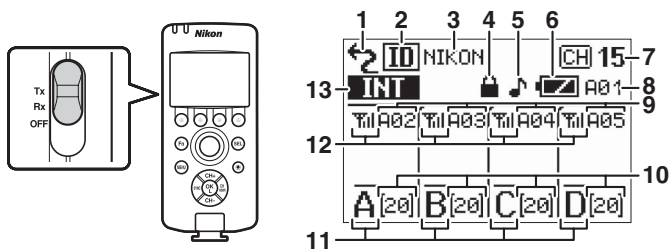


1 LED (red/green)	9	9 Ten-pin terminal cover	6
2 Display	2	Ten-pin remote terminal.....	6
3 Group buttons (A, B, C, D).....	10	10 MENU (menu) button	16
4 SEL (device) button	11, 24	11 Fn (function) button	11
5 (illuminator) button	3	12 Tx/Rx/OFF switch	8
6 Shutter-release button	10	13 Strap eyelet	
7 Release.....	7	14 Mounting foot.....	7
8 Multi selector		15 Battery-chamber cover	4

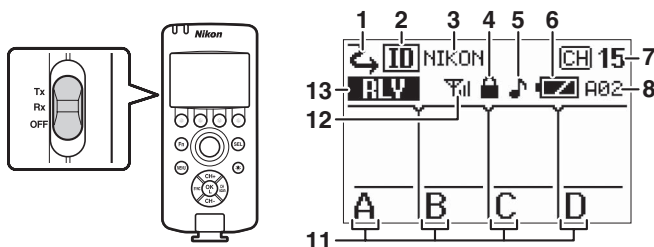
The Multi Selector



The Display



Tx/Rx/OFF switch set to Tx (transmitter)



Tx/Rx/OFF switch set to Rx (receiver)

	Description	
1	If Tx/Rx/OFF switch is set to Tx , is displayed and unit functions as transmitter; if switch is set to Rx , is displayed and unit functions as receiver.	8
2	Indicates whether unit links to other units via pairing ((PAIRING)) or ID ((ID)).	9, 23
3	ID mode name. Not displayed in pairing mode.	23
4	Displayed when controls are locked.	3
5	Indicates whether beeps will sound.	16
6	Battery level. Displayed only when unit is not connected to camera.	5

	Description	
7	Current channel.	8
8	Last three digits of unit serial number (or, if unit has been assigned unit ID, current body number of from #01 to #20).	1, 23
9	Last three digits of unit serial number (or, if unit has been assigned unit ID, current body number) of selected receiver in each group.	25
10	Number of receivers in each group (up to 20).	14
11	Currently selected group (A, B, C, or D).	10
12	Wireless signal strength.	—
13	Feature selected in transmitter mode.	
	• INT: Interval timer	18
	• RHT: Release hold time	20
	• SYNC: Synchronized release	13
	Feature selected in receiver mode.	
	• RLY: Relay photography	21
	• DLY: Release delay	22

The Button

Pressing the  button illuminates the display and control backlights for about 20 seconds, making the unit easier to use in the dark.

Control Lock

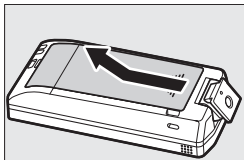
To prevent accidental operation of the multi selector and the group, **MENU**, and **SEL** buttons, press and hold the  button until  appears in the display to indicate that these controls are locked (disabled). Press and hold the  button again to re-enable the controls.

Inserting Batteries

The WR-1 is powered by two AA alkaline or nickel-metal hydride (NiMH) batteries. To insert batteries:

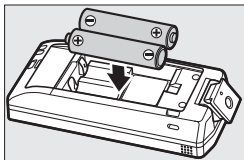
1 Open the battery-chamber cover.

Unlatch and open the battery-chamber cover.



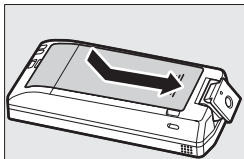
2 Insert the batteries.

Insert two AA batteries in the orientation shown.



3 Close the battery-chamber cover.

Be sure the cover is securely latched.



✎ Units Connected to Cameras

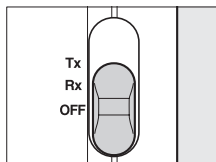
When connected to a camera (☞ 6), WR-1 units are powered by the camera; batteries are not required.

✎ Standby Mode

If no operations are performed for the length of time selected for **STBY** ⏻ (☞ 16), transmitters will enter standby and their displays will turn off to save power. Units that are connected to a camera will turn off automatically when the camera is turned off.

✓ Receiver Units

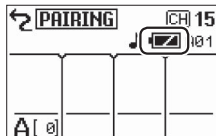
To save power when receivers are not connected to a camera, slide the **Tx/Rx/OFF** switches to **OFF** when the devices are not in use.



✎ Battery Level

The battery level for units not connected to cameras is displayed as shown at right; be sure the batteries have sufficient charge (units connected to cameras do not display the battery level). Battery level is shown as follows:

- : Charge remaining.
- : Batteries low. Ready spare batteries.
- : Batteries exhausted. Replace batteries.



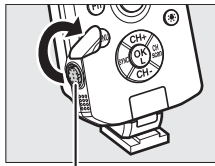
To ensure that the display is as accurate as possible, select the correct battery type in the **BATTERY** menu (☞ 17). Choose from **LR6** (alkaline) and **HR6** (NiMH).

Connecting WR-1 Units

Connect the units to the cameras they will be used to control.

1 Open the ten-pin terminal cover.

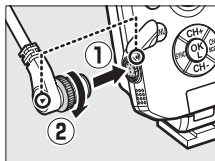
Open the terminal cover as shown.



Ten-pin terminal

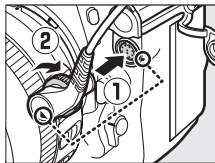
2 Connect the supplied ten-pin or accessory terminal cable.

Use the supplied MC-37 cable when connecting receivers to cameras with ten-pin remote terminals, the MC-38 when connecting receivers to cameras with accessory terminals. Keeping the ▲ mark on the cable's ten-pin connector aligned with the white ○ mark next to the ten-pin terminal, insert the connector as shown and tighten the screw to lock it in place.

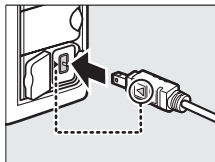


3 Connect the cable to the camera.

If the camera is equipped with a ten-pin remote terminal, align the ▲ mark on the MC-37 connector with the white ○ mark next to the camera ten-pin remote terminal and insert the connector as shown. Tighten the screw to lock the cable in place.

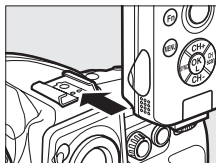


If the camera is equipped with an accessory terminal, align the ▲ mark on the MC-38 connector with the ▲ mark next to the camera accessory terminal and insert the connector as shown.

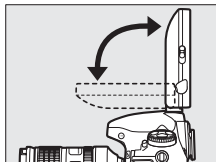


Fixing Units in Place

The WR-1 can be mounted on the camera accessory shoe as shown at right.



Once the unit is in place, it can be angled as shown at right.



To remove the WR-1, angle it as shown in Figure 1 or 2, and then press the release ((1)) and slide the unit off the accessory shoe ((2)). The unit can only be removed when angled as shown.

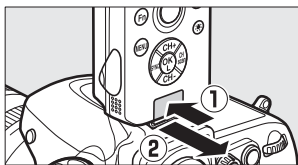


Figure 1

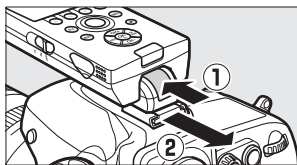


Figure 2

If desired, the WR-1 can be mounted on a tripod or an optional SK-7 bracket. Using the SK-7 places the WR-1 at the same level as the camera and allows pictures to be taken using the camera's built-in flash or optional flash units and other accessories to be mounted on the camera accessory shoe.

The Accessory Shoe

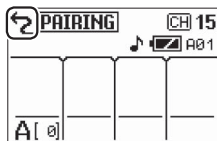
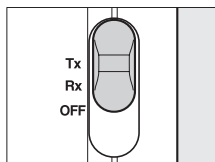
The camera's built-in flash can not be used when the WR-1 is mounted on the accessory shoe. If the flash pops up automatically, select **P**, **S**, **A**, or **M** mode and then lower the flash to prevent it firing.

Using the WR-1: The Basics

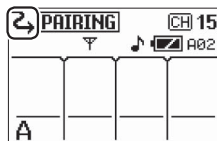
The instructions that follow describe how to control a single camera using two WR-1 units, one functioning as a transmitter and the other as a receiver.

Step 1: Position the Tx/Rx/OFF Switches

Slide the **Tx/Rx/OFF** switch for the transmitter to **Tx** and the switch for the receiver to **Rx**. The units will turn on and display the information shown below.



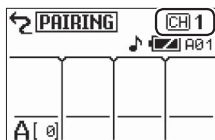
Tx (transmitter)



Rx (receiver)

Step 2: Set the Units to the Same Channel

Press **▲** or **▼** to choose from channels 1 to 15. Transmitters must be set to the same channel as the receivers they control.

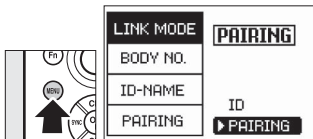


Step 3: Pair the Units

Follow the steps below to pair the units. Units can be paired only with other devices on the same channel.

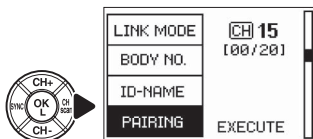
1 Set the units to pairing mode.

Press the **MENU** button to display the menus, then highlight **PAIRING** in the **LINK MODE** menu and press . Repeat for the second unit.



2 Display the PAIRING menus.

Highlight **PAIRING** and press ►. Repeat for the second unit.



3 Select EXECUTE on both units.

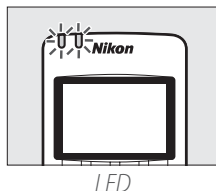
Place the units close together, then highlight **EXECUTE** and press  on both devices simultaneously.



If pairing is successful, the message at right will be displayed and the LED will flash alternately red and green. If the message **NO RESPONSE** is displayed, repeat Step 3.



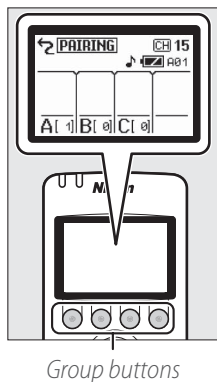
The menus will be displayed when pairing is complete. Press the **MENU** buttons to close the menus.



Step 4: Group the Units

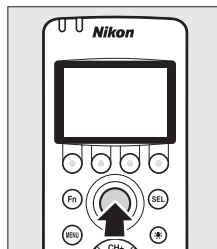
Each receiver can be placed in any of four groups (A, B, C, and D). A transmitter can then be used to control the different groups separately by selecting the appropriate group before operating the transmitter controls. Transmitters will only control receivers in the selected group.

To choose a group, use the group buttons. The group name appears in the display.



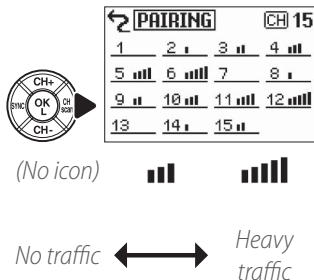
Step 5: Take Pictures

The shutter-release button on the transmitter performs the same functions as the camera shutter-release button whether pressed half-way or all the way down. See the camera manual for details.



Traffic Level

The traffic on each channel can be gauged by pressing ► for about a second. The traffic level for each channel is shown by an icon; choosing a low-traffic channel improves performance. Note that the display varies depending on when it was last updated; when multiple WR-1 units are used, their displays will not necessarily show the same traffic levels.



Erasing Pairing Data

Selecting **DELETE** in the WR-1 **PAIRING** menu lists the devices with which the unit is paired, identified by the last three digits of their serial numbers. Highlight a device and press . A confirmation dialog will be displayed; highlight **YES** and press  to erase the pairing data for the selected device.

ID Mode

In ID mode, connections between WR-1 units can be established based on the unit name rather than device pairing ( 23).

The Fn Button

The transmitter **Fn** button performs the same function as the **Fn** button on the camera to which the receiver is connected (D4, D800/800E, D7100, and D5200 cameras only; for the latest information on supported cameras, visit the websites listed on page viii). For more information, see the camera manual.

Device Selection

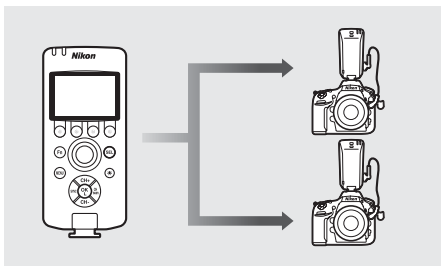
To control a specific receiver, press the **SEL** button on the transmitter and highlight the receiver in the device selection menu.

Controlling Multiple Cameras

This section describes the ways in which multiple receivers can be used to control more than one camera at a time.

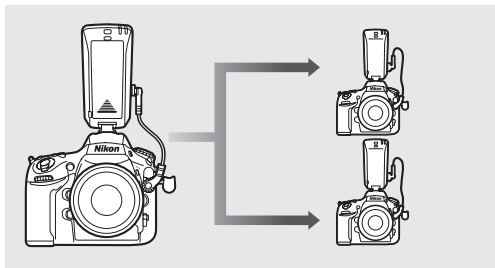
Simultaneous Release

If the transmitter and receivers are paired (📖 9), on the same channel (📖 8), and in the same group (📖 10), pressing the transmitter shutter-release button all the way down will simultaneously release the shutters on all cameras to which receivers have been attached.



Synchronized Release

To synchronize the shutters of one or more remote cameras with the shutter on a master camera, attach the receivers to the remote cameras and the transmitter to the master camera. The master camera must be equipped with a ten-pin remote terminal.



1 Connect the controllers.

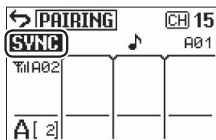
Connect the transmitter (set to Tx) to the master camera (any camera with a ten-pin remote terminal) and the receivers (set to Rx) to the remote cameras.

2 Configure the controllers.

Pair all controllers and set them to the same channel and group (□ 8, 9, 10).

3 Set the transmitter to SYNC mode.

Press ◀ on the transmitter to enable sync mode and confirm that **SYNC** appears in the display.

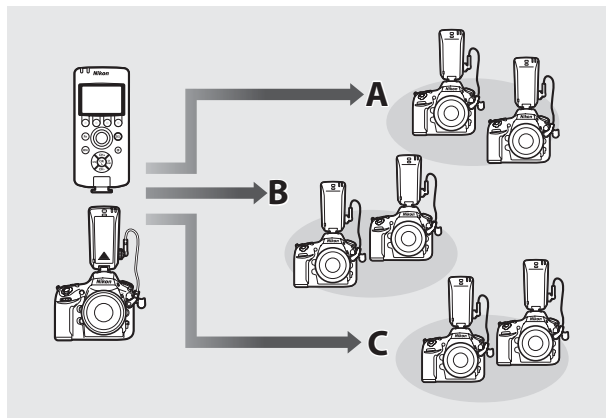


4 Take pictures.

The shutters on all cameras will be released when the shutter-release button on the master camera is pressed all the way down.

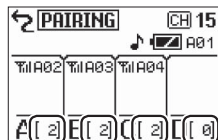
Groups

Remote cameras can be divided into up to four groups (A, B, C, and D). The cameras in each group can be controlled separately by using the transmitter group buttons to select the desired group before pressing the shutter-release button.



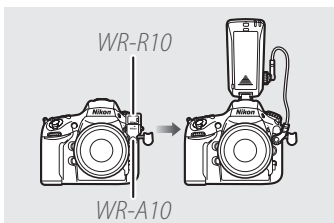
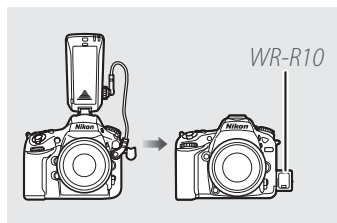
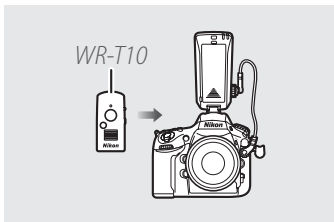
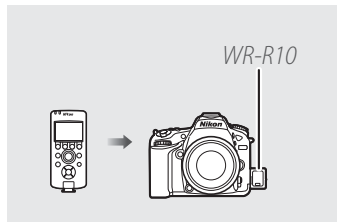
Group Size

The transmitter shows the number of receivers in the current group.



The WR-R10/WR-T10

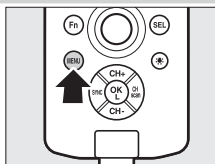
WR-1 units can be used with WR-R10 and WR-T10 wireless remote controllers (available separately).



WR-1 units must be in pairing mode before they can be paired with WR-R10 or WR-T10 wireless remote controllers; pairing instructions for the WR-1 are identical to those given on page 9, while those for the WR-R10/WR-T10 can be found in the manual provided with the devices. When selecting channels, note that the WR-R10/WR-T10 support channels 5, 10, and 15 only; set the WR-1 to the same channel as the WR-R10/WR-T10. Neither the WR-R10 nor WR-T10 offer group selection. Select Group A when using a WR-1 with WR-R10 units; when a WR-T10 is used, it will control receivers in all groups.

Menus

The menus contain the items listed below. To display the menus, press the **MENU** button.



Item	Description
LINK MODE	Choose whether to link to other units via pairing or ID.
BODY NO.	Select unit ID (body number) of from #01 to #20 (□ 23). Unit IDs are required for ID mode, but also simplify task of organizing units in pairing mode. ID replaces last three digits of serial number in unit display.
ID-NAME	Enter ID mode name (□ 23).
PAIRING	Pair unit with other devices (□ 9), delete pairing data (□ 11), or select LIST to view all devices with which unit is currently paired, identified by last three digits of their serial numbers.
	Highlight items and press ► to enable or mute audio feedback; items for which feedback is enabled are indicated by checks. Press ◀ to exit when settings are complete. • BUTTON: Beep sounds when control is used. • RELEASE: When D600, D7100, D5200, or D3200 is connected, beep sounds when shutter on camera selected with SEL button is released. • WARNING: Beep sounds twice when error occurs (□ 26).
LCD 	Adjust display contrast.
STBY 	Choose how long transmitter display remains on when no operations are performed (□ 5).

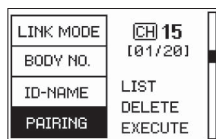
Item	Description
BATTERY	To ensure accuracy of battery level display, select option that matches type of battery inserted in device. Choose from LR6 (AA alkaline) and HR6 (rechargeable AA NiMH).
SPECIAL	Use transmitter for interval timer photography (INT ; 18) or choose transmitter release hold time (RHT ; 20), or configure receiver as relay (RLY ; 21) or choose receiver release delay (DLY ; 22). To disable above functions, select DISABLE .
VERSION	View unit firmware version.

Using the Menus

Follow the steps below to select options in the menus.

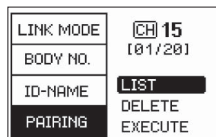
1 Select an item.

Press **▲** or **▼** to highlight items and press **▶** to view options for the highlighted item.



2 Select an option.

Press **▲** or **▼** to highlight the desired option and press **Ⓞ** to select.



SPECIAL

The **SPECIAL** menu is used to configure transmitters for interval timer photography and to choose the maximum duration for bulb photography, or to configure receivers to relay transmitter commands to a second receiver and to choose the delay before the shutter is released in response to transmitter commands.

■ Interval Timer Photography

Configure transmitters to release the shutters of remote cameras automatically at preset intervals.

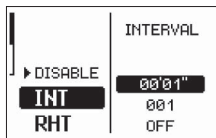
1 Select **SPECIAL** on the transmitter.

Press the **MENU** button on the transmitter to display the menus, then highlight **SPECIAL** and press ►.



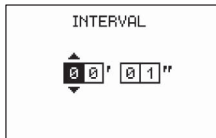
2 Select **INT**.

In the transmitter **SPECIAL** menu, highlight **INT** and press ► to display the options shown at right.



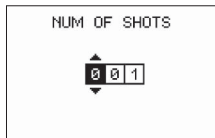
3 Choose the interval.

Highlight **INTERVAL** and press ►. The options shown at right will be displayed; press ◀ or ▶ to highlight minutes or seconds and ▲ or ▼ to change. Choose an interval longer than the slowest anticipated shutter speed (maximum 60 minutes) and allow time for the camera to record images, as the camera may be forced to skip intervals if the time allotted is too short. Press **OK** to return to the interval timer menu when settings are complete.



4 Choose the number of intervals.

Highlight **NUM OF SHOTS** and press ►. The options shown at right will be displayed; press ▲ or ▼ to choose the number of intervals. Press  to return to the interval timer menu when settings are complete.



5 Choose the starting trigger.

Highlight **START WITH RELEASE** and press ►. Highlight one of the following options and press .



- **ON:** Interval timer photography starts when the transmitter shutter-release button is pressed.
- **OFF:** Interval timer photography starts automatically after the delay selected for **INTERVAL**.

Pairing

Pairing can not be performed while interval timer photography is enabled.

Interrupting Interval Timer Photography

To end interval timer photography before all pictures are taken, select **DISABLE** in the **SPECIAL** menu, press the transmitter shutter-release button or press ◀ on the multi selector, or turn off the transmitter.

■ Release Hold Time

Choose how the remote cameras respond when the transmitter shutter-release button is held all the way down.

- **TIME:** The transmitter shutter-release button can be used for long time-exposures; shooting ends automatically after a selected time.
- **SINGLE SHOOT:** Only one picture will be taken regardless of how long the button is pressed.

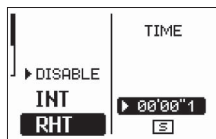
1 Select **SPECIAL** on the transmitter.

Press the **MENU** button on the transmitter to display the menus, then highlight **SPECIAL** and press ►.



2 Select **RHT**.

In the transmitter **SPECIAL** menu, highlight **RHT** and press ► to display the options shown at right.



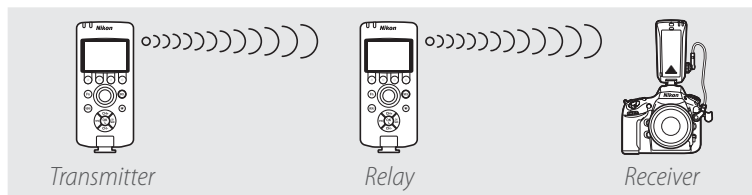
3 Choose an option.

- **TIME:** Highlight **TIME** and press ►. The options shown at right will be displayed; press ◀ or ▶ to highlight minutes or seconds and ▲ or ▼ to choose the maximum shooting time for long time-exposures (up to 60 minutes). Press **OK** to exit when settings are complete.
- **SINGLE SHOOT:** Highlight **SINGLE SHOOT** and press **OK**.



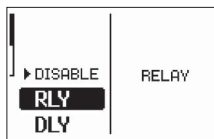
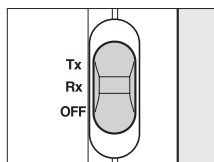
■ Relay

Receivers can be configured to relay transmitter commands to another receiver, increasing transmitter range and allowing signals to be transmitted around obstacles.



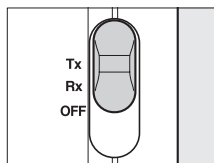
1 Configure the relay.

On the unit that will act as the relay, slide the **Tx/Rx/OFF** switch to **Rx**. Press the **MENU** button to display the menus, then highlight **SPECIAL** and press **►**. Highlight **RLY** and press **OK** to configure the unit to act as a relay.



2 Configure the remaining units.

Slide the **Tx/Rx/OFF** switch on one of the remaining units to **Tx** to configure it as a transmitter, and the switch on the other unit to **Rx** to configure it as a receiver.



3 Take photographs.

Position the units. When the shutter-release button on the transmitter is pressed all the way down, the relay unit will pass the signal to the receiver, and the receiver will release the shutter on the camera to which it is connected.

■ Release Delay

Choose how long a receiver waits to release the shutter after the transmitter shutter-release button is pressed all the way down. Different delays can be used for different receivers, allowing shutter release to be staggered over a series of cameras using a single transmitter.

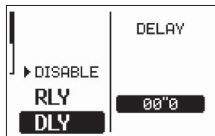
1 Select **SPECIAL** on the receiver.

Press the **MENU** button on a receiver to display the menus, then highlight **SPECIAL** and press ►.



2 Select **DLY**.

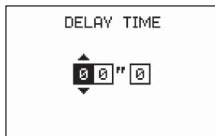
In the receiver **SPECIAL** menu, highlight **DLY** and press ► to display the options shown at right.



3 Choose the delay.

Highlight **DELAY** and press ►. The options shown at right will be displayed; press ◀ or ▶ to highlight a digit and ▲ or ▼ to choose a delay (maximum 60.0 seconds). Press **OK** to return to exit when settings are complete.

Repeat Steps 1–3 for the remaining receivers as required.

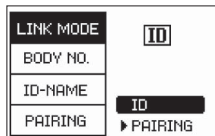


ID Mode

While in pairing mode pairing is used to establish links between units before shooting begins (□ 9), in ID mode units automatically link to others with the same name. Note that ID mode is available with WR-1 units only; pairing must be used to link with WR-R10/WR-T10 wireless remote controllers.

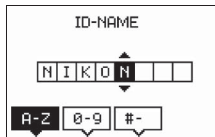
1 Select ID mode.

Press the **MENU** button to display the menus. Highlight **LINK MODE** and press ►, then highlight **ID** and press **OK** to select ID mode.



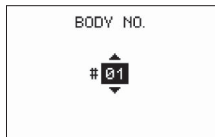
2 Choose a name.

Highlight **ID-NAME** and press ► to display the text-entry dialog shown at right. Enter a name of up to eight characters using ◀ or ▶ to position the cursor and ▲ or ▼ to enter characters; to choose the character type, use the group buttons (press **A** for the letters A–Z, **B** for the numbers 0–9, and **C** for symbols). Press **OK** to proceed when entry is complete.



3 Choose a unit ID.

The unit ID (body number) is used to differentiate between receivers with the same name: each unit with the same name must have a unique unit ID. Highlight **BODY NO.** and press ► to display the dialog shown at right. Choose a unit ID between 01 and 20 and press **OK**.



4 Configure the remaining units.

Repeat Steps 1–3 to configure the remaining units, using the name selected in Step 2 and a unique unit ID for each unit.

Viewing and Changing Camera Settings (D7100 Only)

When receivers are attached to D7100 cameras, camera settings can be viewed and changed in the transmitter display.

1 Display the device list.

Press the transmitter **SEL** button to display a list of the cameras to which receivers are currently connected.



A02	Til	A	-	-	-	▶
A03	Til	A	-	-	-	▶
A04	Til	-	B	-	-	
A05	Til	-	B	-	-	
A06	Til	-	-	C	-	
A07	Til	-	-	C	-	
A08	Til	-	-	-	D	

2 View camera settings.

Cameras that support remote setting display and adjustment are indicated by a  icon. Highlight a supported camera and press **▶** to view camera settings. Press **▲** or **▼** to scroll the display.

A02		REM 01.0k(000)	
.....+.....			
MODE	M		
TV	1/125	▶	
AV	F5.6		
ISO	100	▶	

3 Adjust camera settings.

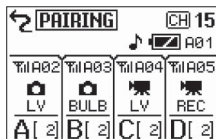
Settings that can be adjusted remotely are indicated by a  icon. Highlight a setting and press **▶** to view options, then select an option and press **OK** to transmit the selecting option to the camera.

ISO SENSITIVITY
▲
100
▼

Receiver Status

The status of receivers that are connected to D7100 cameras is shown as follows:

-  **(still image mode)**: The transmitter shutter-release button can be used to take photographs.
-  **(movie mode)**: The transmitter shutter-release button can be used to begin and end movie recording. **REC** flashes while recording is in progress.
- **LV (live view)**: The transmitter shutter-release button can be used for live view photography.
- **BULB (bulb photography)**: The shutter on the remote camera stays open while the transmitter shutter-release button is pressed all the way down.
- **TIME (time photography)**: The shutter on the remote camera opens when the transmitter shutter-release button is pressed all the way down and closes when the button is pressed all the way down a second time.



To view the other receivers in the same group, press and hold the transmitter group button while pressing ▲ or ▼.

Troubleshooting

If wireless remote controllers fail to function as expected, check the list of common problems below before consulting your retailer or Nikon representative.

The unit does not turn on (no indicators appear in the display):

- If the unit is not connected to a camera, confirm that the batteries are inserted in the correct orientation (□ 4). If the problem persists, replace the batteries with fresh batteries or with fully charged rechargeable batteries.
- If the unit is connected to a camera, confirm that the cable is correctly connected and that the camera is on (□ 6).

The camera does not respond to the transmitter shutter-release button:

- Confirm that the receiver is on the same channel and in the same group as the transmitter (□ 8, 10).
- If **PAIRING** is selected for **LINK MODE**, select **PAIRING > LIST** and confirm that the transmitter is listed, indicating that the transmitter and receiver are paired. If the transmitter is not listed, pair the devices as described on page 9.
- If ID (supported with WR-1 units only) is selected for **LINK MODE**, confirm that all units have the same name (□ 23).
- Confirm that the receiver is connected to the camera (□ 6).
- The shutter can not be released. Check the camera.

The unit beeps twice and the camera shutter is not released:

- The shutter can not be released. Check the camera.
- Check that the receivers do not share the same body number.

NOT DETECTED: No paired or linked units in the selected group can be detected on the selected channel.

NO RESPONSE: Reattempt pairing after placing the units closer together and confirming that they are on the same channel (□ 8, 9).

#00 IS DUPLICATED: The current unit ID (body number) is shared by other receivers with the same name. Select a unique unit ID (□ 23).

Precautions for Use

- Controllers must be securely attached to the camera to prevent camera malfunction. Remove units that are not in use; carrying a camera in a bag or by the strap with a WR-1 attached risks damage to the camera or the WR-1 in the event that the camera is exposed to strong physical shocks or vibration.
- Transmitter and camera shutter-release buttons can not be used when cameras other than the D7100 are in remote control (ML-L3) release mode.

Compatibility

Wireless remote controllers can not be used with D1-series cameras or the MB-D100. They can be used with the F100, D2X, D2Xs, D2Hs, and D200, but the shutter can not be released with the F100 in self-timer mode, while the D2X, D2Xs, D2Hs, and D200 will temporarily display  if the exposure meters are activated after the unit is attached.

Specifications

■ Wireless Remote Controller WR-1

Type	WR-1
Supported cameras	SLR cameras with ten-pin remote or accessory terminals
Wireless	
Channels	1 (2.405 GHz), 2 (2.410 GHz), 3 (2.415 GHz), 4 (2.420 GHz), 5 (2.425 GHz), 6 (2.430 GHz), 7 (2.435 GHz), 8 (2.440 GHz), 9 (2.445 GHz), 10 (2.450 GHz), 11 (2.455 GHz), 12 (2.460 GHz), 13 (2.465 GHz), 14 (2.470 GHz), and 15 (2.475 GHz)
Range (line of sight)	Approximate range between WR-1 units at height of about 1.2 m (4 ft) is 120 m (394 ft); varies with weather conditions and presence or absence of obstacles
Maximum number of units	Up to 20 units (including a maximum of 3 transmitters) can be used at a time
Power source	Power is supplied by camera if connected; when not connected to camera, unit is powered by two AA alkaline or nickel-metal hydride (NiMH) batteries
Power consumption	Approximately 1 W maximum
Operating environment	• Temperature: -20 °C – +50 °C (-4 °F – +122 °F) • Humidity: 85% or less (no condensation)
Approximate dimensions (W × H × D)	50 × 115 × 27.5 mm (2.0 × 4.5 × 1.1 in.)
Weight	Approximately 90 g (3.2 oz), body only

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