Canon

Wireless Remote Control

BR-E1

Introduction

The Wireless Remote Control BR-E1 is a wireless remote controller that is compatible with Bluetooth® low energy technology (hereafter "Bluetooth").
Pairing the remote controller with a Bluetooth-compatible Canon digital camera* enables the following operations to be performed wirelessly (with an operating distance of approx. 5 m/16.4 ft. in any direction).
* For information on the supported cameras, refer to the Canon Web site, etc.

Features of the BR-E1

- **Shooting still photos and movies**
- **Focusing with AF**
- **Zooming (when using the Power Zoom Adapter)**

Before Starting to Shoot, Be Sure to Read the Following

To avoid accidents, first read the "Safety Precautions" (p.5) and "Handling Precautions" (p.6). Also, read this manual carefully to ensure that you use this product correctly.

- Carrying the remote controller in a pocket or bag, etc. may result in buttons being pressed inadvertently, which can cause the camera to malfunction. When you are not taking pictures, it is recommended that you turn off the camera power or disable Bluetooth function from the camera menu screen.
- The operating distance may vary according to the conditions in which the remote controller is used. For details, see "Cautions for the Wireless Communication Function" (p.7).
- Note that Canon cannot be held liable for any loss or damage from erroneous wireless communication settings for using this product. In addition, Canon cannot be held liable for any loss or damage resulting from the use of this product.

Conventions Used in this Manual

Icons in this Manual

(p.**) : Reference page numbers for more information.

❙ : Warnings to prevent potential problems during operation.

📜 : Supplemental information.

Trademarks
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Canon Inc. is under license. Other trademarks and trade names are those of their respective owners.
- The Wi-Fi CERTIFIED logo and the Wi-Fi Protected Setup mark are trademarks of the Wi-Fi Alliance.
- All other trademarks are the property of their respective owners.

Contents

Safety Precautions

The following precautions are provided to prevent harm or injury to yourself and others. Make sure to thoroughly understand and follow these precautions before using the product.

If you experience any malfunctions, problems, or damage to the product, contact the nearest Canon Service Center or the dealer from whom you purchased the product.

⚠ **Warnings:** Follow the warnings below. Otherwise, death or serious injuries may result.

- To prevent fire, excessive heat, chemical leakage, explosions, and electrical shock, follow the safeguards below:
  - Do not use any batteries not specified in the Instruction Manual. Do not use any home-made or modified batteries, or the product if it is damaged.
  - Do not short-circuit, disassemble, or modify the battery. Do not apply heat or solder to the battery. Do not expose the battery to fire or water. Do not subject the battery to strong physical shock.
  - Do not insert the battery's plus and minus ends incorrectly.
- When disposing of a battery, insulate the electrical contacts with tape. Contact with other metallic objects or batteries may cause a fire or an explosion.
- If the battery leaks, changes color, deforms, or emits smoke or fumes, remove it immediately. Be careful not to get burned in the process. It may cause a fire, electrical shock or burns if you keep using it.
- Keep the battery and battery cover, etc. out of the reach of children and infants. If a child or infant swallows the battery or battery cover, etc. consult a physician immediately. Battery chemicals may harm the stomach and intestines.
- Before using the product inside an airplane or hospital, check if it is allowed. Electromagnetic waves emitted by the product may interfere with the plane's instruments or the hospital's medical equipment.
- A thorough explanation of how to use the product by an adult is required when the product is used by children. Supervise children while they are using the product. Incorrect usage may result in electrical shock or injury.
- Be careful not to get the product wet. If you drop the product in the water or if water or metal get inside the product, promptly remove the battery. This is to prevent fire, electrical shock, and burns.
- Do not use paint thinner, benzene, or other organic solvents to clean the product. Doing so may cause fire or a health hazard.

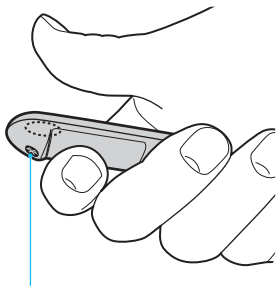⚠ **Cautions:** Follow the cautions below. Otherwise, physical injury or property damage may result.

- Do not insert your finger into the hole of the product. It may become stuck.

Handling Precautions

● Do not immerse the product in water. Wipe off any water droplets with a dry and clean cloth. If the product is exposed to salty air, wipe it with a clean, well-wrung wet cloth.

Holding the Remote Controller

● When operating the remote controller, hold it as indicated in the figure below.

**Do not cover this part with your fingers.
Doing so may cause the operating distance
to become shorter.**

Cautions for Using the Remote Controller

If remote control operation takes time or fails, or if other problems occur, try the following corrective actions.

Distance Between the Camera and This Product

The operating distance of this product is approx. 5 m/16.4 ft. in all directions. Remote operations may not be possible if this product is too far away from the camera. In such a case, perform remote control operations after bringing this product closer to the camera.

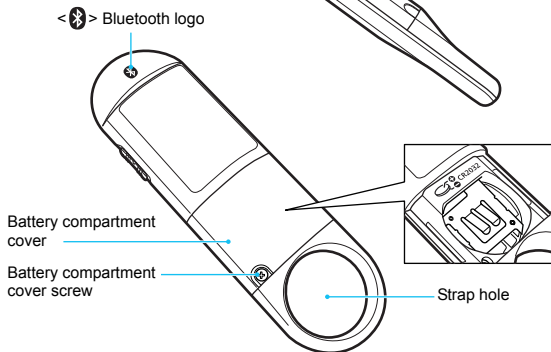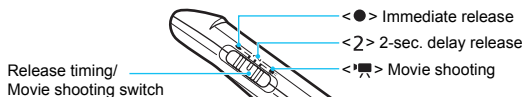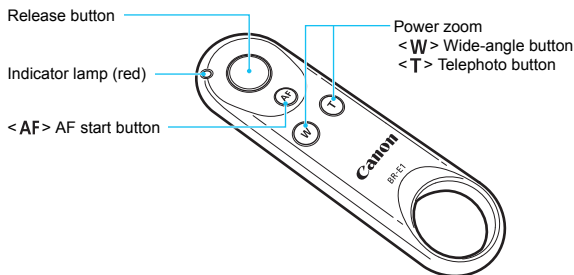### Obstructions That Impede the Communication of This Product

- The operating distance of this product may become shorter if people or other obstructions are between this product and the camera.
- The operating distance of this product may become shorter if operations are performed with your finger covering the < >.

Radio Wave Interference in 2.4 GHz Band

This product performs Bluetooth communication using radio waves in the 2.4 GHz band. For this reason, remote control operation may take time or fail if there are electronic devices operating on the same frequency band nearby.

- Electronic devices operating on the same frequency band includes Wi-Fi devices, smartphones, Bluetooth devices, microwave ovens, cordless telephones, and similar devices.
- If radio wave interference occurs between a nearby electronic device and this product, stop using the electronic device or move further away from the devices to use this product.
- Even if there are no electronic devices nearby, radio wave interference may occur between this product and an electronic device used in a nearby building or car. In such a case, the above condition may improve if you leave this product idle for a while and then operate it again.

Nomenclature

Release button

Indicator lamp (red)

< AF > AF start button

Power zoom
< W > Wide-angle button
< T > Telephoto button

< ● > Immediate release
< 2 > 2-sec. delay release
< '🎥 > Movie shooting

Release timing/
Movie shooting switch

< 🔵 > Bluetooth logo

Battery compartment
cover

Battery compartment
cover screw

Strap hole

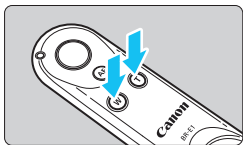📝 The product does not come with a strap.

Connecting the Remote Controller and Camera ◼

Connect the remote controller and camera using the Bluetooth function.
To connect the remote controller and camera via Bluetooth, first you
need to pair the camera and remote controller (registering the device to
the camera).

1 Set the camera to the pairing standby mode.

- Select [**Pairing**] from the menu screen of the camera. For details, refer to the pages regarding BR-E1 in the Camera Instruction Manual.

2 Connect the remote controller to the camera.

- **Press and hold the <W> button and <T> button on the remote controller simultaneously for three seconds or more.**
- ▶ The indicator lamp blinks, and pairing starts.
- ▶ The indicator lamp lights up when pairing is complete. The remote controller is registered in the camera and a message is displayed on the LCD monitor.
- If pairing fails, the lamp blinks rapidly. In such a case, press and hold the <**W**> button and <**T**> button again.

- **Pairing with two or more cameras simultaneously is not possible. If you pair a camera and the remote controller that has already been paired with another camera, remote operation of the previously paired camera cannot be performed. Remove the registration of the remote controller, then pair with the other camera.**
- If you cannot select [**Pairing**] from the menu screen of the camera to pair, the camera may be paired with another remote controller. Remove the registration of the remote controller, then pair with the camera.
- You cannot pair multiple remote controllers to one camera. When pairing a camera that has already been paired with a remote controller with another remote controller, remove the registration of the remote controller (by operating the camera), then pair with the other remote controller.
- Pairing and remote operations cannot be performed when the camera is connected to a computer or GPS receiver, etc. with an interface cable. Perform pairing and remote operations after disconnecting the cable.

- Pairing is not removed even when the camera is turned off. Remote operations can be performed again when the camera is turned on.
- Remote operations cannot be performed when the camera is connected via Wi-Fi. Remote operations can be performed again when the Wi-Fi connection is terminated.

Checking Registered Information/ Removing Registration

You can check the registered information of a paired remote controller or remove a registration from the menu screen of the camera.

Checking Registered Information

When the remote controller is paired correctly, the 12-digit number on the back of the remote controller (the Bluetooth address) is displayed on the camera's LCD monitor. If the number is incorrect, remove the registration of remote controller and perform pairing again. For the operation procedure, refer to the page regarding BR-E1 in the Camera Instruction Manual.
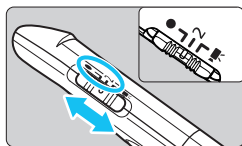
Removing Registration

To use a paired (registered) remote controller with another camera or to perform pairing again, remove the registration of the remote controller. For the operation procedure, refer to the page regarding BR-E1 in the Camera Instruction Manual.
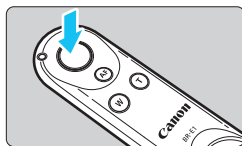
Shooting Still Photos

1 Set up the camera for remote control shooting.
- Set the camera for still photo shooting.
- Set the drive mode of the camera to <♪> (remote control).

2 Select the release method.
- Set the release timing/movie shooting switch on the remote controller to the <●> (immediate release) or <2> (2-sec. delay release) position.

3 Take a picture.
- When you press the release button on the remote controller, the camera automatically focuses (AF), and takes a picture when focus is achieved.
- The indicator lamp lights up when the focus is achieved with AF.
- Pictures cannot be taken unless the focus is achieved with AF. The indicator lamp on the remote controller blinks rapidly.
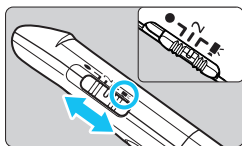- When focusing manually, the indicator lamp lights up when the picture is taken.

Depending on the camera, the setup method for remote control shooting may differ. Refer to the Instruction Manual for your camera.

- The camera can also be focused by pressing the <**AF**> button on the remote controller.
- With the settings of camera's Custom Controls (switching of the button functions), you can change the function of release button or the <**AF**> button on the remote controller. Also, depending on its setting, the indicator lamp lights up when the still photo shooting is performed.
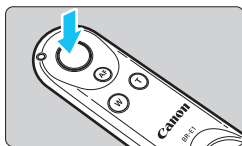
Shooting Movies

1 Set up the camera for remote control shooting.

- Set the camera for movie shooting.
- Set [**Remote control**] to [**Enable**] from the menu screen of the camera.

2 Set the switch to <🎥>.

- Set the release timing/movie shooting switch on the remote controller to the <🎥> position.

3 Shoot the movie.

- When you press the release button on the remote controller, the indicator lamp lights up and movie shooting starts.
- When you press the button again, the indicator lamp blinks and movie shooting stops.

> ⚠ ● Depending on the camera, the setup method for remote control shooting may differ. Refer to the Instruction Manual for your camera.
> ● The operation sounds of the remote controller may be recorded.

> 🗒 The camera can also be focused by pressing the <**AF**> button on the remote controller.
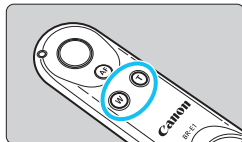
Operating the Power Zoom Adapter

The Power Zoom Adapter is a lens accessory (sold separately).
For information on how to attach to the lens and operate the Power
Zoom Adapter, refer to its Instruction Manual.

1 Prepare the Power Zoom Adapter.
- Attach the Power Zoom Adapter to the lens, then attach the lens to the camera.
- Set the zoom mode switch of the Power Zoom Adapter to the <PZ> position.

2 Set up the camera for remote control shooting.
- Set the drive mode of the camera to <🕐> (remote control).

3 Press the power zoom button.
- Press the <**W**> button to zoom to the wide-angle side or the <**T**> button to zoom to the telephoto side.
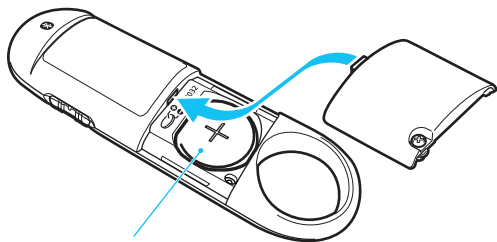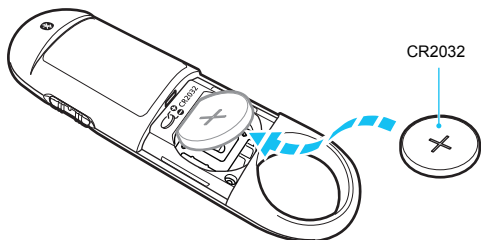

- ⚠ Depending on the camera, the setup method for remote control shooting may differ. Refer to the Instruction Manual for your camera.
- During viewfinder shooting, the Power Zoom Adapter cannot be used.

- 📋 The zoom speed is constant regardless of how you press the power zoom button.
- The zoom speed can be set with the speed level switch on the Power Zoom Adapter.

Replacing the Battery

If the indicator lamp does not light up when you press a button on the remote controller, replace the battery. Use one lithium button cell battery CR2032.

CR2032

Make sure to insert the battery with the positive (+) side face up, as indicated in the figure above.

Specifications

Type:	Remote controller
Compliance standards:	Bluetooth Specification Version 4.1 (Bluetooth low energy technology)
Transmission method:	GFSK modulation
Operating distance:	Approx. 5 m/16.4 ft. from the camera in any direction
	* With no obstructions between the remote controller and camera and no radio interference
Power:	Lithium button cell battery CR2032
Battery life:	Approx. one year
Dimensions (W x H x D):	Approx. 27.0 x 91.5 x 12.0 mm/1.06 x 3.60 x 0.47 in.
Weight:	Approx. 14 g/0.49 oz. (excluding battery)
Working temperature range:	0°C - 40°C / 32°F - 104°F
Working humidity:	85% or less

● All the data above is based on Canon's testing standards.
● Product specifications and the exterior are subject to change without notice.

Indicator Lamp Status

Indicator Lamp	Status
Lights Up	Pairing complete
	AF achieved
	Started bulb exposure/movie shooting
Blinking	Start pairing
	Stopped bulb exposure/movie shooting
Rapid Blinking	Error
	AF not possible

* When focusing manually, the lamp lights up when still photo shooting is performed.

* Depending on the settings of camera's Custom Controls (switching of the button functions), the indicator lamp lights up when the still photo shooting is performed.

Wireless Communication Function

■ Countries and Regions Permitting Wireless Communication Function Use

Use of wireless communication function is restricted in some countries and regions, and illegal use may be punishable under national or local regulations. To avoid violating wireless regulations, visit the Canon Web site to check where use is allowed.

Note that Canon cannot be held liable for any problems arising from wireless communication function use in other countries and regions.

■ Model Number

BR-E1: DS586111(including Bluetooth module model: WM500)

FCC/IC NOTICE
Model:DS586111 (including Bluetooth Module Model: WM500, FCC ID: AZD500/ IC: 498J-500)

This device complies with Part 15 of FCC Rules and Industry Canada's licence-exempt RSSs. 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.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter except Canon accessories supplied or designated for this product.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption rate (SAR).

Hereby, Canon Inc. declares that this equipment is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: http://www.canon-europe.com/ce-documentation

Bluetooth Frequency range: 2402MHz - 2480MHz
Bluetooth Maximum output power: 7.14dBm

CANON EUROPA N.V.
Bovenkerkerweg 59, 1185 XB Amstelveen, The Netherlands
CANON INC.
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

Complies with
IMDA Standards
DB00671

Model: DS586111

This device complies with Part 15 of the FCC Rules. 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.

Note: This equipment has been tested and found to comply with the limits for class B digital devices, 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.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

CAN ICES-3 (B) / NMB-3 (B)

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The descriptions in this Instruction Manual are current as of February 2017. For information on the compatibility with any products introduced after this date, contact any Canon Service Center. For the latest version Instruction Manual, refer to the Canon Web site.