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BT1-B310-A

ENGLISH

Canon

Remote Camera

CR-N700



BT1-B310-A

Installation Guide

Important Information

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Printed in Japan • Imprimé au Japon

This "Installation Guide/Important Information" is comprised of pages [1/2] and [2/2]. Please be sure to read the "Safety Precautions" section for correct use. After reading this "Installation Guide/Important Information", keep it in a readily accessible location for future reference. This camera is for indoor use only.

- The cameras described in this document may include models not available in your country and/or region.
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The latest user manuals and software, etc. for this product can be downloaded from the following website. The user manuals explain the camera settings and operations. Read them carefully before using the camera to ensure correct use.



<https://cam.start.canon/>



Check Included Items

- Camera
- Ceiling Plate
- Safety Wire 3 m (9.8 ft.)
- Wire Stopper (for safety wire)
- Camera-to-Mount Safety Wire 10 cm (3.94 in.)
- M3 Screw x 6 (for camera mounting, camera-to-mount safety wire, and wire stopper x 4)
- IR Remote Controller
- Size AAA Battery x 2 (for IR remote controller)
- Printed Materials

Symbols used in this manual



Parts indicated in the "Installation Guide/Important Information" [2/2] with this icon are not included with the camera, and should be prepared by the user.

Safety Precautions



Warning Failure to follow the instructions may result in death or serious injury.

- Do not install in the following places:
- Places in direct sunlight, near heat-generating objects, or locations subject to high temperatures.
 - Places near fire sources or flammable solvents (alcohol, thinner, fuel, etc.).
 - Humid or dusty places.
 - Places subject to oily smoke or steam.
 - Confined or enclosed places.

Failure to do so may result in fire or electric shock.

- Notes on installation at high places
- For installation or inspection of this camera, consult the dealer where you purchased the product.
 - Install the camera in a way that ensures sufficient holding strength according to the mounting place such as the wall, ceiling, etc. Also, make sure that the mounting place can sufficiently support the total weight including the mounting parts and reinforce it if necessary.
 - Prepare fixing screws suitable for the location and type of surface the camera is to be installed.
 - Periodically check the mounting brackets and screws for rust and loosening.
 - Do not install in unstable places, places subject to significant vibration or impact, or places subject to salt damage or corrosive gas.
 - Be sure to attach the safety wire when installing the camera.
 - Use the included ceiling plate to install the camera. Do not install it with only the tripod screws.

Failure to do so may result in the camera falling or other accidents.

- General notes on the camera
- If any defective conditions such as smoke, strange sounds, heat, strange odors, damage or cracks on the external case are discovered, immediately stop using the camera, remove it from the power supply (or the LAN cable for PoE++ power supply), and contact your nearest dealer. Place the external DC power supply near the power outlet and avoid placing objects around the power plug so that the power can be turned off immediately in the event of an emergency.
 - Do not touch the camera or the connecting cables during a thunderstorm.
 - Do not disassemble or modify the camera.
 - Do not scratch, pull, or forcefully bend the cables, or put a load on their connections.
 - Do not spray the camera with water, or otherwise make it wet.
 - Do not touch the camera, the external DC power supply, cable connectors, power plugs, or power outlets with wet hands.
 - Do not allow water, metal or other foreign objects to enter the camera.
 - Do not use flammable sprays near the camera.
 - Do not leave the external DC power supply (or the LAN cable for PoE++ power supply) connected when the camera is not in use for long periods.
 - Do not use flammable solvents such as alcohol, paint thinner or benzine when cleaning the camera.
 - Do not block the air intake or air exit vents.

Failure to do so may result in fire or electric shock.

- Notes on Power Supply
- When using a commercially available AC adapter, use one that complies with the safety standards.
 - Do not place heavy objects on the power cable (or the LAN cable for PoE++ power supply) or pull, forcibly bend, scratch or modify it.
 - Do not allow metal pins or debris to touch the power plug or terminals.
 - Wipe any dust off of the power plug. Also, if the connection is made to the power outlet in a dusty area, take measures to prevent tracking.
 - Make sure the power plug (or the LAN cable for PoE++ power supply) is seated all the way, and do not use it when the insertion is insufficient.
 - Do not use a damaged power plug or a loose power outlet, or use it in a manner that exceeds the rating of the wiring device such as connecting multiple plugs to an outlet.

Failure to do so may result in fire or electric shock.

- Notes on batteries
- Do not put batteries in the fire, or do not heat, short circuit or disassemble them.
 - Do not charge the included batteries.
 - Do not use batteries other than those specified.

Failure to do so may result in fire or electric shock.

- Do not use the product at:
- Places where the use is prohibited, such as in hospitals and on airplanes.
 - Places within reach of babies and toddlers.

Use at such places can cause equipment to malfunction due to radio waves and lead to accidents, or cause electric shock and injuries.



Caution Failure to follow the instructions may result in injuries or property damages.

- Notes on installation
- Installation must be carried out safely and securely in accordance with the relevant regulations for technical standards of electrical installation.

Failure to do so may result in accidents.

- Notes on installation
- Take care not to damage wiring or piping.

Failure to do so may result in damage to surrounding items.

- General notes on the camera
- Do not touch the edges of metal parts with bare hands.
 - Be careful not to get your fingers caught when installing.

Failure to do so may result in injuries.

- Notes on batteries
- Remove the batteries when they have been used up or will not be used for a long time.
 - When replacing the batteries, replace both batteries at the same time. Also, do not use different types of batteries together.
 - Make sure + and - of the battery are oriented correctly.
 - If any liquid from inside the battery gets on your body due to leakage, rinse it off thoroughly with water.

Failure to do so may result in injuries and malfunctions.

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- Important**
- Do not install the camera in places where radiation, X-rays, strong radio waves or strong magnetism are generated. It may cause video and audio disturbance, noise, or malfunctions.
 - We recommend the installation of a lightning arrester (a surge protection device) as a measure against failures caused by lightning strikes.
 - Take measures to remove static electricity before performing any procedures.
 - Do not connect power supply cables to the BNC jacks as it may result in damage.
 - Do not connect the PoE cable to the RS-422 terminal.
 - If grounding is performed, make sure to ground the camera and any external devices individually before connecting them with a cable. Failure to do so may damage electrical components.
 - If there is condensation, please wait to power on, until the condensation dissipates.
 - Do not hold the device by the camera head.
 - Do not turn the camera rotator by hand.
 - After turning off the power, do not turn the power on again for at least five seconds.
 - Do not point the camera at strong light sources (such as the sun on a clear day or strong artificial light sources). Internal components such as the image sensor could be damaged.
 - Do not carry the camera on a tripod.

Precautions for Use (Disclaimer)

Compliance with Applicable Laws/intellectual Property Rights: Please note that your use of this product may subject you to certain laws, rules and regulations, including but not limited to, privacy, wiretapping and intellectual property and publicity laws. Please be sure your use of this product and/or any resulting recordings or footage complies with applicable laws, rules and regulations.

Canon Inc. and its affiliates shall have absolutely no liability with respect to any claims made by third parties that your use of this product does not comply with applicable laws, rules and regulations and any resulting claims brought against you by third parties alleging non-compliance with such laws, or otherwise violates any third party's intellectual property, personal, privacy or proprietary rights as a result of your use of the product. We are also not responsible to you for any liability whatsoever resulting from your use, and/or installation of this product, and/or any loss of any recordings or footage.

Limited Warranty: Please check the in-box materials for more information about the limited warranty that pertains to your product.

Installation: This product should NOT be installed outdoors. You are solely responsible for the proper installation of this product. **To the extent permitted by law, Canon Inc. and its affiliates shall have absolutely no liability to you with respect to any damages or liabilities associated with the improper use of, or the installation of this product, or for any personal injuries sustained by you or any third parties as a result of any such improper use or installation of this product, whether or not the installation of this product was by you, or by any third party.**

Privacy:

- Do not install this product in areas where people have a reasonable expectation of privacy, including but not limited to, bedrooms, dressing rooms, locker rooms and rest room facilities.
- Some jurisdictions require signage disclosing the existence of camera equipment. Please check your own area's laws for requirements.
- Making audio recordings is heavily regulated and can vary significantly by area. Please check laws in your jurisdiction before making any audio recordings.

OTHER IMPORTANT INFORMATION: Please see other important information pertaining to the use of this product by reading our Settings Guide, which can also be found at global.canon.com/nscsp, prior to using this product.

About lamp

Lamp	Lamp status	Status
STATUS lamp	Orange light ON	Standby Power shortage
	Orange light BLINKING	PT position error Firmware being updated Device failure Cooling fan error
POWER lamp	Orange light ON	Standby
	Green light ON	Power on
	Green light BLINKING	Initializing (Starting and restarting) IR remote control signal received (Blinks twice) Moving to or returning from standby Device failure Cooling fan error
Tally lamp	Red light ON	Distributing data
	Green light ON	Preparing to distribute data

For details on the location of each lamp, refer to the "Installation Guide/Important Information" [2/2].

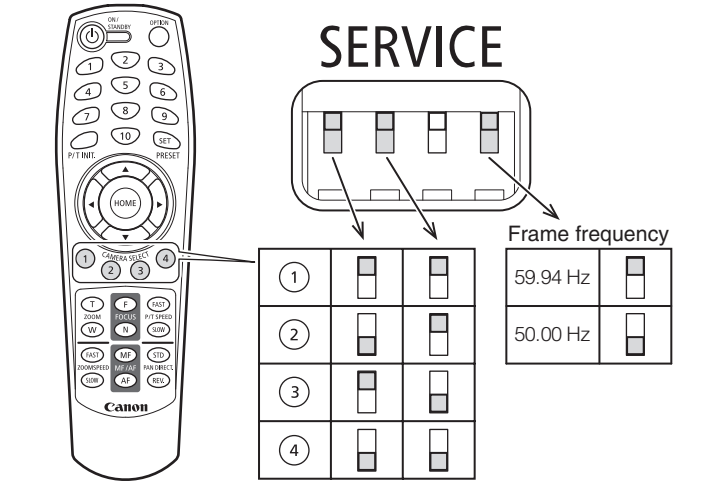
Before using the camera

Initial settings

Be sure to make the initial settings before use. Even if you have not configured the initial settings, HDMI/SDI video is output and can be used for simple operation checks and other tasks as long as a LAN cable is not connected.

SERVICE switch settings

Set the camera number to be operated by the IR remote controller and frame frequency of the output video. Switches should be set before turning on the power.



Notes for When and After Installing the Camera

When Installing the Camera

Installation at high places



Caution Request a professional installer for all installation work. Never try to install the camera yourself. Doing so may result in unforeseen accidents such as dropping the camera or electric shock.

When installing the camera at a high place, use the ceiling plate to fix the camera. Fix the ceiling plate tightly with four M4 screws (pan head, binding head, etc.).

When working with the camera upside down, support the camera to prevent it from wobbling in order to attach or remove the rubber feet or the camera-to-mount safety wire. Keep the four rubber feet and four screws that have been removed for reuse in case of a change in the installation.

Ceiling mount

The camera is hung upside down from the ceiling or other location using the ceiling plate.

The procedure provided in the "Installation Guide/Important Information" [2/2] explains this installation method. The weight of the camera (body only) is Approx. 4.4 kg (9.7 lb.). Reinforce the ceiling depending on its structure and material to ensure the sufficient holding strength to support the total weight including the camera and the mounting parts, and install.

Standing mount

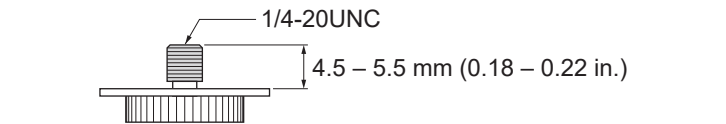
The camera is fixed to a high place using the ceiling plate.

Follow the same procedure as for the ceiling mount, except for the direction of the camera and logo plate inversion.

Tripod mount

Attach the tripod by fixing two screws to the two screw holes for tripod. Use 1/4-20UNC screws and tighten them securely, and set the tripod on a flat surface with no steps.

Also refer to the instructions in the "Installation Guide/Important Information" [2/2], if necessary.

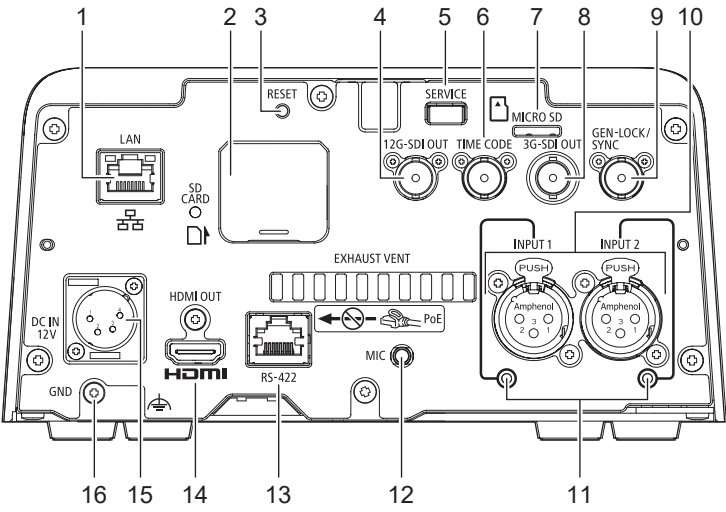


Desktop

Install the camera on a stable, horizontal surface such as a table.

Also refer to the instructions in the "Installation Guide/Important Information" [2/2], if necessary.

Connecting the Camera



1. LAN terminal

This terminal is for a network connection (RJ-45 connector).

The built-in PoE++ (Power over Ethernet++) function allows the camera to be powered by a PoE++ HUB that complies with IEEE802.3bt Type 3 or higher via a LAN cable.

Use a category 5e or higher STP (shielded type) LAN cable, up to 100 m (328 ft.) in length.

Important

- Some PoE++ HUBs can limit the power for each port, but applying limits may interfere with performance. In this case, do not limit the power.
- Some PoE++ HUBs have limits for the total power consumption for the ports, which can interfere with performance when multiple ports are in use. For more information, check the instruction guide for the corresponding PoE++ HUB.

2. SD card slot

3. RESET switch

Initialize the camera settings to the factory defaults. Refer to the "Settings Guide" for details.

4. 12G-SDI OUT terminal

Terminal for 12G-SDI output (BNC).

5. SERVICE switch

Set various functions.

(Refer to "Before using the camera" > "SERVICE switch settings".)

6. TIME CODE terminal

Terminal for time code input/output (BNC).

7. Memory card slot

For future expansion.

8. 3G-SDI OUT terminal

Terminal for 3G-SDI output (BNC).

9. GEN-LOCK/SYNC terminal

Terminal for the synchronization signal input/output (BNC) to synchronize the videos from the camera and external devices.

If the reference signal is unstable, external synchronization is not possible. Subcarriers do not synchronize.

10. INPUT1/INPUT2 terminal

XLR terminals for audio input. It can be used for microphone/line input.

- Microphone power (Phantom power): 48 V DC

11. LED for phantom power supply

It is lit in blue when the phantom power is supplied.

12. MIC terminal

Stereo Φ 3.5 mm (Φ 0.14 in.) terminal for audio input. It can be used for microphone/line input.

- Microphone power: 2.4 V DC

13. RS-422 terminal

Serial terminal (RJ-45 connector) for RS-422.

Connect the GNDs on both ends to stabilize the voltage level of the signal. Use category 5e or higher STP cables.

Pin number	Function	
1	TX-	Output (-)
2	TX+	Output (+)
3	RX-	Input (-)
4	GND	–
5	GND	–
6	RX+	Input (+)
7	NC	–
8	NC	–

14. HDMI OUT terminal

Terminal for HDMI output.

15. DC IN 12V terminal

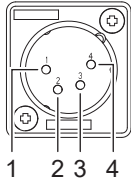
Power supply terminal for the external DC power supply.

Connect to the power supply that meets the installation site requirements (approved products and the environment) and product specifications.

In addition, note that inrush current may cause the power supply to be insufficient and cause failure when power is turned on. Therefore, it is recommended to use a power supply with a power capacity of two to three times the rated capacity or more.

- Input: 10.8 V – 20 V DC, 3.5 A (acceptable maximum load current). 4-pin XLR connector.

Pin number	Function
1	GND
2	NC
3	NC
4	10.8 – 20 V DC



16. GND terminal

Ground terminal of the camera.

Note

- The camera is not equipped with a power switch. To turn the camera on and off, insert and remove the cable of the external DC power supply connected to the "15. DC IN 12V terminal" or the PoE++ HUB connected to the "1. LAN terminal", which supplies power.
- When both the PoE++ HUB and the external DC power supply are connected, the external DC power supply takes priority. If the external DC power supply is disconnected while both are connected, power to the camera will be interrupted. In this case, the power will switch to PoE++ (LAN cable), and the camera will restart.
- The audio input terminals ("10. INPUT1/INPUT2 terminal", "12. MIC terminal") and microphones should be set using the Settings Page. Refer to the "Settings Guide" for details.

Specifications

Please refer to the 'Specifications' in the 'Appendix' of the "Settings Guide" for specifications not listed below.

Pan operation range: Horizontal $\pm$ 170°

Tilt operation range: Vertical -30° – +90°

Operating Environment: Temperature: 0°C – +40°C (+32°F – +104°F)

Humidity: 10% – 90% (without condensation)

Storage Environment: Temperature: 0°C – +40°C (+32°F – +104°F)

Humidity: 10% – 90% (without condensation)

Power Consumption: PoE++ Input: Approx. 37.4 W* max. (body only)

DC Input: Approx. 36.7 W max. (body only)

*Class 5 (40.0 W required) for power supply devices

Dimensions (W x H x D): Approx. 200 x 269 x 208 mm (7.87 x 10.59 x 8.19 in.) (excluding protrusions)

Weight: Approx. 4.4 kg (9.7 lb.) (body only)

Country Regulations

About wireless communication

Regarding countries and regions where radio communication functions are acceptable

Since the utilization of the radio communication functions can be legally restricted by a country or region, it may not be possible to utilize out of the country or the region where the product is purchased. Canon shall not be liable for any incidents that may incur as a result of the utilization of the radio communication functions in any country or region other than where the product is purchased.

FCC NOTICE

Remote Camera, Model Name: CR-N700

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 a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. 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.

Use of shielded cable is required to comply with class A limits in Subpart B of Part 15 of FCC Rules.

Model: CR-N700 (including WLAN Module Model ES202, FCC ID: AZD239 / IC: 498J-239)

This device complies with Part 15 of FCC Rules and ISED's applicable licenceexempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept anyinterference, including interference that may cause undesired operation of this device.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

FDA regulation

This product has not been evaluated by the Food and Drug Administration (FDA) for use as a medical device. When incorporated into a system with medical applications, FDA regulations may apply. Therefore, please consult your legal advisor to determine whether FDA regulations apply.



European Union regulatory notices:

Remote Camera, Model Name: CR-N700

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Use of shielded network cable is required to comply with Class A limits in EN55032.

Wireless LAN Specifications

Frequency range: 2,401 MHz – 2,473 MHz

Maximum output power: 9.48 dBm

For EU

Hereby, Canon Inc., declares that the radio equipment type CR-N700 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>

For UK

Hereby, Canon Inc., declares that the radio equipment type CR-N700 is in compliance with the relevant statutory requirements. The full text of the declaration of conformity is available at the following internet address:

<https://www.canon-europe.com/ce-documentation/>

Only for European Union and EEA (Norway, Iceland and Liechtenstein) and United Kingdom

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Regulation ((EU) 2023/1542) and/or national legislation implementing those Directive and Regulation and the UK Waste Electrical and Electronic Equipment Regulations and the UK Batteries and Accumulators Regulations.

If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Regulation and the UK Batteries and Accumulators Regulations, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Regulation and the UK Batteries and Accumulators Regulations. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canon-europe.com/sustainability/approach/.

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