# Thank you for purchasing a Canon product.

Timer Remote Controller TC-80N3 is a remote switch with the following timer control and exposure count control functions. It is very useful for time-lapse photography of blooming flowers, astrophotography, etc.

(1) Self-timer

(2) Interval timer

(3) Long exposure timer

(4) Exposure count control

(5) Remote switch function

- Connectable to the camera's quick-lock remote control socket.
- The time is settable in 1-sec. units from 1 sec. to 99 hours, 59 minutes, and 59 sec. The set time period can be used for any timer function.
- The remote switch function can be used without battery power.
- Extension Cord ET-1000N3 (sold separately) can extend the TC-80N3's distance to the camera by 10 meters.

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Symbols used in this Instructions booklet:

 ❸: Warning for preventing camera and TC-80N3 malfunction.

 🔳: Supplementary notes for using the TC-80N3 with the camera.

 ☀: Helpful tip for using the TC-80N3 and taking pictures.

- Keep this Instructions booklet handy for future reference.

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All the instructions in this booklet assume that the TC-80N3 and any other equipment are already turned on. Before proceeding, make sure the TC-80N3 and other equipment are on.

# Contents

## About the LCD Panel

The display panel uses a liquid crystal display. With time, the display will become lighter and harder to read. In such a case, take the product to your nearest Canon Service Center to replace the display panel (at cost). At low temperatures, the display response may beccome slower. And at 60°C/140°F and higher temperatures, the display may blacken. In either case, the display will return to normal at room temperature.

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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.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.
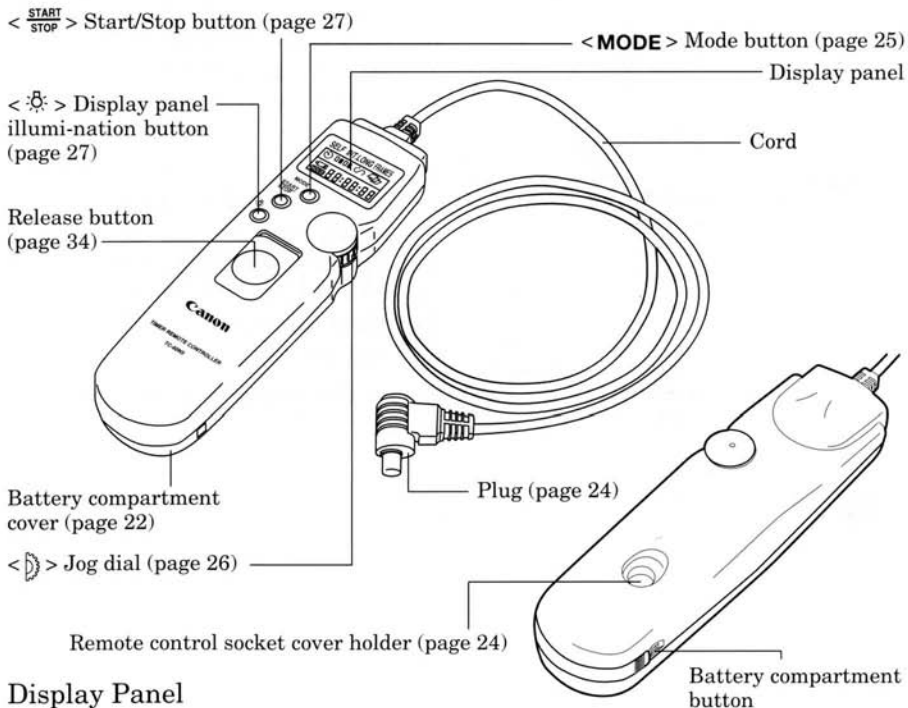
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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:
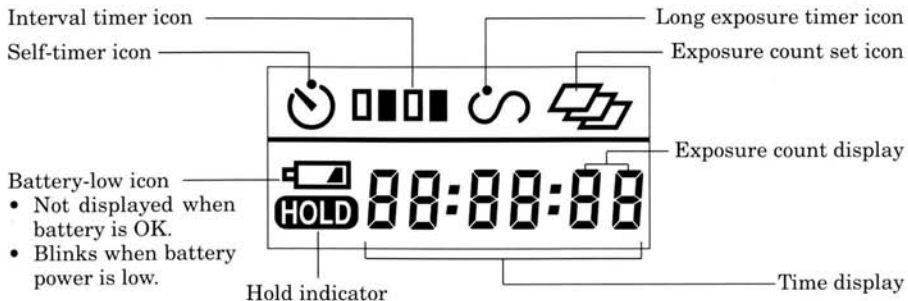
· Reorient or relocate the receiving antenna.
· Increase the separation between the equipment and receiver.
· Consult the dealer or an experienced radio/TV technician for help.

# Nomenclature

- In the text, the TC-80N3's buttons and dial are indicated by their respective icons.
- Reference page numbers are indicated in parentheses.
- The ( ⟳6 ) icon indicates that the respective function or setting remains effective for 6 seconds after you take your finger off the respective button.

< $\frac{START}{STOP}$ > Start/Stop button (page 27)

< ☼ > Display panel illumi-nation button (page 27)

Release button (page 34)

Battery compartment cover (page 22)

< ◗ > Jog dial (page 26)

Remote control socket cover holder (page 24)

< **MODE** > Mode button (page 25)

Display panel

Cord

Plug (page 24)

Battery compartment button

## Display Panel

Interval timer icon

Self-timer icon

Long exposure timer icon

Exposure count set icon

Battery-low icon
- Not displayed when battery is OK.
- Blinks when battery power is low.

Hold indicator

Exposure count display

Time display

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# 1. Installing the Battery

The TC-80N3 uses one lithium CR2032 battery.

• To prevent camera misoperation, disconnect the TC-80N3 from the camera before installing the battery.
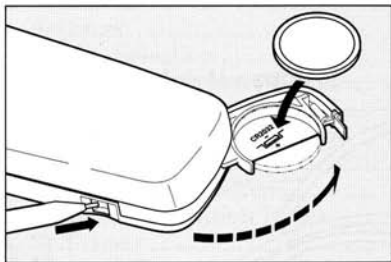


**1** Use the tip of a ball-point pen or similar instrument to press the battery compartment button. Then open the battery compartment cover as shown in the figure.

**2** Put the battery on the battery compartment cover. Refer to the + − markings on the cover and make sure the battery orientation is correct. If the battery is installed incorrectly, the TC-80N3 will not operate.

**3** Close the battery compartment cover.

If the battery contacts are soiled, corrosion or improper electrical contact may result. Before installing the battery, wipe the battery contacts with a clean cloth.

# ● Battery Check

When the battery level is adequate, the 🔋 icon will not be displayed.

- Battery life is about 3 years.

When the 🔋 icon blinks on the display panel, replace the battery with a new one.

- If you continue to use the TC-80N3 while the 🔋 icon blinks, TC-80N3 operation or picture-taking may stop suddenly.

- The TC-80N3 does not have a power switch.
- When the battery is removed, all TC-80N3 settings will be cleared.
- In low temperatures, battery performance may be affected temporarily. It should return to normal at room temperature.
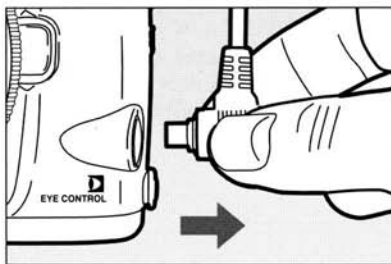
# 2. Connection to the Camera
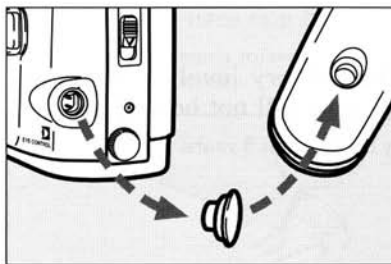


**1** Remove the camera's remote control socket cover.

- Put the remote control socket cover into the TC-80N3's remote control socket holder.
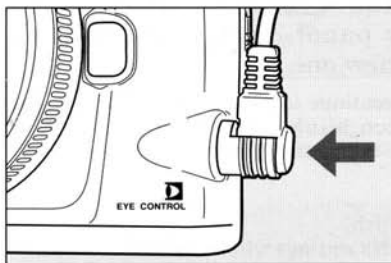


**2** Insert the TC-80N3's plug into the camera's remote control socket.

- The plug and socket will lock together.
- To push in the plug, press the top of the plug. Do not grasp the silver part of the plug. Touching the silver part will prevent the plug from locking onto the socket.
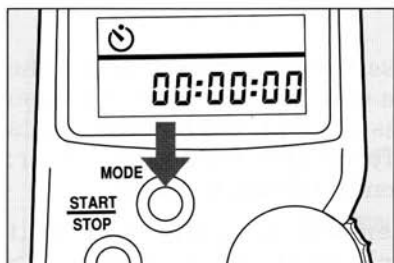


## ● Disconnection from the Camera

To disconnect the plug from the socket, grasp the plug's silver part and pull it out as shown in the figure.
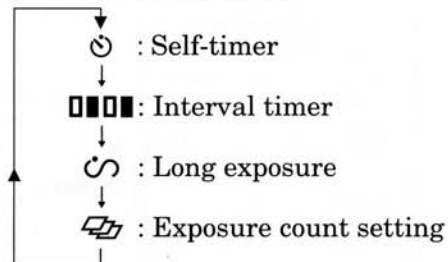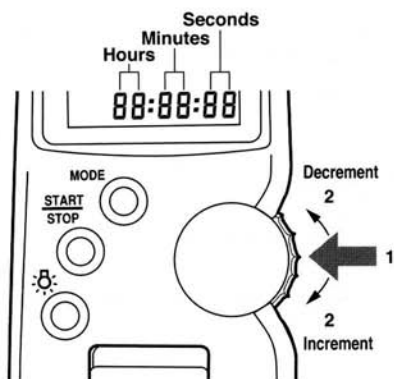
# 3. Settings

## ● Mode Selection



Press the **<MODE>** button to select the desired mode.

• Each time the button is pressed, the mode changes in the following loop:

    ↺ : Self-timer
↓
◻◼◻◼ : Interval timer
↓
↻ : Long exposure
↓
▱ : Exposure count setting

# ● Setting the Time and Exposure Count

(1) Setting the time for (⟳)(▯■▯■)(↻)



1 Press the <𝒟> dial to select the time unit to be set. Each time you press the dial, the blinking digits shift in the following order: Seconds→minutes→hour.

2 After selecting the time unit (blinking digits), turn the <𝒟> dial to set the desired time for that time unit.

• The time can be set from 1 sec. to 99 hours, 59 minutes, and 59 sec. For example, follow the steps below to set the time to 1 hour, 2 minutes, and 30 sec.

① 00:00:00  Initial display.

② 00:00:00⟨𝒟  ← Select the seconds display.

③ 00:00:30⟨𝒟⟩  Set the seconds.

④ 00:00:30 𝒟  ← Select the minutes display.

⑤ 00:02:30 𝒟⟩  Set the minutes.

⑥ 00:02:30 𝒟  ← Select the hours display.

⑦ 01:02:30 𝒟⟩  Set the hours.

⑧ 01:02:30 𝒟  ← Register the time setting.
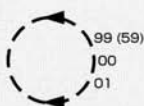
• The Jog dial turns in either direction without stopping.
• To set only the seconds, just complete steps 2 and 3. To set the seconds and minutes only, just complete the procedure up to step 5. You can then start the timer or change the mode with the set time taking effect.

# (2) ( ⌖ ) Exposure Count Setting
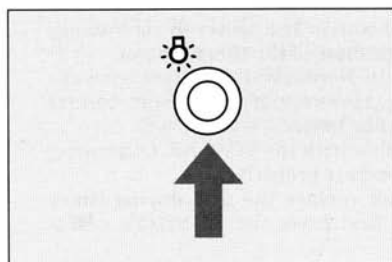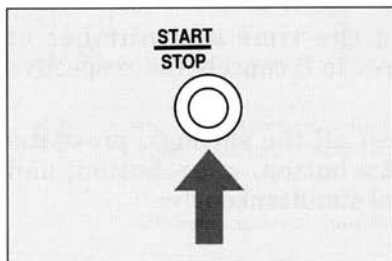
**Setting the Exposure Count**
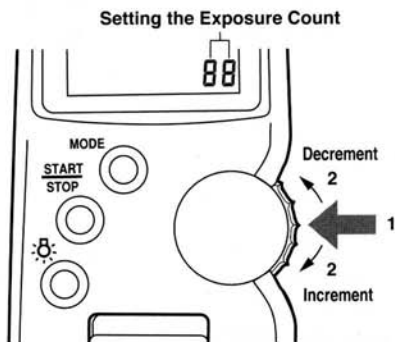
1 Press the ( 🝆 ) dial to select the exposure count display which will start blinking.

2 Turn the ( 🝆 ) dial to set the desired number of exposures.

• Follow the steps below to set the number of exposures (max. 99).

① 00         Initial setting.

② -00- 🝆 ← Select the exposure count display.

③ -30- 🝆)    Set the desired number of exposures.

④ 30   🝆 ← Register the number of exposures.

## ● Start/Stop

After selecting the mode, press the < START STOP > button to start the timer operation. To stop the timer operation, press the button again. The timer operation settings will remain in effect.

## ● Display Panel Illumination

To illuminate the display panel, press the < ☀ > button. The illumination lasts for 6 sec. To turn off the illumination, press the button again.

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## ● Hold Function

The Hold function disables all the TC-80N3's buttons (except < ☼ >) and dial to prevent any inadvertent alteration of the settings after the mode is set. It also prevents the < $\frac{START}{STOP}$ > button from accidentally stopping an operation that has started. Press and hold down the < ☼ > button for at least 3 sec. until the **HOLD** indicator appears. To cancel this function, press and hold down the < ☼ > button for at least 3 sec. until the **HOLD** indicator turns off.
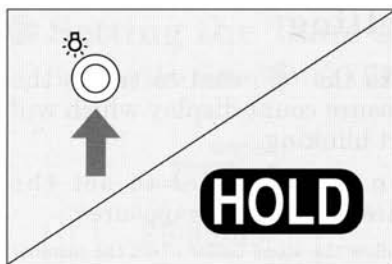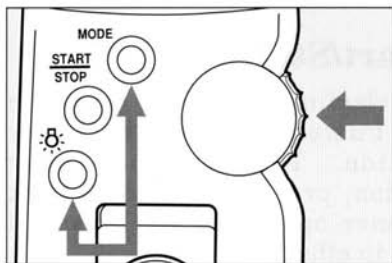
Before taking pictures, check that the **HOLD** indicator is off. Then press the < $\frac{START}{STOP}$ > button.

## ● Canceling the Settings

Setting the time and number of exposures to 0 cancels the respective mode.

To cancel all the settings, press the < **MODE** > button, < ☼ > button, and < )) > dial simultaneously.

**Camera Operation Notes**

- Set the film advance mode to single shooting. If it is set to continuous, continuous shooting may take effect regardless of the timer control.
- For unattended shooting, focus manually. Normally, the camera executes AE and AF before taking the picture. However, if the camera cannot autofocus the subject, the picture cannot be taken.
- Do not use the camera's self-timer together with the TC-80N3. Otherwise, the TC-80N3's timer function may not operate properly.
- To protect the camera's shutter, do not replace the film during timer operations. Before replacing the film, first press the TC-80N3's < $\frac{START}{STOP}$ > button to stop the timer operation.

# 4. Self-timer

Set the camera's film advance mode to single shooting, then follow the procedure below.
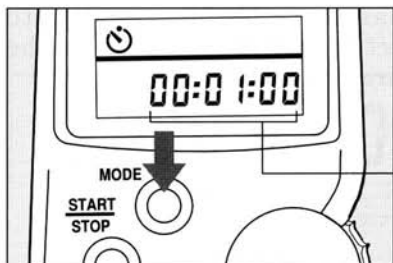


**1** Press the < **MODE** > button to select the ⏱ mode, then set the desired delay time.
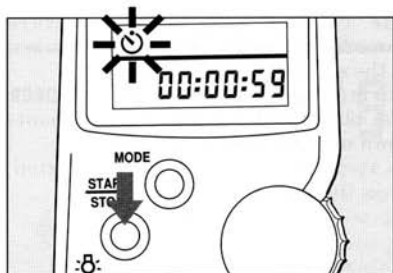


**2** Connect the TC-80N3 to the camera and press the < START/STOP > button.

- The ⏱ icon will start blinking and the time display will count down.
- When the delay time elapses, the picture will be taken.
- To cancel the self-timer before the picture is taken, press the < START/STOP > button again.

- For bulb exposures, select the long exposure mode. Setting the camera to *buLb* will not result in a bulb exposure unless the TC-80N3's long exposure mode is also set.
- If you are using an AE mode, cover the camera's eyepiece to ensure accurate exposure metering.

- If the long exposure mode and interval timer mode are set in combination, the long exposure and interval timer will start after the self-timer delay elapses.
- If the exposure count is set to 00 (blank setting), the number of time interval shootings will be unlimited.

# 5. Interval Timer

Set the camera's film advance mode to single shooting, then follow the procedure below.

```
□■□■

00:00:30
```

1 Press the <**MODE**> button to select the □■□■ icon, then set the desired <u>time interval</u>.

```
─□■□■─

00:00:29
```
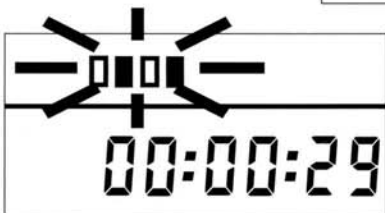
2 Press the <$\frac{START}{STOP}$> button.

- The camera will take a picture immediately. One picture will be taken at the set intervals thereafter.
- During each time interval, the □■□■ icon blinks and the time display counts down until the next picture is taken.
- To stop the interval timer operation, press the <$\frac{START}{STOP}$> button.

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- Set a time interval that is longer than the total time of the shutter speed and film advance time. Otherwise, continuous shooting will result.
- When using flash during an interval timer operation, the time interval must be longer than the flash recharge time. If it is shorter than the flash recharge time, shutter release-priority AE will take effect.

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- With Canon Speedlites having the SE (Save Energy) feature, the SE mode is canceled and the flash is recharged automatically one minute before the picture is taken.

# 6. Long Exposures

Set the camera's picture-taking mode to bulb and the film advance mode to single shooting. Then follow the procedure below.

ᘓ

00:02:30

**1** Press the <**MODE**> button to select the ᘓ icon, then set the desired exposure time.

00:02:29

**2** Press the <⁠START/STOP⁠> button.

- The long exposure will start.
- The ᘓ icon will blink and the exposure time will start to count down.
- To cancel the long exposure, press the <⁠START/STOP⁠> button again.

❶ If the camera's picture-taking mode is set to a mode other than bulb, continuous exposures will be made during the "long exposure" period or until the film runs out, whichever is faster.

# 7. Setting the Exposure Count

If only the number of exposures is set and the < START/STOP > button is pressed, the number of exposures will be taken at one-second intervals. When the number of exposures is set in combination with a timer mode, the result will be as described below. For details, see page 33.

- ○ : After the self-timer delay, the set number of exposures will be taken at one-second intervals.
- ▯▮▯▮ : The set number of exposures will be taken at the set time intervals.
- ⌒ : Since the set number of exposures will be taken at one-second intervals, this is not a suitable combination.
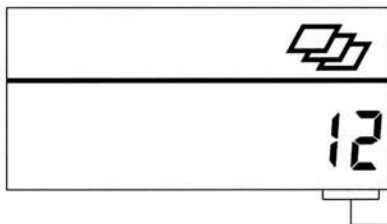
**1** Press the < **MODE** > button to select the ⌹ icon. Set the desired number of exposures.

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- For autoexposure bracketing and flash exposure bracketing, set the number of exposures to 3.
- For multiple exposures, set the desired number of multiple exposures.
- If flash is used, the flash recharge time may not be able to keep up with the set number of exposures. Therefore, set the interval timer so that the flash will have enough time to recharge between exposures.

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- If the number of exposures is set for the ▯▮▯▮ or ⌒ modes, the remaining number of exposures is not displayed.
- If the number of exposures is set to 00 (blank setting), the number of time interval shootings will be unlimited.

# 8. Mode Combinations

The modes can be used in combination as described below.

- When a mode combination has been set and shooting begins, the mode icons are displayed. The icon of the currently active mode also blinks.

| No. | Self-timer | Interval | Long exp. | Exp. count | Description | Application |
|---|---|---|---|---|---|---|
| 1 | ● | | | | Self-timer operates, | Specifies the time for starting the shooting. |
| 2 | | ● | | | Interval timer operates. | For time-lapse photography (blossoming flowers, etc.). |
| 3 | | | ● | | For long exposures. | For astrophotography. |
| 4 | | | | ● | The set number of exposures is taken at 1-second intervals. | Sets the number of exposures for No. 1 and No. 2. |
| 5 | ● | ● | | | After the self-timer delay, interval timer operation begins. | For time-lapse photography (blossoming flowers, etc.). |
| 6 | ● | | ● | | After the self-timer delay, the long exposure begins. | For astrophotography. |
| 7 | ● | | | ● | After the self-timer delay, the set number of exposures is taken at 1-second intervals. | |
| 8 | | ● | ● | | The long exposure is taken at the set intervals. | |
| 9 | | ● | | ● | The set number of exposures is taken at the set intervals. | For time-lapse photography (blossoming flowers, etc.). |
| 10 | ● | ● | ● | | After the self-timer delay, the long exposure is taken at the set intervals. | |
| 11 | ● | ● | | ● | After the self-timer delay, the set number of exposures is taken at the set intervals. | For time-lapse photography (blossoming flowers, etc.). |
| 12 | | ● | ● | ● | The set number of long exposures is taken at the set intervals. | |
| 13 | ● | ● | ● | ● | After the self-timer delay, the set number of long exposures is taken at the set intervals. | |
| 14 | | | ● | ● | Incompatible combination. The No. 3 setting will be set automatically. | |
| 15 | ● | | ● | ● | Incompatible combination. The No. 6 setting will be set automatically. | |

# 9. Remote Switch Function

The TC-80N3's release button can be used in the same way as Remote Switch RS-80N3. The remote switch function does not require battery power.
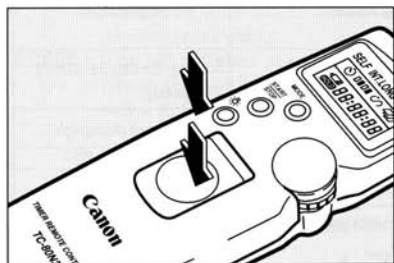


The release button can be pressed halfway or all the way. Pressing it halfway activates the autofocus and sets the shutter speed and aperture settings. Pressing it completely takes the picture.
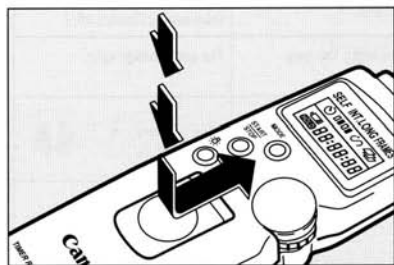


For long exposures or continuous shooting, press the release button completely and slide it in the direction of the arrow. This locks the button in the depressed position. To release the depressed button, slide the button back to its original position.

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- Even when ▯▮▯▮ or ○ is active, you can still take a picture immediately by pressing the release button or the camera's shutter button.
- The current mode or set number of exposures will not be affected when the release button is used. The release button does not function during a long exposure.

# Major Specifications

| Type | Remote switch with built-in timer control functions and exposure count control. |
|---|---|
| Compatible Cameras | Cameras equipped with a dedicated quick-lock remote control socket |
| Control Functions | The < **MODE** > button selects the mode and the Jog dial sets the time or number of exposures. Various modes can be combined. |

| | | |
|---|---|---|
| | Self-timer | |
| | Interval timer | 1 sec. to 99 hours, 59 minutes, 59 sec. |
| | Long exposure timer | |
| | Exposure count | 1 to 99 |

| Timer Start/Stop | With < $\frac{START}{STOP}$ > button |
|---|---|
| In-Operation Indicator | Indicated by the mode's icon displayed or blinking on the display panel and by the countdown of the remaining time or exposures. |
| Hold Function | **HOLD** appears when the < ☼ > button is pressed for 3 sec. This disables all other buttons and dial. The Hold function is canceled by pressing the < ☼ > button for 3 sec. again. |
| Display Panel Illumination | Pressing the < ☼ > button illuminates the display panel for 6 sec. |
| Release Button | Provided for halfway and complete pressing. Release lock provided. Can be used to release the shutter even during self-timer and interval timer operations. |
| Camera Connection | Quick-lock remote control socket |
| Cord Length | 80 cm |
| Power Source | One lithium CR2032 (3 V) button battery |
| Battery Life | Approx. 3 years. Exhausted battery indicated by a blinking battery-low icon on the display panel. |
| Dimensions | 40 (W) × 20 (H) × 143 (D) mm / 1.57 (W) × 0.8 (H) × 5.63 (D) in |
| Weight | 85g / 3oz (including battery) |

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par l'Industrie Canada.

CE   The CE Mark is a Directive conformity mark of the European Community (EC)

•All data are based on Canon's Standard Test Method.
•Subject to change without notice.