



PowerShot GOLF



Advanced User Guide

This manual is for PowerShot GOLF with firmware version 1.0.0 or later installed.

Contents

Introduction.....4

 Package Contents..... 5

 Instruction Manuals..... 6

 Steps to Use the Rangefinder Immediately..... 7

 About This Guide..... 10

 Compatible Cards..... 11

 Safety Instructions 12

 Handling Precautions 15

 Understanding rangefinder 17

 Part Names 19

Preparation and Basic Operations.....20

 Charging the Rangefinder..... 21

 Inserting/Removing Cards..... 22

 Turning on the Power 25

 Basic Operations 26

 Menu Operations and Settings..... 31

Range35

 Using the Rangefinder..... 36

 Still Photo Shooting..... 40

 Movie Recording..... 42

 Mode..... 44

 SLOPE..... 45

 Unit..... 46

 Vibration 47

Shooting	48
Exposure Compensation	49
Continuous AF	51
Movie Recording Size	53
Playback	55
Play	56
Erasing Images	60
Formatting	63
Set-up	65
Date/Time/Zone	66
Power Saving	71
Video System	73
Language	74
Clear all Rangefinder settings	76
Other Information	77
Reference	78
Troubleshooting Guide	79
Error message	83
Information Display	84
Specifications	86
Before Disposal	93
Trademarks and Licensing	97

Introduction

Read before you start use

This product is a laser rangefinder with a camera attached.

To avoid use problems and accidents, first read the [Safety Instructions](#) and [Handling Precautions](#). Also read this Advanced User Guide carefully to ensure that you use the rangefinder correctly.

Take some test shots, and understand about product liability

After shooting, play images back and check whether they have been properly recorded. If the rangefinder or memory card is faulty and the images cannot be recorded or downloaded to a computer, Canon cannot be held liable for any loss or inconvenience caused.

Copyrights

Unauthorized public use of images captured with the Rangefinder that include copyrighted subjects may be prohibited by law. Also be aware that certain public performances, exhibitions, etc. may prohibit photography even for private enjoyment.

Firmware version

Update the firmware by downloading the latest version from the Canon website. Updating the firmware will automatically turn the rangefinder off.

Connecting other devices

Use the interface cable or a Canon cable when connecting the rangefinder to a computer or other device. Use of cables that are no longer than 1m is recommended.

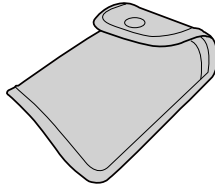
- [Package Contents](#)
- [Instruction Manuals](#)
- [Steps to Use the Rangefinder Immediately](#)
- [About This Guide](#)
- [Compatible Cards](#)
- [Safety Instructions](#)
- [Handling Precautions](#)
- [Understanding rangefinder](#)
- [Part Names](#)

Package Contents

Before use, make sure the following items are included in the package. If anything is missing, contact your dealer.



Rangefinder



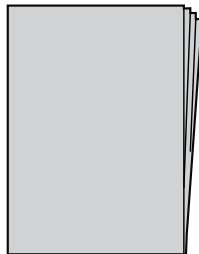
Case

- A memory card (📁) is not included.
- The battery is built into the rangefinder.
- Be careful not to lose any of these items.

! Caution

- The transmission rate with the interface cable is equivalent to Hi-Speed USB (USB 2.0).

Instruction Manuals



The Instruction Manual, which describes Rangefinder features and provides instructions up to turning the Rangefinder on, is included with the Rangefinder.

- **Advanced User Guide**

Complete instructions are provided in this Advanced User Guide.

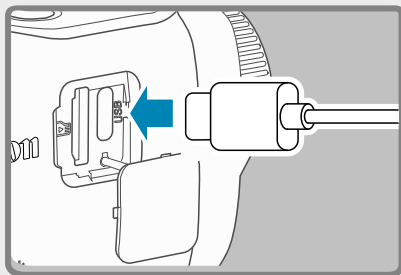
For the latest Advanced User Guide, refer to the following website.

<https://cam.start.canon/C019/>



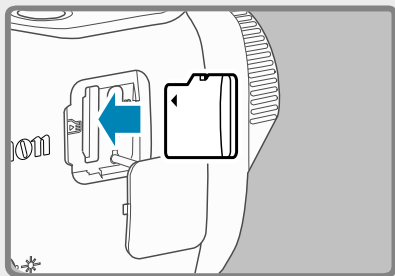
Steps to Use the Rangefinder Immediately

1. Charge the Rangefinder (🔗).

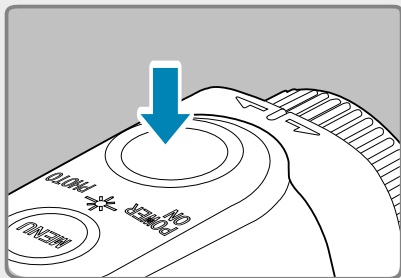


- Charge the Rangefinder initially before use (🔗).

2. Insert a card (🔗).

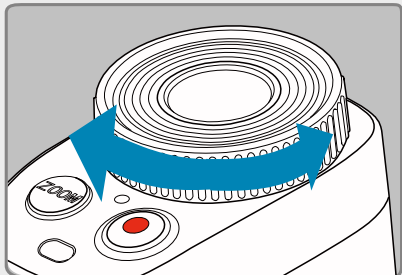


3. Turn the Rangefinder on (🔗).



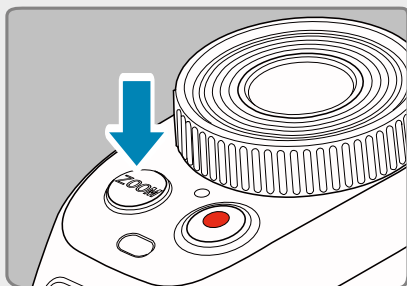
- Press the < POWER ON / * / PHOTO > button.

4. Adjust the viewfinder (🔍).



- Turn the dioptic adjustment dial until the image in the viewfinder looks the sharpest.

5. Zoom in.



- Press the < **ZOOM** > button to switch the zoom.

6. Focus on the subject (📷).



- When shooting, adjust the < **LASER** > laser ranging switch to <OFF>.



- When shooting and ranging, adjust the < **LASER** > laser ranging switch to <📏>.

- Look through the viewfinder and center the subject on the screen.
- Press the shutter button halfway, and the Rangefinder will focus on the subject.
- To shoot, press the shutter button completely.

7. Review the picture.



- If you want to view the captured image, press and hold the < **MENU** > button for a few seconds or use the [▶]: **Play**] menu (📷).

About This Guide

 [Icons in This Guide](#)

 [Basic Assumptions for Operational Instructions and Sample Photos](#)

Icons in This Guide

< POWER ON /  / PHOTO > Indicates the Set button.

- In reference to buttons or setting positions, the guide also uses the same icons or display items found on Rangefinder buttons and in the viewfinder.



Links to pages with related topics.



Warning to prevent shooting problems.



Supplemental information.

Basic Assumptions for Operational Instructions and Sample Photos

- Instructions apply to the Rangefinder with the power on (.
- It is assumed that all menu settings are set to defaults.
- Sample photos in this guide are only for illustration.

Compatible Cards

In this guide, all supported memory cards are simply referred to as “the card.”

The following cards can be used with the rangefinder regardless of capacity.

If the card is new or was previously formatted (initialized) by another camera or computer, format the card with this Rangefinder .

- **microSD / microSDHC / microSDXC™ memory cards**

- * UHS-I compatible.

Cards That Can Record Movies

When recording movies, use a card with ample performance (fast enough writing and reading speeds) for the movie recording quality .

Safety Instructions

Be sure to read these instructions in order to operate the product safely. Follow these instructions to prevent injury or harm to the operator of the product or others.

 **WARNING:** Denotes the risk of serious injury or death.

- Keep the product out of the reach of young children.

A strap wrapped around a person's neck may result in strangulation.

The parts or provided items of rangefinder or accessories are dangerous if swallowed. If swallowed, seek immediate medical assistance.

- Use only power sources specified in this instruction manual for use with the product.
- Do not disassemble or modify the product.
- Do not expose the product to strong shocks or vibration.
- Do not touch any exposed internal parts.
- Stop using the product in any case of unusual circumstances such as the presence of smoke or a strange smell.
- Do not use organic solvents such as alcohol, benzene or paint thinner to clean the product.
- Do not get the product wet. Do not insert foreign objects or liquids into the product.
- Do not use the product where flammable gases may be present.

This may cause electric shock, explosion or fire.

- Do not touch the product connected to a power outlet during lightning storms.

This may cause electric shock.

- Please follow the following precautions when charging the product.
 - Periodically remove any dust buildup from the power plug and power outlet using a dry cloth.
 - Do not plug in or unplug the product with wet hands.
 - Do not use the product if the power plug is not fully inserted into the power outlet.
 - Do not expose the power plug and terminals to dirt or let them come into contact with metallic pins or other metal objects.
 - Do not touch the battery charger or AC adapter connected to a power outlet during lightning storms.
- Do not wrap the product in cloth or other materials when in use or shortly after use when the product is still warm in temperature.
- Do not leave the product connected to a power source for long periods of time.
- Do not charge batteries/battery packs at temperatures outside the range of 5 - 40 °C (41 - 104 °F).

This may cause electric shock, explosion or fire.

- Do not allow the product to maintain contact with the same area of skin for extended periods of time during use.

This may result in low-temperature contact burns, including skin redness and blistering, even if the product does not feel hot.

- Follow any indications to turn off the product in places where its use is forbidden.

Not doing so may cause other equipment to malfunction due to the effect of electromagnetic waves and even result in accidents.

This product uses laser invisible to the naked eye.

Although a safety laser is used, it is important to note the following matters:

- Do not look directly at the laser beam or at the laser emitting lens.

Otherwise, it may lead to blindness and visual impairment.

- Please don't shine a laser beam on people's eyes.
- Please do not shine on people.
- When the laser rangefinder is not used, please turn OFF the < **LASER** > switch.

Prevent accidental emission of laser beams.

- Please put the product out of the reach of children.
- Please do not use it within the reach of children.
- Please don't let children play with the laser rangefinder.

Otherwise, they may get hurt.

 **CAUTION:** Follow the cautions below. Otherwise physical injury or property damage may result.

- Do not look through the viewfinder for extended periods of time.

This may induce symptoms similar to motion sickness. In such a case, stop using the product immediately and rest for a while before resuming use.

- Do not leave the product in places exposed to extremely high or low temperatures. The product may become extremely hot/cold and cause burns or injury when touched.

- Strap is intended for use on the body only. Hanging the strap with any product attached on a hook or other object may damage the product. Also, do not shake the product or expose the product to strong impacts.

- Do not apply strong pressure on the lens or allow an object to hit it.

This may cause injury or damage to the product.

- If any abnormal skin reaction or irritation occurs during or following the use of this product, refrain from further use and get medical advice/attention.
- Do not touch the card immediately after extended use.

The card becomes very hot and may cause burns.

- Do not open the terminal cover and touch the terminals or the area around them for an extended period while using the product.

Doing so could cause a low-temperature burn.

- Do not aim the eyepiece at the sunlight.

Focusing the eyepiece may damage the display part of the viewfinder eyepiece.

Handling Precautions

Rangefinder care

- This rangefinder is a precision instrument. Do not drop it or subject it to physical shock.
- The rangefinder is not waterproof and cannot be used underwater. If the rangefinder gets wet, contact a Canon Service Center immediately. Wipe off any water droplets with a clean, dry cloth, and if the Rangefinder is exposed to salty air, wipe it off with a clean, well-wrung wet cloth.
- If water gets on the rangefinder, wipe it off with a dry and clean cloth. If dirt, dust, or salt gets on the rangefinder, wipe it off with a clean, well-wrung wet cloth.
- Using the Rangefinder in dusty or dirty locations may lead to damage.
- Cleaning the Rangefinder after use is recommended. Allowing dirt, dust, water, or salt to remain on the Rangefinder may cause a malfunction.
- Never leave the Rangefinder near anything having a strong magnetic field such as a magnet or electric motor. Also, avoid using or leaving the Rangefinder near anything emitting strong radio waves, such as a large antenna. Strong magnetic fields can cause rangefinder malfunction or destroy image data.
- Do not leave the rangefinder in excessive heat, such as in a car in direct sunlight. High temperatures can cause the Rangefinder to malfunction.
- The rangefinder contains precision electronic circuitry. Never attempt to disassemble the rangefinder yourself.
- If the rangefinder is suddenly brought in from the cold into a warm room, condensation may form on the rangefinder and internal parts. To prevent condensation, first put the rangefinder in a sealed plastic bag and let it adjust to the warmer temperature before taking it out of the bag.
- If condensation forms on the rangefinder, to avoid damage, do not use the rangefinder or remove the card. Turn the rangefinder off and wait until the moisture has fully evaporated before resuming use. Even after the rangefinder is completely dry, if it is still internally cold, do not remove the card until the rangefinder has adjusted to the ambient temperature.
- If the rangefinder will not be used for an extended period, store it in a cool, dry, well ventilated location. Even while the rangefinder is in storage, press the shutter button a few times once in a while to check that the Rangefinder is still working.
- Avoid storing the rangefinder where there are chemicals that result in rust and corrosion such as in a chemical lab.
- If the rangefinder has not been used for an extended period, test all its functions before using it. If you have not used the Rangefinder for some time or if there is an important shoot such as a foreign trip coming up, have the Rangefinder checked by your nearest Canon Service Center or check the Rangefinder yourself and make sure it is working properly.
- The rangefinder may become hot after repeated continuous shooting or still photo/movie shooting over an extended period. This is not a malfunction.
- If there is a bright light source inside or outside the image area, ghosting may occur.

Viewfinder

- Although the viewfinder is produced under extremely high-precision manufacturing conditions and more than 99.99% of the pixels meet design specifications, 0.01% or fewer pixels may be defective or appear as red or black dots. This does not indicate damage. They do not affect the images recorded.

Cards

To protect the card and its recorded data, note the following:

- Do not drop, bend, or wet the card. Do not subject it to excessive force, physical shock, or vibration.
- Do not touch the card's electronic contacts with your fingers or anything metallic.
- Do not affix any stickers, etc. on the card.
- Do not store or use the card near anything that has a strong magnetic field, such as a television, speakers, or magnets. Also avoid places prone to having static electricity.
- Do not leave the card in direct sunlight or near a heat source.
- Store the card in a case.
- Do not store the card in hot, dusty, or humid locations.

Understanding rangefinder

About lasers

This product employs invisible laser beams for measurement. It measures the time for the laser beam to travel from the rangefinder to the target and then return. The laser reflectivity and measurement results may vary depending on the weather, environmental conditions, target reflectivity, target size, surface finish, among others.

The following external factors may cause errors or failures in ranging:

- Snowy, rainy or foggy days.
- The target is small or elongated.
- The target is black or dark.
- The target has a graded surface.
- The target is moving or vibrating.
- When it is used to measure the water surface.
- The target is measured through glass.
- The target is glass or has a mirror surface.
- The incidence angle between the laser and the target reflective surface is an oblique angle.

Major performance

- Use the Nearest Priority function to measure the distance to a target.
- When there are two targets before and after the measurement, the  nearest priority symbol (proximity priority measurement symbol) lights up and the distance to the nearest target will be displayed.
- 6x single cylinder eyepieces with multi-layer coating.
- Wide eyepieces for comfortable observation.
- In golf mode (default settings), when the slope function <SLOPE> is turned on, it can measure the distance to the flagpole position along the slope (horizontal distance ± height), which is suitable for golf sports.
- Continuous ranging: press the button < POWER ON /  / PHOTO > halfway to start the continuous ranging function (up to about 8 seconds)
- Waterproof: not intended for underwater use.

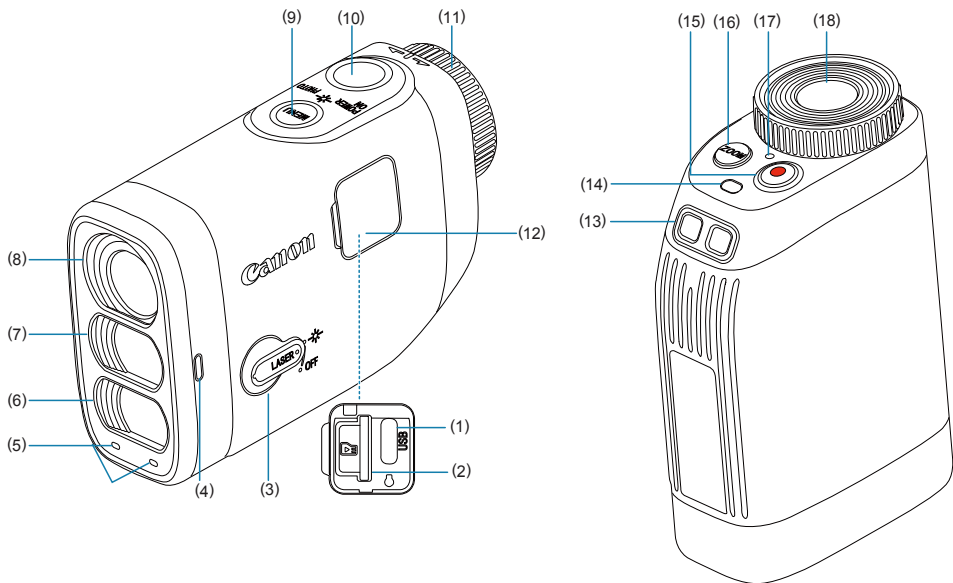
About measurement result

The measurement results by this equipment cannot be used as official evidence.

Regarding the SLOPE function

- When using a laser rangefinder in a competition, it is necessary to confirm the competition rules beforehand to ensure that the use of slope-adjusted distance measurements is allowed. If measurement is prohibited, please set the slope function <SLOPE> to <OFF>. Laser rangefinders measure straight-line distances.
- If the <SLOPE> (slope function) is set to <OFF>, the indicator for the <SLOPE> function will flash in blue if the SLOPE-adjusted distance measurement is not activated.
- If the slope function <SLOPE> is set to <OFF>, the captured image, the function of playback and image deletion cannot be used.

Part Names



(1) < USB >Digital terminal	(10) < POWER ON / */PHOTO > Power/ranging/shutter button
(2) <  >Card slot	(11) Dioptic adjustment dial
(3) < LASER >Laser ranging switch	(12) Card/terminal cover
(4) Slope function indicator light	(13) Strap mount
(5) Microphone	(14) Viewfinder sensor
(6) Receiving lens	(15) <  >Movie shooting/down/right button
(7) Emitting lens	(16) < ZOOM >Zoom/up/left button
(8) Lens	(17) Indicator lamp
(9) < MENU >Menu button	(18) Digital viewfinder

Note

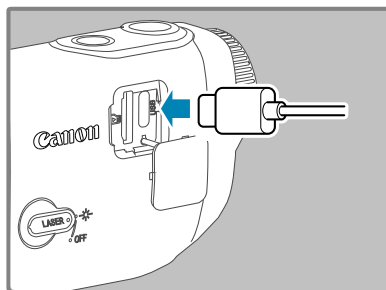
- (1)The connector shape of the digital terminal is Type-C plug. The Canon Interface Cable IFC-100U (sold separately) is recommended. Use of cables that are no longer than 1m is recommended.
- (13) The canon wrist strap WS-800 (sold separately) is recommended.

Preparation and Basic Operations

This chapter describes preparatory steps before you start shooting and the basic rangefinder operations.

- [Charging the Rangefinder](#)
- [Inserting/Removing Cards](#)
- [Turning on the Power](#)
- [Basic Operations](#)
- [Menu Operations and Settings](#)

Charging the Rangefinder



- Charge the rangefinder by connecting the rangefinder's Digital terminal to a power adapter (sold separately).
- After charging begins, the indicator lamp turns orange.
- The indicator lamp goes off after charging is finished.
- **Charging the rangefinder when it is fully depleted takes approx. 2 hr. at room temperature (23°C).** The time required to charge the battery will vary greatly depending on the ambient temperature and the battery's remaining capacity.
- For safety, charging in low temperatures (5–10°C) and high temperatures (35°C) takes longer.
- The rangefinder can also be used while plugged in for charging.

⚠ Caution

- Charging and powering may stop if the Rangefinder becomes hot.

📄 Note

- We recommend using a PD-E1 USB power adapter (sold separately) to supply power and to charge the product. In addition, please use the power adapter product of output voltage / current: 5VDC / 1.0A or more.
- It is recommended that you charge the battery periodically to maintain its performance.

- **The rangefinder is not fully charged when you receive it.**
Charge the battery before use.
- **Charge the rangefinder on the day you will use it or the day before.**
The built-in battery will gradually lose its charge, even if it is not used.
- **Use the rangefinder where the temperature is 0–35°C.**
For optimal rangefinder performance, use where the ambient temperature is 0–35°C. Lower temperatures may temporarily reduce the performance and life of the built-in battery.

Inserting/Removing Cards

 [Insertion](#)

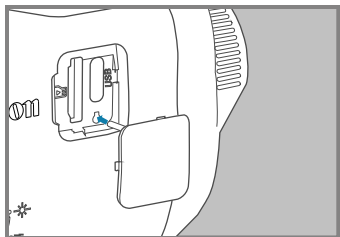
 [Removal](#)

Caution

- Use of memory cards other than microSD / microSDHC / microSDXC™ cards is not supported.

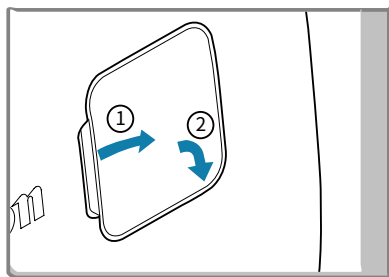
Note

- The number of shots available varies depending on the card's free space.
- Reattach the card/terminal cover as shown below if it comes off.



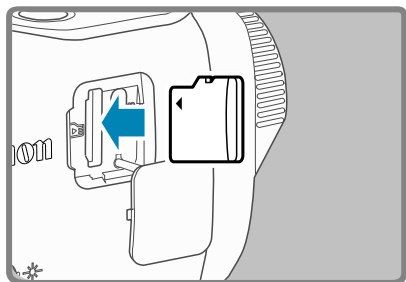
Insertion

1. Open the cover.



- After opening the card/terminal cover, flip it over to the right.

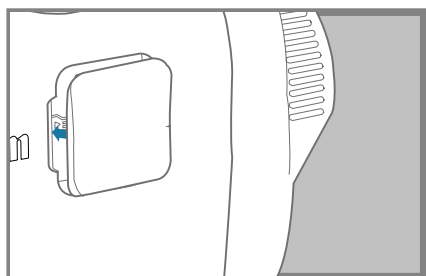
2.Insert the card.



- Insert the card with the label facing you.

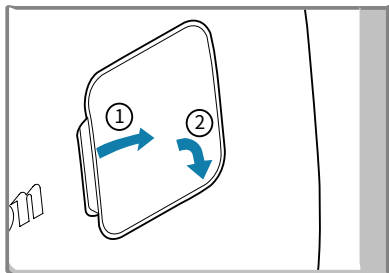
Inserting cards the wrong way may damage the rangefinder.

3.Close the cover.



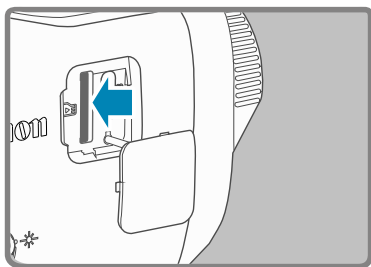
Removal

1. Open the cover.



- Turn the Rangefinder off (🔌).
- After making sure the indicator lamp is off, open the cover and flip it over to the right.

2. Remove the card.



- Press the card in to eject it.
- Pull the card straight out, then close the cover.

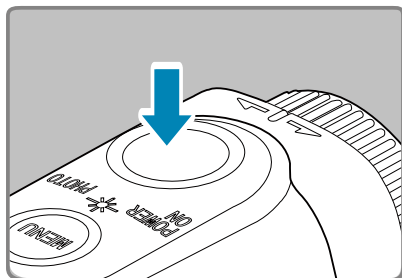
⚠ Caution

- A lit indicator lamp indicates that the rangefinder is writing to, reading from, erasing from, or transferring data to the card. Do not open the card/terminal cover at this time. To avoid image data corruption and damage to cards or the Rangefinder, never do any of the following while the indicator lamp is lit.
 - Removing the card
 - Shaking or striking the rangefinder
- If a card-related error message appears in the viewfinder, remove and reinsert the card. If the error persists, use a different card. If you can transfer images on the card to a computer, transfer all the images and then format the card with the Rangefinder (🔌). The card may then return to normal.

Turning on the Power

☑ [Setting the Date, Time, and Time Zone](#)

☑ [Changing the Interface Language](#)



- To turn the rangefinder on, press the < **POWER ON / * / PHOTO** > button.

Press the < MENU > button and the < ZOOM > button at the same time for a few seconds to turn off the power.

Note

- In the initial settings, the [Auto Power Off] is set to "5 seconds." When the laser rangefinder is not in use, it will automatically powers off after 5 seconds. You can change the automatic power-off time. (☑)
- When your face is close to the sensor of the digital viewfinder, the auto-off timer function stops. When your face leaves the sensor, the auto-off timer function will restart and will be prompted by a flashing indicator.
- When the auto-off timer function reaches the set time, the power will automatically turn off and the flashing indicator will turn off.
- During the timing of the auto-off timer, when your face is close to the viewfinder or your hand is on the viewfinder, the auto-off timer function will stop the timer, the rangefinder power will not turn off, and the flashing indicator will turn off.
- When storing the rangefinder in the case, please make sure that the flashing light and the power are turned off. If the indicator light is still flashing, the viewfinder sensor will be obscured and the power cannot be cut off until the rangefinder is depleted.

Setting the Date, Time, and Time Zone

If the date/time/zone screen appears when you turn the rangefinder on, see [Date/Time/Zone](#).

Changing the Interface Language

To change the interface language, see [Language](#).

Basic Operations

 [Holding the Rangefinder](#)

 [Adjusting the Viewfinder](#)

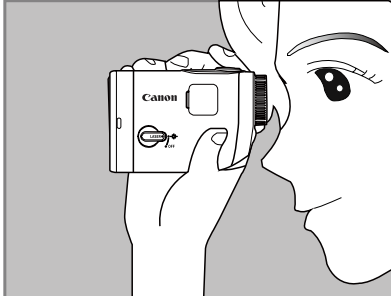
 [Zoom Button](#)

 [Shutter Button](#)

Holding the Rangefinder

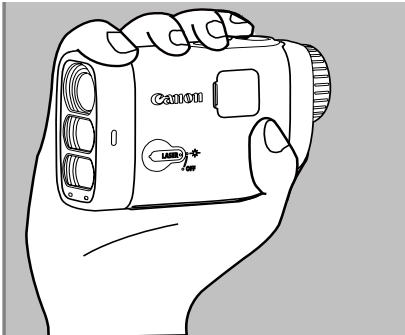
The Rangefinder can be held in a variety of ways to suit how you will use it.

How to conduct [ranging] or [checking]



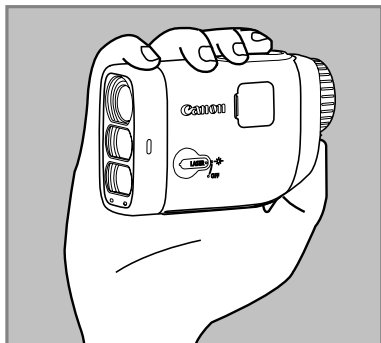
- Gently hold the front of the Rangefinder.

Holding the rangefinder securely for viewing



- Securely hold the rangefinder with your fingers around it.
- Rest your index finger lightly on the < **POWER ON** / *** / PHOTO** > button.
- Rest your middle finger lightly on the < **MENU** > button.
- Rest your thumb lightly on the card/terminal cover.

Holding the rangefinder for shooting



- Securely hold the rangefinder with your fingers around it.
- Rest your index finger lightly on the < **POWER ON** / * / **PHOTO** > button.
- Use your thumb to control the < **ZOOM** > / < ● > button.

Holding the Rangefinder securely for shooting



- Securely hold the rangefinder with your fingers around it.
- With your other hand, support the rangefinder from below.
- Rest your index finger lightly on the < **POWER ON** / * / **PHOTO** > button.
- Use your thumb to control the < **ZOOM** > / < ● > button.
- Rest your arms and elbows lightly against the front of your body.
- Hold the rangefinder near your face and look through the viewfinder.

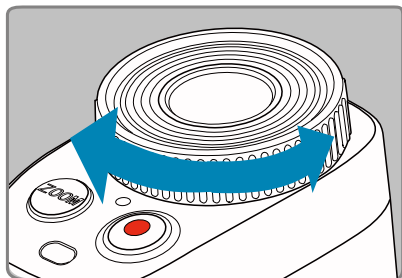


Note

- You can hold the rangefinder in either hand and look through the viewfinder with either eye.

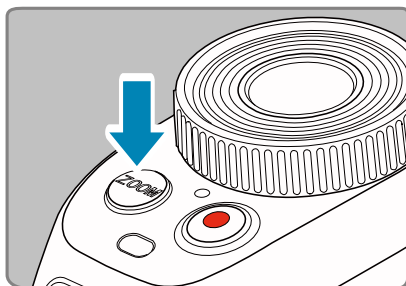
Adjusting the Viewfinder

Adjust the dioptic adjustment dial.



- Look through the viewfinder and turn the dioptic adjustment dial until the image appears sharp.

Zoom Button



- Press the < **ZOOM** > button to switch the zoom.

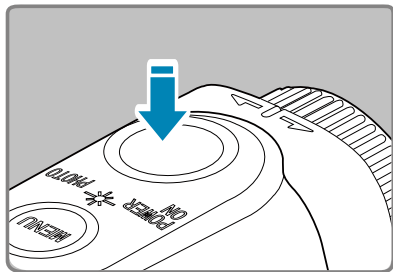
Note

- Digital zoom (tele) may result in decreased image quality.

Shutter • Rangefinder Button

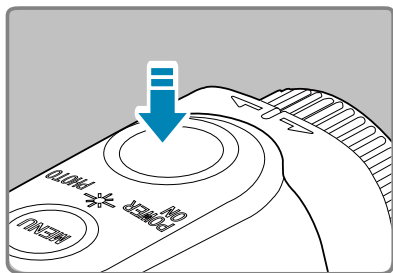
The shutter button has two steps. You can press the shutter button halfway. Then you can further press the shutter button completely.

Pressing halfway



- Activates autofocus. (☑)
- For rangefinder. (☑)

Pressing completely (for still photo shooting)



This action shoots.

● Preventing Rangefinder shake

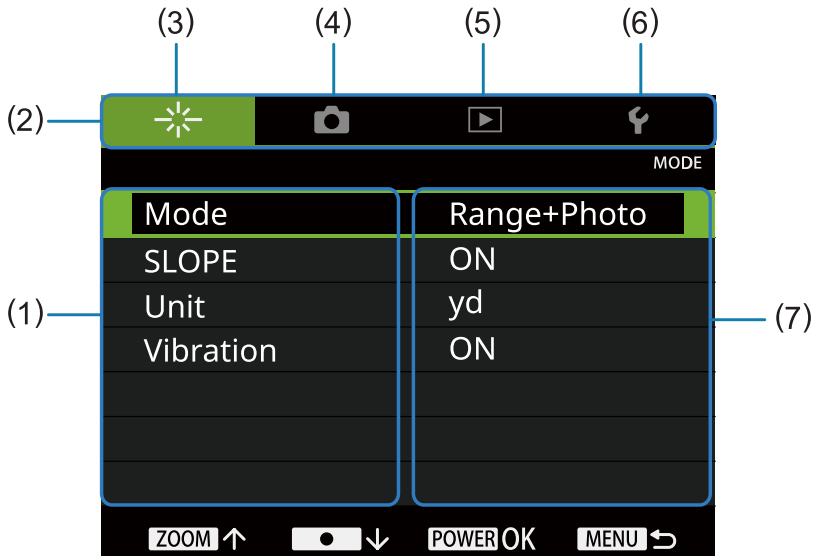
- Hold the Rangefinder still, as shown in [Holding the Rangefinder.](#)
- In still photo shooting, press the shutter button halfway to focus, then slowly press the shutter button completely.

Menu Operations and Settings

 [Menu Screen](#)

 [Menu Setting Procedure](#)

Menu Screen



1 Menu items

2 Main tabs

3 ☀ : Range

4 📷 : Shooting

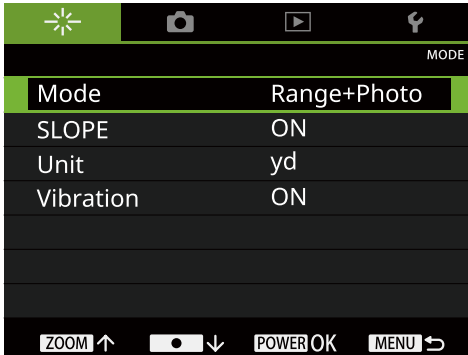
5 ▶ : Playback

6 🛠 : Set-up

7 Menu settings

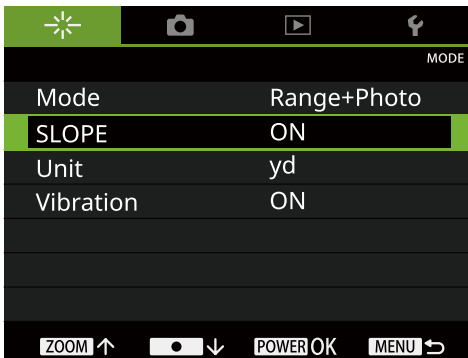
Menu Setting Procedure

1. Display the menu screen.



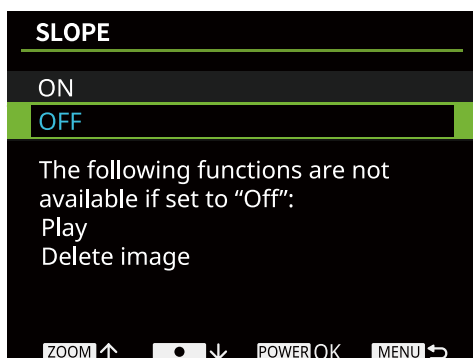
- Press the < **MENU** > button to display the menu screen.

2. Select an item.



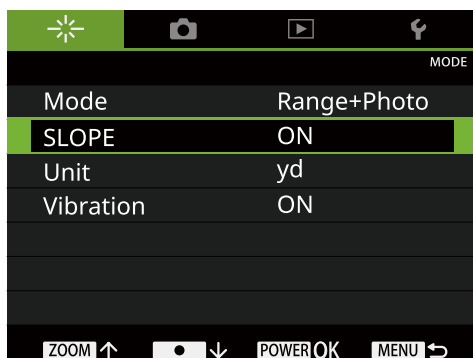
- Press the < **ZOOM** > or < ● > button to select an item, then press < **POWER ON** /  / **PHOTO** >.

3. Select an option.



- Press the < **ZOOM** > or < ● > button to select an option.
- The current setting is indicated in blue.

4. Set the option.



- Press < **POWER ON** /  / **PHOTO** > to set it.

5. Exit the setting.

- Press the < **MENU** > button.

Note

- The description of menu functions hereafter assumes that you have pressed the < **MENU** > button to display the menu screen.
- To cancel the operation, press the < **MENU** > button.

Range

This section introduces the menu settings on the [] ranging settings page.

- [Using the Rangefinder](#)
- [Still Photo Shooting](#)
- [Movie Recording](#)
- [Mode](#)
- [SLOPE](#)
- [Unit](#)
- [Vibration](#)

Using the Rangefinder

Function

- **Nearest target priority**

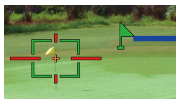
When overlapping objects are measured, the nearest target priority will display the distance to the nearest target.

- **Notification for proximity priority measurement**

When measuring overlapping objects, such as when there is a flagpole in front of the trees, the digital viewfinder will display the distance to the nearest object (flagpole), and the flagpole lock sign  (first target priority survey mark) will be lit up in the viewfinder.

Single measurement (): when overlapping objects are measured and the distance to the nearest object is displayed, the flagpole symbol  will appear.

Continuous measurement (): When the distance to the nearer object is re-measured from the displayed distance, the flagpole symbol  will appear.



A flagpole symbol (to measure with the Nearest Priority function)

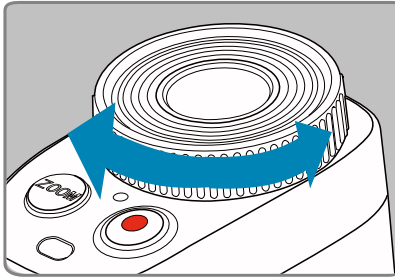
Range

Precautions: if you fail to follow the instructions herein to control, adjust or operate this product, the laser radiation may adversely affect or damage your health.

Make sure to refer to the "Menu Screen" to confirm the menu and change the settings before ranging.

1. Fully press the button < POWER ON /  / PHOTO > to turn on the power.

- Adjust the laser ranging switch < **LASER** > to <  >.
- To see inside the digital viewfinder more clearly, turn the diopter adjustment dial to the left or right.



2. Aim at the target.



Crosshairs sign

- Position the target at the center of the crosshairs sign.

3. Press the < POWER ON / / PHOTO > button half way for ranging.



- The distance will be displayed on the screen.
- After measurement, the measurement results will remain displayed until the power is automatically turned off.
- Fully press the button < **POWER ON** /  / **PHOTO** > to turn on the power and perform the measurement again.

● Single measurement

Half pressing the button < **POWER ON** /  / **PHOTO** > immediately released, a measurement will be taken (single measurement) and the results will be displayed later.



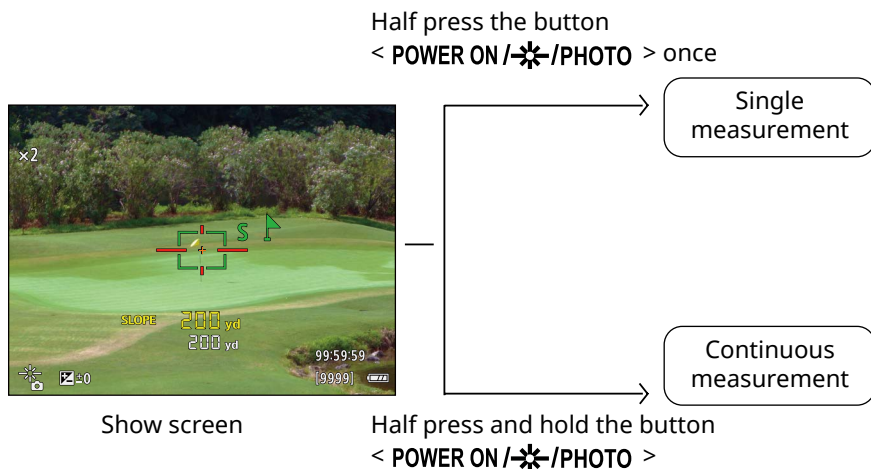
Example of measured range display



Example of measurement failure

● Continuous measurement

Half pressing and holding the button < **POWER ON / * / PHOTO** > will initiate the continuous measurement for approximately 8 seconds (max.). During measurement, the symbol < **S** > flashes and then the measurement results will be displayed continuously. If you release the button, continuous measurement will stop.



*When the flagpole on the golf course is measured

Using the continuous measurement function and position the flagpole at the center of the target mark can reduce the impact caused by handheld vibrations.

Still Photo Shooting

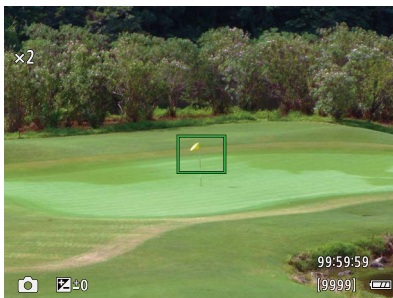
When the < **LASER** > ranging switch is turned to the <  >, the distance recording will be displayed on the screen. Otherwise, there is no record displayed on the screen.



Note

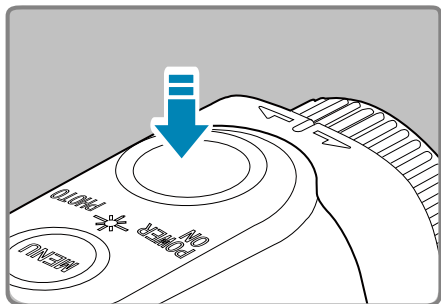
- If the laser ranging switch is turned to <  >, please refrain from taking portrait shots.

1.Focus on the subject.



- Press the shutter < **POWER ON**//**PHOTO** > button halfway to focus.
- A green frame appears once the subject is in focus.
- A red frame is displayed when the rangefinder cannot focus on subjects.

2.Take the picture.



- Press the shutter < POWER ON /  / PHOTO > button completely.
- To view your shots, press and hold the < **MENU** > button for a few seconds or use the [ : Play] menu ().

Movie Recording

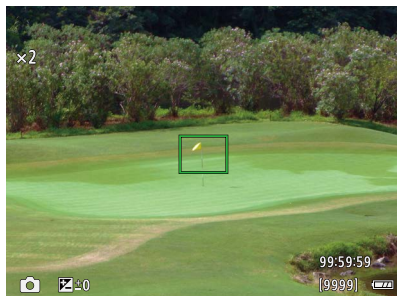
When the < **LASER** > ranging switch is turned to the <  >, the distance recording will be displayed on the screen. Otherwise, there is no record displayed on the screen.



Note

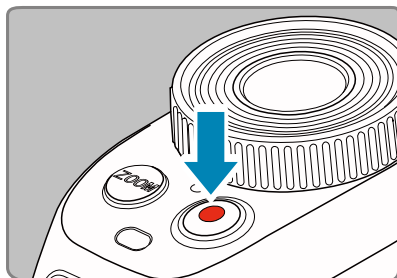
- When the laser ranging switch is turned to <  >, and the rangefinder is aimed at the person to record a video, please do not press the < **POWER ON** /  / **PHOTO** > button to measure the distance.

1. Focus on the subject.

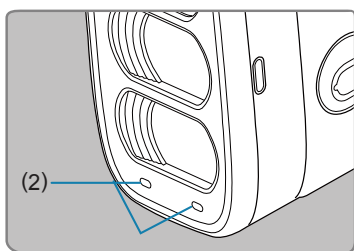


- Press the shutter < **POWER ON** /  / **PHOTO** > button halfway to focus.
- A green frame appears once the subject is in focus.

2. Record the movie.



- Press the < ● > button to start movie recording.
- While the movie is being recorded, the [●REC] icon (1) will be displayed in the upper right of the screen.



- Sound is recorded by the microphones (2).
- To stop recording the movie, press the < ● > button again.
- To view your shots, press and hold the < **MENU** > button for a few seconds or use the [▶ : Play] menu (🔍).

⚠ Caution

- If you perform rangefinder operations during movie recording, the rangefinder's built-in microphone may also record sounds of the rangefinder operations.

📄 Note

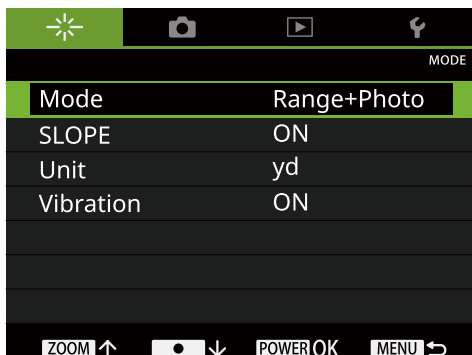
- Audio is recorded in stereo.

Mode

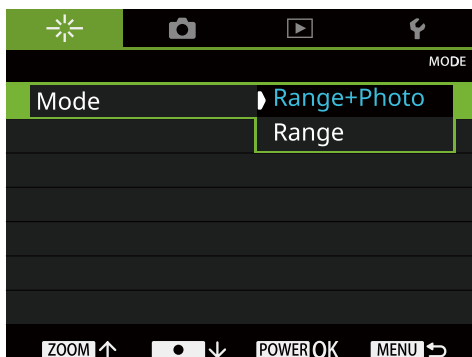
This function can be used to test the distance and shoot photos.

*Adjust the laser ranging switch <LASER> to < >.

1.Select [: Mode].



2.Select an item.



- [] **Range+Photo**

To ranging and shoot photos, press the button
< POWER ON /  / PHOTO > halfway or fully.

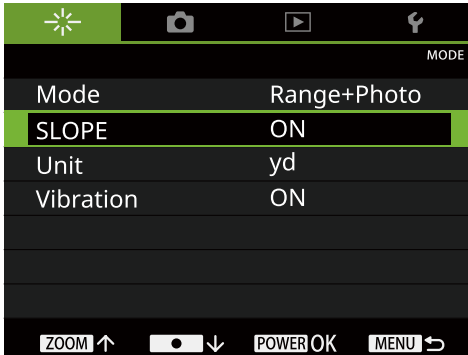
- [] **Range**

Press the < POWER ON /  / PHOTO > button halfway for ranging.

SLOPE

The SLOPE function can be set.

1. Select [: SLOPE].



2. Select [ON].



***Set SLOPE to off and the SLOPE function indicator light on the rangefinder flashes.**

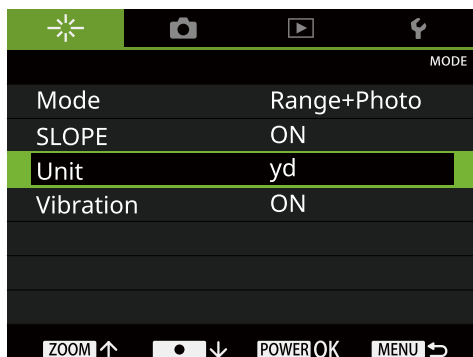
Caution

- The confirmation of photographed images may be sometimes prohibited according to competition rules, the following functions cannot be used when the SLOPE function is set to "Off".
 - **Play**
 - **Delete image**
- If you want to use this function in a competition, please check the local rules in advance.

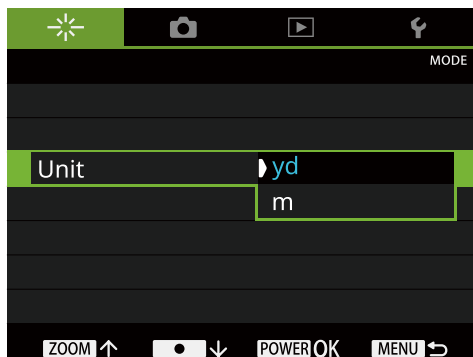
Unit

Regarding the display unit for measurement results, select yd (yards) or m (meters). The default is yd (yard).

1. Select [: Unit].



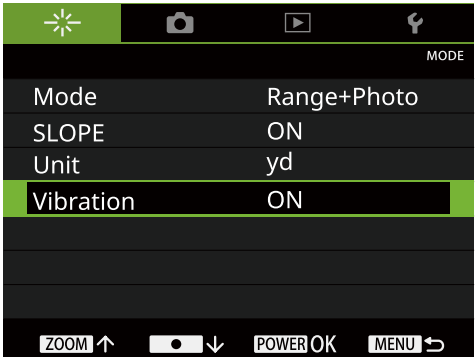
2. Select [yd].



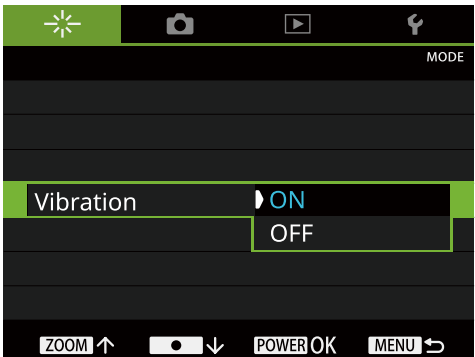
- Such setting can be saved even if the rangefinder is turned off.

Vibration

1.Select [ : Vibration].



2.Select [ON].



- **Single measurement: Vibrate after successful ranging.**
- **Continuous measurement: Vibrate after the flag symbol  appears.**

ⓘ Caution

- During the animation recording, no matter Single Ranging or Continuous Ranging, they all don't vibrate.

Shooting

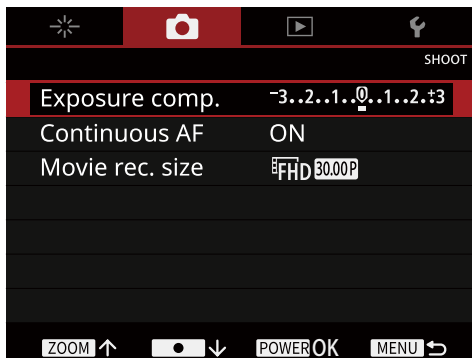
This section introduces the menu settings on the shooting [] settings page.

- [Exposure Compensation](#)
- [Continuous AF](#)
- [Movie Recording Size](#)

Exposure Compensation

By setting exposure compensation toward the positive or negative side, you can brighten or darken images relative to the standard exposure determined by the rangefinder. You can set exposure compensation up to ± 3 stops, in $1/3$ -stop increments.

1. Select [📷 : Exposure comp.].



2. Set the amount of compensation.

Increased exposure, to brighten images



Decreased exposure, to darken images



- Press the < **ZOOM** > or < ● > button to select the compensation amount, then press < **POWER ON** / * / **PHOTO** >.

3. Take the picture.

- To cancel exposure compensation, return the exposure level to ± 0 .



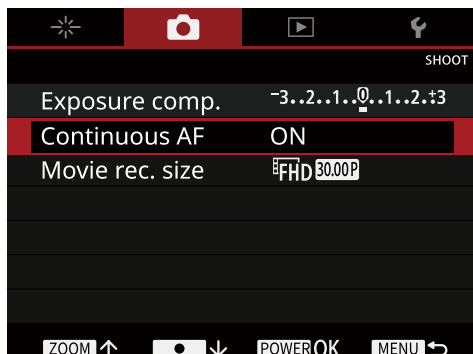
Note

- The exposure compensation amount will remain in effect even after you turn off the rangefinder.

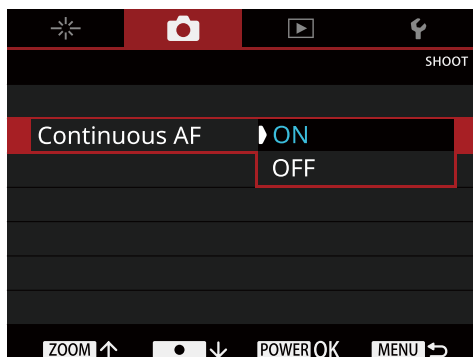
Continuous AF

This function keeps subjects generally in focus.

1. Select [CAMERA] : Continuous AF].



2. Select [ON].



! Caution

- More battery power is consumed when set to **[ON]**, because the lens is driven continuously.

AF Shooting Tips

- Even when focus is achieved, pressing the shutter button halfway will focus again.
- Image brightness may change during autofocus.
- It may take some time to focus, depending on the subject and shooting conditions.
- If the light source changes as you shoot, the screen may flicker, and focusing may be difficult. In this case, restart the rangefinder and resume shooting with AF under the light source you will use.
- Autofocus aligns with the center of the screen. Align the subject you want to focus on in the center of the screen for shooting.

Shooting Conditions That Make Focusing Difficult

- Subjects with low contrast, such as a blue sky or flat surfaces in solid colors, or other cases when highlight or shadow details are clipped.
- Subjects in low light.
- Stripes and other patterns where there is contrast only in the horizontal direction.
- Subjects with repetitive patterns (Example: Skyscraper windows, computer keyboards, etc.).
- Fine lines and subject outlines.
- Under light sources with constantly changing brightness, colors, or patterns.
- Night scenes or points of light.
- The image flickers under fluorescent or LED lighting.
- Extremely small subjects.
- Subjects at the edge of the screen.
- Strongly backlit or reflective subjects (Example: Car with a highly reflective surfaces, etc.).
- Near and distant subjects covered by an AF point (Example: Animal in a cage, etc.).
- Subjects that keep moving within the AF point and will not stay still due to rangefinder shake or subject blur.
- Performing AF when the subject is very far out of focus.
- Noise (dots of light, banding, etc.) appears on the screen during AF.

Movie Recording Size

[Movie Recording Size](#)

[Cards That Can Record Movies](#)

[Movie Recording Time Limit](#)

The frame rate can be set in [📷 : Movie rec. size].

Movie Recording Size

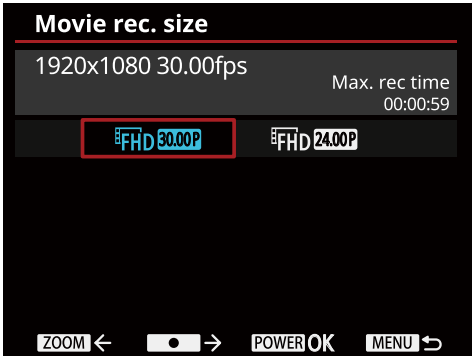


Image size

Image Size		Aspect Ratio
FHD	1920x1080	16:9

Frame rate (fps: frames per second)

- [FHD 30.00P] 30.00fps/ [FHD 24.00P] 24.00fps
For areas using the NTSC TV system, such as North America, Japan, South Korea, and Mexico.
- [FHD 25.00P] 25.00fps
For areas using the PAL TV system, such as Europe, Russia, China, and Australia.

Cards That Can Record Movies

See [Card performance requirements \(movie recording\)](#) for details on cards that can record at each level of movie recording quality.

Test cards by recording a few movies to make sure they can record correctly.

Caution

- If you use a slow-writing card when recording movies, the movie may not be recorded properly. Also, if you play back a movie on a card with a slow reading speed, the movie may not be played back properly.
- When movies cannot be recorded correctly, format the card and try again. If formatting the card does not resolve the problem, refer to the card manufacturer's website, etc.

Movie Recording Time Limit

The maximum recording time per movie is 59 sec. Once 59 sec. is reached, recording automatically stops. You can start recording a movie again by pressing the <  > button (which records the movie as a new file).

Playback

This chapter covers topics related to playback—playing back captured still photos and movies—and introduces menu settings on the Playback [] tab.

Caution

- Normal display or selection on this rangefinder may not be possible for images captured on other rangefinders, or images from this rangefinder that have been edited or renamed on a computer.

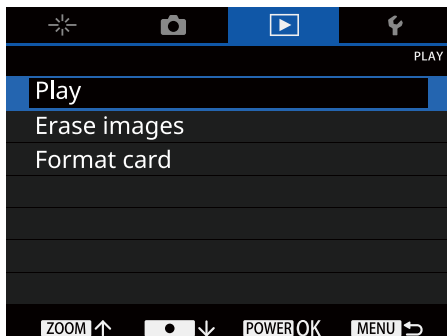
- [Play](#)
- [Erasing Images](#)
- [Formatting](#)

[Image Playback](#)

[Movie Playback](#)

Image Playback

1. Switch to playback.



- Select [▶] : Play].
- The last image captured or played back is displayed.
- Press and hold the < **MENU** > button for a few seconds to playback.

2. Browse images.



< LASER > Lever-on image screen



< LASER > Lever-off image screen

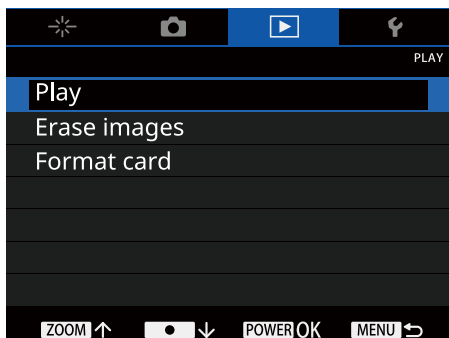
- To play back images starting with your most recent shot, press the < **ZOOM** > button.
- To play back images starting with the first captured image, press the < ● > button.

3. Exit image playback.

- Press the < **MENU** > button to exit image playback.

Movie Playback

1. Switch to playback.



- Select [ : Play].
- Press and hold the < **MENU** > button for a few seconds to playback.

2. Select a movie.



< LASER > Lever-on image screen



< LASER > Lever-off image screen

- * If the ranging is not successful, the numerical result will not be displayed.
- Press the < **ZOOM** > or <  > button to select a movie to play.
- Images with < **POWER**  > displayed in the upper left are movies.

3. Press < POWER ON /  / PHOTO >.



4. Press < POWER ON /  / PHOTO > to play the movie.

- The movie will start playing back.
- You can pause playback and display the movie playback panel by pressing < POWER ON /  / PHOTO >. Press it again to resume playback.

Movie playback panel

Press the <ZOOM> or the <●> button to select.

Item	Playback Operations
 Playback	Each press of < POWER ON /  / PHOTO > switches between playback and pausing playback.
 Skip backward	Skips backward approx. 4 sec. each time you press < POWER ON /  / PHOTO >.
 Previous frame	Displays the previous frame each time you press < POWER ON /  / PHOTO >. Holding < POWER ON /  / PHOTO > down rewinds the movie.
 Next frame	Plays the movie frame-by-frame each time you press < POWER ON /  / PHOTO >. Holding < POWER ON /  / PHOTO > down fast-forwards the movie.
 Skip forward	Skips forward approx. 4 sec. each time you press < POWER ON /  / PHOTO >.
	Playback position.
mm'ss"	Playback time, with minutes (labeled ') followed by seconds (")
	Press the < MENU > button to return to image playback.

ⓘ Caution

- Movie playback may stop if the card's read speed is too slow or movie files have corrupted frames.
- High internal rangefinder temperature may prevent movie playback. Movie playback may also stop if the rangefinder becomes hot during playback.
- Sound is not audible when movies are played on this rangefinder. To watch movies with audio playback, use a movie playback device.

Erasing Images

 [Selecting \[✓\] Multiple Images to Erase Together](#)

 [Erasing All Images on a Card](#)

Unneeded images to erase can be selected individually or all at once.

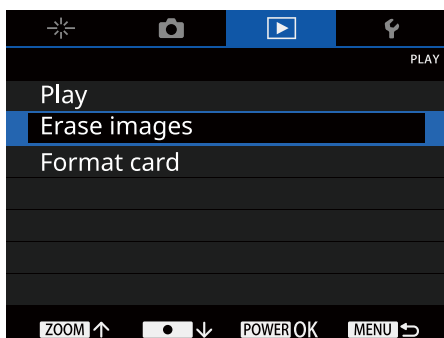
Caution

- Once an image is erased, it cannot be recovered. Make sure you no longer need the image before erasing it.

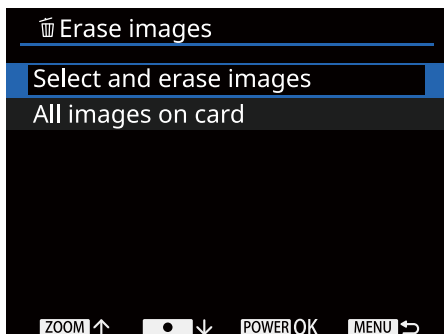
Selecting [✓] Multiple Images to Erase Together

By adding checkmarks to the images to erase, you can erase all those images at once.

1. Select [ : Erase images].



2. Select [Select and erase images].

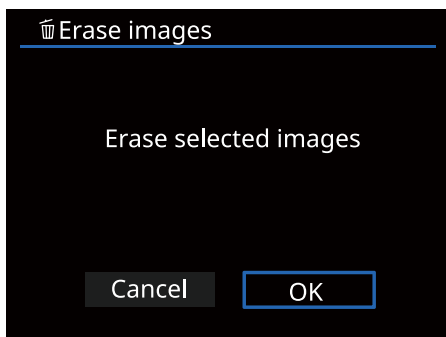


3. Select an image.



- Press the < **ZOOM** > or < **●** > button to select an image to erase, then press < **POWER ON / * / PHOTO** >.
- To select another image to erase, repeat step 3.

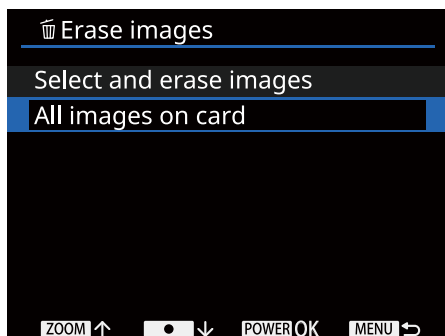
4. Erase the images.



- Press the < **POWER ON / * / PHOTO** > button, then press [**OK**].

Erasing All Images on a Card

You can erase all the images on a card at once.



*The  indicator means a file is protected. File protection must be removed before a file can be deleted.

Formatting

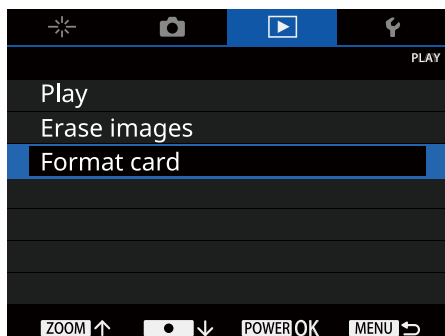
Use this rangefinder to format (initialize) the card in the following cases.

- The card is new.
- The card was formatted by a different Rangefinder or a computer.
- The card is full of images or data.

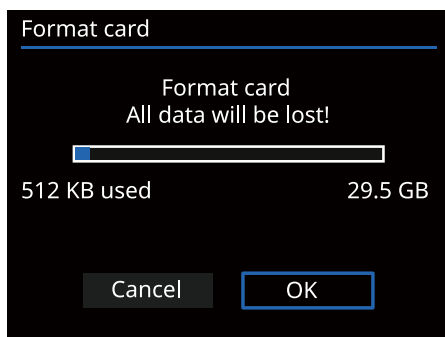
⚠ Caution

- **Formatting a card will erase all data on it. Before formatting, check what is on the card. If necessary, transfer the images and data to a computer, etc. before formatting the card.**

1. Select [▶] : Format card].



2. Format the card.



- Select [OK].

Card file formats

microSD cards will be formatted in FAT12/16, microSDHC cards in FAT32, and microSDXC™ in exFAT.

Caution

- It may not be possible to use microSDXC™ cards formatted with this Rangefinder in other Rangefinders. Also note that exFAT-formatted cards may not be recognized by some computer operating systems or card readers.
- Formatting or erasing data on a card does not completely erase the data. Be aware of this when selling or discarding the card. When disposing of cards, take steps to protect personal information if necessary, as by physically destroying cards.

Note

- The card capacity displayed on the card format screen may be smaller than the capacity indicated on the card.
- This device incorporates exFAT technology licensed from Microsoft.

Set-up

This chapter describes menu settings on the set-up [ : Set-up] tab.

- [Date/Time/Zone](#)
- [Power Saving](#)
- [Video System](#)
- [Language](#)
- [Resetting the Rangefinder](#)
- [Other Information](#)

Date/Time/Zone

When you turn on the power for the first time or if the date/time/zone have been reset, follow these steps to set the time zone first.

By setting the time zone first, you can simply adjust this setting as needed in the future and the date/time will be updated to match it.

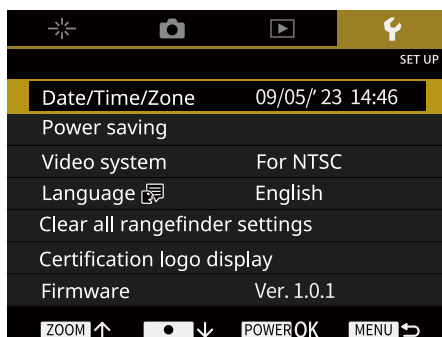
Since the captured images will be appended with the shooting date and time information, be sure to set your date/time.



Note

- Display is in English when you turn on the power for the first time.

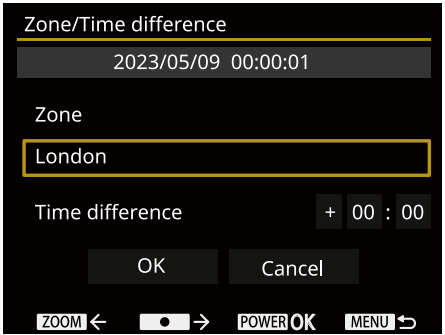
1. Select [: Date/Time/Zone].



2.Set the time zone.



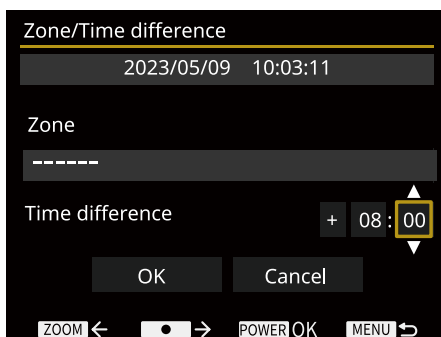
- Press the < **ZOOM** > or < **●** > button to select [**Time zone**].



- Press < **POWER ON / * / PHOTO** >.

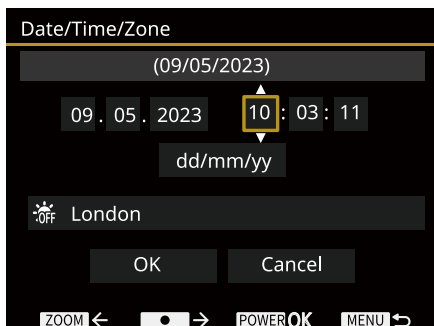


- Press the < **ZOOM** > or < ● > button to select the time zone, then press < **POWER ON** / * / **PHOTO** >.
- If your time zone is not listed, press the < **MENU** > button, then set the difference from UTC in [**Time difference**].



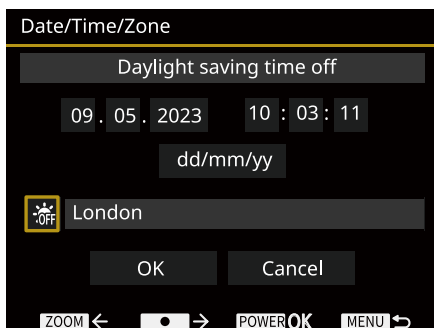
- Press the < **ZOOM** > or < ● > button to select a [**Time difference**] item (+ or -, hours, or minutes), then press < **POWER ON** / * / **PHOTO** >.
- Press the < **ZOOM** > or < ● > button to set it, then press < **POWER ON** / * / **PHOTO** >.
- After entering the time zone or time difference, press the < **ZOOM** > or < ● > button to select [**OK**], then press < **POWER ON** / * / **PHOTO** >.

3.Set the date and time.



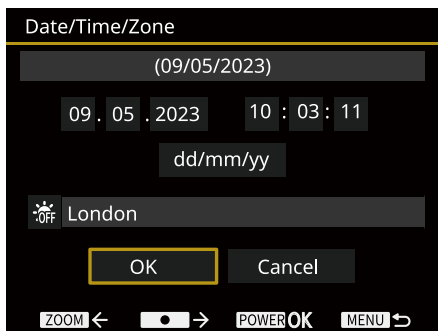
- Press the < **ZOOM** > or < ● > button to select an item, then press < POWER ON / /PHOTO >.
- Press the < **ZOOM** > or < ● > button to set it, then press < POWER ON / /PHOTO >.

4.Set daylight saving time.



- Set it as necessary.
- Press the < **ZOOM** > or < ● > button to select [], then press < POWER ON / /PHOTO >.
- Press the < **ZOOM** > or < ● > button to select [], then press < POWER ON / /PHOTO >.
- When daylight saving time is set to [], the time set in step 3 is moved one hour ahead. If [] is set, daylight saving time is canceled and the time is moved back one hour.

5. Exit the setting.



- Press the < **ZOOM** > or < ● > button to select [**OK**].

ⓘ Caution

- Date, time, and time zone settings may be reset when the battery is depleted, or if the rangefinder is exposed to freezing temperatures for an extended period. If this happens, set them once again.
- After changing [**Zone/Time difference**], check that the correct date/time are set.

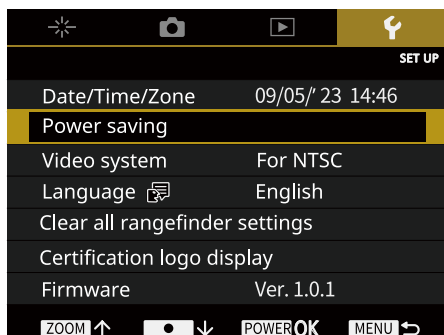
📄 Note

- Auto power off time may be extended while the [**🔧 : Date/Time/Zone**] screen is displayed.

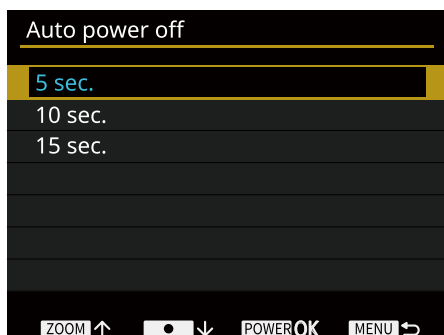
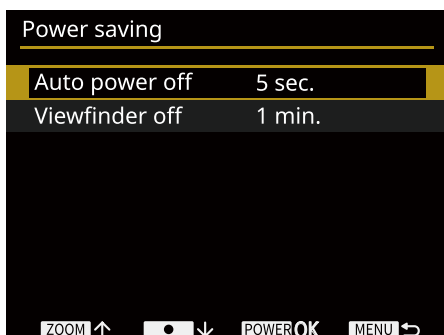
Power Saving

You can adjust the timing of when the rangefinder and viewfinder turn off automatically [**Auto power off**] and [**Viewfinder off**].

1. Select [**⚙** : Power saving].



2. Select an item.



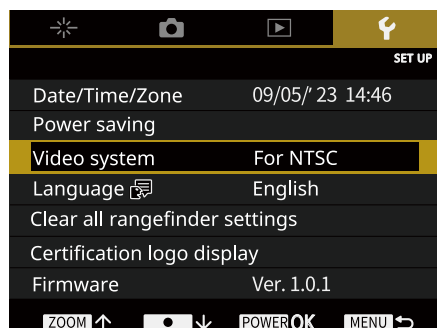
Note

- To conserve battery power, you should normally set **[Auto power off]** to 5 sec.
- Pressing any button before the **[Viewfinder off]** timer expires will reset the timer.
- Power saving settings do not apply during shooting, or movie playback.

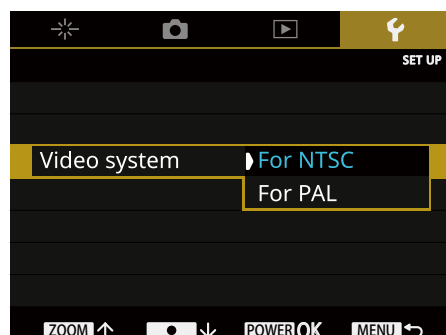
Video System

Set the video system of any television used for display. This setting determines the frame rates available when you record movies.

1. Select [: Video system].



2. Select an item.



- **For NTSC**

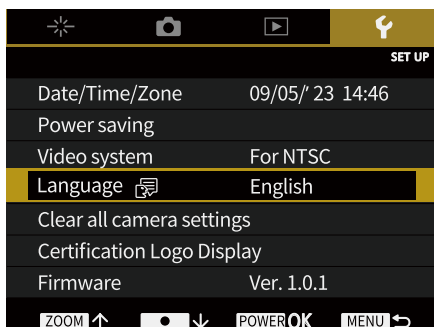
For areas using the NTSC TV system, such as North America, Japan, South Korea, and Mexico.

- **For PAL**

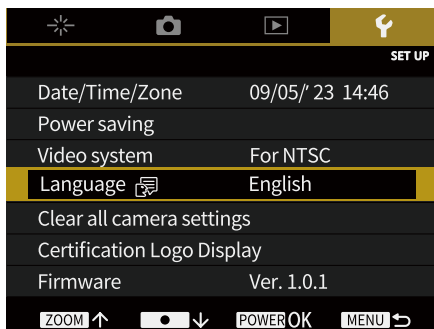
For areas using the PAL TV system, such as Europe, Russia, China, and Australia.

Language

1. Select [ : Language ].



● To set it initially, select [ : Language ].



2.Set the desired language.



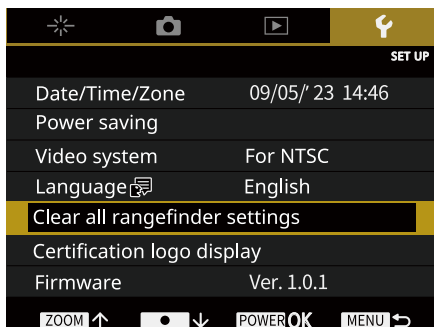
Note

- The language is set to English when you turn on the power for the first time.

Clear all Rangefinder settings

The rangefinder's settings for shooting functions and menu functions can be restored to their defaults.

1. Select [: Clear all Rangefinder settings].



2. Clear the settings.

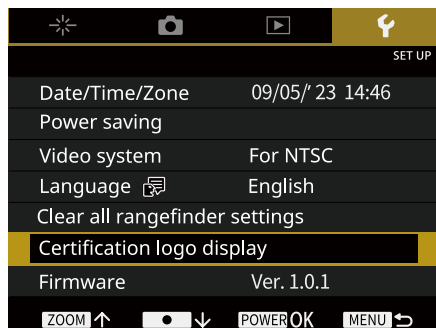
- Select [OK] on the confirmation screen.



Note

- The date/time/region and language menus will not be reset.

Other Information



- **Certification Logo Display**

Select [ : **Certification Logo Display**] to display some of the logos of the rangefinder's certifications. Other certification logos can be found on the rangefinder body and packaging.

- **Firmware**

Select [ : **Firmware**] to update the rangefinder firmware.

Reference

This chapter provides reference information on rangefinder features.

- [Troubleshooting Guide](#)
- [Information Display](#)
- [Specifications](#)
- [Before Disposal](#)

Troubleshooting Guide

 [Power-related problems](#)

 [Shooting-related problems](#)

 [Operation problems](#)

 [Display problems](#)

 [Playback problems](#)

If a problem occurs with the rangefinder, first refer to this Troubleshooting Guide. If this Troubleshooting Guide does not resolve the problem, contact your dealer or nearest Canon Service Center.

Power-related problems

Cannot charge the rangefinder.

- In case of charging issues, see [Charging the Rangefinder](#).

The Rangefinder is not activated even when turned on.

- Charge the rangefinder (.

The indicator lamp is still lit or blinking when the rangefinder is off.

- The indicator lamp will remain on or continue to blink for a few seconds if the rangefinder is turned off while an image is being recorded to the card. When the image recording is complete, the power will turn off automatically.

Battery life does not last long.

- Using the rangefinder when it is fully charged is recommended (.
- The following operations reduce battery life and the number of shots available.
 - Recording movies over an extended period

The Rangefinder turns off by itself.

- A power-saving feature is enabled (.

Shooting-related problems

No images can be shot or recorded.

- Make sure the card is properly inserted (.
- If the card is full, replace the card or delete unnecessary images to make space (, .
- If the mode is set to "Range," please reselect "Range + Photo".

The card cannot be used.

- If a card error message is displayed, see [Inserting/Removing Cards](#).

The image is out of focus or blurred.

- Press the shutter button gently to prevent rangefinder shake (, .

[] is displayed.

- [] may be displayed after repeated movie recording, or if you keep the rangefinder standing by for movie recording over extended periods. The rangefinder turns off automatically in approx. 3 min. if you continue to record movies while [] is displayed. Turn off the rangefinder when [] is displayed and wait until it cools down.

During movie recording, the red icon is displayed.

- It indicates that the Rangefinder's internal temperature is high. Display of the red [] icon indicates that movie recording will soon stop automatically.

Movie recording stops by itself.

- If the card's writing speed is slow, movie recording may stop automatically. For details on cards that can record movies, see [Cards That Can Record Movies](#). To find out the card's writing speed, refer to the card manufacturer's website, etc.
- Format the card if the writing or reading speed seems slow (.
- Movie recording stops automatically at 59 sec.

The image flickers or horizontal stripes appear during movie recording.

- Flickering, horizontal stripes (noise), or irregular exposures can be caused by fluorescent lighting, LED lighting, or other light sources during movie recording. Also, changes in the exposure (brightness) or color tone may be recorded.

The subject looks distorted during movie recording.

- If you move the rangefinder to the left or right (panning) or shoot a moving subject, the image may look distorted.

I cannot take still photos during movie recording.

- Still photos cannot be taken during movie recording. Stop movie recording before shooting still photos.

Operation problems

Rangefinder operation is erratic. The buttons are unresponsive.

- An internal error may have occurred. Force the rangefinder off by holding down the < **MENU** > and <  > buttons together for about 8 sec. Wait a while before restarting the rangefinder by pressing the power button.

Display problems

The shooting date and time displayed are incorrect.

- Make sure the correct date and time are set ().
- Check the time zone and daylight saving time (.

Playback problems

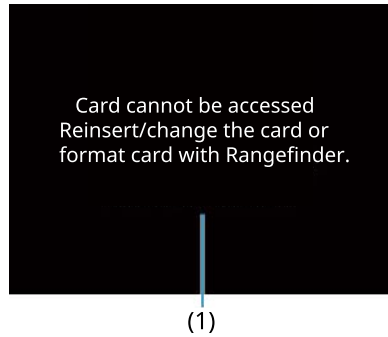
Still photos and movies cannot be played back.

- The camera may not be able to play back images taken with another camera.
- Movies edited with a computer cannot be played back with the rangefinder.

Mechanical sounds or sounds of rangefinder operations can be heard during movie playback.

- The sound of the autofocus drive and operation may be recorded together during video recording.

Error message



(1) Cause and countermeasures

If there is a problem with the Rangefinder, an error message will appear. Follow the on-screen instructions.

If the problem persists, write down the error message and request service.

Information Display

 [Shooting and ranging picture](#)

 [Playback Screen](#)

Shooting and ranging picture



1 Magnification

Crosshairs sign

2 —┤— Aim at the target you want to measure. Position the target at the center of the mark.

3 SLOPE (slope compensated value) yd/ranging value yd
--- yd Ranging failed

4 Exposure compensation amount

5 Ranging and photo shooting sign

6 Temperature warning

7 Available shots

8 Battery level

9 Movie recording time available/Elapsed recording time

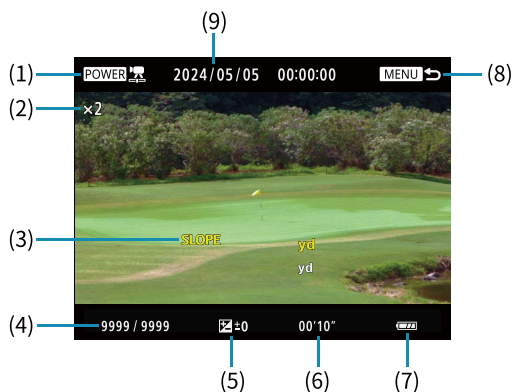
10 Movie recording restriction

11 Measurement unit (yd: yard/m: meter)

12  Flagpole locking sign (proximity priority)

13  Continuous ranging sign

Playback Screen



- | | |
|---|---|
| 1 | Movie playback |
| 2 | Magnification |
| 3 | SLOPE (slope compensated value) yd/ranging value yd |
| 4 | Playback number/Total images recorded |
| 5 | Exposure compensation amount |
| 6 | Movie recording time |
| 7 | Battery level |
| 8 | Return icon |
| 9 | Shooting Date |

⚠ Caution

- If the image was taken by another camera, certain shooting information may not be displayed.
- It may not be possible to play back images taken with this Rangefinder on other cameras.

Specifications

Range

Ranging range (straight-line distance)

Approx. 7.0~800yd./Approx. 6.4~732m

Ranging accuracy (according to Canon test standards to measure the straight-line distance)

Less than 100yd.(91m) ± 1.0 yd. (± 0.91 m)

More than 100yd.(91m) ± 2.0 yd. (± 1.83 m)

Stage representation

Addition and subtraction distance (upper stage): 0.5yd./0.5m

Straight-line distance (bottom stage): 0.5yd./0.5m

Laser specifications

IEC 60825-1: Class 1 Laser Product

FDA 21 CFR Part 1040.10: Class 1 Laser Product

Viewfinder

Type

OLED color electronic viewfinder

Screen size

0.39 inch-type

Dot count

Approx. 2,360,000 dots

Coverage

Approx. 100% (at approx. 20 mm eyepoint)

Eyepoint

Approx. 20 mm (at -1 m^{-1} from eyepiece lens end)

Dioptric adjustment

Approx. -3.0 to $+1.0\text{m}^{-1}$ (dpt)

Actual field

35mm equivalent EL 410mm

Other than video recording: Approx. 6.0°

Video recording: Approx. 5.5°

35mm equivalent EL 820mm

Other than video recording: Approx. 3.0°

Video recording: Approx. 2.8°

Camera

Effective sensor size

1/3" CMOS sensor

Effective pixels

Max. approx. 11.00 megapixels

*Total pixels: Approx. 13.50 megapixels

ISO speed (in still photo shooting / movie recording)

ISO 100 to 3200 set automatically

Shutter speed

Controlled automatically (1/8000 to 1/30 sec.)

*Shutter speed is not displayed within the digital viewfinder

Metering mode

Center-weighted average metering

Lens

Focal length

51.0 mm (35 mm equivalent: equivalent to approx. 410 mm)

Telescope zoom

Equivalent to approximately 410 mm

Photo shooting: Approx. 6 times

Video recording: Approx. 6 times

Approximately equivalent to 820 mm (during digital zoom)

Photo shooting: Approx. 12 times

Video recording: Approx. 12 times

F/number

3.9 (Fixed aperture)

Focusing range

Approx. 4.4yd. (approx. 4.0m) to ∞

Image stabilization features

Lens shift system

Recording media

Recording media

microSD / microSDHC / microSDXC™ memory card

*UHS-I compatible.

Recording system

Image recording format

Compliant to Design rule for Camera File system 2.0 and Exif 2.31

Image type

Still photos: JPEG

Movies: MP4

Still photo recording

Recorded pixels

Approx. 11.0 megapixels (3840×2880)

*Image quality adjustment not available.

*The image quality of the tele side is degraded due to digital zoom.

Aspect ratio

Fixed at 4:3 and not adjustable

Movie recording

Movie recording format

Container format	MP4
Video	H.264 / MPEG-4 AVC
Audio	MPEG-4 AAC-LC (stereo)

Movie recording quality

Movie recording size

Full HD: 1920×1080

*Movie recording size adjustment not available.

*The image quality of the tele side is degraded due to digital zoom.

Frame rate

When set to NTSC: 30.00 / 24.00fps

When set to PAL: 25.00 fps

Upper limit of shooting time at one time

0 min. 59 sec.

Total recording time available

8GB	Approx. 33 min.
32GB	Approx. 132 min.
128GB	Approx. 530 min.

Card performance requirements (movie recording)

SD Speed Class 6 or higher

Video system

NTSC / PAL

Recording microphone

Built-in stereo microphone

*External microphone in terminal not provided.

Autofocus

Autofocus method

Contrast detection method

External interface

Terminal type

USB Type-C™

Battery used

A rechargeable lithium-ion battery is built into the body.

* Non-user-replaceable.

Charging temperature

Approx. 5–40°C / Approx. 41–104°F

Number of shots available

Approx. 200 shots

* When the new product battery is fully charged, at 23°C / 73°F.

Time available for movie recording

Approx. 1 hr. 10 min.

* When the new product battery is fully charged, at 23°C / 73°F.

Waterproof

IPX4

* Not dustproof.

Dimensions and weight

Dimensions

Approx. 31 (W) × 58.9 (H) × 91.2 (D) mm

Approx. 1.22 (W) × 2.32 (H) × 3.59 (D) in.

Weight

Approx. 151 g (including card) / approx. 150 g (body only)

Operating environment

Possible temperature used

0–40°C (32–104°F)

Possible humidity used

10–90%

Before Disposal

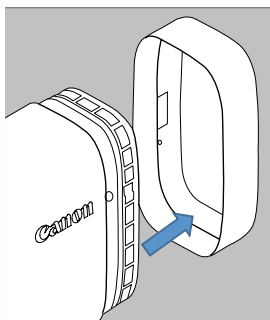
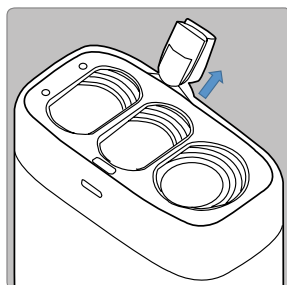
⚠ Caution

- DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATIONS.

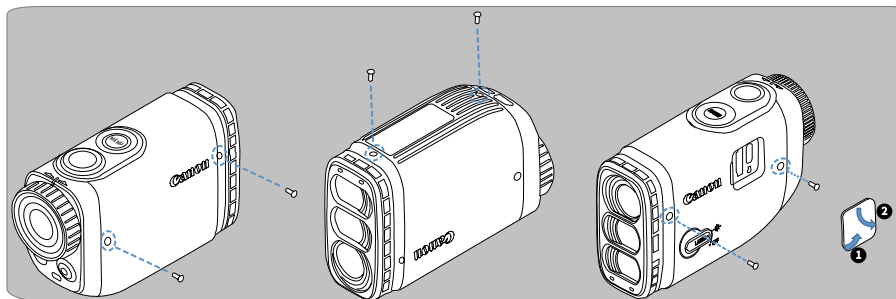
📄 Note

- A screwdriver for M1.4 Phillips head screws is recommended for screw removal.

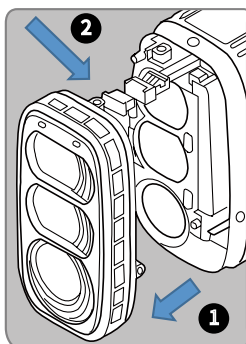
1. Turn the Rangefinder off.
2. As shown in the figure, pull the front cover rubber upward and remove it.



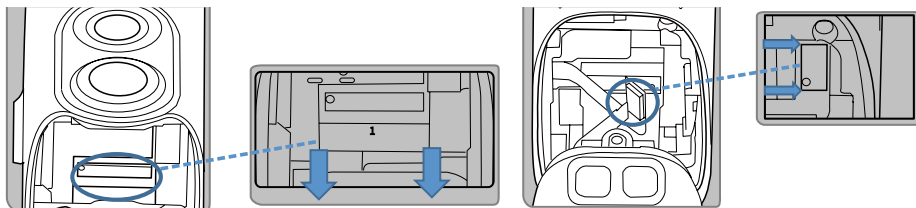
3. Use a cross-head screwdriver to remove the screws (6 screws). Pry the memory card/terminal cover upward (①), rotate it 90° to make it open and remove it (②).



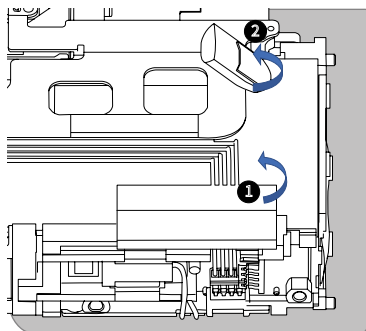
4. Pull out the front cover U of the rangefinder as shown in Figure (①) and disconnect the connector as shown in Figure (②).



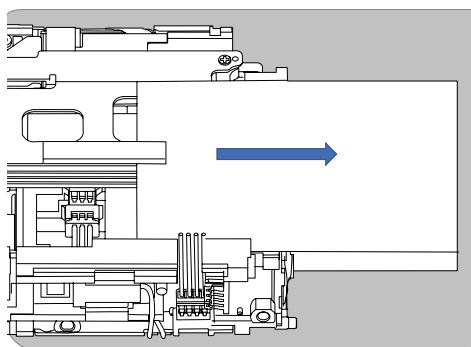
5. Disconnect the FPC connector (2 places).



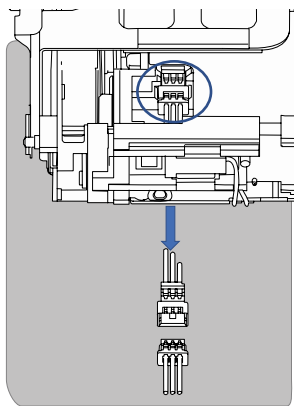
6. Before removing the battery, the black tape should be removed as shown in Figure (①); When pulling out the battery, the metal plate needs to be lifted slightly towards the front as shown in Figure (②).



7. Slide the battery out.



8. Disconnect the battery connector.



Trademarks and Licensing

 [Trademarks](#)

 [About MPEG-4 Licensing](#)

 [Accessories](#)

Trademarks

- Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- App Store and macOS are trademarks of Apple Inc., registered in the U.S. and other countries.
- Google Play and Android are trademarks of Google LLC.
- IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.
- QR Code is a trademark of Denso Wave Inc.
- SDXC™ logo is a trademark of SD-3C, LLC.
- USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.
- All other trademarks are the property of their respective owners.

About MPEG-4 Licensing

“This product is licensed under AT&T patents for the MPEG-4 standard and may be used for encoding MPEG-4 compliant video and/or decoding MPEG-4 compliant video that was encoded only (1) for a personal and non-commercial purpose or (2) by a video provider licensed under the AT&T patents to provide MPEG-4 compliant video. No license is granted or implied for any other use for MPEG-4 standard.”

* Notice displayed in English as required.

Accessories

Use of Genuine Canon Accessories Is Recommended

This product is designed to achieve optimum performance when used with genuine Canon accessories. Therefore, using this product with genuine accessories is highly recommended.

Canon shall not be liable for any damage to this product and/or accidents such as malfunction, fire, etc. caused by the failure of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery). Please note that repairs arising out of the malfunction of non-genuine accessories will not be covered by the warranty for repairs, although you may request such repairs on a chargeable basis.