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Verifying the Accessories

If any of the items are missing or defective, consult your Canon dealer or the nearest Canon service center.

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="AC Adapter" /></td>
<td><strong>AC Adapter</strong>&lt;br&gt;AC-V11U&lt;br&gt;• Charges this unit. Attach the charging adapter cable to the tip of the cord. It can also be used when recording or playing back videos indoors.</td>
</tr>
<tr>
<td><img src="image" alt="Charging Adapter Cable" /></td>
<td><strong>Charging Adapter Cable</strong>&lt;br&gt;• Attach to the tip of the cord of the AC adapter and connect to the USB connector of this unit to charge.</td>
</tr>
<tr>
<td><img src="image" alt="USB Cable" /></td>
<td><strong>USB Cable</strong>&lt;br&gt;(Type A - Micro Type B)&lt;br&gt;• Connects this unit to a computer.</td>
</tr>
<tr>
<td><img src="image" alt="Lens Cap" /></td>
<td><strong>Lens Cap</strong>&lt;br&gt;• Attach the lens cap when this unit is not used or during transportation.</td>
</tr>
<tr>
<td><img src="image" alt="Large Core Filter" /> <img src="image" alt="Small Core Filter" /></td>
<td><strong>Large Core Filter (for Optional AV Cable)</strong>&lt;br&gt;<strong>Small Core Filter (for AC Adapter)</strong></td>
</tr>
<tr>
<td><img src="image" alt="Basic User Guide" /></td>
<td><strong>Basic User Guide</strong>&lt;br&gt;• Read well and keep in a safe place where it can be accessed easily when necessary.</td>
</tr>
</tbody>
</table>

**Memo:**

- The large core filter is for use with an AV cable. Do not use it with any cable other than the AV cable.<br>The small core filter is for use with the AC adapter. Do not use it with anything other than the AC adapter.<br>“Attaching the Core Filter” (p. 8)
- SD cards are sold separately.<br>“Types of Usable SD Card” (p. 9)
- When using the AC adapter overseas, please prepare a commercially available converter plug for the country or region of visit.<br>“Charging the Battery Pack Overseas” (p. 18)
**Turning on this Unit**

Open the LCD monitor to turn on this unit.
To turn off the power, close the LCD monitor.

- **To turn on the power**
  Open the LCD monitor.

- **To turn off the power**
  Close the LCD monitor.

The POWER/ACCESS lamp goes off and the power is turned off.

Memo:
- When "AUTO POWER OFF" is set to "ON", this unit turns itself off automatically to conserve power when it is not operated for 5 minutes.
  (When using the AC adapter, this unit goes into standby mode.)
  "AUTO POWER OFF" (p. 85)
- If "LCD CLOSED RECORDING" is activated, this unit does not turn off even when the LCD monitor is closed during recording.
  "LCD CLOSED RECORDING" (p. 78)

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**Opening the Terminal Cover (SD Card Cover)**

- **To open**
  1. Open the LCD monitor.
  2. Slide down the cover lock and slide the cover aside.
  3. Lift the cover slowly.

- **To close**
  The cover is not properly closed if the red mark at the terminal cover lock is visible.

Leave the LCD monitor open first.

1. Flip down the cover slowly while making sure the gray waterproof seal fits into the opening at the terminals.
2. Press the entire cover against the camcorder with equal force and firmly attach the cover completely.
3. Slide the cover until it clicks into place.
   (The cover is not properly closed if the red mark on the cover lock is visible.)

**Caution:**
- Ensure that the terminal cover and the gray waterproof seal are not damaged and that there are no foreign materials (such as hair, lint, sand or dust) adhered on the cover.
- Stop using the unit underwater if there are damages to the cover, etc. and consult your Canon dealer or the nearest Canon service center.
- Do not apply excessive force when opening/closing the terminal cover.
- Read the "Cautions on Using Underwater" (p. 6) before using the camera underwater or in places exposed to water droplets.
**Charging**

This unit is equipped with a built-in battery. Open the connector cover, and connect the AC adapter for charging as shown in the figure.

- **To USB Connector**
- **AC Adapter** (Provided)
- **Charging Adapter Cable** (Provided)
- **AC Adapter to AC Outlet** (AC 110 V to 240 V)

**Caution:**
- The built-in battery is not charged at the time of purchase.
- At the time of purchase or in case of the battery is not used for a long period of time, the charging time will be longer than usual. The camera does not turn on if the remaining battery power is low. In this case, charge the battery for more than 40 minutes before turning on the power.
- **Charging time:** Approx. 6 h 10 m (when charging at 25°C (77°F))
- The battery cannot be charged outside the room temperature range of 10°C to 35°C (50°F to 95°F). The CHARGE lamp does not light up when the battery is not being charged. If the temperature increases or decreases during charging, the CHARGE lamp will blink slowly and charging will stop. In this case, remove the AC adapter, press the Reset button and wait until the room temperature is within the above stated range before charging again.
- You can record or play back videos during charging. (However, the charging time will be longer than usual. In addition, the remaining battery power may decrease according to conditions.) If the internal temperature rises when using the unit, stop the charging temporarily. (The CHARGE lamp goes off.)
- If malfunctions (such as overvoltage) occur, charging will stop. In these cases, CHARGE lamp blinks quickly as a notification.
- During charging, the ▲ icon on the screen changes to ▼ to indicate that charging is in progress. (when the provided AC adapter is used)
- When the recording time becomes extremely short even when the battery is fully charged, the battery needs to be replaced. For details on replacing the built-in battery (subject to a fee), consult the nearest Canon service center.

**Caution:**
- There are certain specifications for a USB rechargeable device. To charge, use a device with the output voltage of 5 V/1 A or more.
- Depending on the specification of your charging device and the thickness and length of an USB cable used to connect to this unit, the charging time may be longer than usual, or it may not even start.
- We shall not be held liable for malfunctions that are due to using non-standard device or a device with poor quality.

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**Resetting this Unit**

When a malfunction occurs on this unit, reset the unit in the following way. (Resetting the unit does not erase the recorded data.)

1. Open the terminal cover.
2. Remove the power cord and all connecting cables.
3. Close the LCD monitor to turn off this unit.
4. Press the Reset button gently using an object with pointed tip.

**Caution:**
- Press the Reset button just once gently.
- Do not use sharp pointed objects. It may damage the unit or cause electric shock.

**Memo:**
- If malfunction persists even after pressing the Reset button, consult the nearest Canon service center.
Proof Functions

This unit is equipped with Waterproof, Dust-proof, Drop-proof and Freeze-proof features.

<table>
<thead>
<tr>
<th>Waterproof: Equivalent to IEC Standard publication 529 IPX8 and IPX6 (1 hour at depths up to 5 m (16.4 ft))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust-proof: Equivalent to IEC Standard publication 529 IP5X</td>
</tr>
<tr>
<td>Drop-proof: This camera clears company testing compliant with MIL-STD-810F Method; 516.5 Shock: Dropping onto plywood 3 cm (1-3/16”) thick from a height of 1.5 m (4.9 ft)</td>
</tr>
<tr>
<td>Freeze-proof: Allowable operating temperatures: −10°C to +40°C (14°F to 104°F) Note: Temperatures between −10°C and 0°C (14°F and 32°F) temporarily lower battery performance, reducing the time available for recording.</td>
</tr>
</tbody>
</table>

Caution:

- There is no guarantee that there will be no damages when the unit is used within the above-mentioned limits. Scratches and dent caused by the impact if the unit is dropped, or other changes in appearance are not included in the warranty.
- Malfunction due to mishandling will void the warranty.
- Before use in water, be sure to read and understand the “Before Using Underwater or under Low Temperature” (☞ p. 6).
- Close the terminal cover firmly until it clicks and confirm that the red sign completely goes off.
- Make sure that there is no damage to and no foreign material adhered to the packing inside the cover.
- Use within a water depth of 5 m (16.4 ft) and a duration of 1 hour.
- The waterproof performance cannot be guaranteed if the camcorder is subject to impact such as dropping.
- Do not jump or dive into water holding the camcorder.
- Do not use the camcorder in strong water flows such as in rapids or under waterfalls. The strong water pressure may impair the waterproof performance.
- Do not immerse into hot spring, or hot water above 40°C (104°F).

Before Using Underwater or under Low Temperature

“Cautions on Using Underwater” (☞ p. 6)
“Maintenance after Use” (☞ p. 7)
“Cautions on Using under Low Temperature” (☞ p. 7)

Cautions on Using Underwater

Please take note of the followings when using this unit near water or underwater.

- Ensure that the cover is closed tightly.
- “Opening the Terminal Cover (SD Card Cover)” (☞ p. 4)
- Ensure that the terminal cover and the gray waterproof seal are not damaged and that there are no foreign materials (such as hair, lint, sand or dust) adhered on the cover.
- Stop using the unit underwater if there are damages to the cover, etc. and consult your Canon dealer or the nearest service center.
- Use within a water depth of 5 m (16.4 ft) and a duration of 1 hour.
- Do not open/close the cover or insert/remove an SD card or any cables while using underwater or on the beach, or if your hands contain water droplets or sands. Doing so may cause water to enter into the camera or malfunction.
- Do not subject the camera to high pressure or vibration resulted from swift current, waterfall or diving into water.
- The waterproof performance is not guaranteed if the camera is dropped or subjected to other impact shock. If the camera has been subjected to impact shock, consult your nearest service center.
- While shooting underwater, noise generated inside of the camera (zooming sounds, etc) may be picked up. This is not a malfunction.
- Do not immerse into hot spring, or hot water above 40°C (104°F). Doing so deteriorates waterproof performance.
- Keep away from hands with sun oil or sun screen. Doing so may cause discoloration or deterioration of material.
- The accessories are not waterproof.
- Do not use the lens filter or conversion lens underwater or at locations where there is water.
Maintenance after Use

After using underwater or in dusty places, rinse the camera with water immediately and dry it completely.

1. Ensure that the terminal cover is closed.
2. Rinse with clean water.
   Soak the camera in a container filled with enough water to immerse the camera completely, and rinse it gently.
3. Dry the camera.
   Wipe the camera completely with a soft dry cloth and allow it to dry in a well-ventilated and shady location.
   - Place the camera with the lens facing downward while the LCD monitor is closed, and leave it for approximately 10 minutes. (By doing so, microphone and LCD part are dried out easily.) Place the camera in a up right position on a dry cloth afterward Close the terminal cover after the camera is dried out completely.
   - Wipe off any foreign materials or water droplets inside the cover.

* If you leave the camera immersed in salt water or allow water droplets from the salt water to remain on the camera, this may cause corrosion, discoloration or deterioration of waterproof performance.
* If you wipe or dry the camera with sand particles adhered, this may cause scratches on the camera.
* Do not wash with chemicals, soap, neutral detergents, or alcohol.
* Do not dry the camera with a hair dryer or other heat sources. This could impair its waterproof performance.

Other Precautions

- Do not leave the camera under low temperature in cold climates or under high temperature above 40 °C (such as under direct sunlight, inside a vehicle in the hot sun, or near a heater). This will cause deterioration of the waterproof performance.
- Malfunction due to mishandling will void the warranty.
- We are not responsible for any loss of data due to water entering into inside of the camera. Please be forewarned.
- It is recommended to replace the waterproof packing once a year to maintain the waterproof performance. Consult your nearest service center. (Subject to a fee)

Cautions on Using under Low Temperature

- The performance of the battery will drop temporarily when the temperature is -10°C to 0°C (14°F to 32°F), this will cause the remaining recording time to shorten.
- Charging cannot be performed when the surrounding temperature is below 10°C (50°F).
- Turning on the camera while it is still cold will deteriorate the performance of the LCD monitor. Problems such as the screen becoming dark momentarily or residual image can occur.
- If snow or water droplets adhere to the camera under sub-zero temperature environment, ice can formed between the gaps around the buttons, speaker or microphone. This will cause difficulty in operating the buttons as well as decrease in the volume level.
- Direct contact with exposed metal part under cold temperature can cause the skin to stick on the metal part resulting in injuries such as frostbite. Do not touch with bare hands.

Other Precautions

- Do not leave the camera under low temperature in cold climates or under high temperature above 40 °C (such as under direct sunlight, inside a vehicle in the hot sun, or near a heater). This will cause deterioration of the waterproof performance.
- Malfunction due to mishandling will void the warranty.
- We are not responsible for any loss of data due to water entering into inside of the camera. Please be forewarned.
- It is recommended to replace the waterproof packing once a year to maintain the waterproof performance. Consult your nearest service center. (Subject to a fee)
**Grip Adjustment**

1. Open the belt
2. Adjust the length of the belt
3. Fasten the belt

**Caution:**
- Be sure to fasten the grip belt properly.
- If the belt is loose, this unit may drop and result in injuries or damages.

**Attaching the Lens Cap**

Attach the cap to protect the lens when not shooting.

**During recording**

- Fix to the grip belt

**Attaching the Core Filter**

Attaching core filter to the cable of the AC adapter and the optional AV cable (on the end connected to this unit) can reduce the interference generated when this unit is connected to an external device.

- Use the small core filter with the power cable, and the large core filter with the AV cable.
- Do not attach the core filter to the provided adapter cable.

Release the stopper

Wind twice (for AC Adapter cable)

Wind once (for AV Cable)

To be connected to this unit
Inserting an SD Card

When a commercially available SD card is inserted, recordings can still be made to the card without stopping when the remaining recording time on the built-in memory runs out.

“SEAMLESS RECORDING” (☞ p. 76)
Depending on the setting of the recording media, recording can be made to the SD card without using the built-in memory.

“Types of Usable SD Card” (☞ p. 9)
“Approximate Video Recording Time” (☞ p. 49)

1 Open the terminal cover.

2 Close the LCD monitor to turn off this unit.

3 Insert an SD card.

Warning

- Make sure not to insert the SD card in the wrong direction. It may cause damage to the unit and SD card.
- Before inserting or removing the SD card, close the LCD monitor and ensure that the POWER/ACCESS lamp goes off.
- Do not touch the metal contact area when inserting the SD card.

Memo:

- When “SEAMLESS RECORDING” is set to “ON”, recordings can still be made to the SD card without stopping when the remaining recording time on the built-in memory runs out.
- “SEAMLESS RECORDING” (☞ p. 76)
- Both videos and still images can be recorded on one SD card. It is recommended to confirm the video operation of the SD card before usage.
- To record to an SD card, it is necessary to set the recording media to “SD CARD”.
- “REC MEDIA FOR VIDEO” (☞ p. 86)
- “REC MEDIA FOR IMAGE” (☞ p. 86)
- To use a new SD card, or SD card used on other devices, it is necessary to format (initialize) the SD card using “FORMAT SD CARD” from the “SETUP” menu.
- “FORMAT SD CARD” (☞ p. 86)

Removing the Card

Push the SD card inward once, then pull it out straight.

Types of Usable SD Card

The following SD cards can be used on this unit.
Operations are confirmed on the SD cards from the following manufacturers.

- Panasonic
- TOSHIBA
- SanDisk

SD Card

- This unit supports 256 MB to 2 GB SD cards.
- Use a Class 4 or higher compatible SD card (2 GB) for video recording.

SDHC Card

- Use a Class 4 or higher compatible SDHC card (4 GB to 32 GB) for video recording.

SDXC Card

- Use a Class 4 or higher compatible SDXC card (Max. 128 GB) for video recording.
Using the Touch Screen

The LCD monitor of this unit is a touch panel which enables operations by touching the screen with your finger. The operation buttons, thumbnails, and menu items are displayed on the screen according to each mode (recording/playback/setting).

- There are two ways to operate the touch screen, namely "tap" and "drag". The following are some examples.

- Tap the button (icon) or thumbnail (file) on the screen to make a selection.
- Drag the thumbnails on the screen to search for the desired file.

When your computer cannot recognize the SDXC card

Confirm and update the OS of your computer.

<table>
<thead>
<tr>
<th>Windows 7</th>
<th>Download and install the updating program (KB976422) from the following URL.</th>
</tr>
</thead>
</table>

| Mac OS X 10.4 Tiger / Mac OS X 10.5 Leopard | Not compatible. |
| Mac OS X 10.6 Snow Leopard | Update the OS version to 10.6.5 or later. |

Locking the Screen (when Shooting Underwater)

Lock the screen before using this unit underwater to prevent operation errors on the touch screen due to water pressure.

- Once the screen is locked, operations on the touch screen except [L] are disabled.
- The START/STOP (recording) button and the zoom lever can be used while the screen is locked.
- You can set for both video and still image modes.
- If “SCREEN LOCK” has been set, it will take a longer time for the unit to power off after closing the LCD monitor.

### Setting the “SCREEN LOCK”

1. Check that the unit is in the recording mode.
2. Tap “MENU”.
3. Tap “RECORD SETTING”.
4. Tap “SCREEN LOCK”.
   - The [L] button appears on the screen.

### To cancel “SCREEN LOCK”

Tap the [L] button.

**Memo:**

- Once “SCREEN LOCK” is set, only the [L] button on the touch screen can be operated.
- “SCREEN LOCK” cannot be set for the following cases:
  - during recording
  - when “TIME-LAPSE RECORDING” or “DATE/TIME RECORDING” has been set.
Adjusting the Touch Screen

Adjust the response position when the touch screen is touched.

1. Tap “MENU”.

2. Tap “SETUP”.

3. Tap “TOUCH SCREEN ADJUST”.

   - The touch screen adjustment screen appears.

4. Tap “+”. (3 times in total)

   - Keep tapping “+” as its position changes with every tap.
   - If areas other than the “+” mark are tapped, errors will occur. Make sure to tap the “+” mark.

5. Tap “+” again to confirm the adjusted positions. (3 times in total)

   - Keep tapping “+” as its position changes with every tap.

6. Tap “OK”.

   - Setting ends and returns to the menu screen.

Caution:
- Do not tap areas other than the “+” mark during touch screen adjustment (steps 4 - 5). Doing so may cause the touch screen to malfunction.

Memo:
- Adjust by lightly tapping with a corner of an SD card, etc.
- Do not press with an object with a sharp tip or do not press hard.
Names of Buttons and Functions on the LCD Monitor

The following screens are displayed during video and still image modes.

Recording Screen (Video/Still Image)

1. (Video/Still Image) Mode Button
   - Switches between video (60i/60p) and still image modes.
2. Zoom Button
   - “Zooming” (p. 26)
3. Still Image Recording Button
   - Records still images during video recording.
   - “Capturing Still Images During Video Recording” (p. 23)
4. Playback Mode Button
   - Switches to the playback mode.
5. Recording Start/Stop Button
   - : Video Recording Start Button
   - : Video Recording Stop Button
6. Menu Button
   - “Operating the Menu” (p. 73)
7. Display Button
   - Switches the display between full (D) and simple (D) with every tap of the button.
   - Simple display: Some displays disappear automatically when the screen is not operated.
   - Full display: Displays everything. The display button changes from D to D.
   - When the power is turned off, the display setting will revert to simple display (D).
8. Recording Mode Button
   - Switches the recording mode ( Intelligent Auto Manual).

Playback Screen (Video)

• When this unit is not operated for a certain period of time, the operation buttons on the LCD monitor disappear automatically. Tap on the screen to display the operation buttons again.

1. (Video/Still Image) Mode Button
   - Switches between video (60i/60p) and still image modes.
2. Video Scene Capture Button
   - Displayed when playback is paused.
   - Saves one scene of the video being played back as a still image.
3. Recording Mode Button
   - Switches to the recording mode.
4. Index Screen (Thumbnail Display) Button
   - Returns to the index screen (thumbnail display).
   - “Operation Buttons for Video Playback” (p. 51)
5. Delete Button
   - “Deleting the Currently Displayed File” (p. 62)
6. Playback Zoom Button
   - Enlarges the video image that is played back.
   - “During Video Playback” (p. 51)
7. Menu Button
   - “Operating the Menu” (p. 73)
8. Operation Buttons
   - “Operation Buttons for Video Playback” (p. 51)
9. Display Button
   - Switches the display between full (D) and simple (D) with every tap of the button.
   - Simple display: Some displays disappear automatically when the screen is not operated.
   - Full display: Displays everything. The display button changes from D to D.
   - When the power is turned off, the display setting will revert to simple display (D).
When this unit is not operated for a certain period of time, the operation buttons on the LCD monitor disappear automatically. Tap on the screen to display the operation buttons again.

1. (Video/Still Image) Mode Button
   - Switches between video (60i/60p) and still image modes.

2. Recording Mode Button
   - Switches to the recording mode.

3. Index Screen (Thumbnail Display) Button
   - Returns to the index screen (thumbnail display).
   "Operation Buttons for Still Image Playback" (p. 57)

4. Delete Button
   "Deleting the Currently Displayed File" (p. 62)

5. Playback Zoom Button
   - Enlarges the still image that is being played back.
   "Playing Back Still Images" (p. 58)

6. Menu Button
   "Operating the Menu" (p. 73)

7. Operation Buttons
   "Operation Buttons for Still Image Playback" (p. 57)

8. Display Button
   Switches the display between full (D) and simple (D) with every tap of the button.
   - Simple display: Some displays disappear automatically when the screen is not operated.
   - Full display: Displays everything. The display button changes from D to D.
   - When the power is turned off, the display setting will revert to simple display (D).
Getting Started

Menu screen (recording mode)

1 SILENT Button
   “Using the Silent Mode” (☞ p. 22)
2 INFO. Button
   “Checking the Remaining Recording Time” (☞ p. 48)
3 SETUP Menu
   “SETUP (video/still image)” (☞ p. 85)
4 CONNECTION SETTINGS Menu
   “CONNECTION SETTINGS (video/still image)” (☞ p. 87)
5 RECORD SETTING Menu
   “RECORD SETTING Menu (video)” (☞ p. 74)
   “RECORD SETTING Menu (still image)” (☞ p. 79)
6 Close Button
   Exit the menu.

Menu screen (playback mode)

1 SILENT Button
   “Using the Silent Mode” (☞ p. 22)
2 INFO. Button (Displayed only after playback)
   “Checking the Recording Date and Other Information” (☞ p. 53)
3 PLAYBACK SETTING Menu
   “PLAYBACK SETTING Menu (video)” (☞ p. 81)
   “PLAYBACK SETTING Menu (still image)” (☞ p. 83)
4 SETUP Menu
   “SETUP (video/still image)” (☞ p. 85)
5 CONNECTION SETTINGS Menu
   “CONNECTION SETTINGS (video/still image)” (☞ p. 87)
6 EDIT Menu
   “EDIT Menu (video)” (☞ p. 82)
   “EDIT Menu (still image)” (☞ p. 84)
7 Close Button
   Exit the menu.
Clock Setting

“SET DATE/TIME!” is displayed when you turn on the unit for the first time or when the unit has not been used for a prolonged period.

Set the clock before recording.

1. Open the LCD monitor.
   - The unit turns on.
   - When the LCD monitor is closed, the unit turns off.

2. Tap “OK” when “SET DATE/TIME!” is displayed.

3. Set the date and time.
   - When the day, month, year, hour, or minute item is tapped, “▲” and “▼” will be displayed.
   - Tap “▲” or “▼” to adjust the year, month, day, hour, and minute.
   - Tap “▲” or “▼” to scroll the screen.

4. After setting the date and time, tap “SAVE”.

5. Select the region where you live and tap “SAVE”.
   - Time difference between the selected city and the GMT (Greenwich Mean Time) is displayed.
   - Tap “◀” or “▶” to select the city name.

Memo:
- The clock can be reset again later.
  “Resetting the Clock” (☞ p. 15)
- When using this unit overseas, you can set it to the local time for recording.
  “Setting the Clock to Local Time when Traveling” (☞ p. 18)
- The clock is reset about one month after the battery is depleted. “SET DATE/TIME!” is displayed the next time you turn on this unit. Set the clock again after charging the battery.

Resetting the Clock

Set the clock with “DATE & TIME” from the menu.

1. Tap “MENU”.

2. Tap “SETUP”.

3. Tap “DATE & TIME”.

4. Tap “CLOCK SETTING”.

5. Set the date and time.
   - When the day, month, year, hour, or minute item is tapped, “▲” and “▼” will be displayed.
   - Tap “▲” or “▼” to adjust the year, month, day, hour, and minute.

6. After setting the date and time, tap “SET”.
7 Select the region where you live and tap “SAVE”.

- Time difference between the selected city and the GMT (Greenwich Mean Time) is displayed.
- Tap < or > to select the city name.

Changing the Display Language

The language on the display can be changed.

1 Tap “MENU”.

2 Tap “SETUP”.

3 Tap “LANGUAGE”.

- Tap \ or \ to scroll the screen.

4 Tap to the desired language.

- Tap \ or \ to scroll the screen.
Holding this Unit

When holding this unit, keep your elbows close to your sides to prevent camera shake.

- Hold the LCD monitor with your left hand and adjust the angle accordingly. Holding the LCD monitor with your left hand helps to stabilize the camera for recording.

Caution:
- The photographer should pay attention to the surroundings during shooting, making sure that he/she is in no danger of falling or collision with another person or vehicle.
- Be careful not to drop this unit during transportation.
- Guardians should pay close attention when this unit is used by children.

Tripod Mounting

This unit can be mounted on a tripod (or monopod). This is useful for preventing camera shake and recording from the fixed position.

- To prevent this unit from falling off, check the tripod mounting screw holes and positioning holes on the unit carefully before mounting, and turn the screws until they are fastened firmly.

Caution:
- To prevent injuries or damages which may result if this unit falls off, read the instruction manual of the tripod (or monopod) to be used and make sure that it is securely attached.
- In strong wind conditions and when placed at an unstable location, there is a risk of the tripod toppling and falling.
- Please check beforehand if the use of a tripod is allowed as it may be prohibited depending on the shooting location.

Memo:
- It is recommended to use a tripod or monopod when recording in conditions prone to camera shake (such as in dark places or when zoomed to the telephoto end).
- Set the image stabilizer to (OFF) when using a tripod for recording.

“Reducing Camera Shake” (p. 40)
Getting Started

Using this Unit Overseas

The shape of the power outlet varies according to countries and regions. To charge the battery pack, you need a converter plug that matches the shape of the outlet.

“Charging the Battery Pack Overseas” (☞ p. 18)

Change the date and time display to the local time by selecting your travel destination in “AREA SETTING” of “DATE & TIME”.

“Setting the Clock to Local Time when Traveling” (☞ p. 18)

When “ON” is selected in “DST SETTING” of “DATE & TIME”, the time is set 1 hour ahead.

“Setting Daylight Saving Time” (☞ p. 19)

Charging the Battery Pack Overseas

The shape of the power outlet varies according to countries and regions. To charge the battery pack, you need a converter plug that matches the shape of the outlet.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>BF</th>
<th>C</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>United States</td>
<td>A</td>
<td>Canada</td>
<td>A</td>
</tr>
<tr>
<td>Asia</td>
<td>Japan</td>
<td>A</td>
<td>India</td>
<td>9, C, E</td>
</tr>
<tr>
<td>Africa</td>
<td>Algeria</td>
<td>C, A, C</td>
<td>Egypt</td>
<td>C, A, C</td>
</tr>
<tr>
<td>Australia</td>
<td>Australia</td>
<td>C</td>
<td>New Zealand</td>
<td>9, A</td>
</tr>
<tr>
<td>Europe</td>
<td>Austria</td>
<td>C</td>
<td>Belgium</td>
<td>C, A, C</td>
</tr>
<tr>
<td></td>
<td>Croatia</td>
<td>C</td>
<td>Greece</td>
<td>9, A</td>
</tr>
<tr>
<td></td>
<td>Italy</td>
<td>C</td>
<td>Norway</td>
<td>9, A</td>
</tr>
<tr>
<td></td>
<td>Luxembourg</td>
<td>C</td>
<td>Sweden</td>
<td>9, A</td>
</tr>
</tbody>
</table>

Memo:

- Setting “AREA SETTING” changes the clock time such that time difference is accounted for.

After returning to your country, re-select the region that was set initially to restore the original clock settings.

Setting the Clock to Local Time when Traveling

Change the date and time display to the local time by selecting your travel destination in “AREA SETTING” of “DATE & TIME”.

Restore the region settings after you returned from the trip.

1 Tap “MENU”.

2 Tap “SETUP”.

3 Tap “DATE & TIME”.

4 Tap “AREA SETTING”.

5 Select the area you are traveling to and tap “SAVE”.

- Tap or to scroll the screen.
- Time difference between the selected city and the GMT (Greenwich Mean Time) is displayed.
- Tap to select the city name.

Memo:

- Setting “AREA SETTING” changes the clock time such that time difference is accounted for.
Setting Daylight Saving Time

When “ON” is selected in “DST SETTING” of “DATE & TIME”, the time is set 1 hour ahead.

1 Tap “MENU”.

2 Tap “SETUP”.

3 Tap “DATE & TIME”.

4 Tap “DST SETTING”.

5 Tap “ON”.

Memo:

- What is daylight saving time?
  Daylight saving time is the system of setting the clock 1 hour ahead for a fixed period in summer.
  It is used mainly in the Western countries.
- Restore the daylight saving time settings after you returned from the trip.
Taking Videos in Auto Mode

With Intelligent Auto recording, the camera automatically adjusts the settings such as brightness and focus to suit the shooting conditions.

- In case of specific shooting scenes such as person etc., its icon is displayed on the screen.
- Before recording an important scene, it is recommended to conduct a trial recording.

1 Open the LCD monitor.

2 Check if the recording mode is P, Intelligent Auto.

3 Press the START/STOP button to start recording.

- Press again to stop.
- Some displays disappear after approximately 3 seconds. Use the button to change the displays.

Indications for Video Recording

<table>
<thead>
<tr>
<th>Display Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Video Quality</td>
<td>Displays the icon of the “VIDEO QUALITY” setting selected in the recording menu when “SYSTEM SELECT” is set to “60i”.</td>
</tr>
<tr>
<td>2 TOUCH PRIORITY AE/AF</td>
<td>Displays the setting of “TOUCH PRIORITY AE/AF”. By default, it is set to “FACE TRACKING”.</td>
</tr>
<tr>
<td>3 Time</td>
<td>Displays the current time.</td>
</tr>
<tr>
<td>4 RECORDING EFFECT</td>
<td>Displays the corresponding icon when a recording effect is specified.</td>
</tr>
<tr>
<td>4a</td>
<td>ET</td>
</tr>
<tr>
<td>4b</td>
<td>ET</td>
</tr>
<tr>
<td>4c</td>
<td>ET</td>
</tr>
<tr>
<td>5 Image Stabilizer</td>
<td>Displays the image stabilizer setting.</td>
</tr>
<tr>
<td>6 Recording Media</td>
<td>Displays the icon of the media where videos are recorded to.</td>
</tr>
<tr>
<td>7 Battery Indicator</td>
<td>Displays the approximate remaining battery power during use.</td>
</tr>
<tr>
<td>8 Recording Mode</td>
<td>Displays the current recording mode of P (Intelligent Auto) or H (Manual).</td>
</tr>
<tr>
<td>9 Setting Scenes of Intelligent Auto</td>
<td>Displays scenes detected automatically in the Intelligent Auto function. Multiple scenes may be detected.</td>
</tr>
<tr>
<td>10 SEAMLESS RECORDING</td>
<td>Displays the seamless recording icon when it is set. If it appears if seamless recording cannot be performed.</td>
</tr>
<tr>
<td>11 Remaining Recording Time</td>
<td>Displays the remaining time for video recording.</td>
</tr>
<tr>
<td>12 Scene Counter (Recorded Time)</td>
<td>Displays the elapsed time of the video that is currently being recorded.</td>
</tr>
</tbody>
</table>
Scenes of Intelligent Auto

<table>
<thead>
<tr>
<th>Display Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Icon" /></td>
<td>Captures one’s skin beautifully.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Icon" /></td>
<td>Allows people to be captured naturally.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Icon" /></td>
<td>Record a group of people with the most suitable settings.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Icon" /></td>
<td>Records while focusing on a near object.</td>
</tr>
<tr>
<td><img src="image5.png" alt="Icon" /></td>
<td>Focuses at a far distance and captures a sharp image with vivid colors.</td>
</tr>
<tr>
<td><img src="image6.png" alt="Icon" /></td>
<td>Records in dark places with minimal noise in the overall image.</td>
</tr>
<tr>
<td><img src="image7.png" alt="Icon" /></td>
<td>Allows night scenes to be captured accurately with minimal noise in the overall image.</td>
</tr>
<tr>
<td><img src="image8.png" alt="Icon" /></td>
<td>Prevents colors from fading even when recording in a bright environment, such as snowfield and beaches.</td>
</tr>
<tr>
<td><img src="image9.png" alt="Icon" /></td>
<td>Prevents colors from fading when recording a subject in a spotlight.</td>
</tr>
<tr>
<td><img src="image10.png" alt="Icon" /></td>
<td>Reproduces the green color of trees vividly.</td>
</tr>
<tr>
<td><img src="image11.png" alt="Icon" /></td>
<td>Reproduces the colors of sunset naturally.</td>
</tr>
<tr>
<td><img src="image12.png" alt="Icon" /></td>
<td>Adjusts settings so that the subject does not appear too dark due to backlight.</td>
</tr>
<tr>
<td><img src="image13.png" alt="Icon" /></td>
<td>Records while emphasizing the brightness of the colors.</td>
</tr>
<tr>
<td><img src="image14.png" alt="Icon" /></td>
<td>Reproduces the natural colors of the outdoors during the day.</td>
</tr>
<tr>
<td><img src="image15.png" alt="Icon" /></td>
<td>Reproduces the natural colors of the indoors in a cold-color illumination.</td>
</tr>
<tr>
<td><img src="image16.png" alt="Icon" /></td>
<td>Reproduces the natural colors of the indoors in a warm-color illumination.</td>
</tr>
<tr>
<td><img src="image17.png" alt="Icon" /></td>
<td>Selects the most suitable settings for handheld shooting.</td>
</tr>
<tr>
<td><img src="image18.png" alt="Icon" /></td>
<td>Selects the most suitable settings when a tripod is used for shooting.</td>
</tr>
</tbody>
</table>

Memo:
- Scenes can be detected according to the shooting conditions and automatically adjusted in Intelligent Auto mode.
- Multiple scenes may be detected depending on the recording conditions.
- Some functions may not work properly depending on the shooting conditions.
Using the Silent Mode

The Silent mode is a function for turning off the operation sound. The screen can also be dimmed depending on the setting. Use this mode to record quietly in events such as recitals, presentations etc.

- When “SILENT MODE” is set to “LCD DARKENED AND SOUND OFF”, is displayed.

### Operating procedure

1. Tap “MENU”.
2. The top menu appears.
3. Tap to turn off the operation sound only. And tap to dim the screen and turn off the operation sound.

Useful Settings for Recording

- When “DATE/TIME RECORDING” is used, the date and time can be recorded together with the video.

“Recording Videos with Date and Time” (p. 46)

### Caution:

- Do not expose the lens to direct sunlight.
- While this unit can be used with the LCD monitor reversed or the LCD monitor closed with “LCD CLOSED RECORDING” activated, the temperature of this unit rises more easily. Leave the LCD monitor open when using this unit for long periods of time, or in places exposed to direct sunlight or high temperatures.
- The power may turn off to protect the circuit if the temperature of this unit rises too much.
- If the temperature of this unit rises during recording, changes color to yellow as a notification.
- This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such a case, close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.

“Resetting this Unit” (p. 5)

### Disclaimer

- We shall not be held responsible for loss of recorded contents when recording videos/audio or playback cannot be operated due to malfunctions in this unit, provided parts, or SD card.
- Once deleted, recorded contents (data), including data loss due to malfunctions in this unit, cannot be restored. Please be forewarned.
- Canon will not be responsible for any lost data.

### Memo:

- Check that the remaining recording time in the media is sufficient before you start recording. “Checking the Remaining Recording Time” (p. 48)
- If the remaining recording time is not sufficient, save the files on a PC or disc before deleting the files from the unit. “Deleting Unwanted Files” (p. 62)
- When there are many files in the media, it may take time for them to be displayed on the playback screen. Wait for a while as the POWER/ACCESS lamp blinks, indicating normal operation.
- Recording stops automatically as it cannot be performed for 12 or more consecutive hours according to specifications. (It may take some time to resume recording.)
- Up to 4GB per video file can be recorded. File recorded using long recordings that exceeds 4GB is split and recorded into several video files.
- Depending on the shooting conditions, the four corners of the screen may appear dark, but this is not a malfunction. In this case, change the shooting conditions by moving the zoom lever, etc.
Capturing Still Images During Video Recording

Still images can be captured by tapping the button while in the video mode (standby or recording).

- “PHOTO” lights up on the screen when a still image is being captured.

- The still images captured during video recording are saved to the destination set in “REC MEDIA FOR IMAGE”.

Memo:
- The size of the still image that is captured in the video mode is 1,920 x 1,080.
- Operation is invalid under the following conditions:
  - when menu is being displayed
  - when remaining recording time or battery power is being displayed
  - when any functions in “TIME-LAPSE RECORDING”, “RECORDING EFFECT” or “DATE/TIME RECORDING” is set
  - when the AV cable is connected to the AV connector
  - when the HDMI cable is connected and a resolution other than 1080i is output

Taking Still Images in Auto Mode

You can record without worrying about the setting details by using the Intelligent Auto mode.

1. Open the LCD monitor.

- Check if the recording mode is  .
  - If the mode is  video, tap  on the recording screen to display the mode switching screen.
  - Tap  to switch the mode to still image.

2. Check if the recording mode is , Intelligent Auto.

- If the mode is  Manual, tap  on the recording screen to display the mode switching screen.
  - Tap , to switch the recording mode to Intelligent Auto.

3. Press the START/STOP button.

- PHOTO lights up when a still image is being captured.

Memo:
- Depending on the subject and shooting conditions, recording may not be performed properly even in the Intelligent Auto mode.

■ Start recording after adjusting the focus

1. Press and hold the button on the touch screen until the focus is adjusted.

   - Lights up in green when in focus

2. Remove your finger from the button to release the shutter.
   Available only when “SHUTTER MODE” is set to “RECORD ONE SHOT”.

23
Indications During Still Image Recording

Some displays disappear after approximately 3 seconds. Use the D button to change the displays.

<table>
<thead>
<tr>
<th>Display Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Image Size</td>
<td>Displays the icon of the image size. The size of still images can be changed.</td>
</tr>
<tr>
<td>2 TOUCH PRIORITY AE/AF</td>
<td>Displays the setting of “TOUCH PRIORITY AE/AF”. By default, it is set to “FACE TRACKING”. “Capturing Subjects Clearly (TOUCH PRIORITY AE/AF)” (p. 38)</td>
</tr>
<tr>
<td>3 Time</td>
<td>Displays the current time. “Clock Setting” (p. 15)</td>
</tr>
<tr>
<td>4 RECORDING EFFECT</td>
<td>Displays the corresponding icon when a recording effect is specified.</td>
</tr>
<tr>
<td>5 Recording media</td>
<td>Displays the icon of the media where still images are recorded to. The recording media can be changed.</td>
</tr>
<tr>
<td>6 Battery Indicator</td>
<td>Displays the approximate remaining battery power during use. “Checking the Remaining Recording Time” (p. 48)</td>
</tr>
<tr>
<td>7 Recording Mode</td>
<td>Displays the current recording mode of (Intelligent Auto) or (Manual).</td>
</tr>
<tr>
<td>8 Setting Scenes of Intelligent Auto</td>
<td>Displays scenes detected automatically in the Intelligent Auto function. Multiple scenes may be detected.</td>
</tr>
<tr>
<td>9 Remaining Number of Shots</td>
<td>Displays the remaining number of shots for still image recording. “Approximate Number of Still Images (Unit: Number of Shots)” (p. 49)</td>
</tr>
<tr>
<td>10 Recording in Progress</td>
<td>“PHOTO” appears when a still image is being captured.</td>
</tr>
<tr>
<td>11 Focus</td>
<td>Lights up in green when focused.</td>
</tr>
</tbody>
</table>

Scenes of Intelligent Auto

<table>
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<th>Display Icon</th>
<th>Description</th>
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<td>Selects the most suitable settings when a tripod is used for shooting.</td>
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Memo:
- Scenes can be detected according to the shooting conditions and automatically adjusted in Intelligent Auto mode.
- Multiple scenes may be detected depending on the recording conditions.
- Some functions may not work properly depending on the shooting conditions.
Operation Buttons for Still Image Recording

<table>
<thead>
<tr>
<th>Operation Buttons</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Video/Still Image Mode</td>
<td>Switches between video and still image modes.</td>
</tr>
<tr>
<td>② WT Zoom</td>
<td>Allows the same functions as the zoom lever to be performed. Camera shake that often occurs when using the zoom lever can be minimized. “Zooming” (☞ p. 26)</td>
</tr>
<tr>
<td>③ Still Image Recording</td>
<td>Allows you to take still images using the touch panel. Pressing and holding the button allows you to adjust the focus before shooting. “Start recording after adjusting the focus” (☞ p. 23)</td>
</tr>
<tr>
<td>④ Playback Mode</td>
<td>Switches to the playback mode.</td>
</tr>
<tr>
<td>⑤ MENU</td>
<td>Displays the various menus of still image recording. “Operating the Menu” (☞ p. 73)</td>
</tr>
</tbody>
</table>
| ⑥ Display Button | Switches the display between full (D) and simple (D) with every tap of the button.  
  - Simple display: Some displays disappear automatically when the screen is not operated.  
  - Full display: Displays everything. The display button changes from D to D.  
  - When the power is turned off, simple display (D) will be set. |
| ⑦ Recording Mode | Switches between the i, A, Intelligent Auto and M Manual recording mode. |

Using the Silent Mode

The Silent mode is a function for turning off the operation sound. The screen can also be dimmed depending on the setting. Use this mode to record quietly in events such as recitals, presentations etc.

- When “SILENT MODE” is set to “LCD DARKENED AND SOUND OFF”, is displayed.

Operating procedure

1. Tap “MENU”.
2. The top menu appears.
3. Tap to turn off the operation sound only. And tap to dim the screen and turn off the operation sound.

Caution :

- Do not expose the lens to direct sunlight.
- While this unit may be used with the LCD monitor reversed and closed, the temperature rises more easily. Leave the LCD monitor open when using this unit for long periods of time, or in places exposed to direct sunlight or high temperatures.
- The power may turn off to protect the circuit if the temperature of this unit rises too much.
- Do not remove the AC adapter or SD card when the POWER/ACCESS lamp is lighted. The recorded data may become unreadable.
- This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such a case, close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.
- “Resetting this Unit” (☞ p. 5)

Memo :

- Before recording an important scene, it is recommended to conduct a trial recording.
- Depending on the shooting conditions, the four corners of the screen may appear dark, but this is not a malfunction. In this case, change the shooting conditions by moving the zoom lever, etc.
Zooming

The angle of view can be adjusted using zoom.
- Use the W end (wide angle end) to shoot a wider field of view.
- Use the T end (telephoto end) to magnify the subject for shooting.

![W (Wide Angle End) & T (Telephoto End)]

- The following zoom options are available:
  - Optical Zoom (1 - 40x)
  - Digital Zoom (41 - 200x)
- You can also use the zoom (WT) button on the touch screen to zoom.
- Tap the WT button, then press and hold the T (telephoto end) or W (wide angle end) button.

### Zoom Memory

The zoom position can be stored by the Zoom Memory icon (WT) on the touch screen.

#### Storing Method

1. Tap "WT".

2. Press and hold "M" (approx. 1 second).

3. "Store the zoom position."

#### Operating Detail

1. Tap "WT".

2. Tap "M".

"Zoom to the point that is stored in advance."

### Memo:

- When digital zoom is used, the image becomes grainy as it is digitally enlarged.
- The zoom ratio range can be changed.

"ZOOM" (⇒ p. 77)
Manual Recording

In situations where you are unable to record properly using Intelligent Auto recording, you can change the settings and record using manual recording.

1. Open the LCD monitor.

2. Select the Manual recording mode.
   - Set the recording mode to either video or still image.
   - To switch the mode between video and still image, tap or on the recording screen to display the mode switching screen. Tap or to switch the mode to video or still image respectively.
   - If the mode is Intelligent Auto, tap on the recording screen to display the mode switching screen. Tap to switch the recording mode to Manual.

3. Tap “MENU”.
   - The top menu appears.

4. Tap “RECORD SETTING”.

5. Tap the item to set manually.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOCUS</td>
<td>Use manual focus if the subject is not focused automatically. “Adjusting Focus Manually (FOCUS)” (p. 28)</td>
</tr>
<tr>
<td>BRIGHTNESS ADJUST</td>
<td>Overall brightness on the screen can be adjusted. “Adjusting Brightness” (p. 29)</td>
</tr>
<tr>
<td>BACKLIGHT COMP.</td>
<td>Corrects the image when the subject appears dark due to backlight. “Setting Backlight Compensation” (p. 30)</td>
</tr>
<tr>
<td>WHITE BALANCE</td>
<td>Overall color on the screen can be adjusted. “Setting White Balance” (p. 31)</td>
</tr>
<tr>
<td>TELE MACRO</td>
<td>Use this to take close-up (macro) shots of the subject. “Taking Close-up Shots (TELE MACRO)” (p. 32)</td>
</tr>
</tbody>
</table>

• For details on the various manual settings, refer to “Manual Recording Menu”.

Manual Recording Menu
The following items can be set.
Adjusting Focus Manually (FOCUS)
Adjust the focus manually when you are unable to focus clearly using Intelligent Auto or when you want to lock the focus.

1 Select the Manual recording mode.

- If the mode is IA, Intelligent Auto, tap IA on the recording screen to display the mode switching screen. Tap M to switch the recording mode to Manual.

2 Tap "MENU".

- The top menu appears.

3 Tap “RECORD SETTING”.

4 Tap “FOCUS”.

- Tap \( \text{ } \) to exit the menu.
- Tap \( \text{ } \) to return to the previous screen.

5 Tap “MANUAL”.

6 Adjust the focus.

- Tap \( \text{ } \) to focus on a distant subject. If \( \text{ } \) appears blinking, focus cannot be set any further.
- Tap \( \text{ } \) to focus on a near subject. If \( \text{ } \) appears blinking, focus cannot be set any nearer.

7 Tap “SET” to confirm.

- When focus is confirmed, the focusing frame disappears and \( \text{ } \) and \( \text{ } \) are displayed.
Adjusting Brightness

You can adjust the brightness to your preferred level.

1 Select the Manual recording mode.

• If the mode is i.A, Intelligent Auto, tap i.A, on the recording screen to display the mode switching screen. Tap M to switch the recording mode to Manual.

2 Tap “MENU”.

• The top menu appears.

3 Tap “RECORD SETTING”.

4 Tap “BRIGHTNESS ADJUST”.

5 Tap “MANUAL”.

6 Adjust the brightness value.

• Compensation range: -2.0 to +2.0
• Tap A to increase the brightness.
• Tap V to decrease the brightness.

7 Tap “SET” to confirm.

Memo:

• Settings can be adjusted separately for videos and still images.
Setting Backlight Compensation

You can correct the image when the subject appears too dark due to backlight.

1. Select the Manual recording mode.

   - If the mode is Intelligent Auto, tap the Intelligent Auto icon on the recording screen to display the mode switching screen. Tap Manual to switch the recording mode to Manual.

2. Tap "MENU".

   - The top menu appears.

3. Tap "RECORD SETTING".

4. Tap "BACKLIGHT COMP.".

   - Tap X to exit the menu.
   - Tap to return to the previous screen.

5. Tap "ON" or "ADVANCE".

   - "ADVANCE" is designed to perform more effective backlight compensation. Choose this when the backlight compensation is not adjusted appropriately by "ON".
   - After setting, the icon (Advance: Q) appears.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Backlight compensation is disabled.</td>
</tr>
<tr>
<td>ON</td>
<td>Backlight compensation is enabled.</td>
</tr>
<tr>
<td>ADVANCE</td>
<td>Should be selected for a better backlight compensation effect.</td>
</tr>
</tbody>
</table>
Setting White Balance

You can set the color tone to suit the light source.

1 Select the Manual recording mode.

- If the mode is [i.A], Intelligent Auto, tap [i.A] on the recording screen to display the mode switching screen. Tap [M] to switch the recording mode to Manual.

2 Tap “MENU”.

- The top menu appears.

3 Tap “RECORD SETTING”.

4 Tap “WHITE BALANCE”.

5 Select the white balance setting.

- You can either tap the icon, or select the item using the “<” “>” button and tap “SET”.
- The White Balance icon appears on the screen upon completing the setting.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>[i.A] AUTO</td>
<td>Adjusts automatically to the natural colors.</td>
</tr>
<tr>
<td>[MWB] MWB</td>
<td>Use this when the problem of unnatural colors is not resolved.</td>
</tr>
<tr>
<td>[+] FINE</td>
<td>Set this when shooting outdoors on a sunny day.</td>
</tr>
<tr>
<td>[°] CLOUD</td>
<td>Set this when shooting on a cloudy day or inside a shade.</td>
</tr>
<tr>
<td>[°] HALOGEN</td>
<td>Set this when shooting under illumination such as a video light.</td>
</tr>
<tr>
<td>[MARINE:BLUE]</td>
<td>Set this when shooting in deep waters (water appears blue).</td>
</tr>
<tr>
<td>[MARINE:GREEN]</td>
<td>Set this when shooting in shallow waters (water appears green).</td>
</tr>
</tbody>
</table>

Using MWB

1 Point the cursor to “MWB” using the “<” “>” button.

2 Hold a sheet of plain white paper in front of the lens so that the white paper fills the screen, tap and hold the “SET” button.

3 [°] blinks, release your finger after the setting screen disappears.
- You can also tap and hold the “MWB” icon to perform the setting.

Memo:

- The setting will not change if “MWB” is being tapped too fast (less than 1 second).
Taking Close-up Shots (TELE MACRO)

You can take close-up shots of an object using the tele macro function even when the unit is at the telephoto zoom setting.

*The image is only an impression.

1 Select the Manual recording mode.

• If the mode is i.A, Intelligent Auto, tap i.A on the recording screen to display the mode switching screen. Tap M to switch the recording mode to Manual.

2 Tap "MENU".

• The top menu appears.

3 Tap "RECORD SETTING".

4 Tap >.

5 Tap "TELE MACRO".

• Tap X to exit the menu.
• Tap ↵ to return to the previous screen.

6 Tap "ON".

• After setting, the tele macro icon appears.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Enables close-up shots up to 1 m at the telephoto (T) end. Enables close-up shots up to 5 cm at the wide angle (W) end.</td>
</tr>
<tr>
<td>ON</td>
<td>Enables close-up shots up to 60 cm at the telephoto (T) end. Enables close-up shots up to 5 cm at the wide angle (W) end.</td>
</tr>
</tbody>
</table>

Caution :
• When you are not taking close-up shots, set "TELE MACRO" to "OFF". Otherwise, the image may be blur.
Shooting under Water

Perform the following settings to shoot underwater.

Setting the White Balance to Underwater Mode

Corrects the color when shooting underwater to record more natural images. Select from the following two settings depending on the color of the water at the shooting location.

1. Select the Manual recording mode.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “WHITE BALANCE”.

5. Tap \( \text{A} \) or \( \text{B} \).

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{A} )</td>
<td>Set this when shooting in deep waters (water appears blue).</td>
</tr>
<tr>
<td>( \text{B} )</td>
<td>Set this when shooting in shallow waters (water appears green).</td>
</tr>
</tbody>
</table>

Memo:
- You may not necessarily achieve the correction effect as expected.
- It is recommended to conduct a trial recording in advance.

Locking the Screen

1. Tap “MENU”.

2. Tap “RECORD SETTING”.

3. Tap \( \text{A} \) to change the items displayed.
4 Tap “SCREEN LOCK”.
   • The button appears.

Memo :
   • If “SCREEN LOCK” has been set, it will take a longer time for the unit to power off after closing the LCD monitor. If you open the LCD monitor after closing it, and the power is still turned on, you can continue to record.

To cancel “SCREEN LOCK”
Tap the button.

Memo :
   • Once “SCREEN LOCK” is set, only the button on the touch screen can be operated.
   • The START/STOP (recording) button and the zoom lever can be used while the screen is locked.
   • “SCREEN LOCK” cannot be set for the following cases:
     - during recording
     - when “TIME-LAPSE RECORDING” or “DATE/TIME RECORDING” is set

Caution :
   • Before using the camera underwater, read “Before Using Underwater or under Low Temperature” (p. 6) carefully. Improper usage resulting in water submersion will damage the device and cause injury.
   • Ensure that the terminal cover is closed tightly before using underwater or on the beach.
   “Opening the Terminal Cover (SD Card Cover)” (p. 4)

---

Recording with Effects (RECORDING EFFECT)

You can add and record various effects to videos or still images. Once setting is done, you can easily record images that are suitable for each image.

<table>
<thead>
<tr>
<th>Type of Effect</th>
<th>Description of Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAINY MONOCHROME</td>
<td>Captures film-like monochrome images by increasing the contrast of mid-level brightness and emphasizing the rough grainy feel on the image. “Recording Images Like an Old Black and White Photo (GRAINY MONOCHROME)” (p. 35)</td>
</tr>
<tr>
<td>FOOD</td>
<td>Captures food images such that the food looks appetizing even under fluorescent lighting in homes by changing the colors to warm-colors and deepening the colors. “Recording Food Images (FOOD)” (p. 36)</td>
</tr>
<tr>
<td>BABY</td>
<td>Captures a soft and gentle image by lightening the skin tone while retaining the reddish hue, enhancing the skin beautifying effect as well as smoothing the appearance of the skin. “Recording Images of a Baby (BABY)” (p. 37)</td>
</tr>
</tbody>
</table>

Caution :
   • Depending on the shooting environment and subject, you may not achieve the shooting effect as intended.
Recording Images Like an Old Black and White Photo
(GRAINY MONOCHROME)
Captures film-like monochrome images by increasing the contrast of mid-level brightness and emphasizing the rough grainy feel on the image.

1. Open the LCD monitor.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “RECORDING EFFECT”.

5. Tap “GRAINY MONOCHROME”.

   - To cancel the setting, repeat the procedure from the beginning and tap “OFF” in Step 5.

- Set the recording mode to either video or still image.
- To switch the mode between video and still image, tap on the recording screen to display the mode switching screen. Tap or to switch the mode to video or still image respectively.
- If the icon is not displayed on the screen, tap to scroll the screen.
- Tap to exit the menu.
- Tap to return to the previous screen.
- Tap to return to the previous screen.
Recording

Recording Food Images (FOOD)
Captures food images such that the food looks appetizing even under fluorescent lighting in homes by changing the colors to warm-colors and deepening the colors.

1 Open the LCD monitor.

- Set the recording mode to either 🎥 video or 📸 still image.
- To switch the mode between video and still image, tap 🎥 or 📸 on the recording screen to display the mode switching screen.
  - Tap 🎥 or 📸 to switch the mode to video or still image respectively.

2 Tap “MENU”.

- The top menu appears.

3 Tap “RECORD SETTING”.

4 Tap “RECORDING EFFECT”.

- If the icon is not displayed on the screen, tap > to scroll the screen.
- Tap X to exit the menu.
- Tap ◀ to return to the previous screen.

5 Tap “FOOD”.

- Tap X to exit the menu.
- Tap ▷ to return to the previous screen.

6 Start recording.

- To cancel the setting, repeat the procedure from the beginning and tap “OFF” in Step 5.
Recording Images of a Baby (BABY)
Captures a soft and gentle image by lightening the skin tone while retaining the reddish hue, enhancing the skin beautifying effect as well as smoothing the appearance of the skin.

1. Open the LCD monitor.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “RECORDING EFFECT”.

5. Tap “BABY”.

   - Tap X to exit the menu.
   - Tap ❯ to return to the previous screen.

Set the recording mode to either 📹 video or 📷 still image.

To switch the mode between video and still image, tap 📹 or 📷 on the recording screen to display the mode switching screen.

Tap 📹 or 📷 to switch the mode to video or still image respectively.

If the icon is not displayed on the screen, tap ❯ to scroll the screen.

Tap X to exit the menu.

Tap ❯ to return to the previous screen.
Capturing Subjects Clearly (TOUCH PRIORITY AE/AF)

“TOUCH PRIORITY AE/AF” is a function that adjusts focus and brightness based on a tapped position. This function is available for both videos and still images.

1 Open the LCD monitor.

• Set the recording mode to either video or still image.
• To switch the mode between video and still image, tap on the recording screen to display the mode switching screen. Tap or to switch the mode to video or still image respectively.

2 Tap "MENU".

• The top menu appears.

3 Tap "RECORD SETTING".

4 Tap “TOUCH PRIORITY AE/AF”.

• If the icon is not displayed on the screen, tap to scroll the screen.
• Tap to exit the menu.
• Tap to return to the previous screen.

5 Tap the desired setting.

• Focus and brightness will be adjusted automatically based on the tapped position (face/color/area). A blue frame appears around the selected subject (face/color), while a white frame appears around the selected area.
• To reset, tap the desired position (face/color/area) again.
• To cancel “FACE TRACKING” or “COLOR TRACKING”, tap the blue frame.
• To cancel “AREA SELECT”, tap the white frame.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>FACE TRACKING</td>
<td>appears on the screen. Recording is performed while tracking and automatically adjusting the tapped face (subject) with appropriate focus and brightness. In addition, a blue frame appears around the tapped face (subject).</td>
</tr>
<tr>
<td>COLOR TRACKING</td>
<td>appears on the screen. Recording is performed while tracking and automatically adjusting the tapped color (subject) with appropriate focus. In addition, a blue frame appears around the tapped color (subject).</td>
</tr>
<tr>
<td>AREA SELECT</td>
<td>appears on the screen. Recording is performed while automatically adjusting the tapped area (fixed position) with appropriate focus and brightness. In addition, a white frame appears around the tapped area. AREA SELECT in TOUCH PRIORITY AE/AF is only available within the optical zoom range. (unavailable when digital zoom is being used)</td>
</tr>
</tbody>
</table>
Memo:

- When “TOUCH PRIORITY AE/AF” is set, “FOCUS” will be set to “AUTO” automatically.
- Tap the selected position (face/color/area) again to cancel the setting.
- Tap on an unselected position (face/color/area) to reset.
- If the camera loses track of a subject, tap the subject again.
- Settings are canceled when zoom operation is performed. (“AREA SELECT” only)
- When “COLOR TRACKING” is set, the targeted subject (color) may change if similar colors are detected. In this case, tap the subject again. The targeted subject (color) may also be tracked back again if it appears in the center of the screen within a specific time.

Caution:

- Subjects near the sides of the LCD monitor may not respond or be recognized when tapped. In this case, move the subject to the center and tap again.
- “FACE TRACKING” may not work properly depending on the shooting conditions (distance, angle, brightness, etc.) and the subject (direction of face, etc.). It is also particularly difficult to detect faces in backlight.
- “COLOR TRACKING” may not function properly in the following cases:
  - when recording subjects with no contrast
  - when recording subjects that are moving at high speed
  - when recording in a dark place
  - when the surrounding brightness changes
- “AREA SELECT” is not available while the digital zoom is in use.
- When “FACE TRACKING” is set, the subject may be lost if the camera is moved vertically or horizontally very fast.
Reducing Camera Shake

When the image stabilizer is set, camera shake during video recording can be effectively reduced.

1. Tap "MENU".

2. Tap "RECORD SETTING".

3. Tap "DIS".

4. Tap the desired setting.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates image stabilizer.</td>
</tr>
<tr>
<td>ON</td>
<td>Reduces camera shake under normal shooting conditions.</td>
</tr>
<tr>
<td>ON (AIS)</td>
<td>Reduces camera shake more effectively when shooting bright scenes on the wide angle end. Only on the wide angle end (approx. 5x).</td>
</tr>
<tr>
<td>ON (Enhanced AIS)</td>
<td>The area of correction in the enhanced AIS mode is greater than that in the AIS mode. Camera shake can be reduced more effectively even when recording is performed by zooming from wide angle to telephoto.</td>
</tr>
</tbody>
</table>

Memo:
- It is recommended to set the image stabilizer to "OFF" when shooting a subject of little movement with the unit on a tripod.
- Complete stabilization may not be possible if camera shake is excessive.
- This setting is effective for video recording only.
- Using the image stabilizer will narrow the angle of view.
- Dynamic zoom is not available in the enhanced AIS mode.
- The resolution for the enhanced AIS mode is lower compared to the other modes.
Recording at Intervals (TIME-LAPSE RECORDING)

This function enables the changes of a scene that occur slowly over a long period to be shown within a short time by taking frames of it at a certain interval.

This is useful for making observations such as the opening of a flower bud.

1. Open the LCD monitor.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “TIME-LAPSE RECORDING”.

5. Tap to select a recording interval (1 to 80 seconds).


Indications During Time-Lapse Recording

- A frame is taken at intervals of the selected period.
- When the recording interval is set to “20SEC INTERVAL” or higher, this unit switches to the power-saving mode between recordings. At the next point to record, the power-saving mode will be turned off and recording will start automatically.
- Settings of Time-Lapse recording are not saved when the power is turned off.

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Recording interval</td>
</tr>
<tr>
<td>2</td>
<td>Recorded Time</td>
</tr>
<tr>
<td>3</td>
<td>Actual Elapsed Time</td>
</tr>
<tr>
<td>4</td>
<td>Remaining Recording Time</td>
</tr>
</tbody>
</table>
**Time-Lapse Setting**

The greater the number of seconds, the longer the recording interval.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OFF</strong></td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td><strong>1SEC INTERVAL</strong></td>
<td>Takes a frame at 1-second intervals. Recorded videos will be played back at 30 times speed.</td>
</tr>
<tr>
<td><strong>5SEC INTERVAL</strong></td>
<td>Takes a frame at 5-second intervals. Recorded videos will be played back at 150 times speed.</td>
</tr>
<tr>
<td><strong>20SEC INTERVAL</strong></td>
<td>Takes a frame at 20-second intervals. Recorded videos will be played back at 600 times speed.</td>
</tr>
<tr>
<td><strong>80SEC INTERVAL</strong></td>
<td>Takes a frame at 80-second intervals. Recorded videos will be played back at 2,400 times speed.</td>
</tr>
</tbody>
</table>

**Caution:**

- During the time-lapse recording, video quality is set to XP mode.
- Audio cannot be recorded during time-lapse recording.
- When recording is stopped with the recorded time less than “0:00:00:14”, the video will not be saved.
- Zooming, simultaneous still image recording, and image stabilizer are not available in time-lapse recording.
- Seamless recording is disabled in time-lapse recording.
- When Time-Lapse recording is set, you cannot record still images.

**Memo:**

- Settings of time-lapse recording are reset when the power is turned off. To start time-lapse recording again, it is necessary to make the selection once more.
- Recording stops automatically 99 hours after it is started.
- Make use of a tripod and AC adapter for time-lapse recordings with long intervals. It is also recommended to fix the focus and white balance manually. "Tripod Mounting" (see p. 17)
Recording Video with Still Image Displayed in Sub Screen (PHOTO-INSERT RECORDING)

Displaying a captured still image in the sub screen before video recording and recording the image during video recording.

1. Open the LCD monitor.

- Check if the recording mode is [ ].
- If the mode is [ ] still image, tap [ ] on the recording screen to display the mode switching screen.
  - Tap [ ] to switch the mode to video.

2. Tap "MENU".

- The top menu appears.

3. Tap "RECORD SETTING".

4. Tap "PHOTO-INSERT RECORDING".

- If the icon is not displayed on the screen, tap [ ] to scroll the screen.
- Tap [ ] to exit the menu.
- Tap [ ] to return to the previous screen.

5. Press the START/STOP button, or tap the [ ] button to capture a still image for the sub screen.

6. Select a position for the sub screen.

- Tapping the [ ] button changes the display position of the sub screen in the following order: top right → bottom right → bottom left → top left.
- To hide the sub screen, tap the sub screen. Tap any position on the sub screen while it is displayed.
- Tapping the [ ] button allows you capture a new still image for the sub screen again.
- You can change the display position and hide or display the sub screen in the same way even after video recording has started.

7. Start recording a video.

- Press the START/STOP button again to stop recording.
- Tapping [ ] will end "PHOTO-INSERT RECORDING". (To perform operations other than recording, tap [ ] to cancel the "PHOTO-INSERT RECORDING" first.)
- When the camera is turned off, "PHOTO-INSERT RECORDING" will end.
- When "PHOTO-INSERT RECORDING" ends, the captured still image for the sub screen disappears. (It will not be saved as a still image.)
Using the Self-timer

You can record video or still image using the self-timer. This is useful when taking a video or still image that includes the photographer.

The 2-second self-timer is useful for preventing camera shake caused by pressing the shutter button when taking a still image.

Memo:
- When shooting a photo using the self-timer function, use of a tripod is recommended.
  “Tripod Mounting” (p. 17)

Using the Self-timer in Video Mode

1. Open the LCD monitor.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “SELF-TIMER”.

5. Tap “ON”.

6. Press the START/STOP button.

Recording

- Check if the recording mode is .
- If this unit is in the still image mode , tap the (video/still image) button on the touch screen to display the mode switching screen. Tap to switch the mode to video.

- If the icon is not displayed on the screen, tap to scroll the screen.
- Tap to exit the menu.
- Tap to return to the previous screen.

- The countdown to recording appears and recording will start after 5 seconds.
- To stop the self-timer, press the recording button again.
Using the Self-timer in Still Image Mode

1. Open the LCD monitor.
   - Check if the recording mode is Video.
   - If the mode is Video, tap on the recording screen to display the mode switching screen.
   - Tap to switch the mode to still image.

2. Tap "MENU".
   - The top menu appears.

3. Tap "RECORD SETTING".

4. Tap "SELF-TIMER".
   - If the icon is not displayed on the screen, tap to scroll the screen.
   - Tap to exit the menu.
   - Tap to return to the previous screen.

5. Tap "2SEC" or "10SEC".

6. Take a still image.
   - A timer appears and countdown to shooting starts.
   - To stop the self-timer, press the START/STOP button again.

Memo:
- The START/STOP button on this unit cannot be used to adjust the focus in advance. To adjust the focus in advance, press and hold the button on the touch screen until the focus is adjusted.
- "Start recording after adjusting the focus" (p. 23)
- While the countdown timer is displayed, the buttons cannot be used as they are not displayed on the screen.
Recording Videos with Date and Time

You can record videos together with the date and time. Set this when you want to save the file with date and time display. (The date and time cannot be deleted after recording.)

1 Open the LCD monitor.

- Check if the recording mode is [ ].
- If the mode is [ ] still image, tap [ ] on the recording screen to display the mode switching screen. Tap [ ] to switch the mode to video.

2 Tap “MENU”.

- The top menu appears.

3 Tap “RECORD SETTING”.

- If the icon is not displayed on the screen, tap [ ] to scroll the screen.
- Tap [ ] to exit the menu.
- Tap [ ] to return to the previous screen.

4 Tap “DATE/TIME RECORDING”.

- If the icon is not displayed on the screen, tap [ ] to scroll the screen.
- Tap [ ] to exit the menu.
- Tap [ ] to return to the previous screen.

5 Select the type of clock with [ ] or [ ], and tap ”SET”.

- When ”SET” is tapped, the precaution for date/time recording appears.
- Tap [x] to exit the menu.

6 Tap the display position with your finger and drag your finger to adjust.

- Move the date and time display while touching it with your finger and tracing it on a screen.

7 Press the START/STOP button to start recording.

- Press the START/STOP button again to stop recording.
- Tap [ ] to return to the screen for selecting the types of clock.
- Tap [x] to exit ”DATE/TIME RECORDING”. (To perform operations other than recording, tap [x] to cancel the “DATE/TIME RECORDING” first.)

Caution:

- The date and time cannot be deleted after recording.
Recording Videos with Time Counter

You can take a video with a stopwatch recorded. You can start, stop and reset the stopwatch as with any stopwatch. This can be used to record sports video. (The recorded time counter cannot be deleted afterward.)

1. Open the LCD monitor.

2. Tap “MENU”.

3. Tap “RECORD SETTING”.

4. Tap “TIME COUNTER RECORDING”.

5. Tap the display position with your finger and drag your finger to adjust.

6. Press the START/STOP button to start recording.

7. Tap “START” on the screen to start the counter.

- The position can be adjusted when the recording stops.
- Press the START/STOP button again to stop recording.
- Tap “X” to exit “TIME COUNTER RECORDING” when the recording stops. (To perform operations other than recording, tap “X” to exit the “TIME COUNTER RECORDING” first.)

- You can start the recording after the counter has been started.
- You can freely stop, reset or resume the counter during recording.

**Memo:**
- If “TIME COUNTER RECORDING” is exited while the counter is still running, the counter continues to count from where it left off the next time “TIME COUNTER RECORDING” is operated.
- If 24 hours have elapsed since the counter started running or if the clock has been set, the counter reading automatically returns to “0:00:00” and the counter stops running.
- The recorded time counter cannot be deleted afterward.
Checking the Remaining Recording Time

Display the remaining battery power and the remaining recording time.

Memo:

- The remaining battery power and the remaining recording time are estimates.
- The remaining recording time is displayed only during video mode.
- The remaining recording time is displayed for the recording media that is currently selected.

1. Open the LCD monitor.

   - Check that the camera is set to the recording mode. If the camera is in the playback mode, click REC to switch to recording mode.

2. Tap "MENU".

   - The top menu appears.

3. Tap ①.

4. Display the remaining recording time.

   - The remaining recording time is displayed only in the video recording mode.
   - The remaining recording time is displayed for the recording media that is currently selected.
   - O is displayed instead of the remaining battery power when the AC adapter is connected.
   - To exit the display, tap X.
### Approximate Video Recording Time

<table>
<thead>
<tr>
<th>Picture quality</th>
<th>Built-in memory</th>
<th>SDHC/SDXC card</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32GB (VIXIA HF W11)</td>
<td>8GB (VIXIA HF W10)</td>
</tr>
<tr>
<td>UXP</td>
<td>2 h 40 m</td>
<td>35 m</td>
</tr>
<tr>
<td>XP</td>
<td>3 h 40 m</td>
<td>50 m</td>
</tr>
<tr>
<td>EP</td>
<td>13 h 30 m</td>
<td>3 h</td>
</tr>
<tr>
<td>60p</td>
<td>2 h 20 m</td>
<td>30 m</td>
</tr>
</tbody>
</table>

- The recording time indicated above will change depending on the recording conditions.
- "UXP", "XP", "SP", and "EP" can only be selected in the 60i mode (when "SYSTEM SELECT" is set to "60i").

### Approximate Number of Still Images (Unit: Number of Shots)

<table>
<thead>
<tr>
<th>Image size</th>
<th>Built-in memory</th>
<th>SDHC/SDXC card</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32GB (VIXIA HF W11)</td>
<td>8GB (VIXIA HF W10)</td>
</tr>
<tr>
<td>3680x2760(10M)(4:3)</td>
<td>4900</td>
<td>1100</td>
</tr>
<tr>
<td>1920x1080(2M)(16:9)</td>
<td>9999</td>
<td>5600</td>
</tr>
<tr>
<td>1440x1080(1.5M)(4:3)</td>
<td>9999</td>
<td>7400</td>
</tr>
<tr>
<td>640x480(0.3M)(4:3)</td>
<td>9999</td>
<td>9999</td>
</tr>
</tbody>
</table>

- Still images that are captured during video recording or video playback are saved at a size of 1920 x 1080.

### Approximate Duration of Built-in Battery

<table>
<thead>
<tr>
<th>Actual recording time</th>
<th>Continuous recording time (Maximum Recording Time)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 h 10 m</td>
<td>4 h 20 m</td>
</tr>
</tbody>
</table>

- The above values are when "LIGHT" is set to "OFF" (VIXIA HF W11), "MONITOR BRIGHTNESS" is set to "3" (standard), and "SYSTEM SELECT" is set to "60i".
- The actual recording time is the recording time when operations such as starting/stopping recording, turning on/off the unit or zooming is performed repeatedly.
- Recording time may differ depending on the shooting environment and usage.
- When the recording time becomes extremely short even when the battery is fully charged, the battery needs to be replaced. For details on replacing the built-in battery (subject to a fee), consult the nearest Canon service center.
## Playing Back Videos

The followings are the types of playback that can be performed by this unit.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Playback</td>
<td>Plays back the recorded videos.</td>
</tr>
<tr>
<td>DIGEST PLAYBACK</td>
<td>From the recorded video, scenes are extracted automatically, pieced together for a digest playback within the specified length. Start playback from &quot;DIGEST PLAYBACK&quot; in the &quot;PLAYBACK SETTING&quot; menu.</td>
</tr>
<tr>
<td>PLAYBACK OTHER FILE</td>
<td>Videos with defective management information can be played back. Start playback from &quot;PLAYBACK OTHER FILE&quot; in the &quot;PLAYBACK SETTING&quot; menu.</td>
</tr>
</tbody>
</table>

### Caution:
- Make a backup of important recorded data. It is recommended to copy your important recorded data to a BD or other recording media for storage.
- This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such a case, close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.
- When there are many files in the media, it may take time for them to be displayed on the playback screen. Wait for a while as the POWER/ACCESS lamp blinks, indicating normal operation.
- **Resetting this Unit** (⇔ p. 5)
  - When there are many files in the media, it may take time for them to be displayed on the playback screen. Wait for a while as the POWER/ACCESS lamp blinks, indicating normal operation.
- **Disclaimer**
  - We shall not be held responsible for loss of recorded contents when recording videos/audio or playback cannot be operated due to malfunctions in this unit, provided parts, or SD card.
  - Once deleted, recorded contents (data), including data loss due to malfunctions in this unit, cannot be restored. Please be forewarned.
  - Canon will not be responsible for any lost data.
  - In order for quality improvement, defective recording medium is subject to be analyzed. Therefore, it may not be returned.

### Normal Playback

Plays back the recorded videos.

1. Open the LCD monitor.
   - Check if the recording mode is 
   - If the mode is 
     still image, tap on the recording screen to display the mode switching screen.
     Tap to switch the mode to video.
2. Tap to select the playback mode.
3. Tap the file (image).
   - Tap to select the media for playback and change the index screen (thumbnail display).
   - appears on the last image played back.
   - Lines in different colors are displayed under the thumbnail display to distinguish the recording date.
   - Images recorded in 60p mode and 60i mode are displayed on the index screen separately.
   - To view the images recorded in 60p mode, set "SYSTEM SELECT" in the video recording menu to "60p" before setting to the playback mode. And for operations such as Digest Playback, set "SYSTEM SELECT" in the same way before performing the operation.
   - To view the images recorded in 60i mode, set "SYSTEM SELECT" in the video recording menu to "60i" before selecting the playback mode. In cases such as during Digest Playback or when playing back/editing a playlist, set "SYSTEM SELECT" in the same way before operating.
4. Playback starts.
   - Tap to pause.
   - Tap to return to the index screen.

### Caution:
- While this unit may be used with the LCD monitor reversed and closed, the temperature rises more easily. Do not use this unit with the LCD monitor reversed and closed for long periods of time, or in places exposed to direct sunlight or high temperatures.
- The power may turn off to protect the circuit if the temperature of this unit rises too much.
Operation Buttons for Video Playback

During Index Screen Display

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1️⃣ 🎥</td>
<td>Switches between video mode (60i/60p) and still image mode.</td>
</tr>
<tr>
<td>2️⃣ (Date and Time Display)</td>
<td>Moves to the previous/next date</td>
</tr>
</tbody>
</table>
| 3️⃣ > | Displays the next index screen (thumbnail display)  
You can perform the same operation with the zoom lever. |
| 4️⃣ < | Displays the previous index screen (thumbnail display)  
You can perform the same operation with the zoom lever. |
| 5️⃣ <REC | Switches to the recording mode. |
| 6️⃣ | Displays the index screen (thumbnail display) to perform deletion |
| 7️⃣ SD | Switches between the memories in which images are recorded (built-in memory/SD card) |
| 8️⃣ MENU | Displays the menu screen. |
| 9️⃣ Thumbnail (File) | Tap: Starts playback  
Drag to right: Displays the file taken before the recording date  
Drag to left: Displays the file taken after the recording date  
Thumbnails with the same underlined color indicate files with the same recording date. |

During Video Playback

- When this unit is not operated, the operation buttons on the touch screen disappear automatically. Tap on the screen to display the operation buttons again.

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1️⃣ 🎥</td>
<td>Switches between video and still image modes.</td>
</tr>
</tbody>
</table>
| 2️⃣ (Timeline Bar) | Tap on a random position - Moves to the tapped position  
Drag playback point to the left or right - Starts playback from the new position  
Tap on a random position - Moves to the tapped position |
| 3️⃣ (Pointer) | Displays the current estimated playback position within the scene |
| 4️⃣ | Saves one scene of the video being played back as a still image.  
Displayed while playback is paused. |
| 5️⃣ | Returns to the beginning of the scene  
Returns to the previous scene if tapped at the beginning of a scene.  
Allows the same functions as the zoom lever to be performed while pausing playback. |
| 6️⃣ (during playback) | Reverse search (speed increases with each tap) |
| 7️⃣ (during pause mode) | Reverse slow-motion / Press and hold to start reverse slow playback |
| 8️⃣ | Starts playback |
| 9️⃣ | Pause |
| 1️⃣0️⃣ (during playback) | Forward search (speed increases with each tap) |
| 1️⃣1️⃣ (during pause mode) | Forward slow-motion / Press and hold to start slow playback |
| 1️⃣2️⃣ | Advances to the next scene |
| 1️⃣3️⃣ | Slow playback  
The speed can be set using “SLOW-MOTION SPEED” (p. 81). |
## Display Description

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
</table>
| D       | Switches the display between full (D) and simple (D) with every tap of the button.  
- Simple display: Some displays disappear automatically when the screen is not operated.  
- Full display: Displays everything. The display button changes from D to D.  
- When the power is turned off, the display setting will revert to simple display (D). |
| REC     | Switches to the recording mode. |
| STOP    | Stop (returns to index screen) |
| DELETE  | Deletes the currently displayed video. |
| Z       | Enlarges the displayed video.  
- Tap the position of the image you want to enlarge.  
- Zoom ratio changes by using the (+) and (-) buttons. |
| MENU    | Displays the menu screen. |

### Memo:
- Tap or drag on the operation area of the touch screen.  
- The recording date and time can be displayed on the screen during playback.  

### Adjusting the Volume of Videos

You can use the zoom/volume lever to control the volume.

- **Turn up the volume**
  ![Turn up the volume](image)
- **Turn down the volume**
  ![Turn down the volume](image)
Checking the Recording Date and Other Information

You can see the recording information of the recorded videos.

1. Open the LCD monitor.

2. Tap ▲ or ▼ to select the video or still image mode.

3. Tap ▶ PLAY to select the playback mode.

4. Tap on the file to start playback.

5. Tap ①.

- Tap X to exit the menu.

You can display the recording date and duration of the selected file.
TIME COUNTER PLAYBACK
A time counter that can be reset can be displayed during playback. This can be used to play sports video.

1 Open the LCD monitor.

- Check if the recording mode is
- If the mode is still image, tap on the recording screen to display the mode switching screen. Tap to switch the mode to video.

2 Tap PLAY to select the playback mode.

3 Tap "MENU".

4 Tap "PLAYBACK SETTING".

5 Tap "TIME COUNTER PLAYBACK".

6 Set "TIME COUNTER PLAYBACK" to ON.

7 Tap on the file to start playback.

- An hours:minutes:seconds counter appears.

8 Pause the playback and reset the counter.

- Tapping "RESET" sets the counter reading to "0:00:00".
- The 1/10 second digit is displayed while playback is paused.
- The counter can also be reset during normal playback and slow playback.

Memo:
- To reset the counter during playback, switch to full display using the "Display ButtonD" (p. 21) button.
- To reset the counter at the precise position, it is recommended to pause the playback then tap "RESET".
- When the unit switches to the next scene, the counter is automatically reset.
DIGEST PLAYBACK
You can play back a digest of recorded videos (Digest Playback). This is useful for checking the content of videos quickly.

1. Open the LCD monitor.

2. Tap "PLAY" to select the playback mode.

3. Tap "MENU".

4. Tap "PLAYBACK SETTING".

5. Tap "DIGEST PLAYBACK".

6. Tap to select a date for Digest Playback.

7. Select the Digest Playback time
   (Only when "AUTO" is selected in Step 7)

8. Digest Playback starts.

9. Digest playback stops automatically, or display the next screen by tapping "MENU".

   - TO NORMAL PLAYBACK: start normal playback.
   - PLAYBACK AGAIN: start the digest playback again.
   - SELECT DATE: return to step 6.
PLAYBACK OTHER FILE

The management information of a video may be damaged if recording is not performed correctly, such as turning off the power in the middle of recording. You can perform the following operations to play back the videos with defective management information.

1. Open the LCD monitor.

2. Check if the recording mode is .
   - If the mode is still image, tap on the recording screen to display the mode switching screen.
   - Tap to switch the mode to video.

3. Tap “PLAY” to select the playback mode.

4. Tap “MENU”.

5. Tap “PLAYBACK OTHER FILE”.

6. Tap on the file to start playback.

Memo:
- An MTS file is created in the EXTMOV folder when management information is corrupted.
- Depending on the condition of the damaged file, playback might fail or may not run smoothly.
Playing Back Still Images

You can select and play back the recorded still images from an index screen (thumbnail display).

1. Open the LCD monitor.

2. Tap \( \text{PLAY} \) to select the playback mode.

3. Tap on the file to start playback.

- Check if the recording mode is \( \text{ } \). 
- If the mode is \( \text{ } \) video, tap \( \text{ } \) on the recording screen to display the mode switching screen. Tap \( \text{ } \) to switch the mode to still image.

- Tap \( \text{ } \) to return to the index screen.
- \( \text{ } \) appears on the last image played back.
- Lines in different colors are displayed under the thumbnail display to distinguish the recording date.

Operation Buttons for Still Image Playback

During Index Screen Display

- Still images that are recorded continuously in high-speed or medium-speed will be grouped together. Only the first recorded file (still image) is shown and the group is displayed with a green frame.

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>( \text{ } ) Switches between video and still image modes.</td>
</tr>
<tr>
<td>② (Date and Time Display)</td>
<td>Moves to the previous/next date</td>
</tr>
<tr>
<td>③ &gt;</td>
<td>Displays the next index screen (thumbnail display)</td>
</tr>
<tr>
<td>④ &lt;</td>
<td>Displays the previous index screen (thumbnail display)</td>
</tr>
<tr>
<td>⑤</td>
<td>( \text{REC} ) Switches to the recording mode.</td>
</tr>
<tr>
<td>⑥</td>
<td>( \text{ } ) Displays the index screen (thumbnail display) to perform deletion</td>
</tr>
<tr>
<td>⑦</td>
<td>( \text{SD} ) Switches between the index screen of the built-in memory and SD card</td>
</tr>
<tr>
<td>⑧</td>
<td>( \text{MENU} ) Displays the menu screen.</td>
</tr>
<tr>
<td>⑨ File (Still Image)</td>
<td>Tap on thumbnail - Starts playback Drag to right - Scrolls to the right to show the previous index screen (thumbnail display) Drag to left - Scrolls to the left to show the next index screen (thumbnail display)</td>
</tr>
</tbody>
</table>
During Still Image Playback

- When this unit is not operated, the operation buttons on the touch screen disappear automatically. Tap on the screen to display the operation buttons again.

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Video/Still Image Mode [REC] Mode</td>
</tr>
<tr>
<td>②</td>
<td></td>
</tr>
<tr>
<td>③</td>
<td></td>
</tr>
<tr>
<td>④</td>
<td></td>
</tr>
<tr>
<td>⑤</td>
<td>[REC]</td>
</tr>
<tr>
<td>⑥</td>
<td></td>
</tr>
<tr>
<td>⑦</td>
<td></td>
</tr>
<tr>
<td>⑧</td>
<td>Playback Zoom</td>
</tr>
<tr>
<td>⑨</td>
<td>MENU</td>
</tr>
</tbody>
</table>

Memo :
- Tap or drag on the operation area of the touch screen.

Caution :
- This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such a case, close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.

“Resetting this Unit” (☞ p. 5)

Slideshow Playback

Still images can be played back in a slideshow. Tap ▶ during still image playback to start the slideshow.

“Operation Buttons for Still Image Playback” (☞ p. 57)

Memo :
- Effects can be added to the transitions in slideshow playback.

“SLIDE SHOW EFFECTS” (☞ p. 83)
Connecting to and Viewing on TV

You can connect this unit to a TV for playback. The image quality on TV varies with the type of TV and the connecting cable. Select the connector that best suits your TV.

- Refer also to the instruction manual of the TV in use.
- “Connecting via the HDMI Mini Connector” (p. 59)
- “Connecting via the AV Connector” (p. 61)
- To display the date and time on TV, set both “DISPLAY DATE/TIME” and “DISPLAY ON TV” to “ON”.

Refer also to the instruction manual of the TV in use.

Unnatural Displays on TV

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Action</th>
</tr>
</thead>
</table>
| Images do not appear on the TV properly. | • Disconnect the cable and connect again.  
• Turn off and on this unit again.  
• Images may not appear properly when the remaining battery power is low. Use an AC adapter. |
| Images are projected vertically on the TV. | • Set “VIDEO OUTPUT” in the “CONNECTION SETTINGS” menu to “4:3”.  
“VIDEO OUTPUT” (p. 87) |
| Images are projected horizontally on the TV. | • Adjust the TV’s screen accordingly. |
| The color of images looks strange. | • Adjust the TV’s screen accordingly. |
| HDMI-CEC functions do not work properly, and the TV does not work in conjunction with this unit. | • TVs may operate differently depending on the specifications, even if they are HDMI-CEC compliant. Therefore, the HDMI-CEC functions of this unit cannot be guaranteed to operate in combination with all the TVs. In such cases, set “HDMI CONTROL” to “OFF”.  
“HDMI CONTROL” (p. 87) |
| The language on the display changed. | • It may occur when you connect this unit to a TV with different language setting using an HDMI mini cable. |

Caution:
- Turn off this unit and the TV before making any connection.
- Before inserting or removing the SD card, close the LCD monitor and ensure that the POWER/ACCESS lamp goes off.

Connecting via the HDMI Mini Connector

If you are using an HDTV, you can play back in HD quality by connecting to the HDMI mini connector.

- Use a High Speed HDMI mini cable as the HDMI mini cable when not using the optional one.
- Refer also to the instruction manual of the TV in use.

1 Connect to a TV.

2 Connect the adapter cable and AC adapter to this unit.

3 Open the LCD monitor.

4 Press the external input button on the TV to switch to the input from this unit via the connected connector.
5  Play back a file.

“Playing Back Videos” (☞ p. 50)
“Playing Back Still Images” (☞ p. 57)

Memo :  

• Change the settings in “HDMI OUTPUT” according to the connection.
  “HDMI OUTPUT” (☞ p. 87)

• When connected to the TV via the HDMI mini cable, images and sounds may not be output properly depending on the TV connected. In such cases, perform the following operations.
1) Disconnect the HDMI mini cable and connect it again.  
2) Turn off and on this unit again.

• For questions about the TV or method of connection, contact your TV’s manufacturer.

Operating in Conjunction with TV via HDMI

Connecting this unit to an HDMI-CEC enabled TV using the HDMI mini cable allows linked operations with the TV to be performed.

• HDMI-CEC (Consumer Electronics Control) is an industry standard that enables interoperability between HDMI-CEC compliant devices that are connected via HDMI cables.

Memo :

• Not all HDMI control devices comply with the HDMI-CEC standard. The HDMI control function of this unit will not work when connected to these devices.

• This unit is not guaranteed to operate with all HDMI-CEC enabled devices.

• Depending on the specifications of each HDMI-CEC enabled device, some functions may not work with this unit. (For details, refer to the instruction manual of your TV.)

• Unintended operations may occur with some connected devices. In these cases, set “HDMI CONTROL” to “OFF”.

* HDMI CONTROL” (☞ p. 87)

Preparations

• Connect an HDMI mini cable between this unit and the TV.
  “Connecting via the HDMI Mini Connector” (☞ p. 59)

• Turn on the TV and set the HDMI-CEC related setting to “ON”. (For details, refer to the instruction manual of the TV.)

• Set “HDMI CONTROL” in the CONNECTION SETTINGS menu to “ON”.
  “HDMI CONTROL” (☞ p. 87)

Operation Method 1

1  Turn on this unit.

2  Select the playback mode.

3  Connect the HDMI mini cable.
  • TV turns on automatically and switches to HDMI input mode when this unit is turned on.

Operation Method 2

1  Turn off the TV.
  • This unit turns off automatically.

Memo :

• Depending on the TV connected, the display language of this unit will automatically switch to the language that is selected for the TV when this unit is turned on. (This is applicable only if this unit supports the language selected for the TV.) To use this unit with a language that differs from the display language of the TV, set “HDMI CONTROL” to “OFF”.

• The display language of the TV will not switch automatically, even if the display language of this unit is changed.

• These functions may not work correctly when devices such as amplifier and selector are connected. Set “HDMI CONTROL” to “OFF”.

• If HDMI-CEC does not work properly, turn off and on this unit again.

Preparations

• Connect an HDMI mini cable between this unit and the TV.
  “Connecting via the HDMI Mini Connector” (☞ p. 59)

• Turn on the TV and set the HDMI-CEC related setting to “ON”. (For details, refer to the instruction manual of the TV.)

• Set “HDMI CONTROL” in the CONNECTION SETTINGS menu to “ON”.
  “HDMI CONTROL” (☞ p. 87)

Operation Method 1

1  Turn on this unit.

2  Select the playback mode.

3  Connect the HDMI mini cable.
  • TV turns on automatically and switches to HDMI input mode when this unit is turned on.

Operation Method 2

1  Turn off the TV.
  • This unit turns off automatically.

Memo :

• Depending on the TV connected, the display language of this unit will automatically switch to the language that is selected for the TV when this unit is turned on. (This is applicable only if this unit supports the language selected for the TV.) To use this unit with a language that differs from the display language of the TV, set “HDMI CONTROL” to “OFF”.

• The display language of the TV will not switch automatically, even if the display language of this unit is changed.

• These functions may not work correctly when devices such as amplifier and selector are connected. Set “HDMI CONTROL” to “OFF”.

• If HDMI-CEC does not work properly, turn off and on this unit again.
Connecting via the AV Connector
To playback videos on TV, connect the AV cable (optional) to the AV terminal of this unit.
- Refer also to the instruction manual of the TV in use.

1 Connect to a TV.

2 Connect the adapter cable and AC adapter to this unit.

3 Open the LCD monitor.
- The unit turns on automatically.

4 Press the external input button on the TV to switch to the input from this unit via the connected connector.

5 Play back a file.

Memo:
- For questions about the TV or method of connection, contact your TV's manufacturer.
- AV cable (optional)
  Wiring specifications (for video/audio) of the 4-pole mini plug are described in the following.

- When using the optional AV cable, attach the core filter provided with this unit first.

“Attaching the Core Filter” (p. 8)

“Playing Back Videos” (p. 50)
“Playing Back Still Images” (p. 57)
Deleting Unwanted Files

Delete unwanted videos and still images when the space in the recording media is running out.
Doing so frees up more space in the recording media.
“Deleting the Currently Displayed File” (⇒ p. 62)
“Deleting Selected Files” (⇒ p. 62)

Memo :
• Deleted files cannot be restored.
• Files that are protected cannot be deleted.
  Release protection before deleting the file.
“Protecting Files” (⇒ p. 63)
• Be sure to back up important files on a computer.

Deleting the Currently Displayed File

Deletes the currently displayed file.

Caution :
• Deleted files cannot be restored.

1 Tap R.

MENU �� REC
0:01:23 0:12:34

While the video mode is shown in the image, the same operations apply for the still image mode.

2 Tap “YES”.

MENU �� REC
0:01:23 0:12:34

DELETE?
(REMAINING SCÈNES: 0030)

YES NO

• Tap [ ] to select the previous or next file.
• When no file remains, the screen returns to the index screen.

Deleting Selected Files

Deletes the selected files.

Caution :
• Deleted files cannot be restored.

1 Open the LCD monitor.

MENU �� REC
0:01:23 0:12:34

• Tap R or A to select the video or still image mode.
• Tap B or A on the recording screen to display the mode switching screen.
  Tap R to switch to the video mode R.
  Tap A to switch to the still image mode A.

2 Tap “PLAY” to select the playback mode.

MENU �� REC
0:01:23 0:12:34

● While the video mode is shown in the image, the same operations apply for the still image mode.

3 Tap B.

MENU �� REC
0:01:23 0:12:34

● While the video mode is shown in the image, the same operations apply for the still image mode.

4 Tap on the files to delete.

MENU �� REC
0:01:23 0:12:34

• ✓ appears on the selected files.
  To remove ✓ from a file, tap on the file again.
• Tap “SEL ALL” to select all files.
• Tap “REL ALL” to release all selections.
5 Tap “SET”.

- If no file is selected, the “SET” button cannot be pressed.

6 Tap “EXECUTE” to confirm the deletion.

- After deleting is complete, tap “OK”.
- To cancel the deletion, tap “QUIT”.

Protecting Files

Prevent important videos/still images from being deleted accidently by protecting them.

“Protecting/Releasing Protection of the Currently Displayed File” (p. 63)
“Protecting/Releasing Protection of Selected Files” (p. 64)

Caution:
- When the recording media is formatted, even the protected files will be deleted.

Protecting/Releasing Protection of the Currently Displayed File

Protects or releases protection of the currently displayed file.

1 Tap “MENU”.

- While the video mode is shown in the image, the same operations apply for the still image mode.

2 Tap “EDIT”.

3 Tap “PROTECT/CANCEL”.

4 Tap “YES”.

- Tap ◀ / ▶ to select the previous or next file.
- After setting, tap “OK”.

Editing
Protecting/Releasing Protection of Selected Files

Protects or releases protection of the selected files.

1 Open the LCD monitor.

- Tap to select the video or still image mode.
- Tap or on the recording screen to display the mode switching screen.
  Tap to switch to the video mode .
  Tap to switch to the still image mode .

2 Tap to select the playback mode.

- While the video mode is shown in the image, the same operations apply for the still image mode.

3 Tap “MENU”.

4 Tap “EDIT”.

5 Tap “PROTECT/CANCEL”.

6 Tap on the files to protect or release protection of.

- appears on the selected files.
  To remove from a file, tap on the file again.
- and are displayed on the files that are already protected.
  To release protection of a file, tap on the file such that is removed.
- Tap “SEL ALL” to select all files.
- Tap “REL ALL” to release all selections.

7 Tap “SET” to complete the setting.

- Protect marks appear on the selected files.
  Protect marks disappear from the deselected files.
Capturing a Still Image in the Video During Playback

You can capture still images of the scenes you like in the recorded videos.

1  Open the LCD monitor.

- Check if the recording mode is still image.
- If the mode is still image, tap on the recording screen to display the mode switching screen.
  Tap to switch the mode to video.

2  Tap to select the playback mode.

3  Tap on the desired video.

4  Tap pause at the desired scene during playback.

- After pausing the video, you can fine-tune the point to capture by tapping forward slow-motion and reverse slow-motion.

5  Tap the button.

Memo:
- Still images are captured with a size of 1920×1080.
- Captured still images are stored in the media where the video is being played back from.
Combining Videos Recorded by Seamless Recording

Videos that are recorded on two separate media and with "SEAMLESS RECORDING" in the video recording menu enabled can be combined into a single video.

"SEAMLESS RECORDING" (☞ p. 76)

1. Open the LCD monitor.

   - Check if the recording mode is .
   - If the mode is still image, tap on the recording screen to display the mode switching screen. Tap to switch the mode to video.

2. Tap to select the playback mode.

3. Tap "MENU".

4. Tap "EDIT".

5. Tap "SEAMLESS REC CTRL".

6. Tap "COMBINE SCENES".

   - This unit starts a search to detect seamless videos. Combining cannot be performed if no seamless videos are found.

7. Tap "YES".

8. Tap the media to store to.

9. Tap "YES".

   - Combining of the videos starts.
   - After videos are combined, tap "OK".

Memo:

- Seamless videos cannot be combined if there is not enough free space in the built-in memory or SD card. Check the amount of remaining free space before combining.

How to Enable Seamless Video Recording Again

To start seamless recording again after the previous session is complete, it is necessary to combine seamless videos, or delete the combination information of the seamless videos.

To delete the combination information of seamless videos, select "DEL COMBINED SCENES" in step 6.
Capturing a Required Part in the Video (TRIMMING)

Select the required part of a video and save it as a new video file.

- The original video remains in its existing location.

1. Open the LCD monitor.

2. Tap to select the playback mode.

3. Tap "MENU".

4. Tap "EDIT".

5. Tap "TRIMMING".

6. Tap the video to edit.

7. Tap to pause playback at the desired start point, then tap “A”.

8. Tap to pause playback at the desired end point, then tap “B”.

9. Tap “SET”.

10. Tap “YES”.

Memo:

- The division point may deviate slightly from the selected scene.
Dubbing Files to a Disc by Connecting to a Blu-ray Recorder

You can dub videos in the high definition quality by connecting an AVCHD-compliant Blu-ray recorder to this unit via a USB cable. For details on creating the disc, refer to the instruction manual of your Blu-ray recorder.

- This operation cannot be completed if the remaining battery power is not enough. Charge the battery fully first.

1. Open the terminal cover.
2. Connect to a Blu-ray recorder.
   - Connect using the USB cable provided with this unit.
   - Before making any connection, close the LCD monitor to turn off this unit.
3. Open the LCD monitor.
   - This unit turns on and the "SELECT DEVICE" screen appears.
4. Tap "CONNECT TO OTHER".

5. Tap the desired media.

   - The following screen is displayed after the camera operation is completed.

6. Perform dubbing on the Blu-ray recorder.
   - Refer also to the instruction manual of the Blu-ray recorder.
   - After dubbing is complete, close the LCD monitor of this unit and check that the POWER/ACCESS lamp goes off before disconnecting the USB cable. Operations cannot be performed on this unit until the USB cable is disconnected.
Copying Files to an SD Card

You can copy videos and still images from the built-in memory to SD card. Copying still images to cards makes it convenient to bring them to the shop for printing (developing).

- This operation cannot be completed if the remaining battery power is not enough. Charge the battery fully first.

Caution:
- Make sure that there is enough space left in the destination medium.
- Videos in the SD card cannot be copied to the built-in memory.

1. Open the LCD monitor.

   - Tap \( \text{REC} \) or \( \text{PLAY} \) to select the video or still image mode.

2. Tap \( \text{PLAY} \) to select the playback mode.

   - The mode changes between recording and playback with every tap.

3. Tap “MENU”.

4. Tap “EDIT”.

5. Tap “COPY”.

6. Tap on the files to copy.

   - \( \checkmark \) appears on the selected files.
   - To remove \( \checkmark \) from a file, tap on the file again.
   - Tap “SEL ALL” to select all files.
   - Tap “REL ALL” to release all selections.

7. Tap “SET”.

   - “SET” is deactivated when no file is selected.

8. Tap “YES”.

   - Copying starts.
   - After copying, tap “OK”.

Copying starts.

After copying, tap “OK”.

Note: This operation cannot be completed if the remaining battery power is not enough. Charge the battery fully first.

Caution:
- Make sure that there is enough space left in the destination medium.
- Videos in the SD card cannot be copied to the built-in memory.
Copying to Windows PC

Copy the files to a computer using the following method.

- This operation cannot be completed if the remaining battery power is not enough. Charge the battery fully first.

1. Open the terminal cover.
2. Connect to your PC using the provided USB cable.
   - Before connecting the cable, close the LCD monitor to turn off this unit.
3. Open the LCD monitor.
   - This unit turns on and the “SELECT DEVICE” menu appears.
4. Tap “CONNECT TO PC”.
5. Tap “PLAYBACK ON PC”.
6. (Windows 10/ Windows 8.1) Click “This PC” in “Windows System”, then click the “CANON_MEM” or “CANON_SD” icon of “This PC”.
   (Windows 7) Select “Computer” from the “Start” menu, then click on the “CANON_MEM” or “CANON_SD” icon.
   - Open the folder with the desired files.
   “List of Files and Folders” (☞ p. 72)
7. Copy the files to any folder in the computer (desktop, etc).

Caution:
- When the camera and PC are connected by an USB cable, recorded media are read-only.

Memo:
- To edit/view the files, use a software that supports AVCHD (video)/JPEG (still image) files.
- The above operations on computer may vary with the system used.

Disconnecting this Unit from Computer

1. Click “Safely Remove Hardware and Eject Media”.
2. Click all “CANON~”.
3. Disconnect the USB cable and close the LCD monitor.

Operations are to be performed on the computer after the screen switches.
Copying to Mac Computer

Copy the files to a Mac computer using the following method.

Caution:
- This operation cannot be completed if the remaining battery power is not enough. Charge the battery fully first.

1. Open the terminal cover.
2. Connect to your PC using the provided USB cable.
   - Before connecting the cable, close the LCD monitor to turn off this unit.
3. Open the LCD monitor.
4. Tap “CONNECT TO PC”.
5. Tap “PLAYBACK ON PC”.
- Disconnect the USB cable to return to the recording or playback screen.
- The following screen is displayed after the camera operation is completed.
6. Load image file to iPhoto.
   - iPhoto launches automatically and videos recorded in the camera are displayed. Load the necessary images.
   - Images on the built-in memory and SD card are displayed separately. Switch between CANON_MEM (built-in memory) and CANON_SD (SD card) displayed under “Devices” in the iPhoto “Source list”.
   - Videos loaded using iPhoto cannot be edited using iMovie. To edit videos, load the files from iMovie.
7. Edit the video using iMovie.
   - Run iMovie and load the necessary videos to iMovie.
   - Videos loaded using iPhoto cannot be imported to iMovie.
   - For details on operating iMovie, refer to the help file of iMovie.

Caution:
- Do not remove the cable or turn off this unit before image loading is complete.
- When the camera and PC are connected by an USB cable, recorded media are read-only.
- MTS files that are copied to a Mac computer cannot be imported to iMovie. To use MTS files with iMovie, import the files using iMovie.

Memo:
- To edit/view the files, use a software that supports AVCHD (video) files.
- When removing this unit from the computer, drag and drop the “CANON_MEM” or “CANON_SD” icon on the desktop to the trash bin.

iMovie and iPhoto
You can import files from this unit to a computer using Apple’s iMovie ’8, iMovie ’9, iMovie ’11, iMovie version 10 (video), or iPhoto (still image). For the PC operating system of iMovie and iPhoto, check the information provided by Apple.
- For the latest information on iMovie or iPhoto, refer to the Apple website.
- For details on how to use iMovie or iPhoto, refer to the help file of the respective softwares.
- There is no guarantee that the operations will work with all computer environments.
Folders and files are created in the built-in memory and SD card as shown below. They are created only when necessary.

Caution:

- When the camera and PC are connected by an USB cable, recorded media are read-only.
Operating the Menu

The following menu is available on this unit.
- TOP MENU: Menu that contains all the items specific to the video recording, still image recording, video playback, and still image playback modes respectively.

Operating the Top Menu

You can configure various settings using the menu.

1. Tap "MENU".

![Menu Screen]

- The top menu appears.
- The menu differs according to the mode in use.

2. Tap the desired menu.

![Menu Screen]

3. Tap the desired setting.

![Menu Screen]

Memo:
- To display the previous/next menu
  Tap < or >.
- To return to the previous screen
  Tap ↑.
- To exit the screen
  Tap X (quit).
### FOCUS
Focus can be adjusted manually.

*Adjusting Focus Manually (FOCUS)* (p. 28)

*Displayed only in the manual recording mode.

### BRIGHTNESS ADJUST
Adjusts the overall brightness of the screen.

*Adjusting Brightness* (p. 29)

*Displayed only in the manual recording mode.

### BACKLIGHT COMP.
Corrects the image when the subject appears dark due to backlight.

*Setting Backlight Compensation* (p. 30)

*Displayed only in the manual recording mode.

### WHITE BALANCE
Adjusts the color according to the light source.

*Setting White Balance* (p. 31)

*Displayed only in the manual recording mode.

### TELE MACRO
Enables close-up shots when using the telephoto (T) end of the zoom.

*Taking Close-up Shots (TELE MACRO)* (p. 32)

*Displayed only in the manual recording mode.

### TOUCH PRIORITY AE/AF
Automatically adjusts focus and brightness based on the subjects’ faces or selected area.

*Capturing Subjects Clearly (TOUCH PRIORITY AE/AF)* (p. 38)

### LIGHT (VIXIA HF W11)
Turns on/off the light.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not light up.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Lights up automatically when the surrounding is dark.</td>
</tr>
<tr>
<td>ON</td>
<td>Lights up at all times.</td>
</tr>
</tbody>
</table>

### DIS
Camera shake during video recording can be effectively reduced.

*Reducing Camera Shake* (p. 40)

### GAIN UP
Makes the subject appear bright automatically when recording in dark places.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Electrically brightens the scene when it is dark.</td>
</tr>
<tr>
<td>AUTO SLOW-SHUTTER</td>
<td>Slows down the shutter speed to brighten the scene when it is dark.</td>
</tr>
</tbody>
</table>

**Memo:**
*Although "AUTO SLOW-SHUTTER" brightens the scene more than "ON", movements of the subject may become unnatural.*
WIND CUT
Reduces the noise caused by wind.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates the function.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Activate the function automatically.</td>
</tr>
</tbody>
</table>

SELF-TIMER
Use this function when you wish to include the photographer in the picture or video.
"Using the Self-timer in Video Mode" (p. 44)

TIME-LAPSE RECORDING
This function enables the changes of a scene that occur slowly over a long period to be shown within a short time by taking frames of it at a certain interval. This is useful for making observations such as the opening of a flower bud.
"Recording at Intervals (TIME-LAPSE RECORDING)" (p. 41)

DATE/TIME RECORDING
You can record videos together with the date and time. Set this when you want to save the file with date and time display. (The date and time cannot be deleted after recording.)
"Recording Videos with Date and Time" (p. 46)

TIME COUNTER RECORDING
You can take a video with a stopwatch recorded. You can start, stop and reset the stopwatch as with any stopwatch.
"Recording Videos with Time Counter" (p. 47)

PHOTO-INSERT RECORDING
Displaying a captured still image in the sub screen before video recording and recording the image during video recording.
"Recording Video with Still Image Displayed in Sub Screen (PHOTO-INSERT RECORDING)" (p. 43)

RECORDING EFFECT
You can add and record various effects to the images. Once setting is done, you can easily record images that are suitable for each image.

- GRAINY MONOCHROME
You can record images with a grainy black and white photo feel.
"Recording Images Like an Old Black and White Photo (GRAINY MONOCHROME)" (p. 35)

- FOOD
You can capture images of the food to make the food look appetizing.
"Recording Food Images (FOOD)" (p. 36)

- BABY
You can capture soft images by enhancing the clarity and brightness of skin color. This effect is suitable for capturing images of a baby.
"Recording Images of a Baby (BABY)" (p. 37)
SHUTTER MODE
Continuous shooting settings can be adjusted.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECORD ONE SHOT</td>
<td>Records one still image.</td>
</tr>
<tr>
<td>CONTINUOUS SHOOTING</td>
<td>Records still images continuously while the button on the LCD screen is tapped.</td>
</tr>
</tbody>
</table>

Memo:
- The size of the still image that is captured in the video mode is 1,920 x 1,080.
- Some SD cards may not support continuous shooting.
- The continuous shooting speed will drop if this function is used repeatedly.

SEAMLESS RECORDING
Continues recording on the SD card without stopping when the remaining space on the built-in memory runs out.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not switch recording media automatically.</td>
</tr>
<tr>
<td>ON</td>
<td>Switches recording media automatically.</td>
</tr>
</tbody>
</table>

Memo:
- Seamless recording cannot be performed if there is not enough free space in the SD card.
- `q` appears if seamless recording cannot be performed.
- To start seamless recording again after the previous session is complete, it is necessary to combine seamless videos, or delete the combination information of the seamless videos.
  "Combining Videos Recorded by Seamless Recording" (p. 66)

SYSTEM SELECT
Sets the frame rate for recording.
Sets whether to perform progressive recording of videos.
When progressive recording is set, high quality images with a smooth depth of field can be recorded. In addition, fast-moving subjects can also be captured sharply without flickering.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>60p</td>
<td>Records in progressive format.</td>
</tr>
<tr>
<td>60i</td>
<td>Does not record in progressive format.</td>
</tr>
</tbody>
</table>

Memo:
- Video quality cannot be set in 60p mode.
- Videos recorded in 60p mode are playable only on AVCHD Progressive compatible devices.

VIDEO QUALITY
Sets the video quality.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UXP</td>
<td>Enables recording in the best picture quality.</td>
</tr>
<tr>
<td>XP</td>
<td>Enables recording in high picture quality.</td>
</tr>
<tr>
<td>EP</td>
<td>Enables long recordings.</td>
</tr>
</tbody>
</table>

Memo:
- Set to "UXP" or "XP" mode when recording fast-moving scenes or scenes with extreme changes of brightness to avoid noise.
ZOOM
Sets the maximum zoom ratio.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>40x OPTICAL</td>
<td>Enables recording with 1 - 40x optical zoom. Set this when digital zoom is not desired.</td>
</tr>
<tr>
<td>60x DYNAMIC</td>
<td>Enables recording with 1 - 40x optical zoom and 41 - 60x dynamic zoom, when the image stabilizer is in normal mode or set to off. (Enables recording with 1 - 40x optical zoom and 41 - 55x dynamic zoom, when the image stabilizer is in active mode. Not available in the enhanced AIS mode.)</td>
</tr>
<tr>
<td>(55x DYNAMIC)</td>
<td></td>
</tr>
<tr>
<td>120x DIGITAL</td>
<td>Enables recording with 1 - 40x optical zoom and 41 - 120x digital zoom.</td>
</tr>
<tr>
<td>200x DIGITAL</td>
<td>Enables recording with 1 - 40x optical zoom and 41 - 200x digital zoom.</td>
</tr>
</tbody>
</table>

Memo:
• When digital zoom is used, the image becomes grainy as it is digitally enlarged.
• The angle of view changes when the image stabilizer is turned on or off.

ZOOM MIC
Sets the zoom microphone.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the zoom microphone.</td>
</tr>
<tr>
<td>ON</td>
<td>Records audio sounds in the same direction as the zoom operation.</td>
</tr>
</tbody>
</table>

Memo:
• When “ON” is selected, the volume of the wide angle (W) end is lower than the telephoto (T) end.

MIC LEVEL
Make the adjustments such that “MIC LEVEL” does not turn red.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Hides display of microphone input level.</td>
</tr>
<tr>
<td>ON</td>
<td>Shows display of microphone input level.</td>
</tr>
</tbody>
</table>

MIC LEVEL SETTING
Sets the microphone level.
Make the adjustments such that “MIC LEVEL” does not turn red.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1</td>
<td>Increases the microphone input level.</td>
</tr>
<tr>
<td>0</td>
<td>The microphone input level is not changed.</td>
</tr>
<tr>
<td>-1</td>
<td>Decreases the microphone input level.</td>
</tr>
</tbody>
</table>

SCREEN LOCK
When shooting under water, lock the touch screen to prevent operation errors.
“Locking the Screen (when Shooting Underwater)” (☞ p. 10)
### LCD CLOSED RECORDING

This unit does not turn off even when the LCD monitor is closed during recording.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>The unit is turned off when the LCD monitor is closed.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates LCD CLOSED RECORDING.</td>
</tr>
</tbody>
</table>

**Memo:**
- If "LCD CLOSED RECORDING" is set to "ON", stop the recording before turning off the unit.
- When "LCD CLOSED RECORDING" set to "ON" and recording is in progress with the LCD monitor closed (or LCD monitor reversed), the zoom lever and the START/STOP button cannot be operated.
RECORD SETTING Menu (still image)

**FOCUS**
Focus can be adjusted manually.
*Adjusting Focus Manually (FOCUS)* ([p. 28])
*Displayed only in the manual recording mode.*

**BRIGHTNESS ADJUST**
Adjusts the overall brightness of the screen.
*Adjusting Brightness* ([p. 29])
*Displayed only in the manual recording mode.*

**BACKLIGHT COMP.**
Corrects the image when the subject appears dark due to backlight.
*Setting Backlight Compensation* ([p. 30])
*Displayed only in the manual recording mode.*

**WHITE BALANCE**
Adjusts the color according to the light source.
*Setting White Balance* ([p. 31])
*Displayed only in the manual recording mode.*

**TELE MACRO**
Enables close-up shots when using the telephoto (T) end of the zoom.
*Taking Close-up Shots (TELE MACRO)* ([p. 32])
*Displayed only in the manual recording mode.*

**TOUCH PRIORITY AE/AF**
Automatically adjusts focus and brightness based on the subjects’ faces or selected area.
*Capturing Subjects Clearly (TOUCH PRIORITY AE/AF)* ([p. 38])

**LIGHT**
Turns on/off the light.

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<td>ON</td>
<td>Lights up at all times.</td>
</tr>
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</table>

**SELF-TIMER**
Use this when taking a group photo.
*Using the Self-timer* ([p. 44])

**GAIN UP**
Makes the subject appear bright automatically when recording in dark places.

<table>
<thead>
<tr>
<th>Setting</th>
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</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Electrically brightens the scene when it is dark.</td>
</tr>
</tbody>
</table>

**Memo:**
- Setting can be adjusted separately for videos.
  *GAIN UP (Video)* ([p. 74])
RECORDING EFFECT
You can add and record various effects to the images. Once setting is done, you can easily record images that are suitable for each image.

- GRAINY MONOCHROME
  You can record images with a grainy black and white photo feel.
  "Recording Images Like an Old Black and White Photo (GRAINY MONOCHROME)" (p. 35)

- FOOD
  You can capture images of the food to make the food look appetizing.
  "Recording Food Images (FOOD)" (p. 36)

- BABY
  You can capture soft images by enhancing the clarity and brightness of skin color. This effect is suitable for capturing images of a baby.
  "Recording Images of a Baby (BABY)" (p. 37)

SHUTTER MODE
Continuous shooting settings can be adjusted.

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<tbody>
<tr>
<td>RECORD ONE SHOT</td>
<td>Records one still image.</td>
</tr>
<tr>
<td>CONTINUOUS SHOOTING</td>
<td>Records still images continuously while the START/STOP button is pressed.</td>
</tr>
</tbody>
</table>

Memo:
- Some SD cards may not support continuous shooting.
- The continuous shooting speed will drop if this function is used repeatedly.

IMAGE SIZE
Sets the image size (number of pixels) for still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- The sides of still images recorded in 16:9 aspect ratio may be cut off when printed.</td>
</tr>
<tr>
<td>3680X2760(10M)</td>
<td>Takes still images with aspect ratio 4:3.</td>
</tr>
<tr>
<td>1440X1080(1.5M)</td>
<td></td>
</tr>
<tr>
<td>640X480(0.3M)</td>
<td></td>
</tr>
</tbody>
</table>

SCREEN LOCK
When shooting under water, lock the touch screen to prevent operation errors.
"Locking the Screen (when Shooting Underwater)" (p. 10)
PLAYBACK SETTING Menu (video)

DISPLAY DATE/TIME
Sets whether to display the recording date and time during video playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not display the date and time during playback.</td>
</tr>
<tr>
<td>ON</td>
<td>Displays the date and time during playback.</td>
</tr>
</tbody>
</table>

TIME COUNTER PLAYBACK
A time counter that can be reset can be displayed during playback.

“TIME COUNTER PLAYBACK” (☞ p. 54)

SLOW-MOTION SPEED
For specifying the playback speed of slow playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>Sets the speed of slow playback to 1/2 normal playback speed.</td>
</tr>
<tr>
<td>1/4</td>
<td>Sets the speed of slow playback to 1/4 normal playback speed.</td>
</tr>
<tr>
<td>1/8</td>
<td>Sets the speed of slow playback to 1/8 normal playback speed.</td>
</tr>
</tbody>
</table>

DIGEST PLAYBACK
Plays back a digest of the recorded videos.

“DIGEST PLAYBACK” (☞ p. 55)

PLAYBACK OTHER FILE
Plays videos with defective management information.

“PLAYBACK OTHER FILE” (☞ p. 56)
EDIT Menu (video)

PROTECT/CANCEL
Protects files from being deleted accidently.
*Protecting/Releasing Protection of the Currently Displayed File* (*p. 63*)
*Protecting/Releasing Protection of Selected Files* (*p. 64*)

COPY
Copies files from the built-in memory to the SD card.
*Copying Files to an SD Card* (*p. 69*)

TRIMMING
Select the required part of a video and save it as a new video file.
The original video remains in its existing location.
*Capturing a Required Part in the Video (TRIMMING)* (*p. 67*)

SEAMLESS REC CTRL
Videos that are recorded on two separate media and with "SEAMLESS RECORDING" in the video recording menu enabled can be combined into a single video.
*Combining Videos Recorded by Seamless Recording* (*p. 66*)
### PLAYBACK SETTING Menu (still image)

#### SLIDE SHOW EFFECTS
Sets the transition effects in slideshow playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIDE</td>
<td>Switches the screen by sliding in from right to left.</td>
</tr>
<tr>
<td>BLINDS</td>
<td>Switches the screen by dividing into vertical strips.</td>
</tr>
<tr>
<td>CHECKERBOARD</td>
<td>Switches the screen by changing through a checkered pattern.</td>
</tr>
<tr>
<td>RANDOM</td>
<td>Switches the screen with a random effect from SLIDE, &quot;BLINDS&quot;, and &quot;CHECKERBOARD&quot;.</td>
</tr>
</tbody>
</table>

**Memo:**
- Slideshow effects are not available when playing back still images in external devices (such as USB external hard disk drives).
<table>
<thead>
<tr>
<th>EDIT Menu (still image)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROTECT/CANCEL</td>
</tr>
<tr>
<td>Protects files from being deleted accidently.</td>
</tr>
<tr>
<td>“Protecting/Releasing Protection of the Currently Displayed File” (p. 63)</td>
</tr>
<tr>
<td>“Protecting/Releasing Protection of Selected Files” (p. 64)</td>
</tr>
<tr>
<td>COPY</td>
</tr>
<tr>
<td>Copies files from the built-in memory to the SD card.</td>
</tr>
<tr>
<td>“Copying Files to an SD Card” (p. 69)</td>
</tr>
</tbody>
</table>
SETUP (video/still image)

DATE & TIME
 Resets the current time or sets to the local time when using this unit overseas.
 "Clock Setting" (p. 15)  
 "Setting the Clock to Local Time when Traveling" (p. 18)  
 "Setting Daylight Saving Time" (p. 19)

DATE DISPLAY STYLE
 Sets the order of year, month, day and the time display format (24H/12H).

<table>
<thead>
<tr>
<th>Sorting Order</th>
<th>Time Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>year.month.day</td>
<td>12h</td>
</tr>
<tr>
<td>month.day.year</td>
<td>24h</td>
</tr>
<tr>
<td>day.month.year</td>
<td>-</td>
</tr>
</tbody>
</table>

LANGUAGE
 The language on the display can be changed.
 "Changing the Display Language" (p. 16)

MONITOR BRIGHTNESS
 Sets the brightness of the LCD monitor.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>Sets the brightness automatically to “4” when using outdoors and to “3” when using indoors.</td>
</tr>
<tr>
<td>4</td>
<td>Brightens the backlight of the monitor regardless of the surrounding conditions.</td>
</tr>
<tr>
<td>3</td>
<td>Sets to the standard brightness.</td>
</tr>
<tr>
<td>2</td>
<td>Darkens the backlight of the monitor regardless of the surrounding conditions.</td>
</tr>
</tbody>
</table>
| 1       | Sets to dim brightness.  
 helps to save battery life when selected. |

AUTO POWER OFF
 When no operation is made for 5 minutes, this function turns off this unit or sets this unit to standby mode when using the AC adapter in case you forgot to turn off the power.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Power is not turned off even if this unit is not operated for 5 minutes.</td>
</tr>
<tr>
<td>ON</td>
<td>Turns off the power automatically if this unit is not operated for 5 minutes.</td>
</tr>
</tbody>
</table>

Memo :

• Turns off the power automatically if this unit is not operated for 5 minutes.
• When using the AC adapter, this unit goes into standby mode.

TOUCH SCREEN ADJUST
 Adjusts the response position of the buttons on the touch screen.
 "Adjusting the Touch Screen" (p. 11)
**Settings Menu**

**REC MEDIA FOR VIDEO**
Sets the recording/playback media of videos.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>📚 BUILT-IN MEMORY</td>
<td>Records videos to this unit's built-in memory.</td>
</tr>
<tr>
<td>🛠️ SD CARD</td>
<td>Records videos to the SD card.</td>
</tr>
</tbody>
</table>

**REC MEDIA FOR IMAGE**
Sets the recording/playback media of still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>📚 BUILT-IN MEMORY</td>
<td>Records still images to this unit's built-in memory.</td>
</tr>
<tr>
<td>🛠️ SD CARD</td>
<td>Records still images to the SD card.</td>
</tr>
</tbody>
</table>

**FORMAT BUILT-IN MEM.**
Deletes all files on the built-in memory.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILE</td>
<td>Deletes all files on the built-in memory.</td>
</tr>
<tr>
<td>FILE + MANAGEMENT NO</td>
<td>Deletes all files on the built-in memory and resets the folder and file numbers to &quot;1&quot;. (File number of the AVCHD video file starts from &quot;0&quot;).</td>
</tr>
</tbody>
</table>

**Caution:**
- All data on the built-in memory will be deleted when it is formatted.
- Copy all files on the built-in memory to a computer before formatting.
- Make sure that the battery pack is fully charged or connect the AC adapter as the formatting process may take some time.

**FORMAT SD CARD**
Deletes all files on the SD card.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILE</td>
<td>Deletes all files on the SD card.</td>
</tr>
<tr>
<td>FILE + MANAGEMENT NO</td>
<td>Deletes all files on the SD card and resets the folder and file numbers to &quot;1&quot;.</td>
</tr>
</tbody>
</table>

**Caution:**
- Not available for selection when no SD card is inserted.
- All data on the SD card will be deleted when it is formatted.
- Copy all files on the SD card to a computer before formatting.
- Make sure that the battery pack is fully charged or connect the AC adapter as the formatting process may take some time.

**FACTORY PRESET**
Returns all the settings to their default values.

**OPEN SOURCE LICENSES (recording only)**
Displays the open source software licenses that are used in this unit.
## CONNECTION SETTINGS (video/still image)

### DISPLAY ON TV
Displays icons and date/time on a TV screen.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not display icons and date/time on TV.</td>
</tr>
<tr>
<td>ON</td>
<td>Displays icons and date/time on TV.</td>
</tr>
</tbody>
</table>

### VIDEO OUTPUT
Sets the aspect ratio (16:9 or 4:3) according to the connecting TV.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td>Select this when connecting to a conventional TV (4:3).</td>
</tr>
<tr>
<td>16:9</td>
<td>Select this when connecting to a widescreen TV (16:9).</td>
</tr>
</tbody>
</table>

### HDMI OUTPUT
Sets the output from the HDMI connector of this unit when it is connected to a TV.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>It is recommended to select “AUTO” usually.</td>
</tr>
<tr>
<td>480p</td>
<td>Select this when the video is not output in “AUTO” correctly.</td>
</tr>
</tbody>
</table>

### HDMI CONTROL
Sets whether to link operations with an HDMI-CEC compliant TV.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turns off linked operations.</td>
</tr>
<tr>
<td>ON</td>
<td>Turns on linked operations.</td>
</tr>
</tbody>
</table>
USB CONNECTION MENU

This menu appears when this unit is connected to a computer using an USB cable.

PLAYBACK ON PC

- Saves videos recorded by this unit on your computer.

"Copying to Windows PC" (p. 70)
"Copying to Mac Computer" (p. 71)
Right Side

1 Speaker
2 Grip Belt
   - Pass your hand through the grip belt to hold this unit firmly.
   "Grip Adjustment" (p. 8)

Bottom Side

1 Cover Lock
2 Tripod Mounting Hole
   "Tripod Mounting" (p. 17)
**Names of Parts**

### Top/Left/Rear Side

1. **Lens**
   - The lens is protected by a protective glass cover.
   - If the lens is dirty, use a commercially available lens blower to remove any dust, and a commercially available cleaning cloth to wipe off any dirt.
   - Do not cover the front of the lens with your fingers during recording.

2. **Light (VIXIA HF W11)**
   - Turn on the light when shooting in dark places.

3. **Stereo Microphone**
   - Do not cover the microphone with your fingers during video recording.

4. **LCD Monitor**

5. **CHARGE (Charging) Lamp**
   - Lights up: Charging in progress
   - Goes off: Charging completed/Beyond temperature range
   - Blinks: Charging error or abnormal temperature

6. **POWER/ACCESS (Power/Access) Lamp**
   - Lights up/blinks during recording or playback.
   - Do not remove the SD card or any connecting cables.

7. **Zoom/Volume Lever**
   - During shooting: Adjusts the shooting range.
   - During playback (index screen): Moves to the next or previous page.
   - During video playback: Adjusts the volume.

8. **Strap Mount**
   - The strap is not supplied.

9. **START/STOP (Video Recording) Button**
   - Starts/stops recording of videos/still images.

10. **Terminal Cover**

### Inside Terminal Cover

1. **SD Card Slot**
   - Insert an optional SD card.

2. **Reset Button**

3. **HDMI Mini Connector**
   - Connects to TV using an HDMI mini cable.

4. **AV Connector**
   - Connects to the AV connector of a TV, etc.

5. **USB Connector (Micro USB AB type)**
   - Connect to the AC adapter to perform charging.
   - You can also connect to the external device or computer using the USB cable.
**Names of Parts**

**LCD Monitor**

1. **LCD Monitor**
   - Turns the power on/off by opening and closing.
   - Enables self-portraits to be taken by rotating the monitor.

"Using the Touch Screen" (p. 10)
"Names of Buttons and Functions on the LCD Monitor" (p. 12)

**Caution:**
- Do not press against the surface with force or subject it to strong impact. Doing so may damage or break the screen.
### Common Recording Indications

1. **TOUCH PRIORITY AE/AF**
   *Capturing Subjects Clearly (TOUCH PRIORITY AE/AF)* (p. 38)

2. **Backlight Compensation**
   *Setting Backlight Compensation* (p. 30)

3. **Tele Macro**
   *Taking Close-up Shots (TELE MACRO)* (p. 32)

4. **WHITE BALANCE**
   *Setting White Balance* (p. 31)

5. **Time**
   *Clock Setting* (p. 15)

6. **RECORDING EFFECT**
   *Recording with Effects (RECORDING EFFECT)* (p. 34)

7. **Recording media**
   *REC MEDIA FOR VIDEO* (p. 86)
   *REC MEDIA FOR IMAGE* (p. 86)

8. **Battery Indicator**
   *Checking the Remaining Recording Time* (p. 48)

9. **CONTINUOUS SHOOTING**
   *SHUTTER MODE (Video)* (p. 76)
   *SHUTTER MODE (Still Image)* (p. 80)

10. **Recording Mode**
    *Taking Videos in Auto Mode* (p. 20)
    *Manual Recording* (p. 27)

11. **Setting Scenes of Intelligent Auto**
    *Displays scenes detected automatically in the Intelligent Auto function. Multiple scenes may be detected.*
    *Scenes of Intelligent Auto* (p. 21)

12. **SILENT MODE**
    *Using the Silent Mode* (p. 22)

13. **Zoom**
    *ZOOM* (p. 77)

14. **Shutter**

15. **Focus**
    *Adjusting Focus Manually (FOCUS)* (p. 28)

16. **Brightness**
    *Adjusting Brightness* (p. 29)

### Video Recording

1. **Video Mode**
   *Switches between video and still image modes.*

2. **Video Quality**
   *SYSTEM SELECT* (p. 76)
   *VIDEO QUALITY* (p. 76)

3. **TIME-LAPSE RECORDING**
   *Recording at Intervals (TIME-LAPSE RECORDING)* (p. 41)

4. **Image Stabilizer**
   *Reducing Camera Shake* (p. 40)

5. **Seamless Recording**
   *SEAMLESS RECORDING* (p. 76)

6. **Wind Cut**
   *WIND CUT* (p. 75)

7. **LCD CLOSED RECORDING**
   *LCD CLOSED RECORDING* (p. 78)

8. **Time-Lapse Recording Counter**
   *Recording at Intervals (TIME-LAPSE RECORDING)* (p. 41)

9. **Remaining Recording Time**
   *Checking the Remaining Recording Time* (p. 48)

10. **Scene Counter**

11. **MIC LEVEL METER**
    *MIC LEVEL* (p. 77)
Still Image Recording

1. Still Image Mode
   - Switches between video and still image modes.
2. Image Size
   - "IMAGE SIZE" (p. 80)
3. Self-Timer
   - "Using the Self-timer" (p. 44)
4. Remaining Number of Shots
   - "Checking the Remaining Recording Time" (p. 49)
5. Focus
6. Recording in Progress

Video Playback

1. Video Mode
   - Switches between video and still image modes.
2. Video Quality
   - "VIDEO QUALITY" (p. 76)
3. Operation Indicator
   - "Operation Buttons for Video Playback" (p. 51)
4. Date/Time
   - Displays the recording date and time.
5. Recording media
   - "REC MEDIA FOR VIDEO" (p. 86)
6. Battery Indicator
   - "Checking the Remaining Recording Time" (p. 48)
7. Playback Time
8. Time-Lapse Playback
   - "Time-Lapse Setting" (p. 42)
9. 1080p Output
   - "HDMI OUTPUT" (p. 87)
10. SILENT MODE
    - "Using the Silent Mode" (p. 22)
11. Scene Counter
Indications on the LCD monitor

Still Image Playback

1. **Still Image Mode**
   - Switches between video and still image modes.

2. **Folder Number**

3. **File Number**

4. **Date/Time**
   - Displays the recording date and time.

5. **Recording media**
   - "REC MEDIA FOR IMAGE" (⇒ p. 86)

6. **Battery Indicator**
   - "Checking the Remaining Recording Time" (⇒ p. 48)

7. **SILENT MODE**
   - "Using the Silent Mode" (⇒ p. 22)

8. **1080p Output**
   - "HDMI OUTPUT" (⇒ p. 87)
When the unit is not working properly

Resetting this Unit
This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In that case, perform the steps below to reset this unit. (The recorded data will not be erased.)

“Resetting this Unit” (⇒ p. 5)

1. Open the terminal cover.
   - Remove the power cord and all connecting cables.
2. Close the LCD monitor to turn off this unit.
3. Press the Reset button gently using an object with pointed tip.
   “Reset Button” (⇒ p. 90)

Charging

Unable to charge the battery.
When the battery pack is fully charged, the lamp does not light up. Be sure to charge using the supplied AC adapter. Malfunction in the unit that occurred due to the use of an AC adapter other than the one provided is not included in the warranty.

Check the connection, then disconnect and reconnect the charging adapter cable.
Charging cannot be performed under low or high temperature environments. Charge under the room temperature range of 10°C to 35°C. (Under environments beyond the temperature range, charging may stop to protect the battery pack.)
Using a non-original AC adapter may result in damage to this unit. Be sure to use an original AC adapter.

The remaining battery display is not correct.
If this unit is used for long periods of time in high or low temperatures, or if the battery pack is repeatedly charged, the amount of remaining battery may not be displayed correctly.

The battery runs out quickly even after charging.
Be sure to charge using the supplied AC adapter. Malfunction in the unit that occurred due to the use of an AC adapter other than the one provided is not included in the warranty.
The performance of the battery will drop temporarily when the temperature is -10°C to 0°C, this will cause the remaining recording time to shorten.
When the recording time becomes extremely short even when the battery is fully charged, the battery needs to be replaced. For details on replacing the built-in battery (subject to a fee), consult the nearest Canon service center.
Troubleshooting

Power supply

Unable to turn on the power.
The camera does not turn on if the remaining battery power is low.
In this case, charge the battery for more than 40 minutes before turning on the power.
• When the unit does not turn on even after charging, reset the unit.
  “Resetting this Unit” (ër p. 95)

Recording

Recording cannot be performed.
Check the / button.
“Top/Left/Rear Side” (ër p. 90)
Set to the recording mode by tapping the button on the screen.

Recording stops automatically.
Recording stops automatically as it cannot be performed for 12 or more consecutive hours according to specifications. (It may take some time to resume recording.)
Turn off this unit, wait for a while, and turn it on again. (This unit stops automatically to protect the circuit when the temperature rises.)

The continuous shooting speed of still images is slow.
The continuous shooting speed will drop if this function is used repeatedly. Continuous shooting speed may drop depending on the SD card or under certain recording conditions.

The focus is not adjusted automatically.
If you are recording in a dark place or a subject that has no contrast between dark and light, adjust the focus manually.
* “Adjusting Focus Manually (FOCUS)” (ër p. 28)
Wipe the lens with a lens cleaning cloth.
Cancel manual focus on the manual recording menu.
* “Adjusting Focus Manually (FOCUS)” (ër p. 28)

Zoom does not work.
Digital zoom is not available in the still image recording mode.
Zoom operation is not available in time-lapse recording. (Simultaneous still image recording and image stabilizer are also not available.)
To use digital zoom, set “ZOOM” in the menu accordingly.
* “ZOOM” (ër p. 77)

Mosaic-type noise occurs when recording scenes with fast movements or extreme changes in brightness.
Set the “VIDEO QUALITY” to “UXP” or “XP” for recording.
* “VIDEO QUALITY” (ër p. 76)

The inside of the lens is foggy.
Open the terminal cover; close the LCD monitor and leave as is for a while to reduce the temperature.

Preventing fogging inside the lens
• Models with waterproof function are airtight. When the temperature rises during recording, condensation can occur inside the lens due to the internal humidity.

During recording
To prevent the temperature of this unit from rising, we recommend that you use the unit in the following ways.
1 Avoid frequent exposure to direct sunlight.
   Record under the shade or use an umbrella. Best if you could keep a wet towel cover the unit.
2 The use of a tripod is recommended.
   Long hours of recording while holding the unit in your hands will cause the temperature of the unit to rise.
3 It is better to leave the terminal cover open while recording.
   However, the waterproof, dust-proof and shockproof features do not function in this condition. Do take note of the environment when using the camera. (Do not use a wet towel.)
4 Make sure to turn off the power when you are not recording.
   When the LCD monitor is closed, the unit turns off.

During charging
It is recommended to charge the unit in a low humidity environment.
The moist air inside the unit can cause condensation.
We recommend that you charge the unit in a room where humidifier is not in use, and in an air-conditioned room during summer.
**SD Card**

**Cannot insert the SD card.**

Make sure not to insert the SD card in the wrong direction.  
"Inserting an SD Card" (☞ p. 9)

Do not use a miniSD card or microSD card on this unit (even if the card is inserted in an adapter). It may cause malfunction.  
"Types of Usable SD Card" (☞ p. 9)

**Unable to copy to SD card.**

Set "REC MEDIA FOR VIDEO"/"REC MEDIA FOR IMAGE" to SD card.  
" REC MEDIA FOR VIDEO " (☞ p. 86)  
" REC MEDIA FOR IMAGE " (☞ p. 86)

To use a new SD card, or SD card used on other devices, it is necessary to format (initialize) the SD card using "FORMAT SD CARD" from the "SETUP" menu.  
" FORMAT SD CARD " (☞ p. 86)

When "CHECK CARD'S WRITE PROTECTION SWITCH" appears, release the lock on the SD card.

---

**Playback**

**Sound or video is interrupted.**

Sometimes playback is interrupted at the connecting section between two scenes. This is not a malfunction.

**There is no sound.**

When the Silent mode is used, operation sounds will not be output. Turn off the Silent mode.  
"Using the Silent Mode" (☞ p. 22)

Set "OPERATION SOUND" in the "SETUP" menu to "ON".  
" OPERATION SOUND " (☞ p. 85)

Audio sound is not recorded for videos taken in TIME-LAPSE RECORDING.  
"Recording at Intervals (TIME-LAPSE RECORDING)" (☞ p. 41)

**The same image is displayed for a long time.**

Use a high speed SD card (Class 4 or higher).  
"Types of Usable SD Card" (☞ p. 9)

Clean the terminals of the SD card with a dry cotton swab or something similar.  
Execute "FORMAT SD CARD" in the "SETUP" menu. (All data will be deleted.)  
" FORMAT SD CARD " (☞ p. 86)

**The motion is choppy.**

Use a high speed SD card (Class 4 or higher).  
"Types of Usable SD Card" (☞ p. 9)

Clean the terminals of the SD card with a dry cotton swab or something similar.  
Execute "FORMAT SD CARD" in the "SETUP" menu. (All data will be deleted.)  
" FORMAT SD CARD " (☞ p. 86)

**Cannot find a recorded file.**

Change the playback media by tapping ◈ ◈ on the touch screen.  
"Operation Buttons for Video Playback" (☞ p. 51)

"Operation Buttons for Still Image Playback" (☞ p. 57)

Select "PLAYBACK OTHER FILE" in the menu. (Video files that have damaged management information can be played back.)  
" PLAYBACK OTHER FILE " (☞ p. 56)

**Images do not appear on the TV properly.**

Disconnect the cable and connect again.  
"Connecting via the HDMI Mini Connector" (☞ p. 59)

Reset this unit.  
"Resetting this Unit" (☞ p. 95)

**Images are projected vertically on the TV.**

Set "VIDEO OUTPUT" in the "CONNECTION SETTINGS" menu to "4:3".  
" VIDEO OUTPUT " (☞ p. 87)

Adjust the TV's screen accordingly.

**The image displayed on TV is too small.**

Set "VIDEO OUTPUT" in the "CONNECTION SETTINGS" menu to "16:9".  
" VIDEO OUTPUT " (☞ p. 87)

**When connected to the TV via the HDMI mini cable, proper images and sounds are not output.**

Images and sounds may not be output properly depending on the TV connected. In such cases, perform the following operations.  
1 Disconnect the HDMI mini cable and connect it again.  
"Connecting via the HDMI Mini Connector" (☞ p. 59)

**When connected to the TV via the HDMI mini cable, displays such as buttons on the screen are slow to appear.**

Depending on the type of TV connected, this symptom is normal and not a malfunction.

---

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## Troubleshooting

### Editing/Copying

**Unable to delete file.**
Files (videos/still images) that are protected cannot be deleted. Release protection before deleting the file.
"Protecting Files" (⇒ p. 63)

**Unable to copy to SD card.**
If the SD card is write protected, set it to off.

**BACK-UP menu does not disappear.**
While the USB cable is connected, the "BACK UP" menu is displayed.

### Computer

**I am using a Mac computer.**
Load the files to a Mac computer using the following method.
"Copying to Mac Computer" (⇒ p. 71)

**The computer cannot recognize the SDXC card.**
Confirm and update the OS of your computer.
"When your computer cannot recognize the SDXC card" (⇒ p. 10)
Troubleshooting

Screen/Image

The LCD monitor is difficult to see.
The LCD monitor may be difficult to see if used in bright areas such as under direct sunlight.

Color and brightness of the screen changes and horizontal stripes and flickers appear on screen
For images recorded under lighting from fluorescent or mercury lamps, the color and brightness of the screen may change and horizontal stripes and flickers may appear on the screen, but this is not a malfunction.
If the image stabilizer has been set to "ON (AIS)", switch to "ON" to improve the condition.

"Reducing Camera Shake" (☞ p. 40)

A band or a ball of bright light appears on the LCD monitor.
Change the direction of this unit to prevent the light source from coming into view.
(A band or a ball of bright light may appear when there is a bright light source near this unit, but this is not a malfunction.)

Other Problems

The buttons on the touch screen do not work.
Tap the buttons on the touch screen with your fingers.
The buttons may not respond if you touch them with your fingernails or with gloves on.
Disable "SCREEN LOCK". You cannot operate the touch panel when "SCREEN LOCK" is enabled.
"Locking the Screen" (☞ p. 33)

Save the recorded data before requesting service.
1 Connect to computer using a USB cable.
The "SELECT DEVICE" menu appears.
2 Press and hold the START/STOP button for more than 2 seconds.
The "PLAYBACK ON PC" appears.
3 Operations are to be performed on the computer after the screen switches.

The image is grainy.
When digital zoom is used, the image becomes grainy as it is digitally enlarged.

This unit heats up.
This is not a malfunction. (This unit may become warm when used for a long time.) Stop using the unit if it gets too warm.

The language on the display changed.
It may occur when you connect this unit to a TV with different language setting images and sounds are not output.
When connected to the TV via the HDMI mini cable, proper images and sounds are not output.
Images and sounds may not be output properly depending on the TV connected. In such cases, perform the following operations.
1 Disconnect the HDMI mini cable and connect it again.
2 Turn off and on this unit again.
"Connecting via the HDMI Mini Connector" (☞ p. 59)

HDMI-CEC functions do not work properly, and the TV does not work in conjunction with this unit.
TVs may operate differently depending on the specifications, even if they are HDMI-CEC compliant. Therefore, the HDMI-CEC functions of this unit cannot be guaranteed to operate in combination with all the TVs. In such cases, set "HDMI CONTROL" to "OFF".
"HDMI CONTROL" (☞ p. 87)

The unit operates slowly when switching between video mode and still image mode, or when switching the power on or off.
It is recommended that you copy all videos and still images onto your computer, and erase the files from this unit. (If there are many recorded files on this unit, it takes time for the unit to respond.)

This unit does not function properly and error messages appear.
This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such a case, close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.
"Resetting this Unit" (☞ p. 5)

CHARGE lamp and POWER/ACCESS lamp are blinking and operation is disabled
Close the monitor screen to turn off the power and remove the AC adapter, then press the Reset button to reset this unit.
"Resetting this Unit" (☞ p. 5)
If these operations won’t solve the problem, contact your Canon dealer or the Canon service center.

The recorded subject is too dark.
Use backlight compensation when the background is bright and the subject is dark.
"Setting Backlight Compensation" (☞ p. 30)
Use "LIGHT" in the menu.
Use "GAIN UP" in the menu.
* GAIN UP* (☞ p. 74)
Set "BRIGHTNESS ADJUST" in the recording menu to the "+" side.
"Adjusting Brightness" (☞ p. 29)

The recorded subject is too bright.
Set the backlight compensation to "OFF" if it is being used.
"Setting Backlight Compensation" (☞ p. 30)
Set "BRIGHTNESS ADJUST" in the recording menu to the "-" side.
"Adjusting Brightness" (☞ p. 29)

The recorded subject is too dark.
Use backlight compensation when the subject is dark.
"Setting Backlight Compensation" (☞ p. 30)
Use "LIGHT" in the menu.
Use "GAIN UP" in the menu.
* GAIN UP* (☞ p. 74)
Set "BRIGHTNESS ADJUST" in the recording menu to the "+" side.
"Adjusting Brightness" (☞ p. 29)

The color looks strange. (Too bluish, too reddish, etc.)
Wait for a while until natural colors are achieved. (It may take some time for white balance to be adjusted.)
Set "WHITE BALANCE" in the recording menu to "MANUAL". Select from "FINE"/"CLOUD"/"HALOGEN" according to the light source. Select "MWB" and adjust accordingly.
"Setting White Balance" (☞ p. 31)

The color looks different.
Set "WHITE BALANCE" in the recording menu accordingly.
"Setting White Balance" (☞ p. 31)

There are bright or dark spots on the screen.
While the LCD monitor screen has more than 99.99% effective pixels, 0.01% of the pixels may be bright spots (red, blue, green) or dark spots. This is not a malfunction. The spots will not be recorded.

The image on the display is flickering.
While the LCD monitor screen has more than 99.99% effective pixels, 0.01% stripes and flickers appear on screen.
The LCD monitor may be difficult to see if used in bright areas such as under a band or a ball of bright light appears on the LCD monitor.

Wait for a while until natural colors are achieved. (It may take some time for color and brightness of the screen may change and horizontal stripes and flickers may appear on the screen, but this is not a malfunction.
"Reducing Camera Shake" (☞ p. 40)

"Adjusting Brightness" (☞ p. 30)
"Setting Backlight Compensation" (☞ p. 30)
Use "LIGHT" in the menu.
Use "GAIN UP" in the menu.
* GAIN UP* (☞ p. 74)
Set "BRIGHTNESS ADJUST" in the recording menu to the "+" side.
"Adjusting Brightness" (☞ p. 29)

Other Problems

The color looks strange. (Too bluish, too reddish, etc.)
Wait for a while until natural colors are achieved. (It may take some time for white balance to be adjusted.)
Set "WHITE BALANCE" in the recording menu to "MANUAL". Select from "FINE"/"CLOUD"/"HALOGEN" according to the light source. Select "MWB" and adjust accordingly.
"Setting White Balance" (☞ p. 31)

The color looks different.
Set "WHITE BALANCE" in the recording menu accordingly.
"Setting White Balance" (☞ p. 31)

There are bright or dark spots on the screen.
While the LCD monitor screen has more than 99.99% effective pixels, 0.01% of the pixels may be bright spots (red, blue, green) or dark spots. This is not a malfunction. The spots will not be recorded.
Disclaimer
- We shall not be held responsible for loss of recorded contents when recording videos/audio or playback cannot be operated due to malfunctions in this unit, provided parts, or SD card.
- Once deleted, recorded contents (data), including data loss due to malfunctions in this unit, cannot be restored. Please be forewarned.
- Canon will not be responsible for any lost data. Please be forewarned.
- In order for quality improvement, defective recording medium is subject to be analyzed. Therefore, it may not be returned.

Error Message?

SET DATE/TIME!
The clock is reset about one month after the battery is depleted. Therefore, “SET DATE/TIME!” will appear the next time the power is turned on. Set the clock again after charging the battery.
“Clock Setting” (p. 15)

COMMUNICATION ERROR
Reconnect the USB cable.
Turn off and on the devices connected to this unit, and reset this unit.
“Resetting this Unit” (p. 95)

FORMAT ERROR!
Check the operating procedure, and perform once again.
Reset this unit.
“Resetting this Unit” (p. 95)

ERROR IN BUILT-IN MEMORY!
Reset this unit.
“Resetting this Unit” (p. 95)
If the above does not solve the problem, back up your files and execute “FORMAT BUILT-IN MEM.” in the “SETUP” menu. (All data will be deleted.)
“FORMAT BUILT-IN MEM.” (p. 86)

MEMORY CARD ERROR!
Check that the card is supported by this unit.
“Types of Usable SD Card” (p. 9)
Reset this unit.
“Resetting this Unit” (p. 95)
If the above does not solve the problem, back up your files and execute “FORMAT SD CARD” in the “SETUP” menu. (All data will be deleted.)
“FORMAT SD CARD” (p. 86)

NOT FORMATTED
Select “OK”, then select “YES” on the “DO YOU WANT TO FORMAT?” screen.

RECORDING FAILURE
Reset this unit.
“Resetting this Unit” (p. 95)

CANNOT TAKE MORE STILL IMAGES AT THIS TIME
Stop video recording before taking still images. (If the SD card is removed and inserted during video recording, still images cannot be recorded.)

PLAYBACK FAILED
Remove and re-insert the SD card.
“Inserting an SD Card” (p. 9)
Remove any dirt from the SD card terminals.
Insert the SD card before turning on the power.
Do not subject this unit to any strong impact or vibration.
**Troubleshooting**

**UNSUPPORTED SCENE!**
Use files recorded with this unit. (Files recorded with other devices may not be playable.)

**UNSUPPORTED FILE!**
Use files recorded with this unit. (Files recorded with other devices may not be playable.)

**THIS FILE IS PROTECTED**
Switch off the "PROTECT/CANCEL" function in the "EDIT" menu.
"Protecting Files" (※ p. 63)

**CHECK CARD’S WRITE PROTECTION SWITCH**
Set the write protect switch of the SD card to off.

**INSUFFICIENT AVAILABLE SPACE**
Delete files, or move files to a computer or other devices.
Replace the SD card with a new one.
Seamless videos cannot be combined if there is not enough free space in the built-in memory or SD card. Check the amount of remaining free space before combining.

**RECORDABLE MANAGEMENT CAPACITY LEVEL HAS BEEN REACHED**
1. Move the files or folders to a computer or other device. (Back up your files.)
2. Select "FILE + MANAGEMENT NO" in "FORMAT BUILT-IN MEM." or "FORMAT SD CARD" of the "SETUP" menu. (All data on the built-in memory or SD card will be deleted.)
   "FORMAT BUILT-IN MEM." (※ p. 86)
   "FORMAT SD CARD" (※ p. 86)

**SCENE QUANTITY EXCEEDED LIMIT**
1. Move the files or folders to a computer or other device. (Back up your files.)
2. Select "FILE + MANAGEMENT NO" in "FORMAT BUILT-IN MEM." or "FORMAT SD CARD" of the "SETUP" menu. (All data on the built-in memory or SD card will be deleted.)
   "FORMAT BUILT-IN MEM." (※ p. 86)
   "FORMAT SD CARD" (※ p. 86)

**NUMBER OF FOLDERS OVERFLOW**
1. Move the files or folders to a computer or other device. (Back up your files.)
2. Select "FILE + MANAGEMENT NO" in "FORMAT BUILT-IN MEM." or "FORMAT SD CARD" of the "SETUP" menu. (All data on the built-in memory or SD card will be deleted.)
   "FORMAT BUILT-IN MEM." (※ p. 86)
   "FORMAT SD CARD" (※ p. 86)

**FILE QUANTITY LIMIT EXCEEDED**
1. Move the files or folders to a computer or other device. (Back up your files.)
2. Select "FILE + MANAGEMENT NO" in "FORMAT BUILT-IN MEM." or "FORMAT SD CARD" of the "SETUP" menu. (All data on the built-in memory or SD card will be deleted.)
   "FORMAT BUILT-IN MEM." (※ p. 86)
   "FORMAT SD CARD" (※ p. 86)

**NO FILES**
Change the setting of "REC MEDIA FOR IMAGE" or "REC MEDIA FOR VIDEO" in the "SETUP" menu, and check that files are not recorded to the other media.
"REC MEDIA FOR VIDEO" (※ p. 86)
"REC MEDIA FOR IMAGE" (※ p. 86)

**RECORDING CANCELLED**
Set "REC MEDIA FOR VIDEO" to "SD CARD", then record to an SD card.
"REC MEDIA FOR VIDEO" (※ p. 86)
Reset this unit.
"Reseting this Unit" (※ p. 95)
Protect the unit from vibration and shock.

**DATA RECORDED FILE IS TOO SMALL TO BE SAVED (CONTINUE RECORDING?)**
If time-lapse recording is stopped when the actual recorded time displayed is "0:00:00:17" or less, the video cannot be saved.

**CAMERA TEMPERATURE IS HIGH PLEASE TURN CAMERA OFF TO ALLOW IT TO COOL DOWN PLEASE WAIT**
Turn off the power of this unit, let it cool down before turning on the power again.
Perform regular maintenance of this unit to enable it to be used for a long time.

**Caution:**
- Be sure to detach the AC adapter and power plug before performing any maintenance.

### Camcorder
- Wipe this unit with a dry, soft cloth to remove any dirt.
- When it is extremely dirty, soak the cloth in a solution of neutral detergent, wipe the body with it, and then use a clean cloth to remove the detergent.

**Caution:**
- Do not use solvents such as benzene, thinner, or alcohol. Doing so may cause damage to the unit.
- When using a chemical cloth or cleaner, be sure to observe the warning labels and instructions of the product.
- Do not leave the device in contact with rubber or plastic products for a long time.

### Lens/LCD Monitor
- Use a lens blower (commercially available) to remove any dust, and a cleaning cloth (commercially available) to wipe off any dirt. Mold may form if the lens is left dirty.
- You can use a commercially available anti-reflection or protective film on the screen. However, depending on the thickness of the film, operations on the touch screen may not be performed smoothly or the screen may darken slightly.

### After using underwater or on the beach
- For care and cleaning where there is mud or dirt on the camera after using underwater or on the beach, read “Before Using Underwater or under Low Temperature” (p. 6).
### Camera

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Using AC adapter: DC 5.2 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>2.6 W (60i mode, &quot;LIGHT&quot;: &quot;OFF&quot; (VIXIA HF W11), MONITOR BRIGHTNESS: 3 (standard))</td>
</tr>
<tr>
<td></td>
<td>2.8 W (60i mode, &quot;LIGHT&quot;: &quot;OFF&quot; (VIXIA HF W11), MONITOR BRIGHTNESS: 4 (brighter))</td>
</tr>
<tr>
<td>Rating Current Consumption</td>
<td>1A</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>60 x 59.5 x 128 (2-3/8&quot; x 2-3/8&quot; x 5-1/16&quot;) (W x H x D: excluding grip belt)</td>
</tr>
<tr>
<td>Mass</td>
<td>Approx. 304 g (0.67 lbs) (camera only)</td>
</tr>
<tr>
<td>Operating environment</td>
<td>Allowable operating temperature: -10 °C to 40 °C</td>
</tr>
<tr>
<td></td>
<td>Allowable storage temperature: -20 °C to 50 °C</td>
</tr>
<tr>
<td></td>
<td>Allowable charging temperature: 10 °C to 35 °C</td>
</tr>
<tr>
<td></td>
<td>Allowable relative humidity: 35 % to 80 %</td>
</tr>
<tr>
<td>Image pickup device</td>
<td>1/5.8” 2,510,000 pixels (CMOS, back-illuminated)</td>
</tr>
<tr>
<td>Recording area (Video)</td>
<td>1,280,000 to 2,290,000 pixels (image stabilizer: off)</td>
</tr>
<tr>
<td>Recording area (Still image)</td>
<td>2,290,000 pixels (16:9)</td>
</tr>
<tr>
<td></td>
<td>1,710,000 pixels (4:3)</td>
</tr>
<tr>
<td>Lens</td>
<td>F1.8 to F6.3</td>
</tr>
<tr>
<td></td>
<td>f= 2.9 mm to 116.0 mm</td>
</tr>
<tr>
<td></td>
<td>35 mm conversion:</td>
</tr>
<tr>
<td></td>
<td>Video</td>
</tr>
<tr>
<td></td>
<td>40.5 mm to 1620 mm (image stabilizer: off)</td>
</tr>
<tr>
<td></td>
<td>Still Image</td>
</tr>
<tr>
<td></td>
<td>40.5 mm to 1620 mm (16:9)</td>
</tr>
<tr>
<td></td>
<td>49.5 mm to 1980 mm (4:3)</td>
</tr>
<tr>
<td>Filter diameter *</td>
<td>37 mm (screw pitch: 0.75 mm)</td>
</tr>
<tr>
<td>Lowest illumination</td>
<td>3 lux</td>
</tr>
<tr>
<td>Zoom (during video recording)</td>
<td>Optical zoom: Up to 40x</td>
</tr>
<tr>
<td></td>
<td>Dynamic zoom: Up to 60x</td>
</tr>
<tr>
<td></td>
<td>Digital zoom: Up to 200x</td>
</tr>
<tr>
<td>Zoom (during still image recording)</td>
<td>Optical zoom: Up to 40x</td>
</tr>
<tr>
<td>LCD monitor</td>
<td>3.0&quot; Wide, 460,000 dots, color LCD</td>
</tr>
<tr>
<td>Recording media</td>
<td>Built-in memory (32 GB: VIXIA HF W11, 8 GB: VIXIA HF W10)</td>
</tr>
<tr>
<td></td>
<td>SD/SDHC/SDXC card (commercially available)</td>
</tr>
<tr>
<td></td>
<td>&quot;Types of Usable SD Card&quot; (= p. 9)</td>
</tr>
</tbody>
</table>

* When a lens filter or conversion lens is attached, vignetting (the screen getting dark, or appearance of shadows) may occur.

### Connectors

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI output connector</td>
<td>HDMI mini connector</td>
</tr>
<tr>
<td>AV output connector</td>
<td>Video output: 1.0 V (p-p), 75 Ω</td>
</tr>
<tr>
<td></td>
<td>Audio output: 300 mV (rms), 1 KΩ</td>
</tr>
<tr>
<td>USB connector</td>
<td>Micro USB Type B, USB 2.0 compliant</td>
</tr>
</tbody>
</table>

### Video

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording/Playback format</td>
<td>AVCHD standard</td>
</tr>
<tr>
<td></td>
<td>Video: MPEG-4 AVC/H.264</td>
</tr>
<tr>
<td></td>
<td>Audio: Dolby Digital 2ch</td>
</tr>
<tr>
<td>Extension</td>
<td>.MTS</td>
</tr>
<tr>
<td>Signal system</td>
<td>NTSC standard</td>
</tr>
<tr>
<td>Video Quality (Recording pixel count/Recording bit rate)</td>
<td>UXP</td>
</tr>
<tr>
<td></td>
<td>1920 pixels x 1080 pixels</td>
</tr>
<tr>
<td></td>
<td>Average Approximate 24 Mbps</td>
</tr>
<tr>
<td></td>
<td>XP</td>
</tr>
<tr>
<td></td>
<td>1920 pixels x 1080 pixels</td>
</tr>
<tr>
<td></td>
<td>Average Approximate 17 Mbps</td>
</tr>
<tr>
<td></td>
<td>EP</td>
</tr>
<tr>
<td></td>
<td>1920 pixels x 1080 pixels</td>
</tr>
<tr>
<td></td>
<td>Average Approximate 4.8 Mbps</td>
</tr>
<tr>
<td></td>
<td>60p</td>
</tr>
<tr>
<td></td>
<td>1920 pixels x 1080 pixels</td>
</tr>
<tr>
<td></td>
<td>Max 28 Mbps</td>
</tr>
<tr>
<td>Sound quality (Audio)</td>
<td>48 kHz, 256 kbps</td>
</tr>
</tbody>
</table>

### Still Image

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording format</td>
<td>JPEG standard</td>
</tr>
<tr>
<td>Extension</td>
<td>.JPG</td>
</tr>
<tr>
<td>Image Size (Recording pixel count)</td>
<td>(16:9 aspect ratio)</td>
</tr>
<tr>
<td></td>
<td>1920 pixels x 1080 pixels (2M)</td>
</tr>
<tr>
<td></td>
<td>1440 pixels x 1080 pixels (1.5M)</td>
</tr>
<tr>
<td></td>
<td>640 pixels x 480 pixels (0.3M)</td>
</tr>
<tr>
<td></td>
<td>*Approximate Number of Still Images (Unit: Number of Shots)” (= p. 49)</td>
</tr>
</tbody>
</table>
## Specifications

### AC Adapter (AC-V11U)

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 110 V to 240 V, 50 Hz/60 Hz</td>
</tr>
<tr>
<td>Output</td>
<td>DC 5.2 V, 1 A</td>
</tr>
<tr>
<td>Allowable operating</td>
<td>0°C to 40°C (32°F to 104°F) (10°C to 35°C (50°F to 95°F) during charging)</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>66 x 28 x 47 (2-5/8&quot; x 1-1/8&quot; x 1-7/8&quot;) (W x H x D: excluding cord and AC plug)</td>
</tr>
<tr>
<td>Mass</td>
<td>Approx. 71 g (0.16 lbs)</td>
</tr>
</tbody>
</table>

**Memo:**
- The specifications and appearance of this product are subject to changes for further improvement without prior notice.
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CANON CONSUMER DIGITAL VIDEO EQUIPMENT LIMITED WARRANTY FOR THE UNITED STATES

The limited warranty set forth below is given by Canon U.S.A., Inc. (“Canon USA”) with respect to Canon Consumer Digital Video Equipment (the “Equipment”) purchased in the United States, and packaged with this Limited Warranty. This Limited Warranty is only effective upon presentation of your Bill of Sale or other proof of purchase. The Equipment is warranted under normal, non-commercial, personal use, against defective materials or workmanship as follows:

Parts: Defective parts will be exchanged for new parts or comparable rebuilt parts for a period of ONE YEAR from the date of original purchase, except for a defective Video Head, which will be exchanged for a period of three months from the date of purchase.

Labor: For a period of ONE YEAR from the date of original purchase, labor will be provided free of charge by our factory service centers or designated service facilities located in the United States. When returning Equipment under this warranty, you must pre-pay the shipping charges, and you must enclose the Bill of Sale or other proof of purchase with a complete explanation of the problem. During the ONE-YEAR warranty period, repairs will be made and the Equipment will be return-shipped to you free of charge. For repairs after the warranty period is over, you will be given an estimate of the cost of repair and an opportunity to approve or disapprove of the repair expense before it is incurred. If you approve, repairs will be made and the Equipment will be return-shipped to you. (shipping charges apply). If you disapprove, we will return-ship the Equipment at no charge to you.

Non-Canon brand peripheral equipment and software which may be distributed with, or factory loaded on, the Equipment, are sold “AS IS” without warranty of any kind by Canon USA, including any implied warranty regarding merchantability or fitness for a particular purpose. The sole warranty with respect to such non-Canon brand items is given by the manufacturer or producer thereof. If the Equipment contains a hard disk drive, Canon USA recommends that data stored on that drive be duplicated or backed up to prevent its loss in the event of failure or other malfunction of such drive.

Canon USA shall have no responsibility under this Limited Warranty for use of the Equipment in conjunction with incompatible peripheral equipment and incompatible software. In order to obtain warranty service, contact the authorized Canon retail dealer from whom you purchased the Equipment or call the CANON INFORMATION CENTER AT 1-800-OK-CANON. You will be directed to the nearest service facility for your Equipment. This Limited Warranty covers all defects encountered in normal use of the Equipment and does not apply in the following cases:

1. Loss or damage to the Equipment due to abuse, mishandling, accident, improper maintenance, or failure to follow operating instructions;
2. If the Equipment is defective as a result of leaking batteries, sand, dirt or water damage (except as otherwise contemplated by the instruction manual);
3. If defects or damages are caused by the use of unauthorized parts or by service other than by Canon USA’s factory service centers or authorized service facilities;
4. If the Equipment is used for commercial or industrial use.
5. Use of accessories, attachments, products, supplies, parts or devices with the Equipment that do not conform to Canon specifications or that cause abnormally frequent service calls.

This Limited Warranty does not cover cabinet (exterior finish), video cassette tape, head cleanings, nor does it apply to Equipment purchased outside the United States. This warranty does not cover units sold to rental firms, military operations, hotels, schools, hospitals or for other commercial, industrial, or institutional applications. These uses are covered only by such specific warranty as Canon may issue with such sales. This Limited Warranty does not apply to accessories or consumables for the Equipment, which are sold “AS IS”, without warranty of any kind by Canon USA.

Please retain this warranty card and your Bill of Sale as a permanent record of your purchase. This card is most important in order to be sure you are contacted right away should there be a safety inspection, modi-ﬁcation or product recall under applicable laws or regulations.

NO IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE APPLIES TO THIS EQUIPMENT AFTER THE APPLICABLE PERIOD OF EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS EQUIPMENT SHALL BIND THE UNDERSIGNED (SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU). CANON USA SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR CORRUPTION OF DATA, INCLUDING WITHOUT LIMITATION, LOSS OR CORRUPTION OF DATA STORED ON THE EQUIPMENT’S HARD DRIVE, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THE EQUIPMENT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF CANON USA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST CANON USA BE GREATER THAN THE PURCHASE PRICE OF THE EQUIPMENT SOLD BY CANON USA AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE, MISUSE OR INABILITY TO USE THE EQUIPMENT NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF CANON USA. (SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU). THIS WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS EQUIPMENT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT.

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

CANON U.S.A., INC.
CANON CONSUMER DIGITAL VIDEO EQUIPMENT LIMITED WARRANTY FOR PRODUCTS PURCHASED IN CANADA

The limited warranty set forth below is given by Canon Canada Inc. ("Canon Canada") with respect to Canon Consumer Digital Video Equipment (the "Equipment") packaged with this limited warranty and purchased in Canada. This limited warranty is only effective upon presentation of your Bill of Sale or other proof of purchase. The Equipment is warranted to the original end-user purchaser, when delivered in new condition in its original container, under normal use against defective materials or workmanship as follows:

Parts: Defective parts will be exchanged for new parts or comparable rebuilt parts for a period of ONE YEAR from the date of original purchase. Labor: For a period of ONE YEAR from the date of original purchase, labor will be provided free of charge by Canon Canada’s factory service center or designated service facilities located in Canada.

When returning Equipment under this warranty, you must pre-pay the shipping charges, and you must enclose a copy of the Bill of Sale or other proof of purchase with a complete explanation of the problem. During the ONE-YEAR warranty period, repairs will be made and the Equipment will be return-shipped to you free of charge. For repairs after the warranty period is over, you will be given an estimate of the cost of repair and an opportunity to approve or disapprove of the repair expense before it is incurred. If you approve, repairs will be made and the Equipment will be returned to you at your risk and expense. If you disapprove, we will return-ship the Equipment to you at no charge to you to an address within Canada.

This limited warranty only applies if the Equipment is used in conjunction with compatible computer equipment and compatible software, as to which items Canon Canada will have no responsibility. Canon Canada shall have no responsibility under this limited warranty for use of the Equipment in conjunction with incompatible peripheral equipment and/or incompatible software. Non-Canon brand peripheral equipment and software which may be distributed with, or factory loaded on, the Equipment, are sold "AS IS" without warranty of any kind by Canon Canada, including any implied warranty of merchantability and fitness for a particular purpose. The sole warranty with respect to such non-Canon brand items is given by the manufacturer or producer thereof. If the Equipment contains a hard disk drive, Canon Canada recommends that data stored on that drive be duplicated or backed up to prevent its loss in the event of failure or other malfunction of such drive.

In order to obtain warranty service, please contact the authorized Canon retail dealer from whom you purchased the Equipment or contact the CANON SERVICE CENTRE 1-800-667-2668 or on the Internet at www.canon.ca/support. You will be directed to the nearest service facility for your Equipment.

This Limited Warranty covers all defects encountered in normal use of the Equipment and does not apply in the following cases:

1. Loss or damage to the Equipment due to abuse, mishandling, accident, improper maintenance, use of non-Canon accessories or failure to follow operating, maintenance or environmental instructions prescribed in Canon Canada’s user’s manual;
2. If the Equipment is defective as a result of leaking batteries, sand, dirt or water damage (except as otherwise contemplated by the instruction manual);
3. If defects or damages are caused by the use of parts or supplies (other than those sold by Canon Canada) that cause damage to the Equipment or that cause abnormally frequent service calls or service problems;
4. If defects or damages are caused by service other than Canon Canada’s factory service centers or authorized service facilities;
5. Any internal modification to product hardware or firmware;
6. Any applicable fee for Maintenance of the Equipment;
7. If the Equipment has had its serial number or dating altered or removed.

This Limited Warranty does not apply to Equipment purchased outside Canada. This Limited Warranty does not apply to accessories or consumables for the Equipment, which are sold "AS IS", without warranty of any kind by Canon Canada. Please retain this warranty card and your Bill of Sale as a permanent record of your purchase. This card ensures that you are contacted promptly should there be a safety inspection, modification or product recall under applicable laws or regulations.

NO IMPLIED WARRANTY OR CONDITION, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE APPLIES TO THIS EQUIPMENT AFTER THE APPLICABLE PERIOD OF EXPRESS WARRANTY OR GUARANTY (EXCEPT AS MENTIONED ABOVE) GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS EQUIPMENT SHALL BIND THE UNDERSIGNED (SOME PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU). CANON CANADA SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR CORRUPTION OF DATA, INCLUDING WITHOUT LIMITATION, LOSS OR CORRUPTION OF DATA STORED ON THE EQUIPMENT’S HARD DRIVE, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THE EQUIPMENT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF CANON CANADA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST CANON CANADA BE GREATER THAN THE PURCHASE PRICE OF THE EQUIPMENT SOLD BY CANON CANADA AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE, MISUSE OR INABILITY TO USE THE EQUIPMENT NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF CANON CANADA (SOME PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU). THIS WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS EQUIPMENT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT.

This warranty gives you specific legal rights, and you may also have other rights which vary from province to province.

CANON CANADA INC.