• Please read the Read This First section (p. 7).
• Please refer to the Software Starter Guide for information on installing the software and downloading images.
• Please also read the printer user guide included with your Canon printer.
This digital camera is designed to perform optimally when used with genuine Canon-brand digital camera accessories (“Canon Brand Accessories”).

You may use non-Canon brand accessories with this digital camera. However, Canon makes no warranties concerning, and is not responsible for damages resulting from, use of non-Canon brand accessories.
### Function Settings

<table>
<thead>
<tr>
<th>Function</th>
<th>Auto</th>
<th>Manual</th>
<th>Stitch Assist</th>
<th>Movie</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF assist Beam</td>
<td>●</td>
<td>●</td>
<td>▲</td>
<td>⚫</td>
<td>p. 63</td>
</tr>
<tr>
<td>Light Metering</td>
<td></td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>p. 50</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>p. 50</td>
</tr>
<tr>
<td>Exposure Compensation</td>
<td>–</td>
<td>●</td>
<td>▲</td>
<td>●</td>
<td>p. 64</td>
</tr>
<tr>
<td>Long Shutter</td>
<td>–</td>
<td>●</td>
<td>▲ (1)</td>
<td>–</td>
<td>p. 65</td>
</tr>
<tr>
<td>White Balance</td>
<td>–</td>
<td>●</td>
<td>▲</td>
<td>●</td>
<td>p. 70</td>
</tr>
<tr>
<td>Photo Effect</td>
<td>–</td>
<td>●</td>
<td>▲</td>
<td>●</td>
<td>p. 70</td>
</tr>
<tr>
<td>ISO Speed</td>
<td>–</td>
<td>●</td>
<td>– (2)</td>
<td>–</td>
<td>p. 71</td>
</tr>
<tr>
<td>Auto Rotate</td>
<td>●</td>
<td>●</td>
<td>▲</td>
<td>–</td>
<td>p. 71</td>
</tr>
</tbody>
</table>

* Default setting.
● Setting available.
▲ Setting can only be selected for the first image.
(Shaded Area): Setting is memorized even when the camera power is shut off.

* With the exception of the [Date/Time], [Language] and [Video System] settings, all other menu settings and changes made with the camera buttons can be reset to the default values in a single operation. (p. 125)

(1) The ISO speed cannot be set to [AUTO].
(2) The ISO speed is automatically set.
Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

About the LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots. This has no effect on the recorded image and does not constitute a malfunction.

Video Format

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 124).

Charging the Date/Time Battery

- The camera has a built-in rechargeable lithium battery that maintains the date, time and other camera settings. This battery recharges when the main battery pack is inserted into the camera. When you first purchase the camera, place a charged battery pack in it or use the AC adapter kit (sold separately) for at least 4 hours to charge the date/time battery. It will charge even when the camera power is set to Off.
- If the Set Date/Time menu appears when the camera power is turned on, it means that the date/time battery charge is depleted. Recharge it as described above.
About This Guide

Conventions Used in the Text

- Icons on the right end of title bars show the applicable operating modes. As in the example below, the mode dial should be set to 0, 0, or 0.

- Using the Self-timer

- White buttons indicate the button that will be pushed in the particular procedure. In the example here, for instance, you should press the MENU button.

- This mark denotes issues that may affect the camera’s operation.

- This mark denotes additional topics that complement the basic operating procedures.

Question? Look Here First

- How do I navigate the Menu?
  Selecting Menus and Settings (p. 37)

- What settings are available under each function?
  and
  Will my settings remain in effect even after I’ve turned the camera off?
  Functions Available in Each Shooting Mode (p. 148)

- How do I go about printing?
  About Printing (p. 90)

- What functions are available through the menu?
  Rec. Menu (p. 118)
  Play Menu (p. 121)
  Set up Menu (p. 123)
# Table of Contents

Items marked with ■ are lists or charts that summarize camera functions or procedures.

## Read This First

| Please Read                              | 7 |
| Safety Precautions                      | 7 |
| Preventing Malfunctions                 | 11 |

## Quick Start Section

| Quick Start Section                     | 12 |

## Components Guide

| Front View                              | 14 |
| Back View                               | 15 |
| Operation Panel                         | 16 |
| Indicators                              | 17 |

## Preparing the Camera

| Charging the Battery Pack               | 18 |
| Installing the Battery Pack             | 20 |
| Installing a CF Card                    | 22 |
| Setting the Date and Time               | 23 |
| Setting the Language                    | 25 |

## Basic Functions

| Turning the Power On/Off                | 26 |
| Switching between Shooting/Replay       | 28 |
| Using the LCD Monitor                   | 29 |
| Using the Viewfinder                    | 33 |
| Pressing the Shutter Button             | 34 |
| Using the Zoom                          | 36 |
| Selecting Menus and Settings            | 37 |
## Table of Contents

### Erasing
- Erasing Single Images ................................................. 87
- Erasing All Images .......................................................... 88
- Formatting CF Cards .......................................................... 89

### Printing
- About Printing .................................................................. 90
- Connecting a Printer ......................................................... 94
- Printing .............................................................................. 97
- Setting the Print Settings (Direct Print function) .......... 99
- Setting the DPOF Print Settings ...................................... 103

### Image Transmission Settings (DPOF Transfer Order)
- Selecting Images for Transferring ................................... 111

### Shooting/Replaying with a TV
- Shooting/Replaying with a TV ...................................... 113

### Downloading Images to a Computer
- Downloading Directly from a CF Card ......................... 114
- Connecting the Camera to a Computer with a USB Cable .................................................. 115

### Lists of Menu Options and Messages
- Rec. Menu ....................................................................... 118
- Play Menu ....................................................................... 121
- Set up Menu ................................................................... 123
- Resetting Settings to Their Default Values ..................... 125
- List of Messages .............................................................. 126
### Appendices
- Using an AC Adapter Kit ................................................. 130
- Using a Car Battery Charger ........................................... 131
- Camera Care and Maintenance ...................................... 132
- Troubleshooting .............................................................. 133

### Specifications
- Specifications ................................................................... 137

### Index
- Index ............................................................................ 143

### List of Functions
- Functions Available in Each Shooting Mode .................... 148
Please Read

Test Shots
Before you try to photograph important subjects, we highly recommend
that you shoot several trial images to confirm that the camera is operating
and being operated correctly. Please note that Canon, its subsidiaries and
affiliates, and its distributors are not liable for any consequential damages
arising from any malfunction of a camera or accessory, including
CompactFlash™ cards, that results in the failure of an image to be recorded
or to be recorded in a format that is machine readable.

Warning Against Copyright Infringement
Please note that Canon digital cameras are intended for personal use and
should never be used in a manner that infringes upon or contravenes
international or domestic copyright laws and regulations. Please be advised
that in certain cases the copying of images from performances, exhibitions, or
commercial properties by means of a camera or other device may contravene
copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations
This camera's warranty is only effective in the country of sale. If a problem
arises while the camera is in use abroad, please convey it back to the country
of sale before proceeding with a warranty claim to a Canon Customer
Support Help Desk.

For Canon Customer Support contacts, please see the Canon
Limited Warranty supplied with your camera.

Safety Precautions

- Before using the camera, please ensure that you read and understand
  the safety precautions described below. Always ensure that the camera
  is operated correctly.
- The safety precautions noted on the following pages are intended to
  instruct you in the safe and correct operation of the camera and its
  accessories to prevent injuries or damage to yourself, other persons
  and equipment.
- In the next few pages, the term "equipment" refers primarily to the
  camera and its power supply accessories, such as the battery charger
  and optional compact power adapter or car battery charger.
Warnings

- Do not aim the camera directly into the sun or at other intense light sources that could injure your eyesight.

- Do not trigger the flash in close proximity to human or animal eyes. Exposure to the intense light produced by the flash may injure eyesight. In particular, remain at least one meter (39 inches) away from infants when using the flash.

- Store this equipment out of the reach of children and infants. Accidental damage to the camera or batteries by a child could result in serious injury. In addition, placement of the strap around the child's neck could result in asphyxiation.

- Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide. Disassembly or alteration may result in high-voltage electrical shock. Internal inspections, alterations and repairs should be conducted by qualified service personnel authorized by your camera distributor or a Canon Customer Support Help Desk.

- To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged. Similarly, never touch internal portions of the equipment that become exposed as a result of damage. There is a risk of high-voltage electrical shock. Please take the first opportunity to consult your camera distributor or the closest Canon Customer Support Help Desk.

- Stop operating the equipment immediately if it emits smoke or noxious fumes. Failure to do so may result in fire or electrical shock. Immediately turn the camera's power off, remove the camera battery and unplug the power cable from the power outlet. Confirm that smoke or fume emissions have ceased. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- Stop operating the equipment if it is dropped or the casing is damaged. Failure to do so may result in fire or electrical shock. Immediately turn the camera's power off, remove the camera battery and unplug the power cable from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
• Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. Do not allow liquids to enter the interior. The camera has not been waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth. If water or other foreign substances enter the interior, immediately turn the camera’s power off and remove the camera battery or unplug the power cable from the power outlet. Continued use of the equipment may result in fire or electrical shock. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

• Do not use substances containing alcohol, benzene, thinners or other flammable substances to clean or maintain the equipment. The use of these substances may lead to fire.

• Remove the power cable on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the electrical outlet and the surrounding area. In dusty, humid or greasy environments, the dust that collects around the plug over long periods of time may become saturated with humidity and short-circuit, leading to fire.

• Do not cut, damage, alter or place heavy items on the power adapter cable. Any of these actions may cause an electrical short circuit, which may lead to fire or electrical shock.

• Do not handle the power cable if your hands are wet. Handling it with wet hands may lead to electrical shock. When unplugging the cable, ensure that you hold the solid portion of the plug. Pulling on the flexible portion of the cable may damage or expose the wire and insulation, creating the potential for fires or electrical shocks.

• Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards. Use only the recommended power accessories.

• Do not place the batteries near a heat source or expose them to direct flame or heat. Neither should you immerse them in water. Such exposure may damage the batteries and lead to the leakage of corrosive liquids, fire, electrical shock, explosion or serious injury.

• Do not attempt to disassemble, alter or apply heat to the batteries. There is serious risk of injury due to an explosion. Immediately flush with water any area of the body - including the eyes and mouth, or clothing - that comes into contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with water and seek medical assistance.
## Read This First

- Avoid dropping or subjecting the batteries to severe impacts that could damage the casings. It could lead to leakage and injury.
- Do not short-circuit the battery terminals with metallic objects, such as key holders. It could lead to overheating, burns and other injuries. Use the supplied terminal cover or battery case to transport or store the battery pack.
- Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects. Contact with the metallic components of other materials in waste containers may lead to fire or explosions. Discard the batteries in specialized waste facilities if available in your area.
- Use of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. Use only recommended batteries and accessories.
- Use the specified battery charger to charge Battery Pack NB-1LH or NB-1L. Use of other chargers may lead to overheating, distortion of the equipment, fire or electrical shock.
- Disconnect the battery charger and compact power adapter from both the camera and the power outlet after recharging and when they are not in use to avoid fire and other hazards. Continuous use over a long period may cause a unit to overheat and distort, resulting in fire.
- The camera terminal of the supplied compact power cord is designed for exclusive use with your camera. Do not use it with other products or batteries. There is a risk of fire and other hazards.

## Cautions

- Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car. Exposure to intense sunlight and heat may cause the batteries to leak, overheat or explode, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing. Ensure that there is good ventilation when using the compact power adapter to charge the battery pack or power the camera.
- Do not store the equipment in humid or dusty areas. Storage in such areas could lead to fire, electrical shock or other damage.
- Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.
• Be careful not to cover the flash with your fingers when shooting. In addition, do not touch the surface of the flash after taking several pictures in rapid succession. Either action could result in burns.

• If your camera is used for prolonged periods, the camera body may become warm. Please take care when operating the camera for extended periods as your hands may experience a burning sensation.

Preventing Malfunctions

Avoid Strong Magnetic Fields

Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

Avoid Condensation Related Problems

Moving the equipment rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces. You can avoid this by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.

If Condensation Forms Inside the Camera

Stop using the camera immediately if you detect condensation. Continued use may damage the equipment. Remove the CF card and battery or Compact Power Adapter (if connected) from the camera and wait until the moisture evaporates completely before resuming use.

Extended Storage

When not using the camera for extended periods of time, remove the battery pack and store the equipment in a safe place. Storing the camera for extended periods with a battery pack installed will run down the battery pack and may damage the camera. Please note, however, that the date, time and other camera settings may reset to the default settings if the battery pack has been removed for more than three weeks. Follow the instructions in this guide to reset the desired settings.
1 Charge the Battery Pack (p. 18).
   Place the battery pack in the battery charger and plug the charger into a power outlet. The charge indicator lights red while charging and changes to green when the battery pack is charged.

2 Install the Battery Pack (p. 20).
   Slide the battery cover open and press the battery lock while you insert the battery pack. Insert the battery pack correctly by aligning the arrows on the camera and battery pack.

3 Install the CF Card (p. 22).
   Slide the lock on the CF card cover to open it and insert the CF card.

4 Set the Mode Switch to (Shooting) (p. 42).

5 Turn on the Power (p. 26).
   Press the ON/OFF Button until the power lamp in the center of the  / / / buttons lights.
13

Focus (p. 34).
Aim the camera and lightly press (halfway) the shutter button. Two beeps will sound when the autofocus is set.

Shoot (p. 35).
Press the shutter button all the way. One beep will sound when the shot is complete.

View the Recorded Image (p. 44).
The recorded image displays for approximately 2 seconds. To continue displaying the image, keep the shutter button pressed or hold the shutter button until you press the SET button and then release both.

To Immediately Delete the Displayed Image
1. Press the button while the image is displayed.
2. Confirm that [Erase] is selected and press the SET button.

Set the date and time if the Set Date/Time menu appears (p. 23).
You can change the language in which menus are displayed (p. 25).
To view the other images you have photographed, refer to the Replaying section (p. 74).
After you finish using the camera, press the ON/OFF Button to shut the power off.
Components Guide

Front View

- Optical Viewfinder Window (p. 33)
- AF-assist Beam (p. 35)
- Red-Eye Reduction Lamp (p. 48)
- Self-timer Lamp (p. 52)
- Microphone
- Flash (p. 47)
- DIGITAL • A/V OUT (Digital Audio/Video Output) Terminal (pp. 95, 96, 113, 115)
- Lens
- Terminal Cover

- The following cables are used to connect the camera to a computer or printer.
  - Computer (p. 115)
    USB Interface Cable IFC-200PCU (supplied with camera)
  - Direct Print Function Compatible Printer (sold separately) (p. 94)
    Direct Interface Cable DIF-200 (supplied with printer)
  - Direct Print Function Compatible Bubble Jet Printer (sold separately) (p. 95)
    Please refer to your Bubble Jet Printer user guide.

Please refer to the System Map supplied with the camera for direct print function compatible printers.
Back View

- Viewfinder (p. 33)
- Lock for the CF Card Slot Cover (p. 22)
- CF Card Slot Cover (p. 22)
- Wrist Strap Mount
  *Attaching the Wrist Strap*
- Battery Cover (p. 20)
- DC Coupler Terminal Cover (p. 130)
- LCD Monitor (p. 29)
- Tripod Socket

* Be careful not to wave the camera about or catch it on other items when dangling it from the wrist strap.
Operation Panel

- **Indicators**
  - **Power Lamp**: Lights when the power is on or transmission preparations are complete when connected to a computer.
  - **ON/OFF Button (p. 26)**
  - **Shutter Button (p. 34)**
  - **Zoom Lever**:<br>  - Shooting: [Telephoto]/[Wide Angle] (p. 36)<br>  - Replay: [Magnify] (p. 75)/[Index] (p. 76)
  - **Mode Switch (p. 42)**
  - **[Light Metering] Button (p. 63)**
  - **[Flash] Button (p. 47)**
  - **[Continuous] Button (p. 51)/[Self-timer] (p. 52)**
  - **[Macro] Button (p. 49)/[Infinity] Button (p. 49)**
  - **[Exposure] Button (p. 64)**/**[White Balance] Button (p. 67)**
  - **[Photo Effects] Button (p. 70)**/**[Single Image Erase] (p. 87) Button**
  - **[Display] Button**
  - **[Menu] Button**
  - **[Set] Button**
  - **[Disp] Button**
  - **[Menu] Button**
  - **[Set] Button**
## Indicators

The indicators light or blink when the ON/OFF Button or shutter button is pressed.

### Upper Indicator

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Ready to shoot / Connection preparations complete (during a computer connection)</td>
</tr>
<tr>
<td>Blinking Green</td>
<td>Initializing camera / Recording to CF card / Reading CF card / Erasing from CF card / Transmitting data (during a computer connection)</td>
</tr>
<tr>
<td>Orange</td>
<td>Ready to shoot with slow shutter speed (flash on)</td>
</tr>
<tr>
<td>Blinking Orange</td>
<td>Ready to shoot but shutter speed is slow (camera shake warning)</td>
</tr>
</tbody>
</table>

### Lower Indicator

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Macro mode / Infinity mode / Focus lock (Method 2, p. 58)</td>
</tr>
<tr>
<td>Blinking Yellow</td>
<td>Focusing difficulty (1 beep sounds). Although you can press the shutter button, you are recommended to use the focus lock (p. 58).</td>
</tr>
</tbody>
</table>
Preparing the Camera

Charging the Battery Pack

Use the following procedures to charge the battery pack the first time you use the camera or when the "Change the battery pack" message displays.

Battery charger model names and types vary by region.

- Insert the battery pack all the way into the battery charger as shown and insert the charger’s plug into a power outlet.
- Align the battery pack correctly with the arrows on it and the charger.
- The charge indicator will light red while the battery pack is charging. It will change to green when the charge is complete.
- After charging, unplug the battery charger and remove the battery pack.

- To protect the battery pack and prolong its life, do not charge it for longer than 24 hours continuously.
- Since this is a lithium ion battery pack, you need not completely discharge it before recharging. It can be recharged at any point.
- It takes approximately 130 minutes to fully charge the battery pack from a fully discharged state (based on Canon’s testing standard). Please charge it at an ambient temperature ranging between 5º and 40º C (41º and 104º F).
- Charge times may vary according to the ambient temperature and the battery pack’s charge state.
- See Battery Capacity (p. 139).
- You may hear a noise during charging. This is not a malfunction.
Handling Precautions

- Keep the battery pack terminals (Φ, ⊗) clean at all times. Dirty terminals may cause poor contact between the battery pack and camera. Polish the terminals with a tissue or a dry cloth before charging or using the battery pack.
- Do not rapidly overturn or wave the battery charger around when it contains the battery pack. The battery pack could fly out.
- At low temperatures, battery pack performance may be reduced and the low battery icon may appear earlier than usual. Under these conditions, resuscitate the battery pack by warming it in a pocket immediately before use. However, ensure that there are no metallic items in the pocket that could cause a short circuit, such as a key holder, etc.
- Do not place anything, such as bedclothes, carpets, bedding or cushions, on top of the battery charger while it is charging. Heat will build up and could result in a fire.
- Do not charge batteries other than Battery Pack NB-1LH or NB-1L in this charger.
- The battery pack continues to discharge a minimal portion of its power while installed in the camera, even with the power off, or in the charger. This will shorten battery life.
- Do not allow any metal objects such as keyrings to touch the “+” and “−” terminals (Fig. A), as this can damage the battery pack. To carry the battery pack or store it during periods of disuse, always replace the terminal cover (Fig. B) or place it in the supplied case and store it in a cool, dry place. Recharge it fully before using it again.

- If the performance of the battery pack diminishes substantially even when it is fully charged, its life has been exceeded and it should be replaced.
Preparing the Camera

Installing the Battery Pack

Install Battery Pack NB-1LH (supplied) as shown below. Battery Pack NB-1L (optional) can also be used with the camera.

- Please recharge the battery pack (p. 18) before you use it for the first time.
- Slide the battery cover in the direction of the arrows.
- Press the battery lock while inserting the battery pack all the way in until the lock clicks.
- Insert the battery pack correctly by aligning the arrows on the camera and the battery pack.
- To remove the battery pack, press the battery lock and pull the battery pack out.
- Slide the battery cover closed.

- Do not turn off the power or open the battery cover while the camera’s indicator blinks green. The camera is writing, reading, erasing or transmitting an image to or from the CF card.
- Remove the battery pack when the camera is not in use. Please note, however, that the date, time and other camera settings may reset to the default settings if the battery pack has been removed for more than three weeks.
Preparing the Camera

- Please use an AC Adapter Kit ACK500 (sold separately) for extended use of the camera (p. 130).

Battery Pack Charge

The following icons and messages will display when the battery pack charge is low.

- Battery pack charge is low. Recharge it as soon as possible before it is required for an extended period.
  When the LCD monitor is off, this icon will display when you press the $, $, $, $, DISP or $ button ( mode).

- Battery charge is insufficient to operate the camera. Replace the battery pack immediately.

- See Battery Capacity (p. 139).
Installing a CF Card

Turn the camera power off and insert the CF card with the following procedures.

1. Slide the lock up and open the CF card slot cover.
2. Insert the CF card with its label facing upward until the slot's eject button fully extends. Close the CF card slot cover.
3. To remove the CF card, push the eject button and pull the CF card out.

---

• Since the camera is writing, reading, erasing or transmitting data to or from the CF card when the indicator blinks green, never perform the following actions during this time. It could corrupt the image data.
  - Subject the camera body to vibration or shocks.
  - Turn the camera's power off, or open the battery cover or CF card slot cover.
• Please note that CF cards formatted with other manufacturers' cameras or a computer, or formatted or edited with application programs, may not operate correctly in the camera.
• You are recommended to use CF cards that have been formatted in your camera (p. 89). The card supplied with the camera may be used without further formatting.
Handling Precautions for CF Cards

- CF cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.
- Do not attempt to disassemble or alter a CF card.
- Moving a CF card rapidly between temperature extremes will cause condensation to form in the card and lead to a malfunction. To avoid condensation, place the CF card in a sealed plastic bag before moving it into a different temperature zone and allow it to adjust slowly to the new temperature. If condensation forms on the CF card, store it at room temperature until the water droplets have evaporated naturally.
- Do not use or store CF cards in the following types of location.
  - Locations subject to dust or sand
  - Locations subject to high humidity and high temperatures

Setting the Date and Time

The Set Date/Time menu will appear the first time the camera power is turned on or whenever the built-in rechargeable lithium battery charge is low. Start from Step 3 to set the date and time.

1. Press the ON/OFF Button until the power lamp lights.

2. Press the MENU button to display the Rec. or Play menu.

3. Use the button or button to select the (Set up) menu.

4. Use the or button to select .
Preparing the Camera

- Use the \( \text{ } \) or \( \text{ } \) button to select a field (year, month, day, hour, minute and date format), and the \( \text{ } \) or \( \text{ } \) button to change its value.
- To put the settings into effect, press the \text{SET} button after setting the date format.
- Press the \text{MENU} button to redisplay the Rec. or Play screen.

• Please note that the date and time settings may reset to the default settings if the camera battery has been removed for more than three weeks. Reset them when this occurs.
• Setting the date and time settings does not cause the date/time stamp to appear on images.

• Charging the Date/Time Battery
  - The camera has a built-in rechargeable lithium battery for saving settings such as the date and time. This battery is recharged by the battery pack while it is in the camera. Right after purchasing the camera, leave a charged battery pack in the camera, or plug in AC Adapter Kit ACK500, for about 4 hours to charge the date/time battery. It will charge even when the camera’s power switch is off.
  - If the Set Date/Time menu appears when the camera power is turned on, the date/time battery charge is low. Use the above method to recharge it.
• You can print the date on images (p. 99).
Setting the Language

The language in which menus and messages are displayed can be selected with this function.

1. Press the ON/OFF Button until the power lamp lights.

2. Press the MENU button to display the Rec. or Play menu.

3. Use the  or button to select the (Set up) menu.

4. Use the or button to select a language.

5. Press the MENU button to redisplay the Rec. or Play screen.

- The Language menu can also be displayed in replay mode by holding down the SET button and pressing the MENU button. However, language settings cannot be adjusted while a printer is connected.
Basic Functions

Turning the Power On/Off

- Press the ON/OFF Button until the green power lamp lights.
- The upper indicator beside the viewfinder will blink green.
- The lens will extend when the mode switch is set to the or \( \) position.
- The lens will retract approximately 1 minute after the mode switch is set to \( \) from the or \( \) position.
- The LCD monitor will always turn on when the mode switch is set to \( \) or \( \) position.
- Press the ON/OFF Button again to turn off the power.

- The Set Date/Time menu will appear the first time the camera power is turned on or whenever the charge of the built-in rechargeable lithium date/time battery is low. Reset the date and time when this occurs (p. 23).
- If the power-saving function activates, press the ON/OFF Button to restore power.
• Power-Saving Function
This camera is equipped with a power-saving function. The power will automatically shut down under the following circumstances when this function is set to On. Press the ON/OFF Button to restore power.

Shooting Mode
Powers down approximately 3 minutes after the last control is accessed on the camera. (The LCD monitor automatically turns off 3 minutes after the last control is accessed even if this function is set to Off. Press any button except the ON/OFF Button to turn the LCD monitor back on.)

Replay Mode
Powers down approximately 5 minutes after the last control is accessed on the camera.

Connected to a Printer (optional)
Powers down approximately 5 minutes after the last control is accessed on the camera or something is printed on a connected printer.

Connected to a Computer
A warning message displays on the computer screen approximately 5 minutes after the last control is accessed. Powers down approximately 1 minute later if no control is accessed.

• The power-saving function will not activate while the Communication mode is set to PTP (p. 116).
• The power-saving function will not activate during a slide show.
• The camera’s settings can be changed to turn off the power-saving function (p. 123).
Switching between Shooting/Replay

- **To Shoot Still Images (Shooting Mode)**
  Slide the mode switch to 📸.

- **To Shoot Movies (Movie Mode)**
  Slide the mode switch to 🎥.

- **To Replay Images (Replay Mode)**
  Slide the mode switch to 📼.
  - Recorded images can be printed when a printer (sold separately) is connected (p. 90).
  - Recorded images can be downloaded to and viewed with a computer when it is connected (p. 115).

- The 📸 or 📼 icon displays on the LCD monitor when a connection to a printer is opened.
- The LCD monitor shuts off while a computer is connected.
Using the LCD Monitor

The LCD monitor can be used to compose images while shooting, adjust settings menus and replay images.

- The image in the LCD monitor will darken in strong sunlight or bright light. This does not constitute a malfunction.

**Shooting Mode (_CAPTURE_ or _PLAY_ on the mode switch)**

- The LCD monitor turns on or changes the display mode as follows with each press of the DISP button.

```
Standard (No Information) → Detailed (Information View) → Off
```

- The LCD monitor setting (On or Off) is saved by the camera when the power is turned off so that the same setting is automatically available when the power is turned on again. However, the setting may be lost when the power has been turned off after the “Change the battery pack” message has displayed, while the LCD monitor was on in shooting mode.
- In the _CAPTURE_, _PLAY_ or _SET_ mode, the LCD monitor turns on regardless of its On/Off setting.

- Set the flash to _FLASH_ or affix the camera to a tripod when the upper indicator blinks orange and the camera shake warning icon (_SHOOT_ icon) appears in the LCD monitor after the metering preparations are complete.
Replay Mode (on the mode switch)

- The LCD monitor will turn on when the mode switch is set to the position.
- In replay mode, pressing the DISP button cycles the information view mode each time the button is pressed.

Single Image Replay (p. 74)
Standard ➔ Detailed ➔ No Display

Multi Image Replay (9 Images) (p. 76)
Standard ➔ No Display

Information Displayed on the LCD Monitor

Shooting Mode

In shooting mode, information about the current settings and remaining image capacity will display on the LCD monitor for approximately six seconds when the actions below are taken, regardless of whether the LCD monitor is set to On or Off.

- The power is turned on.
- The DISP, , or button ([ mode) is pressed.
- The camera settings are changed.
- The Set up menu is closed.

While this information is displayed, you may set the flash, continuous mode, self-timer, macro and infinity settings.

- After you press the shutter button and take a shot, the recorded image appears on the LCD monitor for 2 - 10 seconds (1-second increments). It will continue to display if you press the SET button while it is shown on the screen. See Changing the Review Duration (p. 44).
- While a recorded image is displayed on the LCD monitor, you can check the exposure with the graph (see Histogram, p. 32) that shows the distribution of the brightness data. (Press the DISP button if the histogram and other information is not shown) If the exposure requires adjustment, set the exposure compensation and reshoot.
Basic Functions

Information Displayed

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shooting Mode</td>
<td>p. 42</td>
</tr>
<tr>
<td></td>
<td>Exposure Compensation</td>
<td>p. 64</td>
</tr>
<tr>
<td></td>
<td>Long Shutter Mode</td>
<td>p. 45</td>
</tr>
<tr>
<td></td>
<td>White Balance</td>
<td>p. 67</td>
</tr>
<tr>
<td></td>
<td>Photo Effects</td>
<td>p. 70</td>
</tr>
<tr>
<td></td>
<td>Compression</td>
<td>p. 45</td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td>p. 45</td>
</tr>
<tr>
<td></td>
<td>ISO Speed</td>
<td>p. 71</td>
</tr>
<tr>
<td></td>
<td>Auto Rotate</td>
<td>p. 72</td>
</tr>
<tr>
<td></td>
<td>Focus Lock</td>
<td>p. 58</td>
</tr>
<tr>
<td></td>
<td>AE Lock</td>
<td>p. 60</td>
</tr>
<tr>
<td></td>
<td>FE Lock</td>
<td>p. 61</td>
</tr>
<tr>
<td></td>
<td>Flash</td>
<td>p. 47</td>
</tr>
<tr>
<td></td>
<td>Shooting Method</td>
<td>p. 51-52</td>
</tr>
<tr>
<td></td>
<td>Macro/Infinity</td>
<td>p. 49</td>
</tr>
<tr>
<td></td>
<td>Metering Mode</td>
<td>p. 63</td>
</tr>
<tr>
<td></td>
<td>Movie Recording</td>
<td>p. 56</td>
</tr>
<tr>
<td></td>
<td>Digital Zoom</td>
<td>p. 50</td>
</tr>
<tr>
<td></td>
<td>Camera Shake Warning</td>
<td>p. 29</td>
</tr>
<tr>
<td></td>
<td>Low Battery</td>
<td>p. 21</td>
</tr>
</tbody>
</table>

- The icons in the shaded boxes above display regardless of the selected display mode.
- Zoom powers reflect the optical and digital zoom functions in combination. These figures display when the digital zoom is activated.

Replay Mode (Standard Display)
The following information is displayed in standard display mode.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compression</td>
<td>p. 45</td>
</tr>
<tr>
<td></td>
<td>Resolution (still image)</td>
<td>p. 45</td>
</tr>
<tr>
<td></td>
<td>Wave Format Sound</td>
<td>p. 57</td>
</tr>
<tr>
<td></td>
<td>Move</td>
<td>p. 57</td>
</tr>
<tr>
<td></td>
<td>Protection Status</td>
<td>p. 86</td>
</tr>
</tbody>
</table>
Replay Mode (Detailed Display)

In detailed display mode, the following supplementary information is displayed.

- Long Shutter Mode (p. 65)
- Shooting Mode (p. 42)
- Exposure Compensation (p. 64)
- White Balance (p. 67)
- Photo Effects (p. 70)
- ISO Speed (p. 71)
- Flash (p. 67)
- Macro/Infinity (p. 69)
- Metering Method (p. 63)
- Resolution (Movie) (p. 45)

Movie Length Shown on Movie Files (p. 56)

The following information may also be displayed with some images.

- A sound file in a format other than the WAV format is attached or the file format is not recognized.
- JPEG file with format not conforming to Design rule for Camera File System Standards
- RAW format file
- File with unrecognized format

- The image information may not display correctly if images shot with this camera are replayed on other cameras or images from other cameras are replayed on this camera.

**Histogram Function**

The histogram is a graph that allows you to judge the brightness of the recorded image. The greater the bias toward the left, the darker the image. The more it trends to the right, the brighter the image. If the image is dark, adjust the exposure to a positive value. Similarly, adjust the exposure to a negative value to darken a bright image (p. 64).

**Histogram Examples**

- Dark Image
- Balanced Image
- Bright Image
Using the Viewfinder

The optical viewfinder can be used to conserve power by setting the LCD monitor to Off (p. 29) while shooting. The field of vision is approximately 82% at the telephoto end setting.

About the Autofocus Function

This camera employs AiAF (artificial intelligence autofocus) technology which uses a broad metering field to calculate the focal distance with high precision. It delivers a crisp focus even when the photographic subject is slightly off-center. The AiAF function can be turned off so that the autofocus is metered from a fixed AF frame at the center of the field to accommodate difficult shooting conditions (p. 62).

Image Seen in Viewfinder vs. Recorded Image

Please note that the actual image may differ from the image seen in the optical viewfinder due to the physical separation between the viewfinder and lens. This is called the parallax phenomenon and is more noticeable the closer the subject is to the lens. In some cases, portions of images shot up close that appear in the viewfinder will not appear in the recorded image. You are recommended to use the LCD monitor to shoot images up close.
Pressing the Shutter Button

The shutter button features a two-stage action.

Pressing Halfway

Pressing halfway automatically sets the exposure, focus and white balance.

**Indicator Status**

- **Upper Indicator**
  - Green: Metering complete (two beeps sound)
  - Orange: Flash will fire
  - Blinking Orange: Camera shake warning/Insufficient exposure

- **Lower Indicator**
  - Yellow: Macro mode/Infinity mode/Focus lock (Method 2, p. 58)
  - Blinking Yellow: Focusing difficulty* (single beep sounds)

* When the indicator blinks yellow, lock the focus before shooting (p. 58).

- **AF Frame Status (LCD Monitor On)**

  - **AiAF On**
    - Green Frame: Metering complete (AF frame when focus achieved)
    - No Frame: Focusing difficulty

  - **AiAF Off (Center AF Frame)**
    - Green Frame: Metering complete
    - Yellow Frame: Focusing difficulty
Pressing Fully

Pressing the shutter button down fully activates the shutter and causes one shutter sound to sound.

- While the image is being recorded to the CF card, the indicator blinks green.

- AF-assist Beam
  - The AF-assist Beam will sometimes emit when the shutter button is pressed halfway to assist focusing in certain conditions, i.e., dark conditions.
  - The AF-assist Beam can be turned off (p. 119). If animals are your subject, turn off the beam when shooting in the dark to avoid startling them (this may however, make it more difficult for the camera to focus).
Using the Zoom

The zoom can be adjusted from 35 mm to 70 mm in 35 mm film equivalent terms.

Telephoto/Wide Angle
- Press the zoom lever toward \( \times \) to zoom in (telephoto).
- Press the zoom lever toward \( \times \) to zoom out (wide angle).

Digital Zoom
When the LCD monitor is on, you can shoot with a combined optical and digital zoom factor of up to 6.4 (p. 50).

- The digital zoom is unavailable in some modes (p. 148).
- Please note that the image appears grainier, the more the image is digitally zoomed.
Selecting Menus and Settings

Menus are used to adjust shooting and replay settings. The procedures for using menus are shown below. For a complete list of the settings and options, please see Menu Settings and Factory Defaults (p. 40).

1. Press the **MENU** button.

2. Use the **[ or ]** buttons to select the Rec., Play or Set up menu.

3. Use the **[ or ]** buttons to select an option.

4. With some Rec./Set up menu items, the **[ or ]** buttons select the options for the items.

5. With some Play/Set up menu items, a submenu appears after you press the **SET** button.

6. Press the **MENU** button. The menu will close.
Selecting Menus and Settings (Cont'd)

Selecting a Mode

Selecting a Menu

Switching between the Rec., Play and Set up Menus

The menu will appear slightly different in mode.

* The menu will appear slightly different in mode.
See Print Menu Settings (p. 92) for the procedures used with the (Print Order) item in the Play menu.
## Basic Functions

### Menu Settings and Factory Defaults

This chart shows the options and default settings for each menu.

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Available Settings</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (Still images)</td>
<td>2048 x 1536* / 1024 x 768 / 512 x 384</td>
<td>p. 45</td>
</tr>
<tr>
<td>Resolution (Movies)</td>
<td>1600 x 1200 / 640 x 480</td>
<td>p. 45</td>
</tr>
<tr>
<td>Compression</td>
<td>Superfine* / Fine* / Normal</td>
<td>p. 45</td>
</tr>
<tr>
<td>ISO Speed</td>
<td>50* / 100 / 200 / 400 / AUTO</td>
<td>p. 71</td>
</tr>
<tr>
<td>AiAF</td>
<td>On*/OFF</td>
<td>p. 62</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>On*/OFF*</td>
<td>p. 50</td>
</tr>
<tr>
<td>Self-timer</td>
<td>A / S</td>
<td>p. 52</td>
</tr>
<tr>
<td>Image Review</td>
<td>Off/2*-10 sec.</td>
<td>p. 44</td>
</tr>
<tr>
<td>AF-assist Beam</td>
<td>On*/OFF</td>
<td>p. 35, 119</td>
</tr>
<tr>
<td>File No. Reset</td>
<td>On*/OFF*</td>
<td>p. 73</td>
</tr>
<tr>
<td>Auto Rotate</td>
<td>On*/OFF</td>
<td>p. 72</td>
</tr>
<tr>
<td>Long Shutter</td>
<td>On*/OFF*</td>
<td>p. 65</td>
</tr>
<tr>
<td>Protect</td>
<td>Turns image protection On/Off.</td>
<td>p. 86</td>
</tr>
<tr>
<td>Rotate</td>
<td>Rotates the image in the display.</td>
<td>p. 81</td>
</tr>
<tr>
<td>Erase all</td>
<td>Erases all images on the CF card.</td>
<td>p. 88</td>
</tr>
<tr>
<td>Slide Show</td>
<td>Replays selected images in a slide show.</td>
<td>p. 82</td>
</tr>
<tr>
<td>Print Order</td>
<td>Sets the print settings.</td>
<td>p. 92</td>
</tr>
<tr>
<td>Transfer Order</td>
<td>Sets the transfer settings.</td>
<td>p. 111</td>
</tr>
</tbody>
</table>
Basic Functions

- Default setting. Default video system setting varies between regions.
- Some menu items are not available in certain shooting modes.
- With the exception of the [Date/Time], [Language] and [Video System] settings, all the other menu settings and changes made with the camera buttons can be reset to the default values in a single operation (p. 125).

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Available Settings</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beep</td>
<td>On/Off</td>
<td>p. 123</td>
</tr>
<tr>
<td>Power Save</td>
<td>On/Off</td>
<td>p. 27</td>
</tr>
<tr>
<td>Date/Time</td>
<td>Sets the date and time</td>
<td>p. 23</td>
</tr>
<tr>
<td>Format</td>
<td>Formats (initializes) the CF card</td>
<td>p. 89</td>
</tr>
<tr>
<td>Video System</td>
<td>NTSC / PAL</td>
<td>p. 113</td>
</tr>
<tr>
<td>Communication</td>
<td>Normal / PTP</td>
<td>p. 116</td>
</tr>
</tbody>
</table>
Selecting a Shooting Mode

The camera features the following shooting modes.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Most settings are automatically selected by the camera.</td>
</tr>
<tr>
<td>Manual</td>
<td>The exposure compensation, white balance and other settings can be manually selected.</td>
</tr>
<tr>
<td>Stitch Assist</td>
<td>Images are shot in overlapping series to create single panoramic images.</td>
</tr>
<tr>
<td>Movie</td>
<td>Shoots movie clips.</td>
</tr>
</tbody>
</table>

- Some settings selected in each shooting mode are saved when the power is turned off (p. 148).

Selecting the 📸, 📸, 📸 or 📸 mode

1. Use the 📸 or 📸 button to select a shooting mode.
Selecting the mode

In the descriptions of the shooting functions that follow, the icons beside the titles indicate the applicable shooting modes. Before you proceed with Step 1 in each case, set the camera to one of the shooting modes indicated by the icons in the title (p.2).
Reviewing an Image Right after Shooting

Right after a shot is taken, the image appears in the LCD monitor for 2 seconds even if you release the shutter button regardless of whether the LCD monitor is on or off. You can also review it with the following procedures:

- By keeping the shutter button pressed after a shot.
- By pressing the SET button while the image is displayed on the LCD monitor. Press the shutter button halfway to stop displaying it.

You can do the following while the image is displayed.
- Check the image brightness in the histogram (p. 32).
- Erase the image (p. 87).
- Zoom the image in the display (p. 75).

Changing the Review Duration

The default review time is 2 seconds. The review function can be set to Off or changed to any time in the range of 2 to 10 seconds in one-second increments.

1. In the (Rec.) menu, select .

   - See Selecting Menus and Settings (p. 37).
   - Use the or button to select [Off], or a time from [2 sec.] to [10 sec.].
   - With the Off option, the image will not automatically display. However, if you keep the shutter button fully pressed after a shot, the image will display.
   - In the [2 sec.] to [10 sec.] range, the image will continue to display for the specified time even if the shutter button is released. You can display the image for longer than the set duration by keeping the shutter button pressed all the way.
   - Another picture can be taken even while the last is displayed.

2. The display will return to the Rec. screen.
**Changing Resolution / Compression Settings**

You can change the resolution and compression (excluding movies) settings to suit the purpose of the image you are about to shoot.

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Large</td>
<td>2048 x 1536 pixels</td>
</tr>
<tr>
<td>Medium 1</td>
<td>1800 x 1200 pixels</td>
</tr>
<tr>
<td>Medium 2</td>
<td>1024 x 768 pixels</td>
</tr>
<tr>
<td>Small</td>
<td>640 x 480 pixels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compression</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Purpose</strong></td>
</tr>
<tr>
<td>Superfine</td>
<td>High Quality</td>
</tr>
<tr>
<td>Fine</td>
<td>Normal</td>
</tr>
<tr>
<td>Normal</td>
<td>Normal</td>
</tr>
</tbody>
</table>

Movies can be shot with the following resolution.

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480 pixels</td>
<td>- Shoot more images</td>
</tr>
<tr>
<td>320 x 240 pixels</td>
<td>- Shoot more images</td>
</tr>
<tr>
<td>160 x 120 pixels</td>
<td>- Shoot more images</td>
</tr>
</tbody>
</table>
In the (Rec.) menu, select or .

- Use the or button to select an option.

**Resolution (Still Images)**
Select , , , or .

**Resolution (Movies)**
Select , , or .

**Compression**
Select , , or .

- The display will return to the Rec. screen.

- See Functions Available in Each Shooting Mode (p. 148).
- See Image File Sizes (p. 140).
- See CF Cards and Estimated Capacities (p. 140).
Using the Flash

<table>
<thead>
<tr>
<th>Flash Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>The flash fires automatically as required by the light level.</td>
</tr>
<tr>
<td>Red-Eye Reduction Auto</td>
<td>The red-eye reduction lamp fires with each shot, automatically adjusting the intensity to suit lighting levels.</td>
</tr>
<tr>
<td>Flash On</td>
<td>The flash fires with every shot.</td>
</tr>
<tr>
<td>Flash Off</td>
<td>The flash will not fire.</td>
</tr>
<tr>
<td>Slow-Synchro</td>
<td>The flash timing is adjusted to slow shutter speeds. This reduces the chance that the background will be dark when shots are taken at night or in rooms with artificial lighting. The red-eye reduction lamp fires with each shot. Use of a tripod is recommended.</td>
</tr>
</tbody>
</table>

- Setting available
- Can be selected for the first image only.

- Press the $\$ button to cycle through the flash settings.
When you use flash photography at higher ISO speeds, the chances of white streaks appearing in the image increase the closer you approach to the subject.

- **Shooting in Mode**
  Be careful to hold the camera still to avoid camera shake.

- **Shooting in , or Mode**
  Fix the camera to a tripod to shoot in these modes since the shutter speed will be slower than in the Mode. If an image is dark in Mode, reshooting it in Mode will make it brighter.

- **When shooting with the flash, light may reflect off dust particles or insects in the air and appear as white spots or white asterisks on the image. This occurs more frequently with wide-angle shots. This phenomenon is common to digital cameras and does not indicate a malfunction.**

- **Red-Eye Reduction**
  Light reflecting back from eyes can make them appear red when the flash is used in dark areas. Under these conditions, use the red-eye reduction mode. For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp. Even better results can be obtained by shooting with the lens set to a wide angle, increasing the lighting in indoor settings or approaching closer to the subject.

- **The shutter will not activate for approximately 1 second after the red-eye reduction lamp fires in order to improve the effect. If you want a more immediate shutter response, set the flash to , or .**
Shooting Close-Ups/Infinity Shots

- **Macro**
  - Use this mode to record subjects in the range of 10 to 47 cm (3.9 in. to 1.5 ft.) from the lens tip when at wide-angle end and in the range of 27 to 47 cm (10.6 in. to 1.5 ft.) when at the telephoto end setting.

- **Infinity**
  - Use this mode to record landscapes and distant objects. It can also be used for compositions combining both near and distant objects.

- **Image Area in Macro Mode**

<table>
<thead>
<tr>
<th>Distance from Lens to Subject</th>
<th>Image Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephoto End</td>
<td>27 cm (10.6 in.)</td>
</tr>
<tr>
<td>Wide-Angle End</td>
<td>10 cm (3.9 in.)</td>
</tr>
</tbody>
</table>

- Setting available.
- Selectable for first image only.

- Use the LCD monitor to compose close-ups in macro mode since the parallax phenomenon may cause images composed with the optical viewfinder to be off-center. (p. 33)
- The exposure may not be optimal when the flash is used in macro mode in the range of 10 to 27 cm (3.9 to 10.6 in.).
Using the Digital Zoom

When the LCD monitor is on, images can be zoomed to approximately 2.6, 3.2, 4.0, 4.9 or 6.4 times with the combined optical and digital zoom functions.

1. Turn the LCD monitor on.

2. In the (Rec.) menu, select [ ].

   • See Selecting Menus and Settings (p. 37).

   • Use the or button to select [On].

3. The display will return to the Rec. screen.

4. Press the zoom lever toward [ ] until the lens reaches the maximum optical telephoto setting and stops. Press it again to activate the digital zoom and to advance through the settings.

   • Press the button to zoom back out.

   • The combined optical and digital zoom factor displays.

   • The digital zoom cannot be used when the LCD monitor is turned off.

   • Images become coarser the more they are digitally zoomed.
Continuous Shooting

In this mode, the camera shoots continuously at approximately 2 images per second* (Large/Fine, LCD monitor off) while the shutter button is held down. Recording ceases when the shutter button is released.

* This figure reflects standard shooting criteria established by Canon. Actual figures may vary according to the subject and shooting conditions.

- Display

- The interval between shots may lengthen slightly when the camera’s built-in memory fills.
- If the flash is firing, the interval between shots will lengthen to accommodate the flash’s charging requirements.
Shooting

Using the Self-timer

• Display  
• When the shutter button is pressed, the self-timer will activate and the self-timer lamp will blink.

Changing the Self-timer Countdown Time

• See Selecting Menus and Settings (p. 37).

1 In the (Rec.) menu, select 

• Use the  or  button to select [10 sec.] or [2 sec.]
• When [10 sec.] is selected, the self-timer sounds and the blinking gets faster 2 seconds before the shutter activates.
• When [2 sec.] is selected, the self-timer sounds at the same time as the shutter button is pressed. The shutter activates in 2 seconds.

2 • The display will return to the Rec. screen.
Shooting in Stitch Assist Mode

Stitch Assist mode can be used to shoot overlapping images that can later be merged (stitched) to create one panoramic image on a computer.

Framing a Subject

The PhotoStitch program detects the overlapping portions of adjoining images and merges them. When shooting, try to include a distinctive item (landmark) in the overlapping portions.

- Compose each frame so that it overlaps 30 - 50% of the adjoining image. Try to keep the vertical misalignment to less than 10% of the image height.
- Do not include moving items in the overlap.

• To merge the images on a computer, use PhotoStitch, one of the supplied programs.
Shooting

- Do not try to stitch images that include both distant and close items. These items may appear warped or doubled up in the merged image.
- Make the brightness in each image consistent. The final image will appear unnatural if the contrast in brightness is too great.
- To shoot landscapes, swivel (pan) the camera around its own vertical axis.
- To shoot close-ups, slide the camera over the subject, keeping it parallel to the subject as you move it.

Shooting

Images can be shot in two sequences in Stitch Assist mode.

<table>
<thead>
<tr>
<th></th>
<th>Left to right horizontally</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td></td>
</tr>
<tr>
<td>②</td>
<td>Right to left horizontally</td>
</tr>
</tbody>
</table>

1. Select the shooting mode (p. 42).

2. Right to left horizontally

3. Left to right horizontally

- The LCD monitor turns on when the shooting mode is set to ① or ②.

- Shoot the first frame in the sequence.
- The exposure and white balance are set and locked with the first image. Successive images use the same settings.
Compose the second image so that it overlaps a portion of the first and shoot.

Use the or button to check or retake the recorded images.

Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.

Repeat the procedure for additional images. A sequence may contain up to 26 images.

Press the SET button to close Stitch Assist mode.

A custom white balance setting cannot be set in or mode. To use a custom white balance setting, first set it in another shooting mode (p. 68).

The settings for the first image are used to take subsequent images in the sequence.

It is not possible to display images on the TV when shooting in Stitch Assist mode.

See the Functions Available in Each Shooting Mode (p. 148).
Use the movie mode to shoot movie clips. Select a resolution in the (Movie) menu from the \(640 \times 480\), \(320 \times 240\), Default and \(160 \times 120\) options (p. 45).

1. Press the shutter button fully to start recording images and sounds.
2. During shooting the recording time (in seconds) and a red circle appear on the LCD monitor.
3. Press the shutter button again to stop recording.

The maximum length of a movie clip (at approximately 15 frames/sec.) is approximately 30 sec.* (\(640\)), 3 min. (\(320\)) or 3 min. (\(160\)) according to Canon’s testing standard.

* Using an optional Canon FC-256MH CF Card (not sold in some regions)

When using the CF card supplied with the camera, the maximum length is approximately 14 sec.

These times may vary with the subject and shooting conditions. Recording will automatically stop when the maximum is reached or when the CF card runs out of free capacity.

Filming may stop unexpectedly with certain types of CF card (if it is a slow-recording card, if it has been formatted on a different camera or a computer, or if images have been shot and erased repeatedly).

• Press the shutter button fully to start recording images and sounds.
• During shooting the recording time (in seconds) and a red circle appear on the LCD monitor.
• Press the shutter button again to stop recording.
• The maximum length of a movie clip (at approximately 15 frames/sec.) is approximately 30 sec.* (\(640\)), 3 min. (\(320\)) or 3 min. (\(160\)) according to Canon’s testing standard.

* Using an optional Canon FC-256MH CF Card (not sold in some regions)

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These times may vary with the subject and shooting conditions. Recording will automatically stop when the maximum is reached or when the CF card runs out of free capacity.

Filming may stop unexpectedly with certain types of CF card (if it is a slow-recording card, if it has been formatted on a different camera or a computer, or if images have been shot and erased repeatedly).
• You are recommended to use a CF card that has been formatted in your camera to shoot movies (p. 89). The card supplied with the camera may be used without further formatting. In addition, you are recommended to use the optional FC-256MB CF Card (not sold in some regions) to shoot movies with the RE setting.
• Be careful not to touch the microphone while recording.
• The AE, AF, white balance and zoom settings remained fixed for subsequent frames at the values selected for the first frame.
• After a clip is shot, the upper indicator will blink green while the clip is being written to the CF card. You cannot shoot again until the blinking stops.

See the Functions Available in Each Shooting Mode (p. 148).
• Sound is recorded monaurally.
• The shutter sound will not sound when you fully press the shutter button to record a movie clip.
• QuickTime 3.0 or later is required to replay movie files (AVI/Motion JPEG) on a computer. QuickTime (for Windows) is included on the Canon Digital Camera Solution Disk. On the Macintosh platform, this program is generally bundled with Mac OS 8.5 or later operating systems.
Locking the Focus (AF Lock)

It may be difficult to focus on the following types of subjects. Use the focus lock in these situations.
- Subjects with extremely low contrast to the surroundings
- Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subjects through glass: Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

Shooting with the Focus Lock

Method 1
1. Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame in the viewfinder or LCD monitor.
2. Press the shutter button halfway and wait until two beeps sound.
3. Re-aim the camera to compose the shot as desired and press the shutter button all the way.

Method 2
1. Turn the LCD monitor on.
2. Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame.
3. Press and hold the shutter button halfway until two beeps sound. Without releasing your finger, press the button.
4. The icon will display and the lower indicator will light yellow.
Re-aim the camera to compose the shot as desired and press the shutter button all the way.

Release the focus lock by pressing the $\mathbb{Z}$ button.

Method 2 is convenient because you can let go of the shutter button to recompose the image. Moreover, the focus remains locked after the picture is taken, allowing you to capture a second image with the same focus.

In Method 2, pressing the zoom lever, MENU button or DISP button, or changing the shooting mode also releases the focus lock.
Locking the Exposure Setting (AE Lock)

You can set the exposure and focus separately. This is effective when the contrast is too strong between the subject and background or when a subject is backlit.

- You must set the flash to 3. The AE lock cannot be set if the flash fires.

1. Turn on the LCD monitor.
2. Focus the camera on the subject on which you wish to lock the exposure setting.
   - Press the shutter button halfway and wait until two beeps sound.
   - Without releasing your finger, press the 
   - The 

3. Re-aim the camera to compose the shot.
4. To release the AE lock, press the 
5. The AE lock may release if you press any button other than the 
   button.
Locking the Flash Exposure Setting (FE Lock)

You can lock the flash exposure so that the exposure settings are correctly set for a particular portion of your subject.

1. Turn on the LCD monitor.
   • Set the flash to $3$ and focus on the part of the subject on which you wish to lock the flash exposure setting.
2. Press the shutter button halfway and wait until two beeps sound.
   • Without releasing your finger, press the $\square$ button.
   • The flash will fire a pre-flash and lock the flash exposure to the required intensity to illuminate the subject.
   • The $\text{FE}$ icon will display.
3. Re-aim the camera to compose the shot and press the shutter button all the way.
   • To release the FE lock, press the $\square$ button.

- The FE lock may release if you press any button other than the $\square$ button.
Switching between Autofocus Modes

Although the autofocus function is preset to the AiAF setting (nine AF frames), you can set the AF frame to center-point. When center-point is selected, the AF frame will appear in the LCD monitor if it is turned on (p. 29). The AF frame will not appear when AiAF is selected.

<table>
<thead>
<tr>
<th>No frame</th>
<th>On</th>
<th>The camera detects the subject and highlights the AF frames, from 9 available points, that it will use to determine the focus.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Off</td>
<td>The camera focuses using the center AF frame. This is convenient for focusing on a specific part of a subject with greater certainty.</td>
</tr>
</tbody>
</table>

- The symbol represents the AF frames as they appear in the LCD monitor.

- See Selecting Menus and Settings (p. 37).

- Use the or button to select [On] or [Off].

- A shot can be taken immediately after.

- The display will return to the Rec. screen.
Switching between Light Metering Modes

You can switch between metering modes to shoot.

<table>
<thead>
<tr>
<th>Light Metering</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluative Light Metering</td>
<td>Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for light metering. It evaluates the complex lighting conditions, such as the position of the subject, the brightness, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject.</td>
</tr>
<tr>
<td>Spot AE Point</td>
<td>Meters the area within the spot AE point at the center of the LCD monitor. Use this mode when the subject is backlit or surrounded by strong light.</td>
</tr>
</tbody>
</table>

- Display \( \text{AE} \) or \( \text{SP} \).
Adjusting the Exposure Compensation

Adjust the exposure compensation setting to avoid making the subject too dark when it is backlit or shot against a bright background or to avoid making lights appear too bright in night shots.

1. Use the \( \text{ 或 } \) button to adjust the exposure compensation.
2. The settings can be adjusted in ±2 stops in 1/3-stop increments.
3. You can confirm the effect of the exposure compensation setting in the LCD monitor when the LCD monitor is on.
4. A shot can be taken immediately after. The menu will reappear after the shot, allowing you to further adjust the setting.
5. Reset the exposure compensation by returning the setting to 0.
Shooting in Long Shutter Mode

You can set the shutter speed to a slow setting to make dark subjects appear brighter.

1. In the (Rec.) menu, select .
2. Use the or button to select [On].
3. The display will return to the Rec. screen.
4. Use the or button to select the long shutter menu and the or button to select a shutter speed.
5. A shot can be taken immediately after. The menu will reappear after the shot, allowing you to further adjust the setting.
6. While the menu is displayed, press the long shutter mode and finish the procedure.
• The nature of CCD image sensors is such that noise in the recorded image increases at long shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. Nevertheless, a certain amount of processing time may be required before the next image can be shot.

• Use the LCD monitor to confirm that the image was recorded at the desired brightness.
• Use of the flash may result in an over-exposed image. If that occurs, shoot with the flash set to $\mathbb{S}$.
• The following are unavailable:
  - Exposure Compensation
  - Light Metering
  - AE Lock
  - ISO speed [AUTO]
• Available Shutter Speeds
  The following shutter speeds (in seconds) are available.
  1, 1.3, 1.6, 2, 2.5, 3.2, 4, 5, 6, 8, 10, 13, 15
**WB Setting the White Balance**

When the white balance mode is set to match the light source, the camera reproduces colors more accurately.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>The camera sets the white balance automatically according to shooting conditions.</td>
</tr>
<tr>
<td>Daylight</td>
<td>For recording outdoors on a bright day.</td>
</tr>
<tr>
<td>Cloudy</td>
<td>For recording under overcast, shady or twilight skies.</td>
</tr>
<tr>
<td>Tungsten</td>
<td>For recording under tungsten and bulb-type 3-wavelength fluorescent lighting.</td>
</tr>
<tr>
<td>Fluorescent</td>
<td>For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting.</td>
</tr>
<tr>
<td>Fluorescent H</td>
<td>For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting.</td>
</tr>
<tr>
<td>Custom</td>
<td>For setting a custom value with a white sheet of paper, etc., to obtain the optimal white balance for the conditions.</td>
</tr>
</tbody>
</table>

1. Press the **WB** button repeatedly until the White Balance Settings menu displays.
2. Use the * or * button to select a setting. (See the next page for *.)
3. You can confirm the effect of the setting in the LCD monitor when the LCD monitor is on.
4. A shot can be taken immediately after. The menu will reappear after the shot, allowing you to further adjust the setting.

- **Note:** This setting cannot be adjusted when the (Sepia) or (B/W) photo effects are selected.
Setting a Custom White Balance

You can set a custom white balance to obtain the optimal setting for the shooting conditions by having the camera evaluate an object, such as a piece of white paper or cloth, or a photo-quality gray card that you wish to establish as the standard white color.

1. Press the WB button repeatedly until the White Balance Settings menu displays.
2. Use the or button to select .
3. Aim the camera at the white paper, cloth or gray card and press the button.
4. Aim the camera so that the white paper, cloth or gray card completely fills the frame on the LCD monitor or the entire viewfinder before pressing the button. The camera reads the white balance data when you press the button.
5. A shot can be taken immediately after. The menu will reappear after the shot, allowing you to further adjust the setting.
- You are recommended to set the shooting mode to \( \text{A} \) and the exposure compensation setting to zero \((\pm 0)\) before setting a custom white balance. The correct white balance may not be obtained when the exposure setting is incorrect (image appears completely black or white).
- It is also advisable to use the LCD monitor to compose the shot and to zoom in to the telephoto end setting.
- Since the white balance data cannot be read in \( \text{A} \) and \( \text{M} \) mode, preset the white balance in another shooting mode first before selecting the \( \text{A} \) or \( \text{M} \) mode.
- Set the flash on or off when setting a custom white balance. The white balance may not be accurate if the setting conditions and shooting conditions are not the same. If the flash fires when setting a custom white balance with the flash set to \( \text{A} \) or \( \text{M} \), ensure that you also use the flash when you go to shoot.
Changing the Photo Effect

You can shoot with different photo effects.

<table>
<thead>
<tr>
<th>Photo Effect Off</th>
<th>Records with no effect.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vivid</td>
<td>Emphasizes the contrast and color saturation to record bold colors.</td>
</tr>
<tr>
<td>Neutral</td>
<td>Tones down the contrast and color saturation to record neutral hues.</td>
</tr>
<tr>
<td>Low Sharpening</td>
<td>Records subjects with softened outlines.</td>
</tr>
<tr>
<td>Sepia</td>
<td>Records in sepia tones.</td>
</tr>
<tr>
<td>B/W</td>
<td>Records in black and white.</td>
</tr>
</tbody>
</table>

- Press the \( \text{\textcopyright} \) button repeatedly until the Photo Effect Setup menu displays.
- Use the \( \text{\textcopyright} \) or \( \text{\textcopyright} \) button to select [Photo Effect].
- You can confirm the photo effect in the LCD monitor when the LCD monitor is on.
- A shot can be taken immediately after. The menu will reappear after the shot, allowing you to further adjust the setting.
Adjusting the ISO Speed

Adjust the ISO speed when you wish to shoot in a dark area or use a fast shutter speed.

1. In the (Rec.) menu, select .

2. • See Selecting Menus and Settings (p. 37).

• Use the or button to select a setting.

• The display will return to the Rec. screen.

• Higher ISO speeds increase image noise. To take clean images, use as low an ISO speed as possible.

• When AUTO is selected, the camera automatically adjusts the ISO speed within a range equivalent to 50 to 150.
Setting the Auto Rotate Function

Your camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera on end and automatically rotates it to the correct viewing orientation in the display. You can set this function on/off.

1. See Selecting Menus and Settings (p. 37).

2. Use the or button to select [On] or [Off].

3. The display will return to the Rec. screen.

   • When the Auto Rotate function is set to On and the LCD monitor is set to the detailed display mode, the icon (normal), icon (right end is down) or icon (left end is down) will appear in the upper right of the display.

   • When the camera is held on end to shoot, the Intelligent Orientation sensor judges the upper end to be “up” and the lower end to be “down.” It then regulates the optional white balance, exposure and focus for vertical photography. This function operates regardless of the On/Off status of the Auto Rotate function.

   • When changing the camera’s orientation between the horizontal and vertical positions, you may hear noise coming from the orientation detection mechanism. This is not a malfunction.

   • This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].

   • Even if the Auto Rotate function is set to on, the orientation of images downloaded to a computer will depend upon the software used to download the images.
Resetting the File Number

You can select the way file numbers are assigned.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>The file number is reset to the start (100-0001) each time a new CF card is inserted. New images recorded on CF cards with existing files are assigned the next available number.</td>
</tr>
<tr>
<td>Off</td>
<td>The file number of the last image to be shot is memorized so that images recorded to a new CF card start from the next number.</td>
</tr>
</tbody>
</table>

1. In the (Rec.) menu, select  

2. Use the or button to select [On] or [Off].

The display will return to the Rec. screen.

- Setting the File No. Reset to Off is useful for avoiding file name duplication when images are downloaded to a computer.
- **About File Numbers**
  Images are assigned file numbers from 0001 to 9900 and organized in folders generally containing up to 100 images. Folders are assigned numbers from 100 to 998 (a folder with 99 in the last two digits cannot be created). Since images shot in the , or mode are always saved in the same folder, some folders may contain 101 or more images.
Replaying

Displaying Images Individually

1. Turn the mode switch to the \( \text{ } \) position.
2. The last recorded image will appear in the display (single image replay).

3. Use the \( \) button to move to the previous image and the \( \) button to move to the next. Holding the button down advances the images more rapidly, but the images will not appear as clearly.
Magnifying Images

1. Images can be magnified up to approximately 10 times.

2. Use the / / / / buttons to move around the image.
   - Hold the SET button down and press the zoom lever toward to cycle through each setting, from approximately 2.5 times, to approximately 5 and 10 times.
   - Press the zoom lever toward to cease magnifying the image.

- Movie frames and index replayed images cannot be magnified.
**Viewing Images in Sets of Nine (Index Replay)**

1. Up to nine images can be viewed at once in index replay.

   ![Image Set](image.png)

2. Use the / \ / \ buttons to change the image selection.
   - Press the zoom lever toward \ to display the selected image in single image replay.

**Switching between Sets of Nine Images**

1. Successive sets of nine images can be shown in the display.

   ![Image Set](image.png)

2. Use the \ button to move to the previous set and the \ button to move to the next.
   - Hold the SET button down and press the \ or \ button to jump to the first or last set.
   - Press the zoom lever toward \ to return to standard index replay.
Viewing Movies

Movie clips can be replayed with the following procedures.

• Movies cannot be played in the index replay mode.

1. Use the or button to select a movie.
   • Images with a icon are movies.

2. The movie control panel will display.
   • Use the or button to select (Play).

3. The movie images will play.
   • When a movie is finished, it stops and displays its last frame.
Replaying

Fast Forwarding/Rewinding

- Use the or button to select one of the following.
  - Return to Single Image View
  - Play
  - Previous Frame [Rewinds if SET button is held down]
  - Next Frame [Fast Forwards if SET button is held down]
  - First Frame
  - Last Frame
  - Switch to Movie Editing Mode (p. 79)

Pausing and Resuming Play

- Press the SET button to pause the movie. Press it again to resume.

- The sound can also be played when a movie is displayed on a TV (p. 113).

- You may experience frame dropping and audio breakup when replaying a movie on a computer with insufficient system resources.
- Movies shot with other cameras may not replay on this camera. See the List of Messages (p. 126).
Selecting [Edit] in the movie control panel enables you to cut unwanted portions at the start or end of a movie clip.

- Protected movies and movies less than 1 second in duration cannot be edited.

1. Switch to the movie editing mode (p. 78).

2. Use the or button to select (Play).

3. A preview of the temporarily edited movie clip plays. To stop it, press the SET button again.

4. Use the or button to select (Save) to keep the edits (p. 80). If you use the or button to select (Close Movie Editing/Return to Movie Control Panel), the edits are not saved and the editing mode is canceled.
Use the \( \leftarrow \) or \( \rightarrow \) button to select [New File] or [Overwrite].
- [New File] saves the edited movie under a new file name. The pre-edit data is left unchanged.
- [Overwrite] saves the edited movie with its original file name. The pre-edit data is lost.

When the CF card lacks sufficient space to create a new file, only [Overwrite] can be selected. A small \( \uparrow \) symbol will appear in the time display on the movie in that case.

The minimum duration of an edited movie is 1 second.
- It may take approximately 3 minutes to save an edited movie. If the battery pack runs out of charge partway through, edited movie clips cannot be saved. When editing movies, use a fully charged battery pack or the optional AC Adapter Kit ACK500 (P. 130).
Rotating Images in the Display

Images can be rotated clockwise 90° or 270° in the display.

0° (Original)  90°  270°

1. In the (Play) menu, select .

2. Use the or button to select the image to be rotated.

3. Cycle through the 90°/270°/0° orientations with each press of the SET button.

4. Press the MENU button repeatedly until the replay screen reappears to finish the procedure.

- Movies cannot be rotated.
- When images are downloaded to a computer, the orientation of images rotated by the camera will depend upon the software used to download the images.
- Images taken vertically with the Auto Image Rotate (p. 72) set to [On] will automatically be rotated to the vertical position when viewed on the camera’s LCD monitor.
Automated Playback (Slide Shows)

Starting a Slide Show
A selection of images or all the images on a CF card can be displayed one-by-one in an automated slide show.
Slide show image settings are based on DPOF standards (p. 90).

<table>
<thead>
<tr>
<th>All Images</th>
<th>Plays all images on the CF card in order.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide Show 1-3</td>
<td>Plays the images selected for each slide show in order.</td>
</tr>
</tbody>
</table>

1. In the (Play) menu, select .

2. The Slide Show menu will display.

3. Use the or button to select [Program] and the or button to select [All Images], [Show 1], [Show 2] or [Show 3].

4. The slide show will start and automatically stop at the end of the show.

5. Press the MENU button repeatedly until the replay screen reappears to finish the procedure.

- Movies play for their entire recorded length regardless of the time set in the slide show settings.
- The power-saving function does not activate during a slide show (p. 27).

• See Selecting Menus and Settings (p. 37).
Replaying

Pausing/Resuming a Slide Show

- Press the SET button to pause the slide show. Press the SET button again to restart it.

Fast Forwarding/Rewinding a Slide Show

- Use the or button to display the previous or next image. Hold down the button to advance through the images more rapidly.

Stopping a Slide Show

- Press the MENU button to stop the slide show and redisplay the Slide Show menu.

Selecting Images for Slide Shows

You can mark images for inclusion in slide shows 1-3. Up to 998 images may be marked per slide show. Images display in the order of their selection.

- Use the button to select [Program] and the or button to select [Show 1], [Show 2] or [Show 3].
- Use the button and the or button to choose [Select].

Display the Slide Show menu (p. 82).
Replaying

- A white checkmark will appear beside a show already containing images.

- Use the □ or △ button to move between images and the ○ or □ button to select or deselect them. Selected images display a number corresponding to their selection order and a white checkmark.

- You can press the zoom lever toward  to switch to the index mode (3 images) and use the same procedures to select images.

- While in index replay, you can clear all of the images by pressing the SET button, using the ○ or □ button to select [Clear all] and pressing the SET button again.

- Press the MENU button repeatedly until the replay screen reappears to finish the procedure.
Adjusting the Play Time and Repeat Settings

You can change the play time for all the images in a show and have the show repeat continuously.

| Play Time | Sets the duration that each image displays. Choose between 3-10 seconds, 15 seconds, 30 seconds and Manual. |
| Repeat | Sets whether the slide show stops when all the slides have been displayed or continues until stopped. |

1. Display the Slide Show menu (p. 82).
   - Use the or button to select [Set up].

2. Select a play time.
   - Use the or button to select or and the or button to select an option.

   - Press the MENU button repeatedly until the replay screen reappears to finish the procedure.

- The display interval may vary slightly from the set time for some images when played.
- Slide shows are easy to arrange on a computer with the supplied software. See the Software Starter Guide.
Protecting Images

You can protect important images from accidental erasure.

1. In the (Play) menu, select .

2. Use the or button to select an image to protect.

3. Press the SET button to protect the image. Press the SET button again to remove the protection.

4. You can make the selection of images easier by toggling between single image replay and index replay by pressing the zoom lever toward / .

5. Press the MENU button repeatedly until the replay screen reappears to finish the procedure.

- Please note that formatting (initializing) a CF card erases all data, including protected images.
Erasing

Erasing Single Images

- Please note that erased images cannot be recovered. Exercise adequate caution before erasing a file.
- Protected images cannot be erased with this function.

1. Use the \( \uparrow \) or \( \downarrow \) button to select an image for deletion.

2. Use the \( \leftarrow \) or \( \rightarrow \) button to select [Erase].
- To exit instead of erasing, select [Cancel].
Erasing All Images

- Please note that erased images cannot be recovered. Exercise adequate caution before erasing a file.
- Protected images cannot be erased with this function.

1. In the (Play) menu, select Erase all.
2. Use the or button to select [OK].
3. To exit instead of erasing, select [Cancel].

See Selecting Menus and Settings (p. 37).
Formatting CF Cards

New CF cards must be formatted with the following procedures before use.

- Please note that formatting (initializing) a CF card erases all data, including protected images and other file types.
- See Selecting Menus and Settings (p. 37).
- Use the or button to select [OK].
- To exit instead of formatting, select [Cancel].

- When the camera is malfunctioning, a corrupted CF card might be the cause. Reformating the CF card may solve the problem.
- When a non-Canon brand CF card is malfunctioning, reformatting it may solve the problem.
- CF cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera. When that happens, reformat the CF card with this camera. If formatting in the camera doesn’t work properly, turn the camera off and re-insert the CF card. Then turn the camera back on and format again.
About Printing

This camera supports direct printing. By connecting the camera to an optional printer or Bubble Jet printer (sold separately) that supports the camera’s direct print function, you can send the images from the CF card directly to the printer using the camera buttons. In addition, you can have prints made to specification by a photo developing service by sending your CF card with the DPOF (Digital Print Order Format) print settings set in advance on your camera. Please refer to the System Map supplied with your camera for direct print function compatible printer information.

DPOF Print Settings
- Select the images you wish to print (p. 103).
- Set the number of print copies (p. 104).
- Set the print style (p. 106).
  - Standard/Index.
  - Date: On/Off.
  - File Numbers: On/Off.

DPOF Transfer Order
- Select the images to send by email (p. 111)

Software that supports DPOF transfer order settings is required.
Setting Print Settings for Direct Printing

- Setting the Number of Print Copies (p. 99)
- Setting the Print Style (p. 99)
  - Standard/Multiple (Direct Print Function Compatible Printer)
  - Paper: Card #1/Card #2/Card #3/LTR/A4 (Direct Print Function Compatible BJ Printer)
  - Bordered/Borderless
  - Date: On/Off
- Setting the Printing Area (Trimming) (p. 101)

Photo Developing Service
Print Menu Settings
Use the Print menu to set print related settings. The following diagrams illustrate how to use the Print menu.

Direct Print Function
Set the Mode Switch to

DPOF Print Settings
Set the Mode Switch to
Turn the menu On/Off.
Selects items and settings.
Sets items and settings.

Print Type (p. 106)
Date (p. 106)
File No. (p. 106)

Order       Number of Copies (p. 104)
Print Type (p. 106)
Set up       Date (p. 106)
File No. (p. 106)
Reset (p. 108)

Image (p. 99)
Style
Borders (p. 99)
Date (p. 99)
Number of Copies (p. 99)
Trimming (p. 101)
Connecting a Printer

You can make clear prints swiftly and easily when you connect the camera to a direct print function compatible printer (sold separately) or a direct print function compatible BJ printer (sold separately). You can also print using DPOF print settings.

- You are recommended to use the optional AC Adapter Kit ACK500 (sold separately) rather than the battery pack to power the camera when it is connected to a printer. If you do use a battery pack, ensure that it is fully charged and monitor the battery charge while printing.

- Please see the System Map supplied with your camera for the list of direct print function compatible printers.
- Please see your printer's user guide for information about installing paper and ink cassettes/tanks.

Connecting to a Direct Print Function Compatible Printer

Your printer should come equipped with two direct interface cables. To connect to this camera, please use the cable (DIF-200) that has the symbol on its connector.

1. Shut the camera's power off (p. 26).
2. To an Electrical Outlet

- Attach the power cable to the printer and insert its plug into a power outlet.
- You can also power the printer with a rechargeable battery if it is so equipped. Please see your printer’s user guide.
• Attach the direct interface cable to the printer.
• Open the terminal cover on the camera and insert the cable's connector into the camera's DIGITAL • A/V OUT terminal. Orient the cable so that the connector's ▲ symbol faces the camera's front panel.
• Press the printer's ON/OFF button to turn on its power. (If you are using Card Photo Printer CP-10, the printer's power will turn on in Step 2 when printer and power cable are connected.)
• Set the mode switch to the ▲ position and turn on the camera's power.
• ▲ will display when the printer is correctly connected.

Connecting to a Bubble Jet Printer

⚠ Please read the Quick Start Guide supplied with your BJ printer to see if it is compatible with the camera's direct print function, and for instructions regarding the connection cables and the printer's general operation.

Shut the camera's power off (p. 26).
• Turn the BJ printer’s power on after you have connected the power cord to the BJ printer and inserted the other end in a power outlet.
• Attach the interface cable to the BJ printer.
• Open the terminal cover on the camera and insert the cable’s connector into the camera’s DIGITAL • A/V OUT terminal. Orient the cable so that the word Canon on the connector faces the camera’s front panel.
• Set the mode switch to the position and turn on the camera’s power.
• will display when the printer is correctly connected.

- Ensure that you push the [Push] button on the connector to remove the cable from the camera’s DIGITAL • A/V OUT terminal.

- The following cannot be conducted while the printer is connected.
  - Playing movies
  - Setting the language with the SET and the MENU button combination.
- When the printer is disconnected, the or symbol will disappear from the LCD monitor and the camera will revert to the standard replay mode.
Printing

- The following illustrations show examples from a direct print function compatible printer. Options for the Style category will differ slightly for BJ printers.

Print images displayed in single image replay or index replay mode.

- Use the 或 + button to select the images you wish to print.

- Specify the number of print copies, print style and print area as required.
  - Setting the Number of Print Copies (p. 99)
  - Setting the Print Style (p. 99)
  - Setting the Printing Area (Trimming) (p. 101)
- Use the / / / buttons to select [Print].
- To quit the procedure instead, select [Cancel].
- Press the SET button to start printing.
- The replay screen will reappear when printing is successfully concluded.

Movies cannot be printed.
- **Canceling Printing**
  Press the SET button to stop printing. A confirmation message will display. Use the or button to select [OK] and press the SET button.

- **Direct Print Function Compatible Printers**
  A print in progress cannot be stopped. The printer will stop after the current print is complete and the camera will display its replay screen at that point.

- **BJ Printers**
  The printer will stop printing the current image and eject the paper.

- **Printing Errors**
  An error message will display if an error occurs while printing (p. 128, 129). Use the or button to select [Stop] or [Resume] and press the SET button. (With a BJ printer, the print will automatically restart if the error is resolved.)

- **Direct Print Function Compatible Printers**
  The Resume option may not appear with some types of error. In that case, select Stop.

- **BJ Printers**
  The type of error will determine whether the Continue or Stop options appear. An error number will appear on the BJ printer’s operation panel. See the printer’s user guide for the recommended course of action for each error type.
Setting the Print Settings (Direct Print Function)

Setting the Number of Print Copies

- Use the or button to select [Copies] and the or button to select the number. Up to 99 copies may be specified.

Setting the Print Style

You can select from among the following print styles.

<table>
<thead>
<tr>
<th>Direct Print Function Compatible Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image</strong></td>
</tr>
<tr>
<td>Prints one image per page.</td>
</tr>
<tr>
<td><strong>Multiple</strong></td>
</tr>
<tr>
<td>Prints eight copies of the same image on one page.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
</tr>
<tr>
<td>Prints the image's creation date.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BJ Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Paper</strong></td>
</tr>
<tr>
<td><strong>Borders</strong></td>
</tr>
<tr>
<td>Prints right to the edges of the paper.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
</tr>
<tr>
<td>Prints the image's creation date.</td>
</tr>
</tbody>
</table>

* If you are using a direct print function compatible printer, the date and borders settings cannot be selected when the Multiple option is selected. (Images are printed without a date or border.)
Use the or button to select [Style].

Use the or button to select [Image Settings]
(Direct Print Function Compatible Printer)
Select [Standard] or [Multiple].

(BJ Printer)
Select [Card #1], [Card #2], [Card #3], [LTR] or [A4].

(Borders)
Select [Borderless] or [Bordered].

(Date)
Select [On] or [Off].
Press the MENU button to finish the procedure.
- Practically all of the image area is printed on Bordered prints.
- With borderless or multiple prints, the image is printed with its top, bottom and sides trimmed.

- The date settings are overridden by the DPOF print settings if you are using them to print (p. 106).

**Setting the Printing Area (Trimming)**

You can print a portion of an image.

- The shape of the trimming frame is determined by the print style selection (image, paper, borders, date). Set the print style before setting the printing area (p. 99).

- Use the ▼ or ▲ button to select [Trimming].
Changing the Size of the Trimming Frame
- Press the zoom lever toward ♯ or $.
- The trimming frame can be resized to approximately half the image size at minimum and practically as large as the image at maximum.
- You can cancel the trimming setting by sliding the zoom lever toward the $ again when the trimming frame is already set to the maximum size.
- When printing an image that has been magnified using the trimming option, the image quality may become coarser and grainier depending on the magnifying rate. With direct print function compatible printers, the trimming frame displays in red.

Moving the Trimming Frame
- Use the $ or $ button to set the trimming frame’s position.

Rotating the Trimming Frame
- Press the DISP button to rotate the trimming frame.

- The trimming frame will appear on images that have already had one assigned.
- Trimming settings can only be set for one image.
- Trimming settings are canceled with the following operations:
  - When the trimming settings are set for another image.
  - When the print mode is closed (camera power shut off, mode dial turned, or direct interface cable detached).
  - When the zoom lever is pressed further toward $ with the trimming frame at its maximum.
Setting the DPOF Print Settings

You can select images on a CF card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer or a direct print function compatible BJ printer.

Selecting Images for Printing

There are two ways to select images.
- Singly
- All images on a CF card (the number of print copies is set to one per image)

1. Display the Print Order Menu.

2. Use the or button to select [Print Order].

- See Print Menu Settings (p. 92).
Printing

Single Images
• As shown below, selection methods differ according to the options chosen for the \( \text{(Print Type)} \) setting (p. 106).

(Standard) / (Both)
• Use the \( \text{or} \) button to select an image and the \( \text{or} \) button to select the number of print copies (up to maximum of 99).

Number of Print Copies

(Index)
• Use the \( \text{or} \) button to move to an image and the \( \text{or} \) button to select or deselect it. A checkmark displays on selected images.

Selected for an Index Print

• You can use the same procedures to select images in index replay (3 images). Press the zoom lever toward \( \text{ } \) to switch between single image replay and index replay.

• Press the MENU button repeatedly until the replay screen reappears to complete the procedure.
All the Images on a CF Card

1. Switch to index replay (3 images).

2. Use the $ or $ button to select [Mark all].
   Selecting [Mark all] selects all of the card's images.

3. Press the SET button to set the number of print copies to 1 for each image.
   When the print type is set to Standard or Both, the number of print copies can be set individually for each image. When Index is selected, the print settings can be deleted (p. 104).

4. Press the MENU button repeatedly until the replay screen reappears to complete the procedure.

   • The $ symbol will display on images that have had print settings set by other DPOF-compliant cameras. These settings will be overwritten by those set by your camera.
   • The output of some printers or photo developing services may not reflect the specified print settings.
   • Print settings cannot be set for movie images.
• Images are printed in order from oldest to newest by the shooting date.
• A maximum of 998 images can be selected per CF card.
• When [Both] is selected, the number of print copies can be set, but it applies to Standard prints only. The Index setting only produces one print copy.
• Print settings can also be assigned to images with the bundled software on a computer.

Setting the Print Style
Set the print style after selecting the image to print. The following print settings can be selected.

<table>
<thead>
<tr>
<th>Print Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Prints one image per page.</td>
</tr>
<tr>
<td>Index</td>
<td>Prints the selected images together at a reduced size in an index format.</td>
</tr>
<tr>
<td>Both</td>
<td>Prints the images in both the standard and index formats.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Adds the date to the print.</td>
</tr>
<tr>
<td>File No.</td>
<td>Adds the file number to the print.</td>
</tr>
</tbody>
</table>

1. Display the Print Order Menu.
2. • See Print Menu Settings (p. 92).
   • Use the or button to select [Set up].
• Use the or button to select , or , and the or button to select an option.

(Print Type)
• Select [Standard], [Index] or [Both].

(Date)
• Select [On] or [Off].

(File No.)
• Select [On] or [Off].

• Press the button repeatedly until the replay screen reappears to complete the procedure.

• The date prints as the date and time in the format specified in the Set Date/Time menu (p. 23).

• When the print type is set to [Index], only one or the other of the [Date] and [File No.] options can be set to [On] at the same time.
Resetting the Print Settings

The print settings can all be removed at once. The print type resets to Standard and the Date and File No. options to Off.

1. **Display the Print Order Menu.**
   - See Print Menu Settings (p. 92).
   - Use the or button to select [Reset].

2. **Clear all settings?**
   - Use the or button to select [OK].
   - To exit without resetting, select [Cancel].
Printing with DPOF Print Settings
The DPOF print settings can be used to print on a direct print function compatible printer or a direct print function compatible BJ printer.

- See Print Menu Settings (p. 92).
- Use the \(/\)/\(/\)/\(/\)/ button to select [Print].
- Set the print style as required (p. 106).
- The print style cannot be set for images that have had the print type set to Index in the DPOF print settings. (You can also select the type of paper when printing with a BJ printer.)
- Use the \(/\)/\(/\)/\(/\)/ buttons to select [OK].
- Press the SET button to start printing.
- The replay screen will reappear when printing is successfully concluded.
• To include the date in the prints, set the Date setting in the Set up menu in Step 1 above to [On]. You cannot set the date to print with the Style menu in Step 2 above. Please note however, that the date will not print if the print type is set to Index even if it is turned On in Step 1.
• When the print type is set to [Both], it is possible to have both the [Date] and [File No.] options set to [On], but only the file number will print on the Index print. (BJ printers cannot print the date or file number on Index prints.)
• When the print type is set to [Standard], file numbers will not be printed even if they are set to [On].

- The maximum number of images printed on one page in the Index print type depends upon the selected paper size.
  - Card Size: 20 images
  - L Size: 42 images
  - Postcard Size: 63 images
  (Please refer to your Bubble Jet Printer Quick Start Guide for an explanation of the number of images printed with a Bubble Jet Printer.)

• Canceling Printing
  See page 98.

• Restarting Printing
  In the Print Order menu, use the ▼ or ▲ button to select [Resume] and press the SET button. The remainder of the selected images will print.
  Printing cannot be resumed under the following circumstances:
  - If the print settings were changed before printing is restarted,
  - If images with print settings were deleted before printing is restarted,
  - If there was insufficient spare capacity on the CF card when printing was halted.
  Under these circumstances, you can select [OK] in the Print menu and reprint starting from the first image.
  If printing was stopped because of a low battery charge, you are recommended to resume printing using the AC Adapter Kit ACK500 (sold separately). If you do use a battery pack, ensure that it is fully charged. Remember to turn the camera power on again before printing.

• Printing Errors
  See page 98.
In the (Play) menu, select .

Image Transmission Settings (DPOF Transfer Order)

You can use the camera to specify settings for images that you wish to send by email. Please use the software supplied with the camera to actually transfer the images to an email program. Please read the Software Starter Guide for image transfer instructions.

The settings used on the camera comply with the Digital Print Order Format (DPOF) standards.

• The symbol will display on images that have had print settings set by other DPOF-compliant cameras. These settings will be overwritten by those set by your camera.

Selecting Images for Transferring

1. In the (Play) menu, select .

2. The Transfer Order menu will display.

3. Use the or button to select [Order].

Pressing [Reset] cancels the transfer settings for all images on the CF card.
Image Transmission Settings (DPOF Transfer Order)

- Use the  or  button to move to an image and the  or  button to select or deselect it. A checkmark displays on selected images.
- You can use the same procedures to select images in index replay (3 images). Press the zoom lever toward  to switch between single image replay and index replay.
- While in index replay, you can select all of the images by pressing the SET button, using the  or  button to select [Mark all] and pressing the SET button again.
- Press the MENU button to complete the transfer settings and redisplay the Transfer Order menu.

- Images are transferred in order from oldest to newest by the shooting date.
- A maximum of 998 images can be selected per CF card.
- Transfer settings can also be assigned to images with the supplied software programs on a computer.
Shooting/Replaying with a TV

You can use a video-compatible television as a monitor to shoot or replay images when it is connected to the camera with the supplied AV Cable AVC-DC200. You must shut the TV and camera power off before you attach or detach the AV cable.

- After you have attached the AV cable at both ends, turn on the TV and set its TV/Video switch to Video.
- Set the mode switch to \( \text{ } \) or \( \text{ } \) and turn the camera power on. You can shoot or replay images using the normal procedures.
- If the images are not appearing on the TV when shooting, press the DISP button.

⚠️ A TV cannot be used in \( \text{ } \) or \( \text{ } \) mode.
- No image will appear on the LCD monitor when the camera is connected to a TV.
- If the TV is a stereo model, you can plug the audio plug into either the left or right Audio In jack. Please refer to the TV's manual for details.

- The video output signal can be switched (NTSC or PAL) to accommodate different regional standards. The default setting varies between regions.
  - NTSC: Japan, U.S.A., Canada, Taiwan, etc.
  - PAL: Europe, Asia (excluding Taiwan), Oceania, etc.
  - If the video system is set incorrectly, the camera output may not display properly.
Download images taken with the camera to a computer in one of the following ways:

- Directly from the CF card.
- By connecting the camera to a computer with the USB cable.

You must install the software and USB driver bundled on the Canon Digital Camera Solution Disk before connecting the camera to the computer.

After installing the supplied software, download images automatically by simply connecting the camera to a computer with the supplied USB cable.

Please refer to the Software Starter Guide for installation instructions, image download instructions and system requirements.

### Downloading Directly from a CF Card

Images can be loaded directly from a CF card if you have a slot-equipped notebook computer, a PC card reader or a CF card reader.

1. Eject the CF card from the camera and insert it into a CF card reader connected to the computer.

   ![Insert CF card into a CF card reader](image1.png)

   If you are using a PC card reader, first insert the CF card into a PC card adapter (optional), and then insert the PC card adapter into the computer's PC card reader.

2. Double-click the icon of the drive containing the CF card.
3 Copy the CF card's images to the desired folder on the hard disk. The images are contained in the [XXXCANON] folder, which is a subfolder of the [DCIM] folder on the CF card. The XXX represents a number from 100 to 998.

- Some computers or memory card readers require the power to be off when the CF card is inserted into the slot. Since this requirement varies between products, please consult the manual for your equipment.

**Connecting the Camera to a Computer with a USB Cable**

You must install the software and USB driver bundled on the Canon Digital Camera Solution Disk before connecting the camera to the computer. Please refer to the Software Starter Guide for installation instructions.

1 Use the supplied USB cable to connect the computer's USB port to the DIGITAL • A/V OUT Terminal on the camera.

- You do not need to shut off the camera or computer to attach or detach USB interface cables.
- Please refer to your computer's manual for the locations of the computer’s USB ports.

2 Set the camera's mode switch to the [ ] position. The LCD monitor will turn on in replay mode and then blank out when the connection to the computer is complete.
• Setting the Communication Mode
Sets the communication mode when downloading images with a camera connected to the computer.

<table>
<thead>
<tr>
<th>Communication Mode</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (Default)</td>
<td>Usual setting. You must install the USB driver bundled on the Canon Digital Camera Solution Disk before using this mode.</td>
</tr>
<tr>
<td>PTP (Picture Transfer Protocol)</td>
<td>The following functions are available even if the software and USB driver bundled on the Canon Digital Camera Solution Disk have not been installed. - Viewing the camera’s images - Downloading the camera’s images to a computer - Printing the camera’s images. These functions are available with Windows XP or Mac OS X (10.1) or later OS*. *Select the [Normal] option for all other operating systems.</td>
</tr>
</tbody>
</table>

*With any other OS, [PTP] cannot be used. Please select [Normal].

1. Check that the camera is not connected to the computer.

2. In the [Set up] menu, select [Communication].
   - See Selecting Menus and Settings (p. 37)
   - Use the ø or ¿ button to select [Normal] or [PTP].
• Some problems may occur when downloading images to a computer in the PTP mode with certain file types. Please refer to the supplied Picture Transfer Protocol (PTP) Mode leaflet.

• Ensure that you push the [Push] button on the connector to remove the USB cable from the camera's DIGITAL/A/V OUT terminal.

• It is recommended to power the camera from a household power outlet with the optional AC Adapter Kit ACK500 when connected to a computer (p. 130).

• If the USB cable is detached while the camera power is on, the camera will power down.

• When the camera is connected to a computer, a warning displays on the computer display after 5 minutes if the camera is not used. The camera shuts down if a further minute passes without a button being pressed. (Except when the camera's power-saving function is set to off) To restore power, press the main switch again. However, the power-saving function will not activate if the Communication mode is set to [PTP].

• All procedures performed with a connection to a USB 2.0 compliant board are not guaranteed.

Please refer to the Software Starter Guide for the subsequent procedures.
The following charts list the various menu contents. See Selecting Menus and Settings (p. 37) to learn how to select a setting.

### Rec. Menu

<table>
<thead>
<tr>
<th>Item/Menu Screen</th>
<th>Options</th>
<th>Reference Page</th>
</tr>
</thead>
</table>
| Resolution (Stills) | Sets the number of pixels used to record images to CF cards.  
- [L (Large)]* 2048 x 1536 pixels  
- [M (Medium 1)] 1600 x 1200 pixels  
- [M (Medium 2)] 1024 x 768 pixels  
- [S (Small)] 640 x 480 pixels | p. 45 |
| Resolution (Movies) | Sets the number of pixels used to record movies to CF cards.  
- [640 x 480 pixels]  
- [320 x 240 pixels]*  
- [160 x 120 pixels] | p. 45 |
| Compression | Sets the relative compression ratio used to record images to CF cards.  
- [Superfine]  
- [Fine]*  
- [Normal] | p. 45 |
| ISO Speed | Sets the sensitivity at which images are recorded.  
- [50]*  
- [100]  
- [200]  
- [400]  
- [AUTO] | p. 71 |
<table>
<thead>
<tr>
<th>Item/Menu Screen</th>
<th>Options</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIAF</td>
<td>Sets whether or not the camera automatically selects one of nine AF frames or a fixed center AF frame.</td>
<td>p. 62</td>
</tr>
<tr>
<td></td>
<td>• On*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off</td>
<td></td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>Sets whether or not the optical zoom is supplemented by digital processing.</td>
<td>p. 50</td>
</tr>
<tr>
<td></td>
<td>• On*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off</td>
<td></td>
</tr>
<tr>
<td>Self-timer</td>
<td>Sets the duration before the self-timer releases the shutter.</td>
<td>p. 52</td>
</tr>
<tr>
<td></td>
<td>• 10 seconds*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2 seconds</td>
<td></td>
</tr>
<tr>
<td>Review</td>
<td>Sets the duration images display on the LCD monitor after the shutter button releases.</td>
<td>p. 44</td>
</tr>
<tr>
<td></td>
<td>• Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2*-10 seconds (1-second increments)</td>
<td></td>
</tr>
<tr>
<td>AF-assist Beam</td>
<td>Sets the AF-assist Beam to on or off.</td>
<td>p. 35</td>
</tr>
<tr>
<td></td>
<td>• On*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off</td>
<td></td>
</tr>
<tr>
<td>Item/Menu Screen</td>
<td>Options</td>
<td>Reference Page</td>
</tr>
<tr>
<td>------------------</td>
<td>---------</td>
<td>----------------</td>
</tr>
<tr>
<td>File No. Reset</td>
<td>Sets how file numbers are assigned to images when new CF cards are inserted.</td>
<td>p. 73</td>
</tr>
<tr>
<td></td>
<td>• On</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off*</td>
<td></td>
</tr>
<tr>
<td>Auto Rotate</td>
<td>Sets whether or not images shot with the camera on end are automatically rotated in the display.</td>
<td>p. 72</td>
</tr>
<tr>
<td></td>
<td>• On*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off</td>
<td></td>
</tr>
<tr>
<td>Long Shutter</td>
<td>Sets the shutter speed to slow settings.</td>
<td>p. 65</td>
</tr>
<tr>
<td></td>
<td>• On</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off*</td>
<td></td>
</tr>
</tbody>
</table>
## Play Menu

<table>
<thead>
<tr>
<th>Item/Menu Screen</th>
<th>Options</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protect</td>
<td>Protects images from accidental erasure.</td>
<td>p. 86</td>
</tr>
<tr>
<td>Rotate</td>
<td>Rotate images clockwise 90° or 270° in the display.</td>
<td>p. 81</td>
</tr>
<tr>
<td>Erase all</td>
<td>Deletes all images from a CF card (except for protected images).</td>
<td>p. 88</td>
</tr>
<tr>
<td>Slide Show</td>
<td>Plays images in automated slide shows.</td>
<td>p. 82</td>
</tr>
<tr>
<td>Item/Menu Screen</td>
<td>Options</td>
<td>Reference Page</td>
</tr>
<tr>
<td>------------------</td>
<td>---------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Print Order</strong></td>
<td>Selects images and the number of print copies for output to a DPOF-compatible printer or a photo developing service.</td>
<td>p. 103</td>
</tr>
<tr>
<td><strong>Transfer Order</strong></td>
<td>Selects the images that will be transferred to your email software.</td>
<td>p. 111</td>
</tr>
</tbody>
</table>
### Set up Menu

<table>
<thead>
<tr>
<th>Item/Menu Screen</th>
<th>Options</th>
<th>Reference Page</th>
</tr>
</thead>
</table>
| Beep             | Sets whether or not a beep sounds when the shutter button is pressed or a menu operation is performed.  
• On*  
• Off  
A beep still sounds to warn of errors even when Off is selected. | p. 34 |
| Power Save       | Sets whether or not the camera automatically powers down after a set period of time elapses without something being pressed.  
• On*  
• Off | p. 27 |
| Date/Time        | Sets the date and time and the date format. | p. 23 |
| Format           | Formats (initializes) CF cards. | p. 89 |
## List of Menu Options and Messages

<table>
<thead>
<tr>
<th>Item/Menu Screen</th>
<th>Options</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>Sets the language used in menus and messages on the LCD monitor.</td>
<td>p. 25</td>
</tr>
<tr>
<td></td>
<td>• English*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Italiano</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Deutsch</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Norsk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Français</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Sverka</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Nederlands</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Español</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Dansk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Chinese</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Suomi</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Japanese</td>
<td></td>
</tr>
<tr>
<td></td>
<td>You can also change the language in replay mode by holding the SET button and pressing the MENU button.</td>
<td></td>
</tr>
<tr>
<td>Video System</td>
<td>Sets the video output signal standard.</td>
<td>p. 113</td>
</tr>
<tr>
<td></td>
<td>• NTSC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• PAL</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>Sets the camera and computer communication settings.</td>
<td>p. 116</td>
</tr>
<tr>
<td></td>
<td>• Normal*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• PTP</td>
<td></td>
</tr>
</tbody>
</table>
Resetting Settings to Their Default Values

You can reset the menu and button settings to the default settings in one operation except for the Date/Time, Language and Video System settings.

1. Press the ON/OFF button until the green power lamp lights.
2. Set the mode switch to any position.
3. Press and hold the MENU button for more than 5 seconds.
4. Use the or button to select [OK].
5. To exit without resetting, select [Cancel].

- White balance data recorded with the custom white balance function is not reset by this function (p. 68).
- Settings cannot be reset when the camera is connected to a computer, to a direct print function compatible printer (optional) or to a direct print function compatible BJ printer (optional).
### List of Messages

The following messages may appear on the LCD monitor while shooting or replaying.

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Busy...</strong></td>
<td>Image is being recorded to, or read from, CF card.</td>
</tr>
<tr>
<td><strong>No CF card</strong></td>
<td>You attempted to shoot or replay images without a CF card installed.</td>
</tr>
<tr>
<td><strong>Cannot record!</strong></td>
<td>You attempted to shoot an image without a CF card installed.</td>
</tr>
<tr>
<td><strong>CF card error!</strong></td>
<td>CF card has experienced an anomaly.</td>
</tr>
<tr>
<td><strong>CF card full</strong></td>
<td>CF card is too full to accommodate more images or print settings.</td>
</tr>
<tr>
<td><strong>Naming error!</strong></td>
<td>The file could not be created because there is a file with the same name as the directory that the camera is attempting to create, or the highest possible file number has already been reached. In the Rec Menu, set the File Reset option to On. Save all the images you wish to retain onto a computer, then reformat the CF card. Please note that formatting will erase all the existing images and other data.</td>
</tr>
<tr>
<td><strong>Change the battery pack</strong></td>
<td>Battery charge is insufficient to operate the camera. Replace it at once with a charged one or recharge the battery pack.</td>
</tr>
<tr>
<td><strong>No image</strong></td>
<td>No images recorded on CF card.</td>
</tr>
<tr>
<td><strong>Image too large</strong></td>
<td>You attempted to replay an image larger than 3200 x 2400 pixels or a movie clip recorded by another camera.</td>
</tr>
<tr>
<td><strong>Incompatible JPEG format</strong></td>
<td>You attempted to replay an incompatible JPEG file.</td>
</tr>
</tbody>
</table>
**List of Menu Options and Messages**

<table>
<thead>
<tr>
<th>Option</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrupted Data</td>
<td>You attempted to replay an image with corrupted data.</td>
</tr>
<tr>
<td>RAW</td>
<td>You attempted to replay an image recorded in the RAW format.</td>
</tr>
<tr>
<td>Unidentified Image</td>
<td>You attempted to replay an image that was recorded in a special format (proprietary format used by the camera of another manufacturer, etc.) or a movie clip recorded by another camera.</td>
</tr>
<tr>
<td>Cannot magnify!</td>
<td>You attempted to magnify an image which was photographed with another camera, recorded in a different format, or edited on a computer.</td>
</tr>
<tr>
<td>Cannot rotate</td>
<td>You attempted to rotate an image which was photographed with another camera, recorded in a different format, or edited on a computer.</td>
</tr>
<tr>
<td>Protected!</td>
<td>You attempted to erase a protected image.</td>
</tr>
<tr>
<td>Too many marks</td>
<td>Too many images have been marked with print settings, transfer settings or slide show settings. Cannot process any more.</td>
</tr>
<tr>
<td>Unselectable image</td>
<td>You attempted to set the print settings for a non-JPEG file.</td>
</tr>
<tr>
<td>Exx:</td>
<td>(xx: number) Camera malfunction. Turn the power off and then back on, then shoot or replay. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in replay mode.</td>
</tr>
</tbody>
</table>
List of Menu Options and Messages

<table>
<thead>
<tr>
<th>List of Messages Displayed while a Direct Print Function Compatible Printer is Connected</th>
</tr>
</thead>
</table>

The following messages may appear on the camera's LCD monitor while a direct print function compatible printer (sold separately) is connected.

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Paper</td>
<td>Paper cassette is empty or incorrectly installed. Paper feed may not be operating correctly.</td>
</tr>
<tr>
<td>No Ink</td>
<td>The ink cassette is empty or missing.</td>
</tr>
<tr>
<td>Incompatible paper size</td>
<td>You attempted to print with a paper size incompatible with this camera.</td>
</tr>
<tr>
<td>Incompatible ink size</td>
<td>You attempted to print with an ink cartridge type incompatible with this camera.</td>
</tr>
<tr>
<td>Ink Cassette Error</td>
<td>There is a problem with the ink cassette.</td>
</tr>
<tr>
<td>Paper and ink do not match</td>
<td>The paper and ink are from different sets.</td>
</tr>
<tr>
<td>Paper Jam</td>
<td>Paper jammed during printing.</td>
</tr>
<tr>
<td>Paper has been changed</td>
<td>The paper size was changed between the time the Print Style menu was displayed and the time printing started.</td>
</tr>
<tr>
<td>Recharge the printer battery</td>
<td>The printer's battery is out of power.</td>
</tr>
<tr>
<td>Communication Error</td>
<td>A communication error has occurred.</td>
</tr>
<tr>
<td>Reajust trimming</td>
<td>You attempted to print the image with a different style than the one used when the trimming settings were set.</td>
</tr>
<tr>
<td>Cannot print!</td>
<td>You attempted to print an image shot by a different camera, one recorded in an incompatible format, or one downloaded to and edited with a computer.</td>
</tr>
<tr>
<td>Could not print XX images</td>
<td>You attempted to print XX number of images with DPOF print settings that were shot by a different camera, recorded in an incompatible format, or downloaded to and edited with a computer.</td>
</tr>
</tbody>
</table>
List of Menu Options and Messages

List of Messages Displayed while a Direct Print Function Compatibl...
Using an AC Adapter Kit (Sold Separately)

It is best to power the camera with AC Adapter Kit ACK500 (sold separately) when you are using it for long periods of time or connecting it to a computer.

- Turn the camera power off before connecting or disconnecting the AC adapter.
- Connect the power cord to the compact power adapter first and then plug the other end into the power outlet.
- Open the battery cover and press the battery lock in the direction shown while inserting DC Coupler DR-500. Insert the DC coupler all the way in until the battery lock clicks. Slide the battery cover closed.
- Open the DC coupler terminal cover and attach the cord to the DC terminal.
- After you have finished using the camera, unplug the AC adapter from the power outlet.

⚠️ Use of an AC adapter kit other than ACK500 may cause a malfunction in the camera or kit.
Using a Car Battery Charger (Optional)

Car Battery Charger CBC-NB1 (sold separately) can be used to charge battery packs from an automobile's cigarette lighter socket.

- Always ensure that the automobile's engine is running when you use the car battery charger. Use of it with the engine off may flatten the battery in some automobiles. Always unplug the car battery charger before turning off the engine.

- With the engine running, plug the car battery cable into the cigarette lighter socket and the battery charger.

- Insert the battery pack all the way into the battery charger as shown.
- The charge indicator will light red while the battery pack is charging. It will change to green when the charge is complete.
- After charging, unplug the car battery cable from the cigarette lighter socket and remove the battery pack.

- The battery will stop charging whenever you turn the engine off, so be sure to unplug the car battery cable from the cigarette lighter socket.
- Wait until the engine is running again to plug the car battery cable into the cigarette lighter socket.
- The car battery charger can only be used in a negative ground car. It cannot be used in a positive ground car.
Camera Care and Maintenance

Use the following procedures to clean the camera body, lens, viewfinder and LCD monitor.

• Never use thinners, benzene, synthetic cleansers or water to clean the camera. These substances may distort or damage the equipment.

Camera Body
Gently wipe dirt off the camera body with a soft cloth or eyeglass lens wiper.

Lens
First use a lens blower brush to remove dust and dirt, then remove any remaining dirt by wiping the lens lightly with a soft cloth.

• Never use synthetic cleansers on the camera body or lens.
• If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate Canon Customer Support leaflet.

Viewfinder and LCD Monitor
Use a lens blower brush to remove dust and dirt. If necessary, gently wipe with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.

• Never rub or press strongly on the LCD monitor. These actions may damage it or lead to other problems.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera will not operate</td>
<td>Power is not turned on</td>
<td>Press the ON/OFF button for a moment.</td>
</tr>
<tr>
<td></td>
<td>Battery cover or CF card slot cover is open</td>
<td>Confirm that the battery cover and CF card slot cover are securely closed.</td>
</tr>
<tr>
<td></td>
<td>Insufficient battery voltage</td>
<td>Insert a fully charged battery into the camera.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use the AC Adapter Kit ACK500 (sold separately).</td>
</tr>
<tr>
<td></td>
<td>Poor contact between camera and battery terminals</td>
<td>Wipe the terminals with a clean dry cloth.</td>
</tr>
<tr>
<td>Camera will not record</td>
<td>Mode switch is set to  (Replay)</td>
<td>Turn the mode dial to the or  position.</td>
</tr>
<tr>
<td></td>
<td>Flash is charging</td>
<td>Wait until the flash charges. You can press the shutter button when the indicator lights orange.</td>
</tr>
<tr>
<td></td>
<td>CF card is full</td>
<td>Insert a new CF card.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If required, download the images to a computer and erase them from the CF card to make space.</td>
</tr>
<tr>
<td></td>
<td>CF card is not formatted correctly</td>
<td>Format CF card (See Formatting CF Cards p. 89).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If reformatting doesn’t work, the CF card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.</td>
</tr>
</tbody>
</table>
## Appendices

**Problem** | **Cause** | **Solution**
--- | --- | ---
Lens will not retract | Battery cover or CF card slot cover was opened with power on | First close the battery cover or CF card slot cover and then turn the power off.
Battery cover or CF card slot cover was opened while recording to the CF card (warning signal sounds) | First close the battery cover or CF card slot cover and then turn the power off.
Battery pack consumed quickly | Battery life exceeded if battery pack loses its charge quickly at normal temperature (23°C / 73°F) | Replace the battery pack with a new one.
Battery pack will not charge | Battery pack life exceeded | Replace the battery pack with a new one.
Poor contact between battery pack and battery charger | Insert battery pack securely into battery charger.
Ensure that battery charger plug is securely plugged into the power outlet.
Image is blurred or out of focus | Camera moved | Be careful not to move the camera while pressing the shutter button.
Autofocus function hampered by obstruction to AF-assist Beam | Be careful not to block the AF-assist Beam with fingers or other items.
• Set the AF-assist Beam to on.
  (p. 119)

• Ensure there is at least 47 cm (1.5 ft.) between the camera lens and subject.

• Use the Macro mode to shoot close-ups between 10 and 47 cm (3.9 in. to 1.5 ft.) from the lens when set to wide angle and between 27 and 47 cm (10.6 in. to 1.5 ft.) when set to telephoto.

• Use the Infinity mode to shoot distant subjects.

• Set the flash to on.

• Set the exposure compensation to a positive (+) setting or use the spot metering function.

• Shoot within 3 m (9.8 ft.) of the subject at the maximum wide angle or 2 m (6.6 ft.) of the subject at the telephoto end setting when using the flash.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image is blurred or out of focus</td>
<td>AF-assist Beam is set to off.</td>
<td>• Set the AF-assist Beam to on.</td>
</tr>
<tr>
<td>Subject is out of focal range</td>
<td></td>
<td>• Ensure there is at least 47 cm (1.5 ft.) between the camera lens and subject.</td>
</tr>
<tr>
<td>Subject is out of focal range</td>
<td></td>
<td>• Use the Macro mode to shoot close-ups between 10 and 47 cm (3.9 in. to 1.5 ft.) from the lens when set to wide angle and between 27 and 47 cm (10.6 in. to 1.5 ft.) when set to telephoto.</td>
</tr>
<tr>
<td>Subject is out of focal range</td>
<td></td>
<td>• Use the Infinity mode to shoot distant subjects.</td>
</tr>
<tr>
<td>Subject is too far away for flash to reach</td>
<td>Insufficient light for shooting</td>
<td>• Set the flash to on.</td>
</tr>
<tr>
<td>Subject is too远 away for flash to reach</td>
<td>Subject is dark in contrast to the background</td>
<td>• Set the exposure compensation to a positive (+) setting or use the spot metering function.</td>
</tr>
<tr>
<td>Subject is too far away for flash to reach</td>
<td>Subject is dark in contrast to the background</td>
<td>• Shoot within 3 m (9.8 ft.) of the subject at the maximum wide angle or 2 m (6.6 ft.) of the subject at the telephoto end setting when using the flash.</td>
</tr>
<tr>
<td>Subject in recorded image is too bright</td>
<td>Subject is too close, making the flash too strong</td>
<td>• When using the flash, stay at least 27 cm (10.6 in.) from the subject.</td>
</tr>
<tr>
<td>Subject in recorded image is too bright</td>
<td>Subject is too close, making the flash too strong</td>
<td>• Set the exposure compensation to a negative (-) setting or use the spot metering function.</td>
</tr>
<tr>
<td>Subject in recorded image is too bright</td>
<td>Subject is bright in contrast to the background</td>
<td>• Set the exposure compensation to a negative (-) setting or use the spot metering function.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Subject in recorded image is too bright</td>
<td>Light is shining directly on the subject or reflected off the subject into the camera</td>
<td>• Change the shooting angle.</td>
</tr>
<tr>
<td>Flash does not fire</td>
<td>Flash is set to on</td>
<td>• Set the flash to off.</td>
</tr>
<tr>
<td>Image not showing on TV monitor</td>
<td>Flash is set to off</td>
<td>• Set the flash to on.</td>
</tr>
<tr>
<td>Incorrect video system setting</td>
<td>Incorrect video system setting</td>
<td>• Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 124).</td>
</tr>
<tr>
<td>Shooting mode set to       or       (Stitch Assist)</td>
<td>Shooting mode set to       or       (Stitch Assist)</td>
<td>• The output will not appear on a TV in       or       (Stitch Assist) mode. Shoot in a different mode.</td>
</tr>
<tr>
<td>Zoom does not work</td>
<td>Zoom lever pressed during movie recording</td>
<td>• Adjust the zoom before shooting a movie.</td>
</tr>
<tr>
<td>Reading images from CF card is slow</td>
<td>CF card was formatted in another device</td>
<td>• Use a CF card formatted in your camera. See Formatting CF Cards (p. 89).</td>
</tr>
</tbody>
</table>
## Specifications

All data is based on Canon's standard testing methods. Subject to change without notice.

### PowerShot S230 DIGITAL ELPH / DIGITAL IXUS v2

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Effective Pixels</td>
<td>Approx. 3.2 million</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2.7 in. CCD (Total number of pixels: approx. 3.3 million)</td>
</tr>
<tr>
<td>Lens</td>
<td>5.4 (W) - 10.8 (T) mm</td>
</tr>
<tr>
<td></td>
<td>(35 mm film equivalent: 35-70mm)</td>
</tr>
<tr>
<td></td>
<td>f2.8 (W) - 4 (T)</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>Maximum 3.2 x (Maximum 6.4 x with optical zoom)</td>
</tr>
<tr>
<td>Optical Viewfinder</td>
<td>Real-image optical zoom viewfinder</td>
</tr>
<tr>
<td>LCD Monitor</td>
<td>1.5 in. low-temperature polycrystalline silicon TFT color LCD, approx. 120,000 pixels</td>
</tr>
<tr>
<td>Autofocus</td>
<td>TTL 9-point AiAF/TTL 1-point center AF</td>
</tr>
<tr>
<td>Focusing Range</td>
<td>Normal: 47 cm (1.5 ft.) - 15 cm (0.5 ft.)</td>
</tr>
<tr>
<td></td>
<td>Macro AF: 10-47 cm (3.9 in. - 1.5 ft.) (W)</td>
</tr>
<tr>
<td></td>
<td>27-47 cm (10.6 in. - 1.5 ft.) (T)</td>
</tr>
<tr>
<td>Shutter</td>
<td>Mechanical + electronic</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>15-1/1500 sec.</td>
</tr>
<tr>
<td></td>
<td>• 1-1/6 sec. possible at flash-off or slow-synchro in manual mode</td>
</tr>
<tr>
<td></td>
<td>• 15-1 sec. possible in long shutter mode</td>
</tr>
<tr>
<td></td>
<td>• Noise reduction processing on speeds between 15-1.3 sec.</td>
</tr>
<tr>
<td>Light Metering System</td>
<td>Evaluative metering (linked to focusing point)/ Spot metering</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Program AE</td>
</tr>
<tr>
<td>Exposure Compensation</td>
<td>+/- 2 stops in 1/3-stop increments</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>ISO 50/100/200/400 equivalent and Auto</td>
</tr>
<tr>
<td></td>
<td>(in Auto mode, camera automatically adjusts sensitivity in the range of ISO 50 to ISO 150 equivalent)</td>
</tr>
</tbody>
</table>

(W): wide angle  (T): telephoto
### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>White Balance:</strong></td>
<td>TTL auto/preset (daylight, cloudy, tungsten, fluorescent, fluorescent H) or custom white balance</td>
</tr>
<tr>
<td><strong>Flash:</strong></td>
<td>Red-eye reduction auto/auto/on/off/slow-synchro</td>
</tr>
<tr>
<td><strong>Flash Shooting Range:</strong></td>
<td>Normal mode: 47 cm - 3.0 m (1.5 - 9.8 ft.) (W) 47 cm - 2.0 m (1.5 - 6.6 ft.) (T)</td>
</tr>
<tr>
<td></td>
<td>Macro Mode: 27-47 cm (10.6 in. - 1.5 ft.) (W/T)</td>
</tr>
<tr>
<td><strong>Shooting Modes:</strong></td>
<td>Auto/manual/stitch assist/movie</td>
</tr>
<tr>
<td><strong>Continuous Shooting:</strong></td>
<td>Approx. 2 images/sec.</td>
</tr>
<tr>
<td><strong>Self-timer:</strong></td>
<td>Shoots after approx. 10 sec. or approx. 2 sec.</td>
</tr>
<tr>
<td><strong>PC Connected Shooting:</strong></td>
<td>Available (USB connection only. Exclusive software program “RemoteCapture” is included in the digital camera kit.)</td>
</tr>
<tr>
<td><strong>Recording Media:</strong></td>
<td>CompactFlash™ card (Type I)</td>
</tr>
<tr>
<td><strong>File Format:</strong></td>
<td>Design rule for Camera File System, DPOF-compliant</td>
</tr>
<tr>
<td><strong>Image Recording Format:</strong></td>
<td>Still images: JPEG (Exif 2.2)**</td>
</tr>
<tr>
<td></td>
<td>Movies: AVI - Image data: Motion JPEG - Audio data: WAV (monaural)</td>
</tr>
<tr>
<td><strong>Compression:</strong></td>
<td>Superfine/fine/normal</td>
</tr>
<tr>
<td><strong>Number of Recording Pixels:</strong></td>
<td>Still images: large 2048 x 1536 pixels</td>
</tr>
<tr>
<td></td>
<td>medium 1 1600 x 1200 pixels</td>
</tr>
<tr>
<td></td>
<td>medium 2 1024 x 768 pixels</td>
</tr>
<tr>
<td></td>
<td>small 640 x 480 pixels</td>
</tr>
<tr>
<td></td>
<td>Movies: 640 x 480 pixels (Approx. 30 sec.)</td>
</tr>
<tr>
<td></td>
<td>320 x 240 pixels (Approx. 3 min.)</td>
</tr>
<tr>
<td></td>
<td>160 x 120 pixels (Approx. 3 min.)</td>
</tr>
<tr>
<td></td>
<td>Approx. 15 frames/sec.</td>
</tr>
<tr>
<td><strong>Replay Modes:</strong></td>
<td>Single image view/index view (9 thumbnails)/zoomed view/LCD monitor zooms images up to 10 x/ slide show/printing with Card Photo Printer CP-100, CP-10 or Bubble Jet Printer (Direct Print)</td>
</tr>
<tr>
<td><strong>Display Languages:</strong></td>
<td>English, Deutsch, Français, Nederlands, Dansk, Suomi, Italiano, Norsk, Svenska, Español, Chinese and Japanese</td>
</tr>
<tr>
<td><strong>Interface:</strong></td>
<td>USB (Normal or PTP selectable), Audio/Video output (NTSC or PAL selectable, Monoaural audio)</td>
</tr>
</tbody>
</table>

(W): wide angle   (T): telephoto
Specifications

Power Source: Rechargeable Lithium-ion battery (type: NB-1LH/NB-1L)
AC Adapter Kit ACK500
Car Battery Charger CBC-NB1

Operating Temperatures: 0º-40º C (32º-104º F)
Operating Humidity: 10%-90%
Dimensions (w x h x d): 87.0 x 57.0 x 26.7 mm (3.4 x 2.2 x 1.1 in.) (excluding protrusions)
Weight: Approx. 180 g (6.4 oz.) (camera body only)

*1 This digital camera supports Exif 2.2 (also called “Exif Print”). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera’s image data at the time of shooting is used and optimized, yielding extremely high quality prints.
*2 This is the maximum recording time per movie clip for the optional Canon FC-256MH CF card (sold separately in some regions).

Battery Capacity

Battery Pack NB-1LH (fully charged)

<table>
<thead>
<tr>
<th>Number of recordable images</th>
<th>LCD monitor on</th>
<th>Approx. 170 images</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LCD monitor off</td>
<td>Approx. 420 images</td>
</tr>
</tbody>
</table>

Replay

- Approx. 130 minutes

• Excludes movie data.
• At low operating temperatures, the battery performance may drop and the low battery icon may appear sooner than at high temperature. To improve performance at these temperatures, warm the battery in your pocket just before using it in the camera.

Test Criteria

Shooting: Normal temperature (23º C/73º F), alternating between wide angle and telephoto every 20 seconds, flash used one in four shots, power turned off and on again after every eighth shot.

Replaying: Normal temperature (23º C/73º F), continuous replay at 3 seconds per image.
### Specifications

**CF Cards and Estimated Capacities (Recordable Images)**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>FC-16M</th>
<th>FC-32M</th>
<th>FC-64M</th>
<th>FC-128M</th>
<th>FC-256MH</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2048 x 1536 pixels)</td>
<td>8</td>
<td>18</td>
<td>38</td>
<td>76</td>
<td>154</td>
</tr>
<tr>
<td>(1600 x 1200 pixels)</td>
<td>16</td>
<td>33</td>
<td>68</td>
<td>137</td>
<td>276</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>32</td>
<td>67</td>
<td>136</td>
<td>274</td>
<td>548</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>14</td>
<td>30</td>
<td>61</td>
<td>122</td>
<td>246</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>26</td>
<td>54</td>
<td>108</td>
<td>219</td>
<td>440</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>52</td>
<td>108</td>
<td>217</td>
<td>435</td>
<td>868</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>25</td>
<td>53</td>
<td>107</td>
<td>215</td>
<td>431</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>45</td>
<td>94</td>
<td>189</td>
<td>379</td>
<td>762</td>
</tr>
<tr>
<td>(1024 x 768 pixels)</td>
<td>84</td>
<td>174</td>
<td>349</td>
<td>700</td>
<td>1390</td>
</tr>
<tr>
<td>(640 x 480 pixels)</td>
<td>58</td>
<td>120</td>
<td>241</td>
<td>482</td>
<td>962</td>
</tr>
<tr>
<td>(640 x 480 pixels)</td>
<td>94</td>
<td>196</td>
<td>393</td>
<td>788</td>
<td>1563</td>
</tr>
<tr>
<td>(640 x 480 pixels)</td>
<td>165</td>
<td>337</td>
<td>676</td>
<td>1355</td>
<td>2720</td>
</tr>
<tr>
<td>MOVIE (640 x 480 pixels)</td>
<td>14 sec.</td>
<td>30 sec.</td>
<td>61 sec.</td>
<td>124 sec.</td>
<td>249 sec.</td>
</tr>
<tr>
<td>(320 x 240 pixels)</td>
<td>1002 KB</td>
<td>558 KB</td>
<td>278 KB</td>
<td>120 KB</td>
<td>990 KB/sec.</td>
</tr>
<tr>
<td>(160 x 120 pixels)</td>
<td>249 KB</td>
<td>150 KB</td>
<td>84 KB</td>
<td>120 KB/sec.</td>
<td></td>
</tr>
</tbody>
</table>

- The maximum movie clip length is approximately 30 sec. or 3min. (or 3min).
- The times shown are the maximum continuous recording times.
- When used with the FC-256MH CF card (sold separately).
- When using the FC-256MH CF card, (Large), (Medium 1), (Medium 2), (Small), (Superfine), (Fine) and (Normal) indicate the recording resolution.
- The FC-256 MH CF card is not sold in some regions.

### Image File Sizes (Estimated)

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Compression</th>
<th>Size (KB/sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2048 x 1536 pixels</td>
<td>4</td>
<td>1602 KB</td>
</tr>
<tr>
<td>1600 x 1200 pixels</td>
<td>3</td>
<td>1002 KB</td>
</tr>
<tr>
<td>1024 x 768 pixels</td>
<td>2</td>
<td>570 KB</td>
</tr>
<tr>
<td>640 x 480 pixels</td>
<td>1</td>
<td>249 KB</td>
</tr>
</tbody>
</table>

### Movie Compression

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Size (KB/sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>320 x 240 pixels</td>
<td>330 KB/sec.</td>
</tr>
<tr>
<td>160 x 120 pixels</td>
<td>120 KB/sec.</td>
</tr>
</tbody>
</table>
### CompactFlash™ Card

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card Slot Type</td>
<td>Type I</td>
</tr>
<tr>
<td>Dimensions</td>
<td>36.4 x 42.8 x 3.3 mm (1.4 x 1.7 x 0.1 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 10 g (0.4 oz.)</td>
</tr>
</tbody>
</table>

### Battery Pack NB-1LH

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Rechargeable Lithium Ion Cell</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>3.7 V</td>
</tr>
<tr>
<td>Typical Capacity</td>
<td>840 mAh</td>
</tr>
<tr>
<td>Cycle Life</td>
<td>Approx. 300 times</td>
</tr>
<tr>
<td>Operating Temperatures</td>
<td>0-40 °C (32-104 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>32.3 x 49.8 x 10.6 mm (1.3 x 1.9 x 0.4 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 29 g (1.0 oz.)</td>
</tr>
</tbody>
</table>

### Battery Charger CB-2LS/CB-2LSE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>100-240 V AC (50/60 Hz)</td>
</tr>
<tr>
<td></td>
<td>0.075 A (100 V) - 0.045 A (240 V)</td>
</tr>
<tr>
<td>Rated Output</td>
<td>4.2 V DC/0.5 A</td>
</tr>
<tr>
<td>Charging Time</td>
<td>Approx. 130 minutes*</td>
</tr>
<tr>
<td>Operating Temperatures</td>
<td>0-40 °C (32-104 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>90.4 x 56.0 x 28.0 mm (3.6 x 2.2 x 1.1 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 78 g (2.8 oz.)</td>
</tr>
</tbody>
</table>

*When charging Battery Pack NB-1LH

### Compact Power Adapter CA-PS500

*(Included with the optional AC Adapter Kit ACK500)*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>100-240 V AC (50/60 Hz)</td>
</tr>
<tr>
<td></td>
<td>0.17 A</td>
</tr>
<tr>
<td>Rated Output</td>
<td>4.3 V DC/1.5 A</td>
</tr>
<tr>
<td>Operating Temperatures</td>
<td>0-40 °C (32-104 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>42.6 x 104.4 x 31.4 mm (1.7 x 4.1 x 1.2 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 180 g (6.3 oz.)</td>
</tr>
</tbody>
</table>
Specifications

Car Battery Charger CBC-NB1 (Optional)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>DC 12-24 V, 4.3 W</td>
</tr>
<tr>
<td>Rated Output</td>
<td>4.2 V DC, 0.55 A</td>
</tr>
<tr>
<td>Charging Time</td>
<td>Approx. 130 minutes*</td>
</tr>
<tr>
<td>Operating Temperatures</td>
<td>0-40ºC (32-104ºF)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>90.4 x 56.0 x 28.0 mm (3.6 x 2.2 x 1.1 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 106 g (3.7 oz.)</td>
</tr>
</tbody>
</table>

* When charging Battery Pack NB-1LH
Index

A
AC Adapter Kit (ACK500) 130
AF Lock 60
AF Frame 31, 62
AF-assist Beam 95
AiAF 33
Autofocus 33, 62
Autofocus Lock 58
Auto Mode 42
Auto Rotate 72
AV Cable AVC-DC200 113

B
Battery
Battery Pack Charge 18
Capacity 139
Handling 19
Installing 20
Recharging 18
Battery Pack 18

C
Care and Maintenance 132
CF Card
Capabilities 139
Formatting 89
Handling 23
Installing 22
Car Battery Charger 131
Communication mode 116
Compression 45
Continuous Shooting 51
Custom White Balance 68

D
Date/Time 23
DIGITAL • A/V OUT Terminal 95, 96, 115
Digital Zoom 36, 50
Direct Interface Cable DIF-200 94

E
Direct Print function Compatible BJ
Printer 95
Direct Print function Compatible
Printer 94
Direct Printing 90
DPOF 90, 92, 103, 111
DPOF Print Order 90
Printing 104
Print Style 106
Resetting 108
Selecting Images 103
DPOF Transfer Order 111
Downloading Images to a Computer 114
Erasing
All Images 88
Single Images 87
Exposure 60, 64

F
FE Lock 61
File Number 73
File Sizes 140
Flash 47
Focus Lock 58
Formatting 89
Functions Available in Each Shooting Mode 148
Histogram 32

I
Image File Sizes 140
Index Replay 76
Indicator 17
ISO Speed 71
Index

L
Language 25
LCD Monitor
Information Displayed 30
Using the LCD Monitor 29

M
Macro Mode 49
Magnify 75
Manual Mode 42
Menu
Play 121
Rec. 118
Set up 123
Messages
List of Messages 126
Messages Displayed while a Direct Print Compatible Bubble Jet Printer is Connected 129
Messages Displayed while a Direct Print Compatible Printer is Connected 128
Metering Method 63
Mode Switch 16, 42
Movie
Movie Mode 28, 56
Replaying 77
Editing 79

O
On/Off Button 26
Optical Viewfinder 33

P
Photo Effect 70
Play Menu 121
Power On/Off 26
Power Lamp 16
Power Save 27
Print Settings (Direct Print Printers)
Number of Print Copies 99
Print Area (Trimming) 101
Print Style 99
Selecting Images 97
Protect 86

R
Rec. Menu 118
Red-Eye Reduction Function 48
Replay Mode 28
Resolution 45
Review Duration 44
Rotate 81
Self-Timer 52
Set up Menu 123
Shooting Mode 28, 42
Shutter Button 34
Pressing Fully 35
Pressing Halfway 34
Shutter Speed 65
Single Image Replay 74
Slide Show 82
Play Time 85
Repeat Settings 85
Spot AE Point Frame 31, 63
Stitch Assist Mode 53
Telephoto 36
USB Cable 115

V
Video Output System 113
Viewfinder 33
Viewing
Single Image Replay 74
Index Replay 76

W
White Balance 67
Wide Angle 36
Wrist Strap 15
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FCC Notice
(Digital Camera, Model PC1037)

This device complies with Part 15 of the FCC Rules. Operation is subject to the
following two conditions;
(1) this device may not cause harmful interference, and,
(2) this device must accept any interference received, including interference that may
cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B
digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to
provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not
installed and used in accordance with the instructions, may cause harmful interference
to radio communications. However, there is no guarantee that interference will not
occur in a particular installation. If this equipment does cause harmful interference to
radio or television reception, which can be determined by turning the equipment off
and on, the user is encouraged to try to correct the interference by one or more of the
following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the
  receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with
this equipment in order to comply with Class B limits in Subpart B of Part 15 of the
FCC rules.

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

Canon U.S.A. Inc.
One Canon Plaza, Lake Success, NY 11042, U.S.A.
Tel No. (516) 328-5600

Canadian Radio Interference Regulations
THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN
INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

Réglementation canadienne sur les interférences radio
CET APPAREIL NUMÉRIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU
RÈGLEMENT SUR LE MATÉRIEL BROUILLEUR DU CANADA.
### Functions Available in Each Shooting Mode

The chart below is a reference for the settings available for various shooting conditions. The settings selected in each shooting mode are saved after you finish shooting.

<table>
<thead>
<tr>
<th>Function</th>
<th>Auto</th>
<th>Manual</th>
<th>Stitch Assist</th>
<th>Movie</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resolution</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Medium 1</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Medium 2</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Small</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Movie</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>●</td>
<td>p. 45</td>
</tr>
<tr>
<td>Movie</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>●*</td>
<td>p. 45</td>
</tr>
<tr>
<td>Compression</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SuperFine</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Fine</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Normal</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td></td>
<td>p. 45</td>
</tr>
<tr>
<td>Flash</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>p. 47</td>
</tr>
<tr>
<td>Red-Eye Reduction</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td>–</td>
<td>p. 47</td>
</tr>
<tr>
<td>On</td>
<td>–</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>p. 47</td>
</tr>
<tr>
<td>Off</td>
<td>●</td>
<td>●</td>
<td>●*</td>
<td>●</td>
<td>p. 47</td>
</tr>
<tr>
<td>Slow-Synchro</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>p. 47</td>
</tr>
<tr>
<td><strong>Macro Mode</strong></td>
<td></td>
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</tr>
<tr>
<td>Infinity Mode</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>p. 49</td>
</tr>
<tr>
<td>Focus Lock</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>p. 58</td>
</tr>
<tr>
<td>AE Lock</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>p. 60</td>
</tr>
<tr>
<td>FE Lock</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>p. 61</td>
</tr>
<tr>
<td><strong>Shooting Method</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>●</td>
<td>●*</td>
<td>●*</td>
<td>●*</td>
<td>–</td>
</tr>
<tr>
<td>Continuous</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>p. 51</td>
</tr>
<tr>
<td>Self-Timer</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>p. 52</td>
</tr>
<tr>
<td><strong>Autofocus Modes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>p. 62</td>
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