To ensure the best performance from your camera, please read the Operating Manual before using the camera.
Accessing the Camera Settings
Simply press the  button or MENU button, or touch the LCD monitor to set up and operate the camera.

Press the  button.
This switches the camera to Playback mode to play back captured images and sound files (p.25).

Press the MENU button.
This displays menus to adjust the recorded pixels, EV compensation, and other advanced shooting settings (p.34, p.120).

Touch the LCD monitor.
This displays the [Capture Toolbar] ([Playback Toolbar] in Playback mode) to set the flash, self-timer, and other frequently used functions (p.34, p.74).

Using the touch display
Use the touch display by directly touching the LCD monitor with your finger. It is recommended that you use the stylus when precise operations are required such as editing images after shooting.

Touch
This refers to touching the touch display with your finger or the stylus and then releasing it. Touch an icon to select it, and release to set that option (a guide display appears describing the function of the selected icon before it is set). Touch an item for more than two seconds to cancel the selection. Press and hold down an arrow icon ( ) to change the setting or switch screens in some menus.

Double-touch
This refers to touching the touch display twice quickly. Use this to directly set a function without having to display the guide display.

Drag
This refers to touching and moving your finger or stylus across the touch display. Use this to change the displayed portion of an image or to change a setting by sliding the cursor along a setting bar. If you inadvertently select the wrong icon, drag your finger or the stylus from that icon to the desired icon, and then release your finger or the stylus to reselect.

Monitor Indications
These are the indications on the monitor during Capture or Playback mode.

Capture Mode

Playback Mode

* B1 to B6 only appear when the display is set to [Standard+Histogram] (p.40).

* D1 to D8 only appear when the display is set to [Standard+Histogram] (p.77).
First, you should read the chapters “Getting Started” and “Camera Features” while operating the Optio T20 to familiarize yourself with how the camera works. Refer to the other chapters as necessary for information on additional camera features.

1 Getting Started  p.12
   This chapter explains what you need to know about the camera. Be sure to read it and follow the instructions.

2 Camera Features  p.24
   This chapter explains the main features of the camera including basic operations such as taking pictures, recording movies and sounds, and printing images.

3 Taking Pictures  p.34
   This chapter goes into more detail about various ways to take pictures, how to set relevant functions, and how to get the most out of these functions.

4 Playing Back and Editing Images  p.74
   This chapter explains how to play back, delete, and edit still pictures, movies, and recorded sound.

5 Printing Images  p.112
   This chapter explains how to print still images using PictBridge and the DPOF printing setting with a DPOF-compatible printer or photo processing lab.

6 Settings  p.120
   This chapter explains how to format the SD Memory Card or the built-in memory, set the date and time, sound, LCD monitor brightness, and other camera-related functions.

7 Appendix  p.139
   This section details optional accessories and troubleshooting tips.

* For information on transferring images to a PC and installing ACDSee for PENTAX, see the supplied “PC Connection Manual”. For details on editing and printing images on a PC, see Help in the ACDSee for PENTAX software for related topics.

The symbols used in this operating manual are explained below.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>This indicates precautions to be taken when operating the camera.</td>
</tr>
<tr>
<td>📚</td>
<td>This indicates information that is useful to know.</td>
</tr>
<tr>
<td>📌</td>
<td>This indicates the reference page for an explanation of a related operation.</td>
</tr>
</tbody>
</table>
Thank you for purchasing this PENTAX Digital Camera.
Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera’s capabilities.

Regarding copyrights
Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Regarding trademarks
- PENTAX, Optio and smc PENTAX are trademarks of PENTAX Corporation.
- The SD logo is a trademark.
- QuickTime™ and QuickTime logo are trademarks used under license. The QuickTime logo is registered in U.S. and other countries.
- All other brands or product names are trademarks or registered trademarks of their respective owners.

To users of this camera
- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.

This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.

Copyright 2001 Seiko Epson Corporation. All Right Reserved.
PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation.

Regarding PictBridge
PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations.

Regarding Product Registration
In order to service you better, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website. Thank you for your cooperation.
Refer to the PC Connection Manual (bottom right of the front side) for more information.

- There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different from the actual product.
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USING YOUR CAMERA SAFELY

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

⚠️ **Warning**
This symbol indicates that ignoring this item could cause serious personal injury.

⚠️ **Caution**
This symbol indicates that ignoring this item could cause minor or medium personal injury, or material loss.

### About the Camera

⚠️ **Warning**
- Do not attempt to take the camera apart or modify the camera. High internal voltages are present which can produce electric shock.
- If internal parts of the camera become exposed as a result of the camera being damaged, do NOT touch the exposed portions, as there is a danger of receiving an electric shock.
- Keep the provided stylus away from infants and children to prevent possible injury or death.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed.
- Keep the provided strap away from infants and children to prevent possible injury or suffocation.
- Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the battery and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock.
**Caution**

- Never try to disassemble or short the battery. Also, do not dispose of the battery in fire, as it may explode.
- Do not charge any batteries other than rechargeable lithium-ion battery D-LI8. The battery could explode or catch fire.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring.
- If any battery leakage should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any battery leakage should come in contact with skin or clothes, wash the affected areas thoroughly with water.
- Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth.
- To avoid scratching the display screen of the LCD monitor, use only your finger or the provided stylus to make selections. Do not use sharp objects such as pens or pencils as they may cause the camera to malfunction.
About the Battery Charger and the AC Adapter

⚠️ Warning

- Do not use the product at a voltage other than the specified voltage. Use with a power source or voltage other than that designed can cause a fire or electrical shock. The specified voltage is 100 - 240V AC.
- Do not disassemble or modify the product. This can cause a fire or electrical shock.
- If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue using and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.
- If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.
- If thunderstorm should be present during use of the battery charger or AC adapter, unplug the power cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire or electrical shock.
- Wipe off the plug of the power cord if it should become covered with dust. This can cause a fire.

⚠️ Caution

- Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center.
- Do not short or touch the output terminals of the product while it is still plugged in.
- Do not plug in the AC plug cord with wet hands. This can cause an electrical shock.
- Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction.
- To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent.
- Do not use the battery charger to charge batteries other than rechargeable lithium-ion battery D-LI8. This can cause overheating or malfunctions.
Care to be Taken During Handling

- Take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc.
- The lens on this camera is not exchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Fingerprints and smudges may be removed from the display screen of the LCD monitor by wiping them gently with a soft, dry cloth.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove from case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- Do not use the camera where it may come in contact with rain, water or any other liquid, because the camera is not weather, water, or liquid resistant.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure as this may cause damage, malfunction, or a loss in waterproof performance. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the camera is subjected to substantial vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to.
• The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
• Periodic checks are recommended every 1 to 2 years in order to maintain high performance.
• If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
• Avoid contact with garbage, dirt, sand, dust, water, toxic gases, salt, etc. as this may cause damage to the camera. If rain or drops of water get onto the camera, please wipe dry.
• Refer to “Precautions When Using an SD Memory Card” (p.19) regarding the SD Memory Card.
• Please note that formatting an SD memory card or built-in memory will delete all data, however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera’s memory at your own risk.
• Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction.
• Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the LCD monitor.
• When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.
• The AC plug cord supplied with the camera is for exclusive use with the battery charger D-BC8. Do not use it with any other equipment.

Recycling Batteries

This symbol indicates that the battery is recyclable.
Cover the terminals with insulating tape and take the battery to a store displaying this symbol.

Li-ion

LED Safety Standard

This device is a digital still camera that conforms to the safety standard (IEC60825-1) for a Class 1 LED product.
Checking the Contents of the Package

If anything is missing or damaged, contact your local authorized PENTAX dealer.

Camera
Optio T20

Strap O-ST20 (*)

Stylus pen O-SP45

Software
(CD-ROM) S-SW61

USB cable I-USB17 (*)

AV cable I-AVC7 (*)

Rechargeable lithium-ion battery D-LI 8 (*)

Battery charger D-BC8 (*)

AC plug cord D-CO2 (*)

Operating Manual
(this manual)

PC Connection Manual

Items marked with an asterisk (*) are also available as optional accessories. For other optional accessories, refer to “Optional Accessories” (p.143).
Getting Started

Attaching the Strap

Attach the camera strap as shown below.

1. Pass the narrow end of the strap (1) through the strap lug on the camera.
2. Pass the other end of the strap through the loop (1) and pull tight (2).

Memo
The stylus can be attached to the strap for your convenience, if necessary.
Installing the Battery

Charging the Battery

1. Connect the AC plug cord to the battery charger.
2. Plug the AC plug cord into a power outlet.
3. Place the battery in the charger with the PENTAX logo facing up.
   The charging indicator glows red while the battery is charging and changes to green when charging is finished.
4. Remove the battery from the battery charger when fully charged.

Memo
- The time required to fully charge the battery is about 100 minutes (max.). The appropriate ambient temperature for charging the battery is 0°C to 40°C (32°F to 104°F). The charging time may vary depending on the ambient temperature and other conditions.
- The battery has reached the end of its service life when it starts to run down soon after being charged. Replace with a new battery.
Installing the Battery

Caution

- Do not use the battery charger to charge batteries other than the rechargeable lithium-ion battery D-LI 8, as the charger may overheat or become damaged.
- If the battery is inserted correctly but the charging indicator fails to light, the battery may be faulty or exhausted. Replace with a new battery.

Installing the Battery

Use only the battery that is provided with the camera. Charge the battery before using it in the camera for the first time.

1 Open the battery/card compartment cover.
   Slide the battery/card compartment cover in the direction of ① and flip the cover open in the direction of ②.

2 Use the side of the battery to lift the battery lock lever upward ③, and insert the battery with the PENTAX logo as shown.
   Push the battery in until it is locked in place.

3 Close the battery/card compartment cover.

Removing the Battery

1 Open the battery/card compartment cover.

2 Release the battery by using your finger to push the battery lock lever upward ③.
   The battery will be ejected. Pull the battery out of the camera.
Installing the Battery

Caution

- This camera uses the rechargeable lithium-ion battery D-LI 8. Use of any other type of battery may damage the camera and cause malfunction.
- If the battery is incorrectly inserted, malfunction may result.
- Do not remove the battery while the camera is turned on.
- If the camera will not be used for a long period of time, remove the battery.
- The date and time may revert to the default setting if the battery is removed from the camera for an extended period of time.

Image Recording Capacity and Playback Time
(at an ambient temperature of 23°C with the LCD monitor on and the battery fully charged)

<table>
<thead>
<tr>
<th>Image Recording Capacity *1 (with the flash used for 50% of the shots)</th>
<th>Playback Time *2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. 130 pictures</td>
<td>Approx. 100 min.</td>
</tr>
</tbody>
</table>

*1: Recording capacity shows the approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on and flash used for 50% of the shots at an ambient temperature of 23°C). Actual performance may vary depending on operating conditions.

*2: According to the results of PENTAX in-house testing.

Memo

- Battery performance may be temporarily reduced at low temperatures.
- Be sure to take a spare battery with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures.

Battery Level Indicator

The battery level can be checked by observing the \(\text{\ding{85}}\) indicator on the LCD monitor.

<table>
<thead>
<tr>
<th>Screen Display</th>
<th>Battery Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\text{\ding{85}}) (green)</td>
<td>Adequate power remains.</td>
</tr>
<tr>
<td>(\text{\ding{85}}) (green)</td>
<td>Battery is running low.</td>
</tr>
<tr>
<td>(\text{\ding{85}}) (red)</td>
<td>Battery is running very low.</td>
</tr>
<tr>
<td>Battery depleted</td>
<td>The camera will turn off after this message appears.</td>
</tr>
</tbody>
</table>
Installing the SD Memory Card

This camera uses an SD Memory Card. When an SD Memory Card is installed in the camera, captured images and sound files are saved on the card. If a card is not installed, they are saved in the built-in memory (p.20).

**Caution**
- Make sure the camera is turned off before inserting or removing the SD Memory Card.
- Be sure to format an SD Memory Card that is new or has been used on another camera. Refer to “Formatting an SD Memory Card and the Built-in Memory” (p.122) for instructions on formatting.

1. **Open the battery/card compartment cover.**
   Slide the battery/card compartment cover in the direction of 1 and flip the cover open in the direction of 2.

2. **Insert the SD Memory Card into the SD Memory Card slot so that the back of the card (the side without the label) is facing up toward the lens.**
   Push the card in until it clicks. Make sure to insert the card all the way into the slot or images and sound may not be recorded properly.

3. **Close the battery/card compartment cover.**
Getting Started

Installing the SD Memory Card

Memo
- The number of pictures that can be stored on an SD Memory Card will vary depending on the capacity of the card and the image resolution and quality level selected (p.50, p.52).
- The power indicator blinks while the SD Memory Card is being accessed (data is being recorded or read).

Backing Up Data
The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in the case of a malfunction.

Removing the SD Memory Card

1 Open the battery/card compartment cover.

2 Push the card into the SD Memory Card slot to eject it.
   Pull the card out.

3 Close the battery/card compartment cover.
Precautions When Using an SD Memory Card

- The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK write-protects the SD Memory Card. When the SD Memory Card is write-protected, the existing data is protected, and the recording of new data and deletion of existing data or formatting of the card is prohibited. \( \mathcal{L} \) appears on the LCD monitor when the card is write-protected.
- Be careful when removing the SD Memory Card immediately after using the camera, as the card may be hot.
- Do not remove the SD Memory Card or turn the camera off while data is being saved to the card, images or sound files are being played back, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature.
- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- The data on the SD Memory Card may be deleted in the following circumstances. PENTAX does not accept any liability for data that is deleted.
  1. when the SD Memory Card is mishandled by the user.
  2. when the SD Memory Card is exposed to static electricity or electrical interference.
  3. when the card has not been used for a long time.
  4. when the card is ejected or the battery is removed while the data on the card is being recorded or accessed.
- The SD Memory Card has a limited service life. If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
- When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.
- For information on compatible SD Memory Cards, visit the PENTAX website or contact your nearest PENTAX Service Center.
1 Press the power switch.

The camera turns on and is ready to take pictures (Capture mode). If the Initial Setting screen appears when you turn the camera on, follow the procedure on p.21 to make the initial settings.

2 Press the power switch again.

The camera turns off and the power indicator light goes off.

Checking the Memory Card

The memory card is checked automatically when the camera turns on, and an icon for the built-in memory or SD Memory Card appears on the LCD monitor.  

appears on the LCD monitor when an SD Memory Card is inserted, and  

appears when there is no SD Memory Card inserted. When  

appears on the LCD monitor, images and sound files will be saved in the built-in memory.

The [Card locked] message appears when the write-protect switch on the SD Memory Card is in the locked position. Images and sound cannot be recorded when the write-protect switch is locked.
Initial Settings

Set the language, time, and date before using the camera for the first time.

The Initial Setting screen appears when the camera is turned on for the first time. Perform the operations below to set the language and the current date and time.

1 Touch [Language/言語].
   The Language/言語 screen appears.

2 Choose a language from the screen display.
   If the desired language does not appear, touch the arrow icons to advance the screen and select the language.
   The Initial Setting screen appears in the selected language.

   [Hometown] and [Video Out] will appear in the selected language. If [Hometown] or [Video Out] is not correctly displayed, touch the flashing icon on the LCD monitor and change the setting.
3 Touch [OK].
The Date Adjust screen appears.

4 Touch [Date Style].
The Date Style screen appears.

5 Touch the arrow icons (← →) to choose the display style of the year, month, and day.
Select [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

6 Touch the arrow icons (← →) to choose the time display style.
Select [24h] (24-hour display) or [12h] (12-hour display).

7 Touch [OK].
The setting is saved and the screen returns to the Date Adjust screen.
8 Touch [Date].
   The Date screen appears.

9 Touch the arrow icons (↑ ↓) to set the current date.

10 Touch [OK].
   The setting is saved and the screen returns to the Date Adjust screen.

11 Touch [Time].
   The Time screen appears.

12 Touch the arrow icons (↑ ↓) to set the time.

13 Touch [OK].
   The setting is saved and the screen returns to the Date Adjust screen.

14 Touch [OK].
   The camera returns to Capture mode.

Caution
   If the MENU button is pressed without touching [OK] on the Date Adjust screen, the camera will return to Capture mode without setting the time. In this case, the Date Adjust screen will appear next time you turn the camera on.

The set language, date, and time can be changed. Refer to the pages below for instructions.
   • To change the language: “Changing the Display Language” (p.130)
   • To change the date and time: “Changing the Date and Time” (p.123)
2 Camera Features

Enjoy Taking Pictures

You can take beautiful pictures by simply composing your picture and pressing the shutter release button. To view and edit the pictures you have captured, just touch the LCD monitor to perform the desired operation. This section looks at the basics of how to capture, play back, and edit pictures.

1 Point the Camera

Turn on the camera (p.20) and point it in the direction of your subject. To prevent camera shake, hold the camera steady with both hands.

2 Compose Your Shot

Compose your shot using the LCD monitor. You can use the zoom lever to choose the area you want to capture (p.45).

3 Focus On the Subject

Lightly press the shutter release button to set the focus.

The focus frame on the LCD monitor turns green if the subject is in focus.

- The focus frame does not appear if the subject is not in focus.

**Memo**

Lightly pressing the shutter release button is referred to as pressing it “halfway”. When the shutter release button is pressed halfway, the focusing point and exposure (brightness) lock. When you remove your finger from the shutter release button, the locked focusing point and exposure are canceled.
4 Take the Picture

After the shutter release button is pressed halfway (which locks in the focusing point and exposure values), press it all the way down to take a picture.

The captured image appears on the LCD monitor for one second (Instant Review) and is saved.

- The Instant Review time can be adjusted (p.73). To delete the image without saving it, touch the \[i\] icon during Instant Review.

Memo

- Pressing the shutter release button all the way down is referred to as pressing it “fully”.
- Pressing the shutter release button also allows you to take pictures continuously (p.72). In addition, self-timer (p.69) and remote control (p.70) enable you to take pictures hands-free.

Using the Flash

By default, the flash is set to automatically fire when taking pictures in low light conditions. You can change the flash mode setting (p.56) to turn off the flash, reduce the brightness of the picture, prevent the subject from appearing with red eyes, and perform other functions.

Setting the flash mode

- Touch the LCD monitor \[\rightarrow [Capture Toolbar] \rightarrow \text{Flash Mode}\].

5 Play Back the Images

After taking a picture, press the \[\text{button to switch to Playback mode. The captured image appears on the LCD monitor (p.74). Touch the arrow icons (\[\leftarrow \rightarrow\]) to play back the images in order. In Playback mode, you can magnify (p.80), delete (p.89), or rotate the images (p.79). Additionally, you can view the images in a nine-image display (p.81) or as a slideshow (p.85).

Selecting the function for the displayed image

- In Playback mode, touch the LCD monitor \[\rightarrow [Playback Toolbar] \rightarrow select the function.\]
Enjoy Taking Pictures

Viewing Images on a TV
The pictures that you take can also be viewed on a TV or other AV equipment so that everyone can enjoy them (p.87).

Edit an Image
You can edit captured images (p.94).
You can change the size and quality level (p.94), crop an image (p.95), draw a picture (p.96), add stamps (p.96), add a frame (p.101), change the brightness (p.104), add sound (p.107), correct images where the flash has caused the subject to appear with red eyes (p.106), and more.

Selecting the editing method
► In Playback mode, touch the LCD monitor → [Playback Toolbar] → 

Various Editing Functions

Digital Filters
Use these to soften an image, give the image the look of an illustration, change the width of the subject to appear broader or more slender (p.105).

Selecting the editing method
► On the [Playback Palette], double-touch 🎨 → 🎨 or 🎨.

My Drawing
Use the supplied stylus to draw pictures on an image, add stamps, create a stamp from part of the image, and more (p.96).
Tips on Taking Pictures

Adjusting the Shooting Conditions
You can adjust the shooting conditions based on your creative intent.

- You can change the recorded pixels and quality level of the pictures depending on how you intend to use them (p.94).
  
  - MENU button → [Rec. Mode 1] → [Recorded Pixels] or [Quality Level]

- You can adjust the brightness of the picture.
  “Setting the Exposure (EV Compensation)” (p.53)
  
  - MENU button → [Rec. Mode 2] → [EV Compensation]

- You can adjust the color balance of the picture.
  “Adjusting the Color Balance (White Balance)” (p.58)
  
  - MENU button → [Rec. Mode 1] → [White Balance]

You can also adjust the sharpness, saturation, and contrast of the picture (p.60).

Selecting the Shooting Mode
By selecting the shooting mode according to the shooting situation, you can easily take pictures with the appropriate settings.
Select from Program, Night Scene, Landscape, Flower, Portrait, Surf & Snow, Sport, Pet, Food, and Frame Composite (p.42).

Selecting the shooting mode

- Touch the LCD monitor → [Capture Toolbar] → P.
Enjoy Recording Movies

With this camera, you can record movies (640×480 pixels at 30 fps), with sound for playback on a TV or PC, to an SD Memory Card or the built-in memory. Recorded movies can easily be edited with a variety of editing functions.

- You can also record movies at QVGA (320×240) size or at 15 fps.

1 Switch to Movie Recording Mode

To record movies, use the [Capture Palette] to switch to Movie Recording mode.

Switching to Movie Recording mode

- In Capture mode, touch the LCD monitor \[\text{Capture Toolbar}\] \(\rightarrow\) \(\text{P}\) \(\rightarrow\) double-touch \(\) .

2 Record a Movie

1. Press the shutter release button fully to start movie recording.
2. Press the shutter release button fully again to stop movie recording.

The information on the left appears on the LCD monitor during recording.

- Recording icon
- Remaining recordable time
3 Play Back the Movie

After recording a movie, press the ▶ button to switch to Playback mode. The recorded movie appears on the LCD monitor.

In Playback mode, you can reverse playback, pause playback, adjust the volume, and reverse or forward playback frame by frame (p.83).

4 Edit a Movie

You can save one frame from a movie (p.109).

Selecting the movie editing method

Touch the LCD monitor → [Playback Toolbar] →  
→ double-touch .

About Movie Recording:

Yes

• You can use both the optical and digital zoom when composing your shot, but only the digital zoom is available when recording (p.45).
• You can record movies by pressing and holding the shutter release button for more than one second.
• You can adjust the recorded pixels, frame rate, and quality level (p.51).
• You can set the white balance, sharpness, saturation, and contrast (p.58, p.60).
• You can correct the exposure before recording (p.53).

No

• Flash mode and continuous shooting mode are not available.
• You cannot change the following shooting conditions:
  [Focusing Area]: Spot (p.65)
  [Focus Limiter]: Off (p.66)
  [Aux.AF Light]: Off (p.66)
  [AE Metering]: Center-weighted metering (p.55)
  [Sensitivity]: Auto (p.67)
Enjoy Recording Sounds

You can record sounds to an SD Memory Card or the built-in memory. You can add an index during recording to help you quickly find the section of sound you want to listen to. You can also add voice memos to pictures you have taken.

1. **Switch to Voice Recording Mode**

   To record sounds, use the [Capture Palette] to switch to Voice Recording mode.

   **Switching to Voice Recording mode**
   
   In Capture mode, touch the LCD monitor → [Capture Toolbar] → P → double-touch 🎤.

2. **Record Sounds**

   Press the shutter release button fully to start voice recording. The self-timer lamp blinks during recording.

   Press the shutter release button fully again to stop voice recording.

   The following information appears on the LCD monitor during recording.
   
   ① Recording time
   ② Remaining recordable time
Using the Index Function for Quicker and Easier Playback

Touch [Index] on the LCD monitor during recording to add an index to the current sound file. By adding an index to a point in the sound file, you can quickly jump to that position during playback at any time.
- Indexes cannot be added during playback.

3 Play Back the Sound

After recording, press the \( \text{\text{REW}} \) button to switch to Playback mode.
In Playback mode, you can fast forward, fast rewind, and adjust the volume. When indexes are added during recording, you can fast forward or fast rewind to each index (p.84).

Adding a Voice Memo to a Picture

You can add a voice memo of up to 60 seconds to a picture you have already taken to describe the picture or how it was shot (p.107).
Enjoy Printing Images

After taking pictures and editing them, you can print them easily by using DPOF (Digital Print Order Format) settings. You can even print them directly from the camera without a PC when using a PictBridge-compatible printer. You can then share prints with friends and family or keep them in a photo album. Pictures can be output on a DPOF-compatible printer or printed by a local photo processing lab using DPOF settings that indicate the number of photos and date imprinting options for your “print order”.

1 Make the DPOF Print Settings

Choose the number of copies and if the date is to be superimposed on the pictures you want to print (DPOF settings) (p.112). The pictures can then be printed using a DPOF-compatible printer or photo processing lab.

- To use a photo processing lab, take the SD Memory Card containing the pictures with the print order data and ask to have them printed.

How to configure the DPOF settings

▶ In Playback mode, touch the LCD monitor → [Playback Toolbar] → → double-touch .

2 Set the USB Connection Mode

By connecting the camera to a PictBridge-compatible printer with the provided USB cable, you can print images directly from the camera without a PC.

To print pictures, you need to set the [USB Connection] mode on the camera to [PictBridge] in advance (p.132).

Setting the [USB Connection] mode

▶ MENU button → touch [Setting] → [USB Connection].
3 Connect the Camera to a Printer

Connect the camera to a printer that supports PictBridge using the provided USB cable. The settings for the number of copies and whether to superimpose the date can also be made on the camera when printing even if no DPOF print settings are made (p.115).

4 Print the Images

If the DPOF settings have already been made, simply touch [DPOF Setting] and then [Print] to print the pictures (p.118). You can also print individual images (p.116) or print all the images on an SD Memory Card or those stored in the built-in memory (p.118).

When printing is completed, turn off the camera, and disconnect the USB cable from the camera and printer.

Inserting the Date on Prints

By inserting the date on your prints, you can easily determine when the picture was taken. The setting for inserting the date can be made when making the DPOF settings or when printing (p.112, p.116, p.118).

- Not all printers are capable of date imprinting.
Setting the Shooting Functions

In Capture mode, press the **MENU** button or touch the LCD monitor to display the shooting settings.

- On the [Capture Palette], touch an icon to display the guide display. To skip the guide display, double-touch the icon.
- If you press the shutter release button or no operation is performed for a certain period of time, the camera returns to Capture mode.
- Press the **button to switch to Playback mode.
- Press the **MENU** button to return to the previous screen.
## Functions set with the [Capture Toolbar]

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shooting Mode</td>
<td>Sets the shooting mode according to the shooting condition or your subject.</td>
<td>P (Program)</td>
<td>p.42</td>
</tr>
<tr>
<td>Flash Mode</td>
<td>Sets the flash mode according to the shooting condition.</td>
<td>Ⅳ (Auto)</td>
<td>p.56</td>
</tr>
<tr>
<td>Drive Mode</td>
<td>Sets the self-timer, continuous shooting mode, and remote control.</td>
<td>□ (Standard)</td>
<td>p.69, p.70, p.72</td>
</tr>
<tr>
<td>Focus Mode</td>
<td>Sets the focus mode.</td>
<td>AF (Standard)</td>
<td>p.63</td>
</tr>
<tr>
<td>Information Display</td>
<td>Sets the type of information displayed on the LCD monitor.</td>
<td>Standard</td>
<td>p.40</td>
</tr>
</tbody>
</table>

## Functions set with the [Menu]

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recorded Pixels</td>
<td>Sets the number of recorded pixels of pictures.</td>
<td>(3072×2304)</td>
<td>p.49</td>
</tr>
<tr>
<td>Quality Level</td>
<td>Sets the quality level of pictures.</td>
<td>★ ★ (Better)</td>
<td>p.49</td>
</tr>
<tr>
<td>White Balance</td>
<td>Adjusts the color balance according to the light conditions.</td>
<td>AWB (Auto)</td>
<td>p.58</td>
</tr>
<tr>
<td>AF Setting Focusing Area</td>
<td>Chooses the focusing area.</td>
<td>(Multiple)</td>
<td>p.65</td>
</tr>
<tr>
<td>Focus Limiter</td>
<td>Limits the focus range.</td>
<td>On</td>
<td>p.66</td>
</tr>
<tr>
<td>Aux.AF Light</td>
<td>For choosing whether to use the auxiliary AF light when shooting in dimly lit locations.</td>
<td>On</td>
<td>p.66</td>
</tr>
<tr>
<td>AE Metering</td>
<td>For choosing which area of the image to measure for determining the exposure.</td>
<td>(Multi-segment metering)</td>
<td>p.55</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Sets the ISO sensitivity.</td>
<td>Auto</td>
<td>p.67</td>
</tr>
<tr>
<td>EV Compensation</td>
<td>Adjusts the overall brightness of the picture.</td>
<td>±0.0</td>
<td>p.53</td>
</tr>
<tr>
<td>Instant Review</td>
<td>Sets the amount of time an image is displayed on the LCD monitor after a picture is taken.</td>
<td>1 sec.</td>
<td>p.73</td>
</tr>
<tr>
<td>Sharpness</td>
<td>For choosing sharp or soft outlines.</td>
<td>(Normal)</td>
<td>p.60</td>
</tr>
<tr>
<td>Saturation</td>
<td>Adjusts the color saturation.</td>
<td>(Normal)</td>
<td>p.60</td>
</tr>
<tr>
<td>Contrast</td>
<td>Adjusts the image contrast level.</td>
<td>(Normal)</td>
<td>p.60</td>
</tr>
</tbody>
</table>
36

Taking Pictures

Setting the Shooting Functions

Up to four frequently used functions can be assigned to the [Capture Toolbar] for easy access when taking pictures or recording movies.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movie</td>
<td>Recorded Pixels</td>
<td>Sets the number of recorded pixels for movies.</td>
<td>640 (640×480)</td>
</tr>
<tr>
<td>Movie</td>
<td>Quality Level</td>
<td>Sets the quality level of movies.</td>
<td>★★★ (Best)</td>
</tr>
<tr>
<td>Movie</td>
<td>Frame Rate</td>
<td>Sets the frame rate (number of frames per second).</td>
<td>30fps</td>
</tr>
<tr>
<td>Common</td>
<td>Digital Zoom</td>
<td>Activates the digital zoom function.</td>
<td>On</td>
</tr>
<tr>
<td>Common</td>
<td>Memory</td>
<td>Retains your shooting settings or returns to the default values when the camera is turned off.</td>
<td>On (only for Flash mode, Digital Zoom, and File No.)</td>
</tr>
<tr>
<td>Common</td>
<td>Fn Setting</td>
<td>For quickly calling up frequently used functions.</td>
<td>Off</td>
</tr>
</tbody>
</table>

Calling Up Frequently Used Functions

Up to four frequently used functions can be assigned to the [Capture Toolbar] for easy access when taking pictures or recording movies.

Functions that can be called up when taking pictures and recording movies

<table>
<thead>
<tr>
<th>Item</th>
<th>When Taking Pictures</th>
<th>When Recording Movies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movie</td>
<td>Recorded Pixels</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Quality Level</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Frame Rate</td>
<td>—</td>
</tr>
<tr>
<td>Common</td>
<td>White Balance</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Focusing Area</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Focus Limiter</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>AE Metering</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Sensitivity</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>EV Compensation</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Sharpness</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Saturation</td>
<td>O</td>
</tr>
<tr>
<td>Movie</td>
<td>Contrast</td>
<td>O</td>
</tr>
</tbody>
</table>
Assigning a Function to the Capture Toolbar

1. Press the MENU button.
   The [Menu] appears.

2. Touch [Common].
   The Common screen appears.

3. Touch [Fn Setting].
   The Fn Setting screen appears.

4. Touch the OFF icon you want to assign a function to in the [Capture Toolbar].
   To assign a function to call up when taking pictures, touch the OFF icon under 📷.
   To assign a function to call up when recording movies, touch the OFF icon under 🎥.

5. Touch the icon of the function you want to assign to the [Capture Toolbar].
   - The setting is saved and the screen returns to the previous screen.
   - If the function you want to assign does not appear, touch [←] to advance the screen.

6. Repeat Steps 4 to 5 to assign the necessary functions.

7. Press the MENU button three times.
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

Memo
To cancel a function assigned to the [Capture Toolbar], touch the OFF (Off) icon in Step 5.
Setting the Shooting Functions

You can choose to have the camera save the following function settings when it is turned off. By using [Memory] in the Memory screen, you will not need to select the same settings again when shooting under similar conditions.

All other shooting-related functions not listed below are saved even if the camera is turned off.

<table>
<thead>
<tr>
<th>Item</th>
<th>Descriptions</th>
<th>Default Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Mode</td>
<td>The selected flash mode other than ( (Auto) is saved.</td>
<td>☑</td>
</tr>
<tr>
<td>Drive Mode</td>
<td>The selected drive mode setting ([Self-timer], [Cont. Shooting], or [Remote Control]) is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>Focus Mode</td>
<td>The selected focus mode other than ( (Standard) is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>Zoom Position</td>
<td>The optical zoom position set with the zoom lever is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>MF Position</td>
<td>The focusing distance chosen with manual focus is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>White Balance</td>
<td>The selected white balance setting other than ( (Auto) is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>AE Metering</td>
<td>The selected AE metering setting other than ( (Multi-segment metering) is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>The selected ISO sensitivity setting other than Auto is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>EV Compensation</td>
<td>An exposure setting other than ( is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>The digital zoom setting (On/Off) is saved.</td>
<td>☑</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>The LCD monitor display setting is saved.</td>
<td>☐</td>
</tr>
<tr>
<td>File No.</td>
<td>The file number is saved. If a new SD Memory Card is inserted, file numbers are assigned sequentially.</td>
<td>☑</td>
</tr>
</tbody>
</table>

- If you select ☑ (On), the settings are saved even if the camera is turned off. If you select ☐ (Off), the settings are reset to the defaults when the camera is turned off.
- A zoom position in the digital zoom range cannot be saved even when [Zoom Position] is set to On in [Memory].
1 Press the **MENU** button.
The [Menu] appears.

2 **Touch [Common].**
The Common screen appears.

3 **Touch [Memory].**
The Memory screen appears.

4 **Touch the setting you want to change.**
   - The setting changes to ☑ (On) or ☐ (Off).
   - If the function you want to change does not appear, touch [←] to advance the screen.

5 **Touch [OK].**

6 **Press the **MENU** button twice.**
   - The camera returns to Capture mode.
   - Press the ▶ button to return to Playback mode.
Displaying Shooting Information in Capture Mode

You can choose from the following four display modes when in Capture mode. Refer to “Monitor Indications” on the inside of the front cover for details of each display mode.

[Standard]

[Standard+Histogram]

[No info. Display]

[LCD Off]

Memo

- All buttons are operable even if the display mode is set to [LCD Off]. For example, pressing the shutter release button allows you to take pictures.
- ❞ appears when camera shake is likely to occur. Refer to p.62 for information on how to prevent camera shake.
- The shape of the histogram gives you information about the brightness and contrast of your picture (p.54).
- When firing the flash, ✰ (Flash icon) appears even if the display mode is set to [No info. Display].
1 In Capture mode, touch the LCD monitor.
   The [Capture Toolbar] appears.

2 Touch [DISPLAY].
   The DISPLAY Selection screen appears.

3 Touch the desired setting.
   The setting is saved and the camera returns to Capture mode.
Selecting a Shooting Mode

Selecting the Shooting Mode in the Capture Palette

By selecting the shooting mode according to the shooting situation, you can easily take pictures with the appropriate settings. The shooting modes for taking pictures are as shown below.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Shooting Mode</th>
<th>Description</th>
<th>Functions Not Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>📸</td>
<td>Program</td>
<td>The camera automatically adjusts the shutter speed and aperture for taking still pictures. You can set other shooting functions such as the flash mode or continuous shooting mode.</td>
<td>None</td>
</tr>
<tr>
<td>📸</td>
<td>Night Scene</td>
<td>The camera decreases the shutter speed for beautiful pictures of night views. To prevent camera shake, use a tripod or rest the camera on a flat surface when taking pictures with this mode. Use the flash if people are included (p.44).</td>
<td></td>
</tr>
<tr>
<td>🍃</td>
<td>Landscape</td>
<td>The camera sets the focus to keep both near and far objects as sharp as possible.</td>
<td></td>
</tr>
<tr>
<td>🌸</td>
<td>Flower</td>
<td>Flowers are captured with soft outlines.</td>
<td></td>
</tr>
<tr>
<td>🖤</td>
<td>Portrait</td>
<td>Gives your subject a bright, natural look.</td>
<td></td>
</tr>
<tr>
<td>🌊</td>
<td>Surf &amp; Snow</td>
<td>For taking pictures under extremely bright conditions such as beach and snow scenes.</td>
<td></td>
</tr>
<tr>
<td>🏋️‍♂️</td>
<td>Sport</td>
<td>The camera increases the shutter speed to make it easier to capture fast-moving subjects without blurring.</td>
<td></td>
</tr>
<tr>
<td>🐶</td>
<td>Pet</td>
<td>The camera takes into account the color of the pet's fur for proper exposure (p.44).</td>
<td></td>
</tr>
<tr>
<td>🍔</td>
<td>Food</td>
<td>The camera increases the saturation for bright, vivid pictures of food.</td>
<td></td>
</tr>
<tr>
<td>💍</td>
<td>Frame Composite</td>
<td>For shooting composite images using picture frames stored in the camera (p.47).</td>
<td>Cont. Shooting, Recorded Pixels</td>
</tr>
</tbody>
</table>
Selecting a Shooting Mode

Memo

• When Shooting mode is set to 🏃‍♂️ (Sport) or 🐶 (Pet), [Flash Mode] is set to ⚡ (Flash Off). However, the flash mode can be changed.
• When Shooting mode is set to 🌸 (Flower), [Focus limiter] is set to Off, but the setting can be changed.
• When Shooting mode is set to 🎳 (Frame Composite), the number of recorded pixels is fixed at 3M and cannot be changed.

1 In Capture mode, touch the LCD monitor.
The [Capture Toolbar] appears.

2 Touch the 📸 (Shooting Mode) icon.
• The icon of the currently selected shooting mode appears in place of the 📸 icon.
• The [Capture Palette] appears.

3 Touch the desired shooting mode icon.
A guide display of the selected shooting mode appears.
• To skip the guide display, double-touch the icon. The shooting mode is selected and the camera returns to Capture mode.
• Touch the arrow icons (ToLeft Right) to advance to other shooting modes.
• Touch [Palette] to return to the [Capture Palette].

4 Touch [OK].
The shooting mode is selected and the camera returns to Capture mode.

5 Press the shutter release button halfway.
The focus frame on the LCD monitor turns green if the subject is in focus.

6 Press the shutter release button fully.
The picture is taken.

Memo
You can set the display not to show the guide by default (p.137).
Taking Pictures in Dimly Lit Locations

When taking pictures under low light conditions, such as during twilight or at night, the camera shutter must be opened longer to allow more light in. This camera comes with a special mode 🌃 (Night Scene) for taking pictures when light levels are low. In Night Scene mode, the camera decreases the shutter speed for optimal exposure to capture beautiful pictures at night. You can also use this mode to take portraits with night scenes in the background as the camera will automatically select a long shutter speed even when using the flash.

Memo

- When pictures are taken in dimly lit locations, the shutter must stay open longer which contributes to camera shake. When using a shutter speed at which camera shake is likely to occur, ⚠️ (camera shake warning) appears on the LCD monitor. To prevent camera shake, use a tripod and the self-timer or remote control function.
- You can also increase the ISO sensitivity setting to take pictures in dimly lit locations without using the flash. When the sensitivity is increased, the shutter speed also increases, making it easier to prevent camera shake and blurring of the subject. However, noise, which appears as a grainy pattern, may appear in the picture (p.67).

Taking Pictures of Your Pet

In Pet mode (🐱), choose the appropriate icon depending on whether your pet is dark, light, or in between. The exposure will automatically be adjusted to produce the best picture. Choosing either the cat or dog icon does not affect the resulting picture. Choose whichever you prefer.
Composing Your Shot

Using the Zoom

When the zoom is set to a wide angle, more of the scene is included. When the zoom is set to telephoto, distant objects appear closer. Wide angle settings make near-to-far objects look further apart than they really are while telephoto settings make them look closer together.

1. **In Capture mode, turn the zoom lever toward  or .**

   - Tele : Brings the subject closer with a narrow angle of view.
   - Wide : Makes the subject smaller with a wider angle of view.

You can take pictures at up to three times magnification using the optical zoom. When the digital zoom is on, you can combine it with the optical zoom to enlarge the subject to a maximum magnification equivalent to 12 times.

![Zoom bar](image)

**Caution**

You cannot use the optical zoom when the focus mode is set to 🌿 (Macro). Only the digital zoom is available.

**Memo**

- Camera shake is likely to occur when taking pictures at telephoto settings. To prevent camera shake, use a tripod and the self-timer or remote control function.
- Using the digital zoom produces a slightly grainy image. For the best image quality, use optical zoom.
Setting the Digital Zoom

[Digital Zoom] is set to On in the default settings. To take pictures using only the optical zoom, set [Digital Zoom] to Off.

1 Press the MENU button.
The [Menu] appears.

2 Touch [Common].
The Common screen appears.

3 Touch [Digital Zoom].
The setting changes to ✔ (On) or □ (Off).

4 Press the MENU button twice.
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.
Taking Pictures with the Built-in Photo Frames

You can take pictures using any of the seven decorative frames stored in the camera.

1 **In Capture mode, touch the LCD monitor.**
   The [Capture Toolbar] appears.

2 **Touch the P (Shooting Mode) icon.**
   • The icon of the currently selected shooting mode appears in place of the P icon.
   • The [Capture Palette] appears.

3 **Double-touch the ❤ icon.**
   • The Frame Selection screen appears.
   • To bring up the guide display, single-touch the icon.

4 **Touch the arrow icons (← →) to choose the frame you want to use, and touch [OK].**
   • The setting is saved and the camera returns to Capture mode.

5 **Press the shutter release button halfway.**
   The focus frame on the LCD monitor turns green if the subject is in focus.

6 **Press the shutter release button fully.**
   The picture is taken.

**Memo**

- The frames used in this function are stored in the camera’s built-in memory. They can be replaced with different frames that can be copied from an SD Memory Card by touching [Change] on the Frame Selection screen (p.102).
- The number of recorded pixels is fixed at [3M].
- If the number of recorded pixels is other than [3M] before using this function and you change the shooting mode, the setting for the image size returns to the previous value.
Adjusting the Size, Quality Level, Brightness, and Color Tone

The camera will automatically adjust settings such as brightness and color tone to capture pictures and movies as optimally as possible. If, however, you want to use creative effects, you will need to customize the shooting functions. This section explains the various built-in functions that can help you to capture better pictures and movies.

**Size and Quality Level**
Set the size and quality level according to how you intend to use the pictures or movies (p.49).

**Brightness**
The brightness (exposure) of a picture is determined by the amount of light entering the camera lens (aperture) and the length of time the light is allowed to enter (shutter speed). If the brightness of a picture is not at the desired level, one solution is to adjust the setting using the EV compensation function (p.53). The AE metering function is also helpful in allowing you to select the metering method to measure proper brightness under different shooting situations (p.55).

When you take a picture in a dimly lit location, using the flash to illuminate the subject is a basic technique (p.56). But if you want a more natural feeling and do not want to use the flash, customizing the ISO sensitivity (p.67) can help produce a properly exposed image.

**Color Balance (White Balance)**
Use the white balance setting if the color balance of the image is not pleasing, or if you want to give the picture a bluish or reddish look (p.58).

**Sharpness, Saturation, and Contrast**
Sharpness, saturation and contrast settings are available in three levels (p.60) for sharpening or softening the outlines of an image, enhancing its vividness, and adjusting the image contrast.
## Setting the Recorded Pixels, Quality Level, and Frame Rate

You can set the number of recorded pixels (width × height) and quality level (data compression rate) for pictures and movies, and the frame rate (number of frames per second) for movies, according to how you intend to use the pictures or movies.

The larger the number of recorded pixels and quality level (indicated by the number of stars (★)), the clearer the details will appear when you print your picture or play back a movie. Similarly, the larger the frame rate, the smoother the movement will appear in movies. However, these increase the file size of pictures or movies, thereby reducing the number of pictures that can be stored in memory or the recording time for movies.

Set the [Recorded Pixels], [Quality Level], and [Frame Rate] settings according to how you intend to use your pictures and movies.

### For Pictures

#### Appropriate Number of Recorded Pixels According to Use

<table>
<thead>
<tr>
<th>Recorded Pixels</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3072 ×2304</td>
<td>For printing high quality photos or A4-size pictures or larger, or editing images on a PC.</td>
</tr>
<tr>
<td>2592 ×1944</td>
<td>For making postcard-size prints.</td>
</tr>
<tr>
<td>2304 ×1728</td>
<td>For posting on a website or attaching to e-mail.</td>
</tr>
<tr>
<td>2048 ×1536</td>
<td>Clearer and more detailed</td>
</tr>
<tr>
<td>1600 ×1200</td>
<td></td>
</tr>
<tr>
<td>640 ×480</td>
<td></td>
</tr>
</tbody>
</table>

#### Appropriate Quality Level According to Use

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>★★★ (Best)</td>
<td>Lowest compression rate. Suitable for printing A4-size pictures or larger.</td>
</tr>
<tr>
<td>★★ (Better)</td>
<td>Standard compression rate. Suitable for printing 3.5&quot;×5&quot; pictures and viewing the images on a computer screen.</td>
</tr>
<tr>
<td>★ (Good)</td>
<td>Highest compression rate. Suitable for posting on a website or attaching to e-mail.</td>
</tr>
</tbody>
</table>

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Rec. Mode 1].**
   The Rec. Mode 1 screen appears.
3 **Touch [Recorded Pixels].**
   The Recorded Pixels screen appears.

4 **Touch the desired recorded pixels.**
   The setting is saved and the screen returns to the previous screen.

5 **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

### Setting the Quality Level

In Step 3, **touch [Quality Level]** and select the desired quality.

![Quality Level](image)

**Memo**

- When Shooting mode is set to (Frame Composite), the number of recorded pixels is fixed at and cannot be changed.
- The quality of prints also depends on the resolution of your printer.

### Recorded Pixels, Quality Level and Approx. Image Storage Capacity

<table>
<thead>
<tr>
<th>Built-in Memory</th>
<th>256 MB</th>
<th>Built-in Memory</th>
<th>256 MB</th>
<th>Built-in Memory</th>
<th>256 MB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7M</strong> 3072 x 2304</td>
<td>3 pictures</td>
<td>69 pictures</td>
<td>6 pictures</td>
<td>135 pictures</td>
<td>9 pictures</td>
</tr>
<tr>
<td><strong>5M</strong> 2592 x 1944</td>
<td>4 pictures</td>
<td>83 pictures</td>
<td>7 pictures</td>
<td>162 pictures</td>
<td>11 pictures</td>
</tr>
<tr>
<td><strong>4M</strong> 2304 x 1728</td>
<td>5 pictures</td>
<td>105 pictures</td>
<td>9 pictures</td>
<td>202 pictures</td>
<td>14 pictures</td>
</tr>
<tr>
<td><strong>3M</strong> 2048 x 1536</td>
<td>6 pictures</td>
<td>135 pictures</td>
<td>12 pictures</td>
<td>255 pictures</td>
<td>18 pictures</td>
</tr>
<tr>
<td><strong>2M</strong> 1600 x 1200</td>
<td>9 pictures</td>
<td>202 pictures</td>
<td>16 pictures</td>
<td>347 pictures</td>
<td>26 pictures</td>
</tr>
<tr>
<td><strong>640</strong> 640 x 480</td>
<td>39 pictures</td>
<td>810 pictures</td>
<td>65 pictures</td>
<td>1350 pictures</td>
<td>92 pictures</td>
</tr>
</tbody>
</table>

![Recorded Pixels](image)

- The above figures may vary depending on the subject, shooting conditions, shooting mode and capacity of the SD Memory Card, etc.
For Movies

Appropriate Number of Recorded Pixels According to Use

<table>
<thead>
<tr>
<th></th>
<th>640×480</th>
<th>Suitable for viewing the movie on a TV or PC.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>320×240</td>
<td>Suitable for posting on a website or attaching to e-mail.</td>
</tr>
</tbody>
</table>

Appropriate Quality Level According to Use

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>★★★</td>
<td>(Best)</td>
</tr>
<tr>
<td>★★</td>
<td>(Better)</td>
</tr>
<tr>
<td>★</td>
<td>(Good)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clearer and more detailed images</td>
</tr>
<tr>
<td></td>
<td>Grainier images</td>
</tr>
</tbody>
</table>

Appropriate Frame Rate According to Use

<table>
<thead>
<tr>
<th>Frame Rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30fps</td>
<td>Smoother transition</td>
</tr>
<tr>
<td>15fps</td>
<td>Longer recording time</td>
</tr>
</tbody>
</table>

1 Press the MENU button.
The [Menu] appears.

2 Touch [Movie].
The Movie screen appears.

3 Touch [Recorded Pixels].
The Recorded Pixels screen appears.

4 Touch the desired recorded pixels.
The setting is saved and the screen returns to the previous screen.

5 Press the MENU button twice.
• The camera returns to Capture mode.
• Press the button to return to Playback mode.
Setting the Quality Level and Frame Rate

In Step 3, touch [Quality Level] or [Frame Rate] and select the desired setting.

Recorded Pixels, Quality Level, Frame Rate and Approx. Recording Time

<table>
<thead>
<tr>
<th></th>
<th>30fps</th>
<th>15fps</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Built-in Memory</td>
<td>256 MB</td>
</tr>
<tr>
<td>640×480</td>
<td>★★★</td>
<td>9 sec.</td>
</tr>
<tr>
<td></td>
<td>★★</td>
<td>13 sec.</td>
</tr>
<tr>
<td></td>
<td>★</td>
<td>19 sec.</td>
</tr>
<tr>
<td>320×240</td>
<td>★★★</td>
<td>23 sec.</td>
</tr>
<tr>
<td></td>
<td>★★</td>
<td>36 sec.</td>
</tr>
<tr>
<td></td>
<td>★</td>
<td>51 sec.</td>
</tr>
</tbody>
</table>

- The above figures may vary depending on the subject, shooting conditions, shooting mode and capacity of the SD Memory Card, etc.
Setting the Exposure (EV Compensation)

You can adjust the overall brightness of the picture.

1 **Press the MENU button.**
   The [Menu] appears.

2 **Touch [Rec. Mode 2].**
   The Rec. Mode 2 screen appears.

3 **Touch [EV Compensation].**
   The EV Compensation screen appears.

4 **Touch the ▼ or ▲ icon to adjust the EV setting.**
   - To brighten, touch the ▲ icon. To darken, touch the ▼ icon. You can choose the EV setting in the range of -2.0 EV to +2.0 EV in 1/3 EV steps.
   - You can also drag the cursor on the EV Compensation bar to the desired setting.
   - The histogram is a graph that shows the brightness distribution of an image (p.54).

5 **Touch [OK].**
   The setting is saved and the screen returns to the previous screen.

6 **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the Q button to return to Playback mode.

### Memo

The camera adjusts the proper exposure for the subject based on a neutral gray subject. Therefore, if you take a picture of a snowy scene or a black piano, for example, the subject may appear gray. To make black objects appear black, adjust the EV setting toward ▼, and to make white objects appear white, adjust it toward ▲.
Using the Histogram

This camera has a function for displaying a graph (histogram) that shows the tonal range of your scene with the darkest areas on the left and the brightest ones to the right. The height of the points along the graph show the number of pixels at each brightness value. The shape of the histogram, which can be viewed before and after shooting, shows the brightness and contrast of the picture so you can decide if you want to use EV compensation to improve it.

“Displaying Shooting Information in Capture Mode” (p.40), “Displaying Shooting Information” (p.77)

Understanding Brightness

Usually, if the exposure is correct, the graph peaks in the middle. If the image is too dark, the peak is on the left side, and if it is too bright, the peak is on the right side.

![Dark image](image1) ![Correct image](image2) ![Bright image](image3)

When the image is too dark, the part to the left is cut off (dark portions) and when the image is too bright, the part to the right is cut off (bright portions).

With EV compensation, you can adjust the exposure so that the distribution is contained within the graph without the graph peaking on the left or right side, thereby preventing pictures that are too dark or too light.

Understanding Contrast

The graph peaks gradually for images in which contrast is balanced. The graph peaks on both sides but sinks in the middle for images with a large difference in contrast and low amounts of mid-level brightness.
Selecting the AE Metering

You can choose which area of the image to measure for determining the exposure (brightness).

**AE Metering**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌍</td>
<td>Multi-segment</td>
<td>The camera takes a detailed reading of the overall brightness of the picture and determines the correct exposure. The camera can obtain a relatively correct exposure even for complex subjects with both dark and light areas.</td>
</tr>
<tr>
<td>🌍</td>
<td>Center-weighted</td>
<td>The camera takes a uniform reading of the overall brightness of the picture with the metering focused at the center of the image. You can take pictures with the correct exposure for subjects at the center of the picture even if the surrounding background is lighter or darker than the subject.</td>
</tr>
<tr>
<td>🎈</td>
<td>Spot AE</td>
<td>The camera determines the exposure by metering only the objects in the center spot. Use this to obtain correct exposure on a small part of the image.</td>
</tr>
</tbody>
</table>

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Rec. Mode 1].**
   The Rec. Mode 1 screen appears.

3. **Touch [AE Metering].**
   The AE Metering appears.

4. **Touch the desired AE metering method.**
   The setting is saved and the screen returns to the previous screen.

5. **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the 📷 button to return to Playback mode.

**Memo**

- When the shutter release button is pressed halfway, the camera meters the brightness and determines the exposure.
- When the subject is outside the focusing area and you want to use spot AE metering, aim the camera at the subject and press the shutter release button halfway to lock the exposure, then compose your picture again and press the shutter release button fully.
- When the shooting mode is set to 🎥 (Movie), the AE metering is fixed at Center-weighted metering and cannot be changed.
Taking Pictures

Adjusting the Size, Quality Level, Brightness, and Color Tone

Using the Flash

Flash Mode

<table>
<thead>
<tr>
<th>Flash Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>The flash discharges automatically depending on the light conditions.</td>
</tr>
<tr>
<td>Flash Off</td>
<td>The flash will not discharge.</td>
</tr>
<tr>
<td>Flash On</td>
<td>The flash will discharge each time a picture is taken.</td>
</tr>
<tr>
<td>Flash On + Red-eye</td>
<td>This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject’s eyes. The flash will discharge regardless of the light conditions.</td>
</tr>
<tr>
<td>Soft</td>
<td>This mode reduces the intensity of the flash so that the flash is not too bright when fired at close range. The flash will discharge regardless of the light conditions.</td>
</tr>
</tbody>
</table>

1. In Capture mode, touch the LCD monitor.
   The [Capture Toolbar] appears.

2. Touch the Flash Mode icon.
   - The icon of the currently selected flash mode appears in place of the Flash Mode icon.
   - The Flash Mode screen appears.

3. Touch the desired flash mode.
   - The setting is saved and the camera returns to Capture mode.
   - Press the button to return to Playback mode.

Memo

- The approximate range of the flash is 0.15 m to 4.5 m when not using the 3× optical zoom (wide-angle setting) and 0.4 m to 2.5 m when using the 3× optical zoom (telephoto setting). If the subject is too far from the camera, it will not be illuminated by the flash. Additionally, if the subject is too close to the camera, exposure will not be correctly adjusted. Increase the sensitivity (p.67) to extend the effective range of the flash.
- You can also increase the ISO sensitivity setting to take pictures in dimly lit locations without using the flash. When the sensitivity is increased, the shutter speed also increases, making it easier to prevent camera shake and blurring of the subject. However, you may notice increased noise, which looks like a grainy pattern, in the picture (p.67).
• The flash mode is fixed at ② (Flash Off) when the shooting mode is set to ⑧ (Movie), the drive mode is set to ⑨ (Cont. Shooting), or the focus mode is set to ① (Infinity).

• Taking pictures using the flash in dark locations may cause the subject’s eyes to appear red in the resulting picture. This phenomenon occurs when the light from the flash is reflected in the subject’s eyes. Setting the flash mode to ⑤ (Auto + Red-eye) or ⑥ (Flash On + Red-eye) is an effective way of preventing red eyes. It can be also reduced by illuminating the area around the subject or moving closer to the subject and zooming out. If the subject’s eyes still appear red despite such precautions, they can be corrected by the red-eye compensation function later (p.106).

• Pre-flashes discharge when the flash mode is set to ⑤ (Auto + Red-eye) or ⑥ (Flash On + Red-eye).
Adjusting the Size, Quality Level, Brightness, and Color Tone

Taking Pictures

Adjusting the Color Balance (White Balance)

White balance is a function for adjusting the color of an image so that white objects appear white. If the automatic camera settings do not provide the desired color balance, or if you want to make pictures more bluish or reddish, you can adjust the White Balance setting.

<table>
<thead>
<tr>
<th>AWB</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>The camera automatically adjusts the color balance.</td>
</tr>
<tr>
<td>☀️ Daylight</td>
<td>Use this mode when taking pictures outside in sunlight.</td>
</tr>
<tr>
<td>🌧 Shade</td>
<td>Use this mode when taking pictures outside in the shade. It reduces the bluish color tones in a picture.</td>
</tr>
<tr>
<td>🌃 Tungsten Light</td>
<td>Use this mode when taking pictures under electric or other tungsten light. It reduces the reddish color tones in a picture.</td>
</tr>
<tr>
<td>🌃 Fluores. Light</td>
<td>Use this mode when taking pictures under fluorescent light.</td>
</tr>
<tr>
<td>📡 Manual</td>
<td>Use this to manually adjust the white balance according to the lighting so that white objects appear as a natural white.</td>
</tr>
</tbody>
</table>

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Rec. Mode 1].**
   The Rec. Mode 1 screen appears.

3. **Touch [White Balance].**
   The White Balance screen appears.

4. **Touch the arrow icons (_left_right_) to choose the white balance.**

5. **Touch [OK].**
   The setting is saved and the screen returns to the previous screen.

6. **Press the MENU button twice.**
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.

**Memo**
Using the white balance 🌧 (Shade) when taking pictures of sunsets and sunrises emphasizes their reddish tones.
Adjusting the White Balance Manually (Manual)

Have a blank sheet of white paper or similar material ready.

1. **Select [Manual] on the White Balance screen.**
   
   [Adj.] and the adjustment frame appear.

2. **Point the camera at the blank sheet of paper or other material so that it fills the middle of the adjustment frame.**

3. **Touch [Adj].**
   
   The white balance is adjusted, and [Complete] appears when adjusting is finished.

4. **Touch [OK].**
   
   The setting is saved and the screen returns to the previous screen.

5. **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

**Memo**

When you touch [OK] before pressing [Adj.], the previously adjusted white balance value is retained even if (Manual) is adjusted.
Adjusting the Sharpness, Saturation, and Contrast

Sharpness, saturation, and contrast each have three levels of adjustment available for sharpening or softening image outlines, enhancing vividness, and adjusting image contrast.

1 Press the MENU button.
   The [Menu] appears.

2 Touch [Rec. Mode 2].
   The Rec. Mode 2 screen appears.

3 Touch [Sharpness].
   The Sharpness screen appears.

4 Touch the level of sharpness.
   • Select $S^*$ (Soft), $S$ (Normal), or $H$ (Hard).
   • The setting is saved and the screen returns to the previous screen.

5 Press the MENU button twice.
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.

Setting the Saturation and Contrast

In Step 3, touch [Saturation] or [Contrast].
Select $D^*$ (Low), $D$ (Normal), or $E^*$ (High) for the saturation, and $I^*$ (Low), $I$ (Normal), or $K^*$ (High) for the contrast.
Focusing

The camera automatically focuses on your subject when you press the shutter release button halfway. If, however, you want to quickly focus on a specific point, you will need to select one of the camera’s focus modes. This section explains the various focusing settings.

**Choosing the Focusing Range**

By default, the camera automatically focuses on subjects within a range of approximately 40 cm to infinity. By setting the [Focus Limiter] (p.66) to Off, you can focus on subjects within a range of approximately 15 cm to infinity.

Set the focus mode when you want to quickly focus on close or distant objects, when you want to keep everything on the screen in focus, or when you want to focus manually (p.63).

**Choosing the Focusing Area**

By default, the camera focuses on the closest object in the middle of the focus frame. Select another focusing option if you want the camera to focus on a different point (p.65).

**Subjects Difficult to Focus On**

The camera may not be able to focus under the following conditions. In this case, lock the focus on an object the same distance away as the subject (by pressing the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully.

- Objects that lack contrast such as a blue sky or white wall
- Dark places or objects, or conditions that prevent light being reflected back
- Horizontal lines or intricate patterns
- Fast moving objects
- When there is an object in the foreground and an object in the background in the same picture
- Strongly reflected light or strong backlighting (bright background)
Focusing

Focusing in Dimly Lit Locations
By default, the camera is set to use the auxiliary AF light for easier focusing in dimly lit locations (p.66).

Preventing Camera Shake and Blurring of the Subject
There are several solutions to prevent inadvertent camera movement (camera shake) and blurring of the subject. Increasing the ISO sensitivity (p.67) or using the flash (p.56) is one solution as the camera then takes pictures at higher shutter speeds. Higher shutter speeds are effective for preventing both camera shake and blurring of the subject.
You can check if camera shake is likely to occur when 🚨 (camera shake warning) appears on the LCD monitor. Using a tripod and the self-timer (p.69) or remote control function (p.70) is recommended especially when camera shake is likely to occur.

Changing the Depth of Field
By zooming in on your subject from a close distance, you can narrow the depth of field and create a blurred background (p.45).
Taking Pictures

In Capture mode, touch the LCD monitor.

The [Capture Toolbar] appears.

2 Touch the AF (Focus Mode) icon.
   • The icon of the currently selected focus mode appears in place of the AF icon.
   • The Focus Mode screen appears.

3 Touch the desired focus mode.
   • The setting is saved and the camera returns to Capture mode.
   • Press the button to return to Playback mode.

Caution

You cannot use the optical zoom when the focus mode is set to (Macro).
Only the digital zoom is available.

Memo

• If focusing is not possible with AF (Standard), the camera operates as follows.
  • When the flash is fired or [White Balance] is set to [Fluores. Light] or [Tungsten Light], the camera focuses at a distance of 2 m (6.6 ft.).
  • In all other situations, the focus mode is automatically switched to [Pan Focus].
  • If focusing is not possible with (Macro), pictures cannot be taken.
Adjusting the Focus Manually

   The Adjustable MF guide appears on the LCD monitor.

2. Touch a point inside the Adjustable MF guide.
   The area inside the Adjustable MF guide is enlarged to fill the screen.

3. Touch the arrow icons (|required|) to adjust the focus.
   The MF bar appears on the LCD monitor to indicate the approximate manual focus position. Use this to adjust the focus.
   - : For closer focus
   - : For distant focus

4. Press the shutter release button halfway.
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

Memo

The camera returns to Capture mode and the picture can be taken five seconds after you release your finger from either arrow icon (|required| or required).
Setting the Autofocus Conditions

Choosing the Focusing Area

<table>
<thead>
<tr>
<th></th>
<th>Multiple</th>
<th>Measures a wide range in the center portion within the focusing area and focuses on the nearest object.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spot</td>
<td>Measures narrower range in the focusing area.</td>
</tr>
</tbody>
</table>

1  Press the **MENU** button.
   The [Menu] appears.

2  Touch [Rec. Mode 1].
   The Rec. Mode 1 screen appears.

3  Touch AF.
   The AF Setting screen appears.

4  Touch [Focusing Area].
   The Focusing Area screen appears.

5  Touch the focusing area you want to set.
   The setting is saved and the screen returns to the previous screen.

6  Press the **MENU** button three times.
   - The camera returns to Capture mode.
   - Press the **Q** button to return to Playback mode.

**Memo**
When the shooting mode is set to **C** (Movie), the focusing area is fixed at **[]** (Spot) and cannot be changed.
Limiting the Focus Range (Focus Limiter)

<table>
<thead>
<tr>
<th></th>
<th>On</th>
<th>Focuses on a subject within the range of approximately 40 cm (16 in.) to infinity.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Off</td>
<td>Focuses on a subject within the range of approximately 15 cm (6 in.) to infinity when the zoom is not used (wide-angle setting). Focuses on a subject within the range of approximately 40 cm (16 in.) to infinity when the zoom is used (telephoto setting).</td>
</tr>
</tbody>
</table>

1. **Touch [Focus Limiter] on the AF Setting screen.**
   
   The setting changes to ☑ (On) or ☐ (Off).

2. **Press the MENU button three times.**
   
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

   **Memo**

   When Capture mode is set to 🌸 (Flower), [Focus limiter] is set to Off, but you can change the setting.

Using the Auxiliary AF Light

<table>
<thead>
<tr>
<th></th>
<th>On</th>
<th>When the autofocus does not work properly because the subject is in a dark location, the subject is illuminated with the auxiliary AF light (green light) to make it easier to focus on the subject.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Off</td>
<td>The auxiliary AF light is not activated even when the subject is too dark.</td>
</tr>
</tbody>
</table>

1. **Touch [Aux.AF Light] on the AF Setting screen.**
   
   The setting changes to ☑ (On) or ☐ (Off).

2. **Press the MENU button three times.**
   
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.
Focusing

**Caution**

The auxiliary AF light of this camera conforms to the safety standard (IEC60825-1) for Class 1 LED products. Looking at the light directly will not create safety hazard. However, do not look into the emitter from a very short distance as it may make you dizzy.

**Memo**

The auxiliary AF light is not activated when the shooting mode is set to 🎥 (Movie), or the focus mode is set to PF (Pan Focus), ∞ (Infinity), or MF (Manual Focus).

### Setting the Sensitivity

You can select the sensitivity to suit the brightness of the surroundings.

<table>
<thead>
<tr>
<th>Auto</th>
<th>The optimal value is automatically selected from 80, 160, 320, or 400.</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>The lower the sensitivity, the less noise that affects the image. However the shutter speed will be slower in low light conditions, so that camera shake could cause blurred images.</td>
</tr>
<tr>
<td>160</td>
<td>The higher the sensitivity, the faster the shutter speed becomes even in low light conditions. However, the image may show more noise (grainy effect).</td>
</tr>
<tr>
<td>320</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td></td>
</tr>
</tbody>
</table>

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Rec. Mode 1].**
   The Rec. Mode 1 screen appears.

3. **Touch [Sensitivity].**
   The Sensitivity screen appears.

4. **Touch the desired sensitivity.**
   The setting is saved and the screen returns to the previous screen.

5. **Press the MENU button twice.**
   • The camera returns to Capture mode.
   • Press the 🔍 button to return to Playback mode.
**Memo**

When the shooting mode is set to 🎥 (Movie), the sensitivity is fixed at Auto and cannot be changed.

---

**Taking Pictures**

Instead of pressing the shutter release button on the camera, you can use the self-timer (p.69) or remote control function (p.70) to take pictures. You can also take continuous pictures (p.72) by keeping the shutter release button pressed.

The captured image appears on the LCD monitor for one second (Instant Review) and is saved.

The Instant Review time can be changed (p.73).
Using the Self-timer

In Self-timer mode, the picture is taken ten seconds or two seconds after the shutter release button is pressed. Stabilize the camera with a tripod when taking a picture with the self-timer.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📸️</td>
<td>This mode lets you be included in a group picture. The picture is taken about ten seconds after the shutter release button is pressed.</td>
</tr>
<tr>
<td>📸️</td>
<td>This mode smoothly releases the shutter without shaking the camera. The picture is taken about two seconds after the shutter release button is pressed.</td>
</tr>
</tbody>
</table>

1 **In Capture mode, touch the LCD monitor.**
   The [Capture Toolbar] appears.

2 **Touch the 📸️ (Drive Mode) icon.**
   - On the [Capture Toolbar], the icon of the currently selected [Drive Mode] appears in place of the 📸️ icon.
   - The Drive Mode screen appears.

3 **Touch the 📸️ (self-timer mode) icon.**
   - On the Drive Mode screen, the icon of the currently selected self-timer mode appears in place of the 📸️ icon.
   - The 📸️ and 📸️ icons appear on the LCD monitor.
   - The self-timer options can be switched at any time by touching the 📸️ or 📸️ icon.

4 **Press the shutter release button halfway.**
   The focus frame on the LCD monitor turns green if the subject is in focus.

5 **Press the shutter release button fully.**
   A countdown of the time until the picture is taken appears on the LCD monitor, and the picture is taken ten seconds or two seconds after the shutter release button is pressed.

**Memo**

Pressing the shutter release button halfway during the countdown cancels the countdown. Press the shutter release button fully to restart the countdown.
Taking Pictures

Using the Remote Control

Instead of pressing the shutter release button, you can use the Remote control E or F (optional) to take pictures.

1 **In Capture mode, touch the LCD monitor.**
   The [Capture Toolbar] appears.

2 **Touch the □ (Drive Mode) icon.**
   - On the [Capture Toolbar], the icon of the currently selected [Drive Mode] appears in place of the □ icon.
   - The Drive Mode screen appears.

3 **Touch the 3s (Remote Control) icon.**
   - On the Drive Mode screen, the icon of the currently selected remote control mode appears in place of the 3s icon.
   - The 3s and 3s icons appear on the LCD monitor.
   - The remote control options can be switched at any time by touching the 3s or 3s icon.
   - The self-timer lamp blinks in remote control mode.

4 **Press the shutter release button on the remote control.**
   3s: The self-timer lamp flashes quickly and the picture is taken after approximately three seconds.
   □: The picture is immediately taken.

**Memo**
To cancel recording in Movie Recording mode, press the shutter release button on the remote control or the camera.
Using the Remote Control to Adjust the Zoom Magnification

With the Remote control E (optional), you can also adjust the zoom magnification with the zoom button.

1 Press the zoom button on the remote control in remote control mode.

The zoom magnification changes each time the button is pressed.

⚠️ **Caution**

- You cannot use the zoom button on the remote control when the focus mode is set to 🌟 (Macro).
- You can only use the zoom button on the remote control to adjust the zoom magnification within the optical zoom range. You cannot adjust the zoom magnification within the digital zoom range.

🔧 **Memo**

- All buttons on the camera are operable even when using the remote control function.
- The remote control can be operated up to approximately 4 m (13 ft.) from the front of the camera.
- With a new battery, the remote control can send signals to the camera approximately 30,000 times.
Taking Continuous Pictures

In this mode, pictures are taken continuously for as long as the shutter release button is pressed.
You can continue shooting until the memory capacity of the SD Memory Card or built-in memory is full.

1 **In Capture mode, touch the LCD monitor.**
   The [Capture Toolbar] appears.

2 **Touch the (Drive Mode) icon.**
   - On the [Capture Toolbar], the icon of the currently selected drive mode appears in place of the icon.
   - The Drive Mode screen appears.

3 **Touch the icon.**
   The setting is saved and the camera returns to Capture mode.

4 **Press the shutter release button halfway.**
   The focus frame on the LCD monitor turns green if the subject is in focus.

5 **Press the shutter release button fully.**
   Pictures are taken continuously for as long as you keep the shutter release button pressed.

**Caution**

The flash will not discharge in Continuous Shooting mode.

**Memo**

- The interval of continuous shooting will vary according to the recorded pixels and quality level settings.
- The focus and exposure are locked with the first image.
Taking Pictures

Setting the Instant Review Time

You can choose the Instant Review time (the length of time the image is displayed immediately after a picture is taken) from [1sec], [2sec], [3sec], [4sec], [5sec] and [Off] (no display).

1  Press the MENU button.
   The [Menu] appears.

2  Touch [Rec. Mode 2].
   The Rec. Mode 2 screen appears.

3  Touch [Instant Review].
   The Instant Review screen appears.

4  Touch the desired Instant Review time.
   The setting is saved and the screen returns to the previous screen.

5  Press the MENU button twice.
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.
Setting the Playback Functions

Press the \( \text{ \( \rightarrow \) button \} \) to switch from Capture mode to Playback mode. In Playback mode, you can use the [Playback Toolbar] to set the playback functions.

Touching an icon on the [Playback Palette], brings up the guide display. To skip the guide display, double-touch the icon.

If you press the \( \text{ \( \rightarrow \) button \} \) or no operation is performed for a certain period of time, the camera returns to Playback mode.

Press the shutter release button (fully or halfway) to switch to Capture mode.

Press the \( \text{MENU} \) button to return to the previous screen.

Continue with operations while following the on-screen guidance.
### Functions Set with the [Playback Toolbar]

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playback Palette</td>
<td>The Playback Palette appears.</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Image Enlargement</td>
<td>Magnifies images.</td>
<td>—</td>
<td>p.80</td>
</tr>
<tr>
<td>Image Rotation</td>
<td>Rotates images.</td>
<td>—</td>
<td>p.79</td>
</tr>
<tr>
<td>Image Deletion</td>
<td>Deletes unwanted images.</td>
<td>—</td>
<td>p.89</td>
</tr>
<tr>
<td>My Drawing</td>
<td>For drawing pictures on an image, adding stamps, creating a stamp from part of the image, and erasing part of the image.</td>
<td>—</td>
<td>p.96</td>
</tr>
<tr>
<td>Frame Composite</td>
<td>Adds a decorative frame to an image.</td>
<td>—</td>
<td>p.101</td>
</tr>
<tr>
<td>DISPLAY Information Display</td>
<td>Sets the type of information displayed on the LCD monitor.</td>
<td>Standard</td>
<td>p.77</td>
</tr>
</tbody>
</table>

### Functions Available on the [Playback Palette]

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slideshow</td>
<td>Plays back recorded images and movies one after another.</td>
<td>3 sec, Wipe, On</td>
<td>p.85</td>
</tr>
<tr>
<td>Resize</td>
<td>Changes the recorded pixels and quality level of an image and reduces the file size.</td>
<td>—</td>
<td>p.94</td>
</tr>
<tr>
<td>Cropping</td>
<td>Crops out part of an image and saves it as a separate image.</td>
<td>—</td>
<td>p.95</td>
</tr>
<tr>
<td>Image/Sound Copy</td>
<td>Copies images and sound files from the built-in memory to the SD Memory Card and vice versa.</td>
<td>—</td>
<td>p.110</td>
</tr>
</tbody>
</table>
### Setting the Playback Functions

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special Effect</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color Filter</td>
<td>Uses black-and-white, sepia, red, blue, green, and other color filters to process an image.</td>
<td>B&amp;W</td>
<td>p.103</td>
</tr>
<tr>
<td>Digital Filter</td>
<td>Softens images, makes them look like illustrations or makes the subject look broader or more slender.</td>
<td>Soft</td>
<td>p.105</td>
</tr>
<tr>
<td>Bright Filter</td>
<td>Makes images lighter or darker.</td>
<td>0</td>
<td>p.104</td>
</tr>
<tr>
<td>Frame Composite</td>
<td>Adds a decorative frame to an image.</td>
<td>—</td>
<td>p.101</td>
</tr>
<tr>
<td>My Drawing</td>
<td>For drawing pictures on an image, adding stamps, creating a stamp from part of the image, and erasing part of the image.</td>
<td>—</td>
<td>p.96</td>
</tr>
<tr>
<td>Movie Edit (Save as Still Img)</td>
<td>Saves movie frames as still pictures.</td>
<td>—</td>
<td>p.109</td>
</tr>
<tr>
<td>Red-eye Compensation</td>
<td>Corrects images when the flash has caused the subject to appear with red eyes.</td>
<td>—</td>
<td>p.106</td>
</tr>
<tr>
<td>Voice Memo</td>
<td>Adds a voice memo to images.</td>
<td>—</td>
<td>p.107</td>
</tr>
<tr>
<td>Protect</td>
<td>Protects images and sound files from accidental deletion.</td>
<td>—</td>
<td>p.92</td>
</tr>
<tr>
<td>DPOF</td>
<td>Inputs DPOF printing settings.</td>
<td>—</td>
<td>p.112</td>
</tr>
<tr>
<td>Start-up Screen</td>
<td>Displays an image on the start-up screen.</td>
<td>—</td>
<td>p.108</td>
</tr>
</tbody>
</table>
Displaying Shooting Information

You can choose from the following three display modes when in Playback mode. Refer to “Monitor Indications” on the inside of the front cover for details of each display mode.

- **[Standard]**
- **[Standard+Histogram]**
- **[No info. Display]**

**Memo**
- With the histogram displayed, you can determine if the image was properly exposed (p.54).
- The histogram is not displayed for movie files.

**1 In Playback mode, touch the LCD monitor.**

The [Playback Toolbar] appears.
2 Touch [DISPLAY].
   The DISPLAY Selection screen appears.

3 **Touch the desired setting.**
   The setting is saved and the camera returns to Playback mode.
Playing Back Images, Movies, and Sound Files

Turning on the Camera in Playback Only Mode

Use this mode when you want to play back an image or sound file straightaway without taking pictures.

1. With your camera turned off, press the power switch while holding down the button. The camera turns on in Playback Only Mode. The lens remains retracted and does not extend.

   **Memo**
   - If you press the button for more than two seconds in Capture mode, the camera switches to Playback Only mode and the lens is retracted.
   - When you press the button and release it within two seconds, the camera switches to normal Playback mode with the lens extended. When no operations have been performed more than 10 seconds in normal Playback mode or one of icons in the [Playback Palette] has been selected, the lens retracts automatically to prevent damage.
   - If you press the button in Playback Only mode, the camera switches to Capture mode and the lens is extended.

Rotating Images

1. In Playback mode, touch the arrow icons ( ) to choose the image you want to rotate.
2. Touch the LCD monitor. The [Playback Toolbar] appears.
3. Touch the icon. The screen for selecting the direction of rotation appears.
4. Touch the direction you want to rotate the image. The rotated image appears in full size.

   **Caution**
   - Movies cannot be rotated.
   - Protected images (p.92) and images on a write-protected SD Memory Card (p.19) cannot be rotated.
Magnifying Images

You can magnify an image up to 12 times. When an image is magnified, you can drag it to change the display location.

1 **In Playback mode, touch the arrow icons (◀ ▶) to choose the image you want to magnify.**

2 **Turn the zoom lever toward ➕.**

   The image is magnified (up to ×12).
   - You can also touch the ▼ icon on the LCD monitor to magnify the image.
   - Turn and hold the zoom lever toward ➕ or touch and hold the ▼ icon to increase the magnification.
   - You can use the guide at the top left of the screen to check which portion of the image is magnified.

   The following operations can be performed while the magnified image is displayed.

   <Moving the magnified portion of the image>
   - Drag and move the frame indicating the display area on the guide at the top left of the screen.
   - Drag the displayed image in the direction you want to view.

   <Changing the magnification>
   - Turn the zoom lever toward ➕ or touch the ▼ icon to magnify the image (max. ×12).
   - Turn the zoom lever toward ▼ or touch the ▼ icon to demagnify the image (min. ×1).
   - Dragging your finger on the LCD monitor also enables you to enlarge an area of the image when it is displayed at ×1 magnification.
   - The image can be magnified to the maximum size (×12) by double-touching the ▼ icon when it is displayed in basic size (×1).
   - The image can be demagnified to the basic size (×1) by double-touching the ▼ icon when it is displayed in maximum size (×12).

3 **Press the MENU button.**

   The image returns to single-image display.

**Caution**

- Movies cannot be magnified.
- The guide for checking which portion of the image is magnified does not appear if the LCD monitor display mode is set to [No info. Display] (p.77). However, the ▼ ▼ icons appear.
Nine-image Display

You can display nine captured images or sound files on the LCD monitor at a time.

1. **In Playback mode, turn the zoom lever toward .Resize.**
   - Nine-image display appears.
   - The icons that appear on the thumbnails indicate the following:
     - No icon : Image without sound
     - 🎧 (with image) : Image with sound
     - 🎥 : Movie (first frame appears)
     - 🎧 (without image) : Sound-only file
   - Touch the arrow icons (='<>') to change the nine thumbnail images to another nine images.
   - Touch the 🎥 icon to switch to the selection and deletion screen (p.91).

2. **Touch a thumbnail in nine-image display.**
   - The selected file is displayed in single-image display.
Playing Back an Image with a Voice Memo

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose an image with a voice memo (p.107).**
   The □ icon appears for images with a voice memo.

2. **Touch the ▶ icon.**
   Playback of the voice memo starts.

   **The following operations can be performed during playback.**
   - **Zoom lever (⬆️) :** Increases the volume
   - **Zoom lever (⬇️) :** Decreases the volume
   - □ icon, **MENU button :** Stops playback
Playing Back Movies

You can play back the movies you have taken in Movie (■) mode. Sound is played back at the same time.

1 **In Playback mode, touch the arrow icons (◀ ▶) to choose the movie to play back.**

2 **Touch the ▶ icon.**

Playback of the movie starts.

The following operations can be performed during playback.

- ▶ : Pauses playback
- ▼, MENU button : Stops playback
- ◀ : Reverse playback
- ▶ : Returns to normal playback from reverse playback
- Zoom lever (▲) : Increases the volume
- Zoom lever (▼) : Decreases the volume

The following operations can be performed while playback is paused.

- ◀ : Resumes playback
- ▼ : Stops playback
- ◀ : Frame reverse
- ▶ : Frame forward

3 **Touch the ▼ icon.**

Playback stops.
Playing Back Sound

You can play back the sound files you recorded in Voice Recording ( 🎤 ) mode.

1. **In Playback mode, touch the arrow icons ( ⬅️ ➡️ ) to choose the sound file to play back.**

2. **Touch the ➤ icon.**

Playback of the sound file starts.

The following operations can be performed during playback.

- 🎤 : Pauses playback
- 🎤, MENU button : Stops playback
- Zoom lever ( ⚪️ ) : Increases the volume
- Zoom lever ( ⭖️ ) : Decreases the volume

If there are no recorded indexes:

- ⬅️ : Fast rewind
- ➡️ : Fast forward

If there are recorded indexes:

- ⬅️ : Plays back starting from the previous index
- ➡️ : Plays back starting from the next index

The following operations can be performed while playback is paused.

- ➤ : Resumes playback
- 🎤 : Stops playback
- ⬅️ : Rewinds approx. 5 seconds
- ➡️ : Advances approx. 5 seconds

**Memo**

- If a sound file contains recorded indexes, the file is rapidly rewound or fast forwarded to the index.
- Press and hold the ⬅️ or ➡️ icon for more than five seconds to rapidly rewind or fast forward in approximately 20 second intervals.
- You can also touch any point along the bar at the bottom of the screen to specify where you want the sound to rapidly rewind or fast forward to.
Playing Back Images, Movies, and Sound Files

### Slideshow

You can play back recorded images and movies one after another.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose an image from which to start the slideshow.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the \[ \] icon.**
   The [Playback Palette] appears.

4. **Double-touch the \[ \] icon.**
   - The Slideshow screen appears.
   - To bring up the guide display, single-touch the icon.

5. **Touch [Start].**
   The slideshow starts.

   Touching the LCD monitor during the slideshow pauses the slideshow. Touch [Start] again to resume playback.

6. **Press the shutter release button, \[ \] button, or MENU button, or turn the zoom lever.**
   The slideshow stops.

**Memo**

- The slideshow continues until it is stopped.
- Movies or images with voice memos will be played through to the end before the next file is played back, regardless of the [Interval] setting.
- Sound files made in Voice Recording (\[ \]) mode are not played back in the slideshow.
Setting the Interval
Touch [Interval] on the Slideshow screen to set the playback interval. Select from [3sec], [5sec], [10sec], [20sec], or [30sec] for setting [Interval]. Touch the icon of the desired duration time to save the setting and return to the Slideshow screen.

Setting the Screen Effect
Touch [Screen Effect] on the Slideshow screen to set the transition effect between images. Select from the following effects.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe</td>
<td>The next image slides over the previous one from left to right.</td>
</tr>
<tr>
<td>Fade</td>
<td>The current image gradually fades out and the next image fades in.</td>
</tr>
<tr>
<td>Shrink</td>
<td>The image shrinks to a single point and then changes to the next image.</td>
</tr>
<tr>
<td>Off</td>
<td>No effect</td>
</tr>
</tbody>
</table>

Touch the icon of the desired effect to save the setting and return to the Slideshow screen.

Setting the Sound Effect
Touch [Sound Effect] on the Slideshow screen to set the sound effect between images. Except when the [Screen Effect] is set to Off, you can choose ✅ (On) or ❌ (Off) for the sound that is played when one image changes to the next.

Memo
If the screen effect is set to off, then the sound effect will also be set to off.
Playing Back on a TV

Instead of using the LCD monitor, you can use the provided AV cable to play back images, movies and sounds on AV equipment with a video IN jack, such as a TV or video projector. Make sure that both the AV equipment and the camera are turned off before connecting the cable.

1 Connect the AV cable to the PC/AV terminal on the camera.

2 Connect the other ends of the AV cable (yellow: video, white: audio) to the AV device’s video input terminal and audio input terminal.
   
   When using stereo sound equipment, insert the audio terminal into the L (white) terminal.
   
   When viewing images or movies on AV equipment with multiple video input terminals (such as a TV), refer to the operation manual of the device and select the correct video input terminal to connect the camera to.

3 Turn the AV device on.
   
   If multiple AV devices are required for playback, make sure they are all turned on.

4 Turn the camera on.
   
   • The camera turns on in Video Out Only mode.
   • The camera’s LCD monitor turns off while the camera is connected to AV equipment.
An operations guide will appear on the TV screen.

- Use the zoom lever, shutter release button, \( \square \) button, or \( \text{MENU} \) button.
  
  Zoom lever : Selects an icon, switches screens, or performs other operations.

  Shutter release button : Sets the setting, switches settings, or performs other operations.

  \( \square \) button : Plays back a movie or sound file.

  \( \text{MENU} \) button : Displays the Video Out Only menu and returns to the previous screen.

- Press the \( \text{MENU} \) button to display the Video Out Only menu.

  \( \square \) : Starts the slideshow.

  \( \square \) : Magnifies the image.

  \( \diamond \) : Rotates the image.

  \( \text{trash} \) : Deletes images and sound files.

  \( \text{list} \) : Selects images and sound files to play back from the list of files.

Turn off the camera.

Disconnect the AV cable from the camera and AV equipment.

\( \text{Memo} \)

- It is recommended that you use the optional AC adapter kit K-AC7 when connected to AV devices for long periods of time to avoid running down the camera's battery.

- Depending on the country or region, images and sound files may fail to play back if the video output format of the camera does not match the video format in use there. If this happens, change the video output format setting (p.133).

- The camera LCD monitor turns off while the camera is connected to AV equipment.

- The volume cannot be adjusted with the zoom lever while the camera is connected to AV equipment.

- The following operations can be performed when using an optional remote control (p.70).

  For Remote control E: Press the shutter release button to play back the next image or movie, and the zoom button to play back the previous image or movie.

  For Remote control F: Press the shutter release button to play back the next image or movie.
Deleting Images and Sound Files

Deleting One Image or Sound File

You can delete images and sound files individually.

⚠️ **Caution**

- Protected images and sound files cannot be deleted (p.92).
- Images and sound files cannot be deleted when the SD Memory Card's write-protect switch is in the locked position.

1. In Playback mode, touch the arrow icons (← →) to choose an image or sound file you want to delete.

2. Touch the LCD monitor.
   The [Playback Toolbar] appears.

3. Touch the icon.
   The Delete screen appears.

4. Touch [Del. One img/snd].
   A confirmation dialog appears.

5. Touch [Delete].
   The selected image or sound file is deleted.

➡️ **Memo**

You can delete the image you have just taken by touching the icon while the image is displayed.
Deleting a Voice Memo

To delete a voice memo recorded with an image (p.107), touch [Delete Sound] in Step 5. Only the voice memo is deleted. Select [Delete] in Step 5 to delete both the image and sound file.

Deleting All Images and Sound Files

You can delete all the images and sound files saved in the camera at once.

⚠️ Caution
Protected images and sound files cannot be deleted (p.92).

1. In Playback mode, touch the LCD monitor.
   The [Playback Toolbar] appears.

2. Touch the icon.
   The Delete screen appears.

3. Touch [Delete All].
   A confirmation dialog appears.

4. Touch [Delete All].
   All the images and sound files are deleted.
Deleting Selected Images and Sound Files

You can delete several images or sound files selected from the nine-image display at once.

Caution
Protected files cannot be deleted (p.92).

1 In Playback mode, turn the zoom lever toward 🔍.
   The display switches to nine-image display.

2 Touch the 🖼️ icon.
   A □ (checkbox) appears on the thumbnails.

3 Touch the files that you want to delete.
   The □ on the selected thumbnails turn to ✓.
   If you turn the zoom lever toward 🎥, you can set the checkbox one by one in single image display mode (The display returns to the nine-image display when you turn the zoom lever toward 🔍 or no operations have been performed for more than two seconds.).

4 Touch [Del.].
   A confirmation dialog appears.

5 Touch [Select & Delete].
   The selected files are deleted.
Protecting Images and Sound Files from Deletion

You can protect images and sound files from being accidentally deleted.

1. **In Playback mode, touch the LCD monitor.**
   The [Playback Toolbar] appears.

2. **Touch the ▼ icon.**
   The [Playback Palette] appears.

3. **Double-touch the ■ icon.**
   - The Protect screen appears.
   - To bring up the guide display, single-touch the icon.

4. **Touch [Select Img/Snd].**
   The screen for choosing an image or sound file to protect appears.

5. **Touch the arrow icons (« ») to choose the image or sound file you want to protect.**

6. **Touch [Protect].**
   The selected image or sound file is protected.

**Caution**
Protected images and sound files WILL be deleted when the SD Memory Card or built-in memory is formatted.

**Memo**
- To cancel the Protect setting, touch [Unprotect] in Step 6.
- ▼ appears below the file number on protected images and sound files during playback.
Protecting All Images and Sound Files

1 Touch [All Images/Sounds] on the Protect screen.
   A confirmation dialog appears.

2 Touch [Protect].
   All the images and sound files are protected.

Memo
To cancel the Protect setting on all your images and sound files, select [Unprotect] in Step 2.
Editing Images and Movies

Changing the Image Size and Quality (Resize)

By changing the recorded pixels and quality level of an image, you can reduce the file size. You can use this function to continue taking pictures when the SD Memory Card or built-in memory is full, by making the images smaller and overwriting the original images to make more space available in the memory.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the image you want to resize.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The Resize screen appears.
   - To bring up the guide display, single-touch the icon.
   - By default, the same [Recorded Pixels] setting and the [Quality Level] setting at one lower level appear.
     To change the settings, touch either [Recorded Pixels] or [Quality Level].

5. **Touch [OK].**
   A save dialog for selecting the save method appears.

6. **Touch [Overwrite] or [Save as].**
   - The resized image is saved.
   - Protected images are automatically saved as new files.

**Caution**

- Movies and sound files cannot be resized.
- You cannot select a larger resolution or higher quality than that of the original image.
- For images with voice memos that are resized and saved as new images, the voice memo is saved together with the new image.
Deleting Unwanted Parts of an Image (Cropping)

You can crop part of an image and save it as a separate image.

1. **In Playback mode, touch the arrow icons (_left_right_) to choose the image you want to crop.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The Cropping screen appears.
   - To bring up the guide display, single-touch the icon.

5. **Set the size of the cropping frame and the area to crop.**
   - By default, the cropping frame is displayed at its maximum size.
   - To change the size of the cropping frame, use the zoom lever or touch [ChangeSize].
   - You can move the cropping frame by dragging it.

6. **Touch [OK].**
   The cropped image is saved with a new file name.

**Caution**
Movies cannot be cropped.

**Memo**
- The cropped image will be saved at the same quality setting as the original image.
- For images with voice memos that are cropped and saved as new images, the voice memo is saved together with the new image.
Making Drawings and Adding Stamps

You can make drawings on and add stamps to the pictures you have taken. You can also create your own stamp (“My Stamp”) from a picture you have taken.

1. **In Playback mode, touch the arrow icons (← →) to choose the image you want to edit.**

2. **Touch the LCD monitor.**
   - The [Playback Toolbar] appears.

3. **Touch the icon.**
   - The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The Special Effect screen appears.
   - To bring up the guide display, single-touch the icon.

5. **Touch [My Drawing].**
   - The My Drawing screen appears.
6 Use the drawing tools on the right of the screen to make a drawing or add stamps.
   Touch the icon of a drawing tool to select each function.
   : Closes the toolbar.
   : Lets you select the color, hardness, and type of line.
   : Lets you choose one of 12 different stamps.
   : Use this to cut out part of the image to create your own stamp.
   : Choose from the stamps you have created (save up to four stamps).
   : Erases a drawing or stamp.

7 Touch [OK].
   The screen returns to the Special Effect screen.

8 Touch [Exit].
   A save dialog for selecting the save method appears.

9 Touch [Overwrite] or [Save as].
   • The edited image is saved.
   • Protected images are automatically saved as new images.

Caution
   • You cannot make drawings on pictures that are in size or movies.
   • and larger images are resized to when a drawing is made.

Choosing a Line
   Touch the icon in Step 6 to display the Line Selection screen.
   Choose a color (black, red, blue, yellow, white, pink, green, light blue, or orange), hardness, and type of line, and touch [OK].

Adding a Stamp
   Touch the icon in Step 6 to display the Stamp Selection screen.
   Choose from 12 stamps by touching the stamp you want to use, and touch [OK].
Rotating stamps

You can rotate stamps and My Stamp 90° at a time.

1 Touch the 📌 icon on the My Drawing screen.
The Stamp Selection screen appears.

2 Touch the stamp you want to rotate.
The stamp is selected.

3 Touch the 🔄 icon which is centered below the screen.
The rotation selection screen appears.

4 Touch the stamp in the orientation you want.
The stamp is displayed in the selected orientation.

5 Touch [OK].
The stamp is ready to be added to the image.
Touch the image where you want to add the stamp.

Memo
You can also rotate My Stamp.
Creating Your Own Stamps (“My Stamp”)

1 Touch the icon.
   The Image Cutting screen appears.

2 Drag your finger or the stylus over the area you want to cut.
   • Draw an unbroken line to select the area you want to cut.
   • To change the area to be cut, press the MENU button and re-select the area to be cut.

3 Touch [OK].
   A confirmation dialog for creating the stamp appears.

4 Touch [Save].
   The stamp is created.

Memo
   You can create up to four stamps.
**Using My Stamp**

1. **Touch the ![My](image) icon.**
   The My Stamp Selection screen appears.

2. **Touch the stamp you want to use.**
   - The stamp is added to the image.
   - To delete a stamp, touch [Delete].

![Memo]

My Stamp can also be rotated.

**Using the Eraser**

Touch the ![Eraser](image) icon to display the Eraser Selection screen.

Touch the type of eraser you want to use, and touch [OK].

![Memo]

To clear and reset the edits you made in Drawing mode, touch [CLS] on the screen (The stamps you have stored are not cleared).
Adding a Frame to an Image (Frame Composite)

You can add a decorative frame to a picture you have taken. There are seven frames available in the camera.

1. In Playback mode, touch the arrow icons (                                                              ) to choose the image to decorate.

2. Touch the LCD monitor.
The [Playback Toolbar] appears.

3. Touch the icon.
The [Playback Palette] appears.

4. Double-touch the icon.
   • The Special Effect screen appears.
   • To bring up the guide display, single-touch the icon.

5. Touch [Frame Comp].
The Frame Selection screen appears.

6. Touch the arrow icons (                                                              ) to choose the frame to add.

7. Touch [OK].
The camera returns to the Special Effect screen.

8. Touch [Exit].
   A save dialog for selecting the save method appears.

9. Touch [Overwrite] or [Save as].
   • The image with the added frame is saved.
   • Protected images are automatically saved as new files.

Caution

• Frames cannot be added to pictures that are in size or movies.
• and larger images are resized to when a frame is added.
Adding New Decorative Frames

Touch [Change] in Step 6 to switch to the screen for adding a new frame. You can add frames you have downloaded from the Internet and other sources. Before adding a downloaded frame, copy it first to the SD Memory Card.

⚠️ Caution

When a new frame on the SD Memory Card is added to the built-in memory, it replaces one of the existing frames in the built-in memory. The replaced frame is deleted from the built-in memory.

1 In the Frame Selection screen, choose the frame you want to replace and touch [Change]. A message appears and the frames on the SD Memory Card appear.

2 Touch the arrow icons (◀ ▶) to choose the frame to register.

3 Touch [OK]. The frame is added to the built-in memory in place of the frame selected in Step 1.

Visit the PENTAX website at the address below to download new frames.
http://www.pentax.co.jp/english/support/digital/frame_02.html
Changing the Image Color Tone (Color Filter)

You can use the Color Filter function to change the color tone of images. You can choose from 13 color filters: B&W, sepia, color (8 variations), B&W+Red, B&W+Green, and B&W+Blue.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the image for which you want to change the color tone.**
2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.
3. **Touch the [ ] icon.**
   The [Playback Palette] appears.
4. **Double-touch the [ ] icon.**
   - The Special Effect screen appears.
   - To bring up the guide display, single-touch the icon.
5. **Touch [Color Filter].**
   The screen for changing the color tone appears.
6. **Touch the color filter you want to use.**
   You can preview the results of the selected color filter.
7. **Touch [OK].**
   The screen returns to the Special Effect screen.
8. **Touch [Exit].**
   A save dialog for selecting the save method appears.
9. **Touch [Overwrite] or [Save as].**
   - The image with the added effect is saved.
   - Protected images are automatically saved as new files.
Changing the Image Brightness (Bright Filter)

1. In Playback mode, touch the arrow icons (◀▶) to choose the image for which you want to change the brightness.

2. Touch the LCD monitor.
   The [Playback Toolbar] appears.

3. Touch the icon.
   The [Playback Palette] appears.

4. Double-touch the icon.
   • The Special Effect screen appears.
   • To bring up the guide display, single-touch the icon.

5. Touch the [Bright Filter] icon.
   The Brightness Adjustment screen appears.

6. Touch the ▼ or ▲ icon to adjust the brightness.
   • You can preview the results of the brightness adjustment.
   • You can also drag the cursor along the brightness bar to the desired setting.

7. Touch [OK].
   The screen returns to the Special Effect screen.

8. Touch [Exit].
   A save dialog for selecting the save method appears.

9. Touch [Overwrite] or [Save as].
   • The image with the added effect is saved.
   • Protected images are automatically saved as new files.
Digital Filter Effects

You can use digital filters to give an image softness, make it look like an illustration, or make the subjects look broader or more slender.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the image you want to edit.**
2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.
3. **Touch the icon.**
   The [Playback Palette] appears.
4. **Double-touch the icon.**
   - The Special Effect screen appears.
   - To bring up the guide display, single-touch the icon.
5. **Touch the icon.**
   The Digital Filter Selection screen appears.
6. **Touch the digital filter you want to use.**
   You can preview the results of the selected digital filter.
   - : Softens the image.
   - : Makes the image look like an illustration.
   - : Gives the image artistic texture which looks like sprinkling star dust.
   - : Makes the subject appear broader or more slender.
7. **Touch [OK].**
   The screen returns to the Special Effect screen.
8. **Touch [Exit].**
   A save dialog for selecting the save method appears.
9. **Touch [Overwrite] or [Save as].**
   - The image with the added effect is saved.
   - Protected images are automatically saved as new files.
Removing Red-eye

You can correct images where the flash has caused the subject to appear with red eyes.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the image for which you want to use the red-eye compensation function.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The red-eye compensation function tries to correct the image. If it is able to correct the image, the screen in Step 7 appears, and you can save the image.
   - If it is not able to correct the image, the Red-eye Compensation screen appears after touching [OK] on the error screen. In this case, follow the steps below and select the area for red-eye compensation manually.
   - To bring up the guide display, single-touch the icon.

5. **Touch the area you want to correct.**
   You can select multiple areas for red-eye compensation before touching [OK].

6. **Touch [OK].**
   A save dialog for selecting the save method appears.

7. **Touch [Overwrite] or [Save as].**
   - The corrected image is saved.
   - Protected images are automatically saved as new files.

**Caution**

- The red-eye compensation function cannot be used on movies or for pictures where red eyes are smaller than a certain size.
- At least one example of red-eye must be detected in the picture for red-eye compensation to work and the image to be subsequently saved.
- The red-eye compensation function can only be used on pictures taken with this camera.
Adding Sound to an Image (Voice Memo)

You can add sound (voice memo) to pictures you have taken.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the image to which you want to add a voice memo.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The camera starts recording. You can record up to 60 seconds.
   - To bring up the guide display, single-touch the icon.

5. **Touch the icon.**
   Recording stops.

---

**Caution**

- A voice memo cannot be added to an image that already has a voice memo. Delete the old voice memo before recording a new one (p.90).
- A voice memo cannot be added to a protected image.

---

**Memo**

Refer to “Deleting a Voice Memo” (p.90) for information about how to delete a voice memo.
Setting an Image for the Start-up Screen

You can choose an image saved on the SD Memory Card to be displayed as the start-up screen when the camera is turned on.

1. **In Playback mode, touch the arrow icons (← →) to choose the image you want to use as the start-up screen.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The setting screen appears.
   - To bring up the guide display, single-touch the icon.

5. **Touch the arrow icons (← →) to select a new start-up screen.**
   - You can choose from the image displayed on the LCD monitor, the current start-up screen, any of the three built-in start-up screens, or a screen which is “off”.
   - Select the “off” screen to not display a start-up screen.

6. **Touch [OK].**
   The start-up screen setting is saved.

**Caution**

Once an image has been selected as the start-up screen, it will not be deleted even if the original image is deleted or the SD Memory Card or built-in memory is formatted. The custom start-up image is not deleted even if the camera is returned to its default settings. To delete the image, overwrite it by selecting any other image for the start-up screen.
Saving a Frame from a Movie as a Still Image

1. In Playback mode, touch the arrow icons (➡️) to choose the movie you want to use to capture a still image.

2. Touch the LCD monitor.
   The [Playback Toolbar] appears.

3. Touch the icon.
   The [Playback Palette] appears.

4. Double-touch the icon.
   - The Movie Edit screen appears.
   - To bring up the guide display, single-touch the icon.

5. Touch the ⬅️➡️ icons to choose the frame you want to save as a still image.
   - Touch the ⬅️ icon to play back the movie, and touch the ➡️ icon to stop playback.
   - Touching the ⬅️ icon during playback pauses the movie.

6. Touch [OK].
   The selected frame is saved as a still image.
Copying Images and Sound Files

For copying images and sound files from the built-in memory to the SD Memory Card and vice versa.

**Caution**

- You cannot use this function if no SD Memory Card is inserted in the camera.
- Make sure that the camera is turned off before inserting or removing the SD Memory Card.
- Images and sound files cannot be copied from the built-in memory to the SD Memory Card unless the SD Memory Card has sufficient space. Before copying the data, make sure that there is enough space on the SD Memory Card.

1. **In Playback mode, touch the LCD monitor.**
   The [Playback Toolbar] appears.

2. **Touch the icon.**
   The [Playback Palette] appears.

3. **Double-touch the icon.**
   - The Image/Sound Copy screen appears.
   - To bring up the guide display, single-touch the icon.

**To Copy Files from the Built-in Memory to the SD Memory Card**

All the images and sound files in the built-in memory can be copied to the SD Memory Card at once.

4. **Touch the icon.**
   All the images and sound files are copied.
To Copy Files from the SD Memory Card to the Built-in Memory

Selected images and sound files can be copied from the SD Memory Card to the built-in memory one at a time.

4 Touch the icon.

5 Touch the arrow icons (← →) to choose the file to copy.

6 Touch [OK].

The selected image, movie or sound file is copied.

Memo

• If sound has been recorded with the image, the sound file is copied with the image.
• Protected images, movies, and sound files are still protected after they have been copied.
Printing with DPOF

The Digital Print Order Format (DPOF) stores printing information for pictures so they can automatically be printed on a DPOF-compatible printer or at DPOF-enabled photo processing labs.

Applying the DPOF Settings to Each Image

Specify the number of copies for each image and if you want the date to appear on the print.

1. **In Playback mode, touch the arrow icons (◀ ▶) to choose the first image you want to print.**

2. **Touch the LCD monitor.**
   The [Playback Toolbar] appears.

3. **Touch the icon.**
   The [Playback Palette] appears.

4. **Double-touch the icon.**
   - The DPOF screen appears.
   - To bring up the guide display, single-touch the icon.

5. **Touch [Print One].**
   The DPOF Setting screen appears.
6 Touch [Date].
The setting changes to ✓ (On) or ◯ (Off).
✓: The date will be imprinted.
◇: The date will not be imprinted.

7 Touch [Copies].
The Copies screen appears.

8 Touch the arrow icons (⇦⇨) to specify the number of copies.
You can print up to 99 copies.

9 Touch [OK].
The DPOF Setting screen in Step 5 appears.

10 Touch the arrow icons (⇦⇨) to choose the next image,
and then repeat Steps 6 to 9.

11 Touch [OK].
The DPOF settings are saved.

**Caution**
Depending on the printer or printing equipment at the photo processing lab.,
the date may not be imprinted on the pictures even if you set the DPOF settings.

**Memo**
• You can set the number up to 99 copies.
• To cancel DPOF settings, set the number of copies to “00” in Step 8.
Applying the DPOF Settings to All Images

The same number of copies and the same date setting are applied to all the images stored in the camera.

1. **In Playback mode, touch the LCD monitor.**
   The [Playback Toolbar] appears.

2. **Touch the icon.**
   The [Playback Palette] appears.

3. **Double-touch the icon.**
   • The DPOF Setting screen appears.
   • To bring up the guide display, single-touch the icon.

4. **Touch [Print All].**
   The DPOF screen appears.

5. **Specify the number of copies and if you want the date to appear on the print.**
   Refer to Steps 6 to 9 in “Applying the DPOF Settings to Each Image” (p.113) for details of how to make the settings.

6. **Touch [OK].**
   The DPOF settings are saved.

**Caution**

When settings are made for all images, the number of copies applies to all the images. Before printing, check that the number is correct.

**Memo**

When settings are made for all images, the settings for individual images are cancelled.
Direct Printing with PictBridge

By connecting the camera to a PictBridge-compatible printer with the provided USB cable, you can print images directly from the camera without using a PC. Connect the camera to the printer and use the camera to choose the images you want to print, the number of copies, and whether you want the date to appear on the print.

**Caution**

- It is recommended that you use the optional AC adapter kit when printing images directly from the camera. The printer may not work properly or image data may be lost if the camera battery runs out of power while the camera is connected to the printer.
- Do not disconnect the USB cable during data transfer.
- Depending on the printer model, not all the settings made on the camera (such as date and DPOF settings) may be executed.
- Printing an index of images, where multiple images appear on a single sheet, may not be possible unless the printer supports index printing. For index prints, you may need to use a PC.

Connecting the Camera to the Printer

1. **Select [PictBridge] for the [USB Connection] mode.**
   Refer to “Changing the USB Connection Mode” (p.132) for details of how to set the [USB Connection] mode.

2. **Turn off the camera.**

3. **Connect the camera to the printer using the USB cable provided.**

4. **Turn the printer on.**

5. **When the printer is ready to print, turn the camera on.**
   The Printing Mode Selection screen appears.
Direct Printing with PictBridge

Printing Single Image

1 In the Printing Mode Selection screen, touch [Print One].
   The setting screen appears.

2 Touch [Date].
   The setting changes to ✓ (On) or □ (Off).
   ✓: The date will be imprinted.
   □: The date will not be imprinted.

3 Touch [Copies].
   The Copies screen appears.

4 Touch the arrow icons (🔼 🔻) to specify the number of copies.
   • You can print up to 99 copies.
   • Touch [OK]. The screen in Step 1 appears.

5 Touch [Print].
   • A confirmation dialog appears.
   • To change the print settings, refer to “Changing the Print Settings” (p.117).

6 Touch [Print].
   • Printing starts.
   • Touch [Printing Cancel] during printing to cancel printing.
Changing the Print Settings

5 Touch [Print].
A confirmation dialog appears.

6 Touch [Paper Size].
The Paper Size screen appears.

7 Touch a desired paper size from the selections.
You can only choose a size that is supported by your printer.

8 Repeat Steps 6 to 7 for [Paper Type], [Quality] and [Border Status].
   • If you select 📠, images are printed according to the settings on the printer.
   • When you touch [Paper Type], the more ★ the higher the quality of paper you can use.
   • When you touch [Quality], the more ★ the higher the print quality will be.

9 Touch [Print].
   • The image is printed according to the settings.
   • Touch [Printing Cancel] during printing to cancel printing.

Memo
   • The power indicator lights while the camera is communicating with the printer, and blinks while the card is being accessed and during printing. Do not disconnect the USB cable while the power indicator is blinking.
   • The [Paper Size], [Paper Type], [Quality] and [Border Status] settings are reset to their defaults when the camera is turned off.
Direct Printing with PictBridge

Printing All Images

1. In the Printing Mode Selection screen (Step 5 on p.115), touch [Print All].
   The setting screen appears.

2. Specify the number of copies and if you want the date to appear on the print.
   Refer to Steps 2 to 4 in “Printing Single Image” (p.116) for how to make the settings.

3. Touch [Print].
   • A confirmation dialog appears.
   • Refer to “Changing the Print Settings” (p.117) for how to change the print settings.

4. Touch [Print].
   • Printing starts.
   • Touch [Printing Cancel] during printing to cancel printing.

Printing Using the DPOF Settings

1. In the Printing Mode Selection screen (Step 5 on p.115), touch [DPOF Setting].
   • The settings you have made appear.
   • Touch ◀▶ to check the settings for each image.

2. Touch [Print].
   • A confirmation dialog appears.
   • Refer to “Changing the Print Settings” for how to change the print settings (p.117).

3. Touch [Print].
   • Printing starts.
   • Touch [Printing Cancel] during printing to cancel printing.
Disconnecting the USB Cable

Disconnect the USB cable from the camera and printer when you have finished printing.

1. Turn off the camera.
2. Disconnect the USB cable from the camera and printer.
Using the Setting Menu

In Capture or Playback mode, press the **MENU** button to display the menu for setting the various camera functions. This section explains how to set the [Sound] and [Setting] menu items (For [Rec. Mode 1], [Rec. Mode 2], [Movie], and [Common], refer to p.34.)

Press the **MENU** button.

Touch the desired icon.

1. Press the shutter release button to return to Capture mode.
2. Press the **Q** button to return to Playback mode.
3. Press the **MENU** button to return to the previous screen.
4. If no operation is performed for a certain period of time, the camera returns to Capture mode or Playback mode.

Continue with operations while following the on-screen guidance.
### Available Settings with [Sound] icon

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Volume</td>
<td>Sets the volume of the operation sounds.</td>
<td>3</td>
<td>p.125</td>
</tr>
<tr>
<td>Playback Volume</td>
<td>Sets the volume of movies and sound files.</td>
<td>3</td>
<td>p.125</td>
</tr>
<tr>
<td>Start-up Sound</td>
<td>Sets the start-up sound.</td>
<td>1</td>
<td>p.126</td>
</tr>
<tr>
<td>Shutter Sound</td>
<td>Sets the shutter sound.</td>
<td>1</td>
<td>p.126</td>
</tr>
<tr>
<td>Operation Sound</td>
<td>Sets the operation sound.</td>
<td>1</td>
<td>p.126</td>
</tr>
<tr>
<td>Self-timer Sound</td>
<td>Sets the countdown sound of the self-timer.</td>
<td>1</td>
<td>p.126</td>
</tr>
</tbody>
</table>

### Available Settings with [Setting] icon

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Default Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format</td>
<td>Formats the SD Memory Card or built-in memory.</td>
<td>—</td>
<td>p.122</td>
</tr>
<tr>
<td>Date Adjust</td>
<td>Adjusts the date, time, and their display styles.</td>
<td>Depends on the Initial Setting</td>
<td>p.123</td>
</tr>
<tr>
<td>World Time</td>
<td>Sets the world time.</td>
<td>Off</td>
<td>p.127</td>
</tr>
<tr>
<td>Language/言語</td>
<td>Sets the display language in which menus and messages appear.</td>
<td>Depends on the Initial Setting</td>
<td>p.130</td>
</tr>
<tr>
<td>Folder Name</td>
<td>Images and sound files can be saved to a separate folder by date.</td>
<td>Standard</td>
<td>p.131</td>
</tr>
<tr>
<td>USB Connection</td>
<td>Sets the USB cable connection.</td>
<td>PC</td>
<td>p.132</td>
</tr>
<tr>
<td>Video Out</td>
<td>For setting the video output format to match AV equipment.</td>
<td>Depends on the Initial Setting</td>
<td>p.133</td>
</tr>
<tr>
<td>Brightness Level</td>
<td>Adjusts the brightness of the LCD monitor.</td>
<td>4 (Normal)</td>
<td>p.134</td>
</tr>
<tr>
<td>Power Saving</td>
<td>Sets the amount of time the LCD monitor will stay on before it turns off automatically.</td>
<td>5 sec.</td>
<td>p.135</td>
</tr>
<tr>
<td>Auto Power Off</td>
<td>Sets the amount of time the camera will stay on before it turns off automatically.</td>
<td>3 min.</td>
<td>p.136</td>
</tr>
<tr>
<td>Guide Display</td>
<td>Sets the guide display to On or Off.</td>
<td>On</td>
<td>p.137</td>
</tr>
<tr>
<td>Reset</td>
<td>Returns all camera settings to their default values except for date and time, language, world time, and video output format.</td>
<td>—</td>
<td>p.138</td>
</tr>
</tbody>
</table>
Formatting an SD Memory Card and the Built-in Memory

Formatting will delete all the data in the built-in memory or on the SD Memory Card. If an SD Memory Card is in the camera, all its data will be deleted. If no SD Memory Card has been inserted in the camera, all the data in the built-in memory will be deleted.

Caution

- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- A write-protected SD Memory Card cannot be formatted (p.19).
- Formatting will delete ALL data including protected images, sound files, and any other data recorded on the card.
- SD Memory Cards formatted on a PC or device other than this camera cannot be used. Be sure to format the card with this camera.
- If you are going to discard, give away or sell your SD memory card you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. Please note that formatting the SD card will not necessarily delete the data so that it cannot be recovered using off the shelf data recovery software. There are off the shelf secure data deletion software programs available that will completely delete the data. In any case the data on your SD memory card should be managed at your own risk.

1 Press the MENU button.
   The [Menu] appears.

2 Touch [Setting].
   The Setting screen appears.

3 Touch [Format].
   The Format screen appears.

4 Touch [Format].
   Formatting starts. When formatting is completed, the camera is ready to take pictures.
Changing the Date and Time

You can change the date and time settings. You can also set the style in which the date and time appear.

Setting the Date Style

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Setting].**
   The Setting screen appears.

3. **Touch [Date Adjust].**
   The Date Adjust screen appears.

4. **Touch [Date Style].**
   The Date Style screen appears.

5. **Touch the arrow icons (◀ ▶) to choose the display style of the year, month, and day.**
   Select [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

6. **Touch the arrow icons (◀ ▶) to choose the time display style.**
   Select [24h] (24-hour display) or [12h] (12-hour display).

7. **Touch [OK].**
   The setting is saved and the screen returns to the Date Adjust screen with the selected date style.
Setting the Date
1 Touch [Date] on the Date Adjust screen.
   The Date screen appears.
2 Touch the arrow icons (وعد) to set the date.
3 Touch [OK].
   The setting is saved and the screen returns to the Date Adjust screen.

Setting the Time
1 Touch [Time] on the Date Adjust screen.
   The Time screen appears.
2 Touch the arrow icons (سعد) to set the time.
3 Touch [OK].
   The setting is saved and the screen returns to the Date Adjust screen.

Memo
When you finish the settings and touch [OK], the camera clock is reset to 00 seconds. To set the exact time, touch [OK] when the time signal (on the TV, radio, etc.) reaches 00 seconds.
Changing the Sound Settings

You can adjust the volume of operation and playback sounds and change the type of start-up sound, shutter sound, operation sound, and self-timer sound. You can also turn off the sounds.

1  Press the MENU button.
   The [Menu] appears.

2  Touch [Sound].
   The Sound screen appears.

Changing the Volume

1  Touch [Operation Volume] on the Sound screen.
   The Operation Volume screen appears.

2  Touch the icon of the operation volume you want to set.
   Choose from six volume levels 🎧(0) to 🎧(5). Set the volume to 🎧(0) to mute the sound.

3  Touch [OK].
   The setting is saved and the screen returns to the Sound screen.
Changing the Sound Settings

Changing the Start-up Sound, Shutter Sound, Operation Sound, Self-timer Sound Type

1 Touch the desired sound setting icon on the Sound screen.
   The setting screen appears.

2 Touch the icon of the sound type you want to set.
   • Select [1], [2], [3], [USER], or [Off]. When an icon is touched, the selected sound is played back. Select [Off] to turn off the sound.
   • By selecting [USER], you can assign the first two seconds of a recorded sound file as the sound type.

3 Touch [OK].
   The setting is saved and the screen returns to the Sound screen.

Setting the User Sound

1 In Step 2 above, touch [USER], and then touch [OK].
   The Playback screen appears if there is a sound that can be used as the user sound in the camera.

2 Touch the arrow icons (ookies) to choose the sound.
   : Plays back the first two seconds of the sound file.
   : Stops playback.

3 Touch [OK].
   • The setting is saved and the screen returns to the Sound screen.
   • The first two seconds of the selected sound is set as the user sound.
Setting the World Time

The date and time selected with the procedure in “Setting the Language and the Date and Time” (p.21) and “Changing the Date and Time” (p.123) serve as the Hometown date and time. By using the world time function, you can display the time in a city other than the Hometown (Destination). This is useful when taking pictures in a different time zone.

Setting the Destination

1 Press the MENU button.
   The [Menu] appears.

2 Touch [Setting].
   The Setting screen appears.

3 Touch [World Time].
   The World Time screen appears.

4 Touch [Destination].
   The Destination screen appears. The city that is currently selected turns green on the map.

5 Touch the arrow icons (◀ ▶) to select the destination city on the map.
   You can also pan the map by dragging it.
6 Touch the arrow icons (← →) to choose the destination city.

The current time of the selected city appears.

7 Touch the DST icon.

The DST screen appears.

8 Touch [On] or [Off].


[Off] : Turns off the daylight saving time setting.

The setting is saved and the screen returns to the Destination screen.

9 Press the MENU button.

The World Time screen appears.

Displaying the Destination Time

1 Touch [Select Time] on the World Time screen.

The Select Time screen appears.

2 Touch [Destination].

The time setting for the destination city is saved and the screen returns to the World Time screen.

3 Press the MENU button three times.

- The camera returns to Capture mode.
  When [World Time] is set, ✈️ appears on the LCD monitor.
- Press the button to return to Playback mode.

Memo

Touch [Hometown] in Step 4 on p.127 to select the Hometown city and DST option.
Refer to the following list of cities when setting the World Time.

<table>
<thead>
<tr>
<th>Region</th>
<th>City</th>
<th>Region</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>Honolulu</td>
<td>Africa/</td>
<td>Jerusalem</td>
</tr>
<tr>
<td></td>
<td>Anchorage</td>
<td>West Asia</td>
<td>Nairobi</td>
</tr>
<tr>
<td></td>
<td>Vancouver</td>
<td></td>
<td>Jeddah</td>
</tr>
<tr>
<td></td>
<td>San Francisco</td>
<td></td>
<td>Tehran</td>
</tr>
<tr>
<td></td>
<td>Los Angeles</td>
<td></td>
<td>Dubai</td>
</tr>
<tr>
<td></td>
<td>Calgary</td>
<td></td>
<td>Karachi</td>
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<td></td>
<td>Denver</td>
<td></td>
<td>Kabul</td>
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<td></td>
<td>Chicago</td>
<td></td>
<td>Male</td>
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<tr>
<td></td>
<td>Miami</td>
<td></td>
<td>Delhi</td>
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<tr>
<td></td>
<td>Toronto</td>
<td></td>
<td>Colombo</td>
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<tr>
<td></td>
<td>New York</td>
<td></td>
<td>Kathmandu</td>
</tr>
<tr>
<td></td>
<td>Halifax</td>
<td></td>
<td>Dacca</td>
</tr>
<tr>
<td>Central and South America</td>
<td>Mexico City</td>
<td>East Asia</td>
<td>Yangon</td>
</tr>
<tr>
<td></td>
<td>Lima</td>
<td></td>
<td>Bangkok</td>
</tr>
<tr>
<td></td>
<td>Santiago</td>
<td></td>
<td>Kuala Lumpur</td>
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<tr>
<td></td>
<td>Caracas</td>
<td></td>
<td>Vientiane</td>
</tr>
<tr>
<td></td>
<td>Buenos Aires</td>
<td></td>
<td>Singapore</td>
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<tr>
<td></td>
<td>Sao Paulo</td>
<td></td>
<td>Phnom Penh</td>
</tr>
<tr>
<td></td>
<td>Rio de Janeiro</td>
<td></td>
<td>Ho Chi Minh</td>
</tr>
<tr>
<td>Europe</td>
<td>Lisbon</td>
<td></td>
<td>Jakarta</td>
</tr>
<tr>
<td></td>
<td>Madrid</td>
<td></td>
<td>Hong Kong</td>
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<tr>
<td></td>
<td>London</td>
<td></td>
<td>Beijing</td>
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<td></td>
<td>Paris</td>
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<td>Shanghai</td>
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<td></td>
<td>Amsterdam</td>
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<td>Manila</td>
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<td></td>
<td>Milan</td>
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<td>Taipei</td>
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<td></td>
<td>Rome</td>
<td></td>
<td>Seoul</td>
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<td></td>
<td>Berlin</td>
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<td>Tokyo</td>
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<tr>
<td></td>
<td>Stockholm</td>
<td></td>
<td>Guam</td>
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<tr>
<td></td>
<td>Athens</td>
<td></td>
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<tr>
<td></td>
<td>Helsinki</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Moscow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Africa/</td>
<td>Dakar</td>
<td>Oceania</td>
<td>Perth</td>
</tr>
<tr>
<td>West Asia</td>
<td>Algiers</td>
<td></td>
<td>Adelaide</td>
</tr>
<tr>
<td></td>
<td>Johannesburg</td>
<td></td>
<td>Sydney</td>
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<td></td>
<td>Istanbul</td>
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<td>Noumea</td>
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<td></td>
<td>Cairo</td>
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<td>Wellington</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Auckland</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pago Pago</td>
</tr>
</tbody>
</table>
Changing the Display Language

You can change the language in which information appears on the LCD monitor of the camera. You can choose from Japanese, English, French, German, Spanish, Portuguese, Italian, Swedish, Dutch, Russian, Thai, Korean, and Chinese (traditional and simplified).

1 Press the MENU button.
   The [Menu] appears.

2 Touch [Setting].
   The Setting screen appears.

3 Touch [Language/言語].
   The Language/言語 screen appears.

4 Touch the desired language.
   • The setting is saved and the screen returns to the previous screen.
   • If the desired language does not appear, touch the arrow icons (➡️) to advance the screen and select the language.

5 Press the MENU button twice.
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.
Changing a Folder Name

You can choose how names are assigned to folders for storing images and sound files. When [Date] is selected, images and sound files are saved in separate folders by the date they were taken or recorded.

**Folder Naming Method**

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>XXXPENTX (where XXX is the 3-digit folder number) Stores up to 500 files in the same folder. However, the maximum file number is 9999.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Date</td>
<td>XXX_mmdd (3-digit folder number_month and day) Stores files in folders organized by date.</td>
</tr>
</tbody>
</table>

1. **Press the MENU button.**
   The [Menu] appears.
2. **Touch [Setting].**
   The Setting screen appears.
3. **Touch [Folder Name].**
   The Folder Name screen appears.
4. **Touch the (Standard) or (Date) icon.**
   The setting is saved and the screen returns to the previous screen.
5. **Press the MENU button twice.**
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.
Changing the USB Connection Mode

Choose the appropriate USB connection mode depending on whether you are going to connect the USB cable to a PC or a PictBridge-compatible printer.

1 Press the MENU button.
The [Menu] appears.

2 Touch [Setting].
The Setting screen appears.

3 Touch [USB Connection].
The USB Connection screen appears.

4 Touch the (PC) or (PictBridge) icon.

(PC) : Uses to transfer image and sound data to a PC.

(PictBridge) : Uses to connect the camera to a PictBridge-compatible printer.
The setting is saved and the screen returns to the previous screen.

5 Press the MENU button twice.
- The camera returns to Capture mode.
- Press the button to return to Playback mode.

Caution
Do not connect the camera to your printer while (PC) is selected for the USB Connection mode, and do not connect the camera to your computer while (PictBridge) is selected.

Memo
Refer to the supplied “PC Connection Manual” for instructions on how to connect the camera to a computer.
Changing the Video Output Format

When you connect the camera to AV equipment, choose the appropriate video output format (NTSC or PAL) to play back images. Depending on the country or region, images, sound files, and movies may not play back if the video output format of the camera does not match the video format used there. If this happens, change the video output format setting.

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Setting].**
   The Setting screen appears.

3. **Touch [ ].**
   The next page of the Setting screen appears.

4. **Touch [Video Out].**
   The Video Out screen appears.

5. **Touch [NTSC] or [PAL].**
   - Choose the video output format to match the output format of the AV equipment.
   - The setting is saved and the screen returns to the previous screen.

6. **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.
Adjusting the Brightness of the LCD Monitor

1. Press the MENU button.
   The [Menu] appears.

2. Touch [Setting].
   The Setting screen appears.

3. Touch [←].
   The next page of the Setting screen appears.

4. Touch [Brightness Level].
   The Brightness Level screen appears.

5. Touch the ↓ or ↑ icon to adjust the brightness.
   - Touch the ↓ icon to make the monitor darker and the ↑ icon to make the monitor brighter.
   - You can also drag the cursor along the bar to the desired setting.

6. Touch [OK].
   The setting is saved and the screen returns to the previous screen.

7. Press the MENU button twice.
   - The camera returns to Capture mode.
   - Press the Q button to return to Playback mode.
Using the Power Saving Function

You can save battery power by setting the LCD monitor to turn off automatically when no operations have been performed for a predetermined time period. After the power saving function is activated, you can turn the LCD monitor on again by pressing any button on the camera.

1 Press the MENU button.
   The [Menu] appears.
2 Touch [Setting].
   The Setting screen appears.
3 Touch [ ].
   The next page of the Setting screen appears.
4 Touch [Power Saving].
   The Power Saving screen appears.
5 Choose the duration time until the LCD monitor turns off.
   • Select [30sec], [20sec], [15sec], [10sec], [5sec], or [Off].
   • The setting is saved and the screen returns to the previous screen.
6 Press the MENU button twice.
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.

Memo

Power Saving does not function in the following situations:
   • when using the AC adapter
   • while recording a movie
   • when recording a voice memo
   • when using the self-timer
   • when playing back a sound file or movie
   • during a slideshow
   • during video output
Setting Auto Power Off

You can set the camera to turn off automatically when no operations have been performed for a predetermined time period.

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Setting].**
   The Setting screen appears.

3. **Touch [ ].**
   The next page of the Setting screen appears.

4. **Touch [Auto Power Off].**
   The Auto Power Off screen appears.

5. **Choose the duration time until the power turns off.**
   - Select [5min], [3min], or [Off] (do not turn off).
   - The setting is saved and the screen returns to the previous screen.

6. **Press the MENU button twice.**
   - The camera returns to Capture mode.
   - Press the button to return to Playback mode.

**Memo**

Even when set to [5min] or [3min], Auto Power Off will not function when the camera is connected to a PC or printer.
Setting the Guide Display

You can choose whether or not the guide display will appear when an icon is touched on the [Capture Palette] or [Playback Palette]. The guide display provides a description of each icon’s function.

1 **Press the MENU button.**
   The [Menu] appears.

2 **Touch [Setting].**
   The Setting screen appears.

3 **Touch [ ].**
   The next page of the Setting screen appears.

4 **Touch [Guide Display].**
   The setting changes to ✓ (On) or □ (Off).
   ✓ : Turns on the guide display.
   □ : Turns off the guide display.

5 **Press the MENU button twice.**
   • The camera returns to Capture mode.
   • Press the button to return to Playback mode.

**Memo**

Even when [Guide Display] is set to On, you can bypass it by double-touching the icon.
Returning Changed Settings to Their Defaults (Reset)

You can reset the camera settings to their defaults. The language, date and time, world time, and video output format are not affected.

1. **Press the MENU button.**
   The [Menu] appears.

2. **Touch [Setting].**
   The Setting screen appears.

3. **Touch [ ].**
   The next page of the Setting screen appears.

4. **Touch [Reset].**
   The Reset screen appears.

5. **Touch [Reset].**
   The settings are reset and the camera returns to Capture mode.
Charging the Battery Abroad

The battery charger supplied with the camera is designed to switch automatically to the voltage (100 - 240V) and frequency (50Hz, 60Hz) of the electricity supply in the country or region where used. However, electrical socket shapes differ from country to country. Before traveling abroad, you are advised to check the socket shape used in the country of your destination (see “Main Socket Types in the Major Countries and Regions of the World”) and take an appropriately shaped adapter plug with you. The socket shape does not affect battery charging.

Caution

- Use of battery charger components other than those specified for your camera may result in damage to the battery and improper camera operation.
- Unplug the adapter plug from the power outlet when the battery charger is not in use.

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>BF</th>
<th>C</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shape</td>
<td>![Shape A]</td>
<td>![Shape B]</td>
<td>![Shape BF]</td>
<td>![Shape C]</td>
<td>![Shape S]</td>
</tr>
<tr>
<td>Adapter plug</td>
<td>—</td>
<td>![Adapter plug B]</td>
<td>![Adapter plug BF]</td>
<td>![Adapter plug C]</td>
<td>![Adapter plug S]</td>
</tr>
</tbody>
</table>
Main Socket Types in the Major Countries and Regions of the World

<table>
<thead>
<tr>
<th>Region</th>
<th>Countries</th>
<th>A</th>
<th>B</th>
<th>BF</th>
<th>C</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>U.S.A., Canada</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe, Former</td>
<td>Iceland, Ireland, Italy, Ukraine, Austria,</td>
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<tr>
<td>Soviet Union</td>
<td>Netherlands, Kazakhstan, Greece, Sweden,</td>
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<td></td>
<td>Denmark, Germany, Norway, Hungary, Finland,</td>
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<td></td>
<td>France, Belarus, Belgium, Rumania, Russia</td>
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<td>U.K.</td>
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<td>Spain</td>
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<td></td>
<td>Switzerland, Poland, Portugal</td>
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<tr>
<td>Asia</td>
<td>Japan, Taiwan</td>
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<td></td>
<td>Sri Lanka, Maldives</td>
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<td></td>
<td>Nepal, Bangladesh, Mongolia</td>
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<td>Vietnam</td>
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<td></td>
<td>India, Indonesia, Pakistan, Macau</td>
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<td></td>
<td>Thailand</td>
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<td>Korea</td>
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<td>Philippines</td>
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<td></td>
<td>Singapore, Hong Kong</td>
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<td></td>
<td>China</td>
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<td></td>
<td>Malaysia</td>
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<tr>
<td>Oceania</td>
<td>Australia, Tonga, New Zealand, Fiji</td>
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<td></td>
<td>Guam</td>
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<td>Tahiti</td>
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<tr>
<td>Central and South</td>
<td>Colombia, Jamaica, Haiti, Panama, Bahamas,</td>
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<tr>
<td>America</td>
<td>Puerto Rico, Venezuela, Mexico</td>
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<tr>
<td></td>
<td>Brazil, Peru</td>
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<td>Chile</td>
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<td>Argentina</td>
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<tr>
<td>Middle East</td>
<td>Israel, Iran</td>
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<tr>
<td></td>
<td>Kuwait</td>
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<td></td>
<td>Jordan</td>
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<tr>
<td>Africa</td>
<td>Canary Islands, Guinea, Mozambique, Morocco</td>
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<tr>
<td></td>
<td>Kenya, South Africa</td>
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<td></td>
<td>Algeria</td>
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<td></td>
<td>Egypt</td>
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<tr>
<td></td>
<td>Zambia, Tanzania</td>
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</tr>
</tbody>
</table>
The optional AC adapter kit K-AC7 is recommended when the camera will be used with AV or PC equipment and will be on for long periods of time.

1. Make sure that the camera is turned off before opening the DC input terminal cover.
2. Connect the DC terminal of the AC adapter to the DC input terminal on the camera.
3. Connect the AC plug cord to the AC adapter.
4. Plug the AC plug cord into a power outlet.
Caution

- Make sure the camera is turned off before connecting or disconnecting the AC adapter.
- Make sure the AC plug cord and the power cord connecting the AC adapter to the camera are inserted securely. Data may be lost if either becomes disconnected while data is being recorded on the SD Memory Card or the built-in memory.
- Use the AC adapter with due care to avoid fire or electric shock.
- Be sure to read “USING YOUR CAMERA SAFELY” (p.7) before using the AC adapter.
- Be sure to read the operation manual accompanying the AC adapter kit K-AC7 before using it.
- The battery inside the camera does not charge when the AC adapter is connected to the camera.
Optional Accessories

A number of dedicated accessories are available for this camera.

**AC adapter kit K-AC7 (AC adapter D-AC7, AC Plug cord D-CO2)**

**Battery charger kit K-BC8 (**)  
(Battery charger D-BC8, AC Plug cord D-CO2)**

The ending of the AC plug cord D-CO2 (**) differs depending on the country.

**Rechargeable lithium-ion battery D-LI 8 (**)**

**USB cable I-USB17 (**)**

**AV cable I-AVC7 (**)**

**Strap O-ST20 (**)**

**Leather strap O-ST24**

**Strap O-ST8**

**Sports strap O-ST30**

**Remote control E (Zoom function)**

**Remote control F**

**Camera case O-CC45**

Products marked with an asterisk (**) are the same as those supplied with the camera.
Messages such as the following may appear on the LCD monitor during camera operation.

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery depleted</td>
<td>The battery is exhausted. Charge the battery using the battery charger (p.14).</td>
</tr>
<tr>
<td>Memory card full</td>
<td>The SD Memory Card is full and no more images or sound files can be saved. Insert a new SD Memory Card or delete unwanted images or sound files (p.17, p.89). Change the picture size or quality or both and try again (p.49, p.94).</td>
</tr>
<tr>
<td>Built-in memory full</td>
<td>The built-in memory is full and no more image or sound files can be saved. Insert an SD Memory Card or delete unwanted images or sound files (p.17, p.89). Change the picture size or quality or both and try again (p.49, p.94).</td>
</tr>
<tr>
<td>Memory card error</td>
<td>Shooting and playback are impossible due to a problem with the SD Memory Card. However, you may be able to display or copy already recorded images on the card using a PC.</td>
</tr>
<tr>
<td>Card not formatted</td>
<td>The SD Memory Card you have inserted is unformatted or has been formatted on a computer or other device that is not compatible with this camera (p.122).</td>
</tr>
<tr>
<td>Card locked</td>
<td>The SD Memory Card is write-protected (p.19).</td>
</tr>
<tr>
<td>Compression error</td>
<td>Compression of the image you captured has failed. Change the quality/size and try again (p.49, p.94).</td>
</tr>
<tr>
<td>No image/sound</td>
<td>There are no image/sound files on the SD Memory Card to play back.</td>
</tr>
<tr>
<td>Deleting</td>
<td>Appears when deleting an image or sound file.</td>
</tr>
<tr>
<td>Camera cannot play this image and sound</td>
<td>The image or sound is in a format not supported by the camera. You may be able to play it back on another brand of camera or on your computer.</td>
</tr>
<tr>
<td>Image folder cannot be created</td>
<td>The largest file number (9999) has been assigned to an image or sound file in the largest folder number (999) and no more image or sound files can be saved. Insert a new SD Memory Card or format the card (p.17, p.122).</td>
</tr>
<tr>
<td>Image/Sound cannot be created</td>
<td>The maximum number (5000) of images or sound files has been recorded, and no more pictures or sound files can be recorded. Insert a new SD Memory Card or format the card (p.17, p.122).</td>
</tr>
</tbody>
</table>
Protected | The image or sound file you are trying to delete is protected.
---|---
Data being recorded | Appears when you try to switch to Playback mode while an image is still being recorded, or when the protect setting or DPOF setting is being changed. It disappears after the image is recorded or the setting is changed.
Data being processed | Appears when the camera takes more than five seconds to display an image due to image processing, or when the SD Memory Card or built-in memory is being formatted.
This image/sound cannot be resized. | Appears when you try to resize an image or sound file that cannot be resized.
This image/sound cannot be trimmed. | Appears when you try to crop an image or sound file that cannot be cropped.

Messages such as the following may appear on the LCD monitor when using the PictBridge function.

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No paper in the printer</td>
<td>The printer is out of paper.</td>
</tr>
<tr>
<td>No ink in the printer</td>
<td>The printer is out of ink.</td>
</tr>
<tr>
<td>Printer error</td>
<td>An error message has been sent from the printer.</td>
</tr>
<tr>
<td>Data error</td>
<td>A data error message has been sent from the printer.</td>
</tr>
<tr>
<td>Paper stuck in the printer</td>
<td>The printer has a paper jam.</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera will not turn on</td>
<td>Battery is not installed</td>
<td>Check if a battery is installed. If not, install battery (p.15).</td>
</tr>
<tr>
<td>Camera will not turn on</td>
<td>Battery is installed incorrectly</td>
<td>Check orientation of battery. Reinsert battery (p.15).</td>
</tr>
<tr>
<td>Camera will not turn on</td>
<td>The battery is exhausted</td>
<td>Charge the battery (p.14).</td>
</tr>
<tr>
<td>Camera will not turn on</td>
<td>The battery performance has temporarily deteriorated because it is too cold</td>
<td>Warm up the battery by placing it in a pocket where it can come in contact with body heat.</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Camera is turned off</td>
<td>Turn the camera on (p.20).</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Camera is connected to a computer</td>
<td>The LCD monitor turns off when the camera is connected to a computer.</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Camera is connected to a TV</td>
<td>The LCD monitor turns off when the camera is connected to a TV.</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Display mode is set to Off</td>
<td>Touch the LCD monitor to change the display mode setting (p.40).</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Power Saving function has activated</td>
<td>Deactivate by pressing the shutter release button halfway in Capture mode or by touching the LCD monitor in Playback mode.</td>
</tr>
<tr>
<td>No image on LCD monitor</td>
<td>Image is displayed but is hard to see</td>
<td>Increase the brightness of the LCD monitor (p.134).</td>
</tr>
<tr>
<td>Shutter will not release</td>
<td>Flash is charging</td>
<td>Pictures cannot be taken while the flash is charging. Wait until charging is finished.</td>
</tr>
<tr>
<td>Shutter will not release</td>
<td>No available space on SD Memory Card or in the built-in memory</td>
<td>Insert SD Memory Card with available space or delete unwanted files (p.17, p.89). Change the picture size or quality or both and try again (p.49, p.94).</td>
</tr>
<tr>
<td>Shutter will not release</td>
<td>Recording</td>
<td>Wait until recording is finished.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Subject is not in focus</td>
<td>Subject is difficult to focus with autofocus</td>
<td>Lock focus on another object located at the same distance (press shutter release button halfway), then compose picture and press shutter release button fully, or use Manual Focus mode.</td>
</tr>
<tr>
<td></td>
<td>Subject is not in focusing area</td>
<td>Position subject in focus frame in middle of LCD monitor. If the subject is outside the focusing area, aim the camera at the subject and lock the focus (press shutter release button halfway), then compose picture and press the shutter release button fully.</td>
</tr>
<tr>
<td></td>
<td>Subject is too close</td>
<td>Set focus mode to (Macro) (p.63).</td>
</tr>
<tr>
<td></td>
<td>Focus mode is set to (Macro)</td>
<td>Subjects at a distance of 40 cm or greater will be out of focus if taken with the focus mode set to (Macro) (p.63).</td>
</tr>
<tr>
<td></td>
<td>Subject is too dark to focus on</td>
<td>Set auxiliary AF light to On (p.66).</td>
</tr>
<tr>
<td>Flash does not discharge</td>
<td>Flash mode is set to (Flash Off)</td>
<td>Set to (Auto) or (Flash On) (p.56).</td>
</tr>
<tr>
<td></td>
<td>The shooting mode is set to (Movie), the drive mode is set to (Cont. Shooting), or the focus mode is set to (Infinity)</td>
<td>Switch to a different mode.</td>
</tr>
<tr>
<td>Subject is blurred</td>
<td>Camera moved when taking a picture</td>
<td>Use a tripod and the self-timer or remote control function when taking a picture.</td>
</tr>
<tr>
<td></td>
<td>Subject moved when taking a picture</td>
<td>Use flash or set a higher ISO sensitivity to increase the shutter speed.</td>
</tr>
<tr>
<td>Colors in picture are not accurate</td>
<td>Camera is unable to automatically adjust white balance, or setting is incorrect</td>
<td>Check the white balance setting (p.58).</td>
</tr>
</tbody>
</table>
### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture is too dark</td>
<td>Flash mode is set to <em>FLASH_OFF</em> (Flash Off)</td>
<td>Set to  (Auto) or  (Flash On) (p.56).</td>
</tr>
<tr>
<td></td>
<td>Subject is beyond the flash range</td>
<td>Take picture within range of flash (p.56).</td>
</tr>
<tr>
<td></td>
<td>Camera is unable to correctly adjust exposure</td>
<td>Adjust EV setting toward  (p.53).</td>
</tr>
<tr>
<td></td>
<td>Subject is backlit</td>
<td>Use spot AE metering on the subject to obtain proper exposure (p.55).</td>
</tr>
<tr>
<td>Picture is too light</td>
<td>Flash discharged</td>
<td>Set the flash mode to  (Flash Off) to turn off the flash, or set it to  (Soft) to lower the intensity of the flash (p.56).</td>
</tr>
<tr>
<td></td>
<td>Camera is unable to correctly adjust exposure</td>
<td>Adjust EV setting toward  (p.53).</td>
</tr>
<tr>
<td>Image or sound file cannot be deleted</td>
<td>SD Memory Card is write-protected</td>
<td>Unlock the SD Memory Card write-protection switch (p.19).</td>
</tr>
<tr>
<td></td>
<td>Image or sound file is protected</td>
<td>Cancel the protection setting of the image or sound file (p.92).</td>
</tr>
<tr>
<td>Cannot play back image or sound file in built-in memory</td>
<td>SD Memory Card is inserted</td>
<td>Remove the SD Memory Card (p.18).</td>
</tr>
<tr>
<td>Functions return to their original settings when camera is turned off</td>
<td>Memory is set to Off</td>
<td>Set Memory to On, to save the settings of your functions when the camera is turned off (p.38).</td>
</tr>
<tr>
<td>Wrong date is displayed on images and/or sound files</td>
<td>Date and time are not set</td>
<td>Set the date and time. The date and time are not set at the time of purchase (p.21).</td>
</tr>
<tr>
<td></td>
<td>Camera was stored with exhausted battery</td>
<td>The date and time settings are canceled when the camera is stored for approximately one day with an exhausted battery. Reset the date and time (p.123).</td>
</tr>
<tr>
<td>USB connection to computer does not work properly</td>
<td>USB connection mode is set to  (PictBridge)</td>
<td>Change the USB connection mode to  (PC) (p.132).</td>
</tr>
<tr>
<td>USB connection to printer does not work properly</td>
<td>USB connection mode is set to  (PC)</td>
<td>Change the USB connection mode to  (PictBridge) (p.132).</td>
</tr>
<tr>
<td>Camera images are not displayed on TV</td>
<td>Improper cable connections, no power, incorrect TV format chosen</td>
<td>Make sure video cable is connected to proper input on TV, that both camera and TV are turned on, and that the correct video format is selected (p.87).</td>
</tr>
</tbody>
</table>
## Main Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Fully automatic compact digital still camera with built-in zoom lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Pixels</td>
<td>7.0 megapixels</td>
</tr>
<tr>
<td>Sensor</td>
<td>7.38 megapixels (total pixels) 1/2.5 inch interline transfer CCD with a primary color filter</td>
</tr>
</tbody>
</table>
| Recorded Pixels | **Picture**<br>7M (3072×2304 pixels), 5M (2592×1944 pixels)<br>4M (2304×1728 pixels), 3M (2048×1536 pixels)<br>2M (1600×1200 pixels), 640 (640×480 pixels)  
**Movie** 640 (640×480 pixels), 320 (320×240 pixels) |
| File Format | **Picture** JPEG (Exif 2.2), DCF, DPOF, PictBridge, PRINT Image Matching III  
**Movie** AVI (Motion JPEG), streaming video, approx. 30fps/15fps, PCM system, monaural sound  
**Sound** Voice memo, voice recording: WAVE (PCM) system, monaural |
| Quality Level | **Picture** ★★★ (Best), ★★ (Better), ★ (Good)  
**Movie** ★★★ (Best), ★★ (Better), ★ (Good) |
| Storage Medium | Built-in memory (approx. 12 MB), SD Memory Card |

### Approximate Image Storage Capacity and Recording Time

#### Picture

<table>
<thead>
<tr>
<th>Built-in Memory</th>
<th>256 MB</th>
<th>256 MB</th>
<th>256 MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>7M</td>
<td>3 pictures</td>
<td>69 pictures</td>
<td>6 pictures</td>
</tr>
<tr>
<td>5M</td>
<td>4 pictures</td>
<td>83 pictures</td>
<td>7 pictures</td>
</tr>
<tr>
<td>4M</td>
<td>5 pictures</td>
<td>105 pictures</td>
<td>9 pictures</td>
</tr>
<tr>
<td>3M</td>
<td>6 pictures</td>
<td>135 pictures</td>
<td>12 pictures</td>
</tr>
<tr>
<td>2M</td>
<td>9 pictures</td>
<td>202 pictures</td>
<td>16 pictures</td>
</tr>
<tr>
<td>640</td>
<td>39 pictures</td>
<td>810 pictures</td>
<td>65 pictures</td>
</tr>
</tbody>
</table>
### Movie/Sound

<table>
<thead>
<tr>
<th></th>
<th>30fps</th>
<th>15fps</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Memory</td>
<td></td>
<td>Memory</td>
</tr>
<tr>
<td>✔️</td>
<td>256 MB</td>
<td>6 min. 16 sec.</td>
<td>256 MB</td>
</tr>
<tr>
<td>✔️</td>
<td>26 sec.</td>
<td>8 min. 57 sec.</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>38 sec.</td>
<td>13 min. 24 sec.</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>16 sec.</td>
<td>12 min. 33 sec.</td>
<td>4 hr. 19 min. 16 sec.</td>
</tr>
<tr>
<td>✔️</td>
<td>46 sec.</td>
<td>16 min. 4 sec.</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>12 min. 31 sec.</td>
<td>24 min. 54 sec.</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>17 min. 51 sec.</td>
<td>35 min. 23 sec.</td>
<td></td>
</tr>
</tbody>
</table>

- **White Balance**: Auto, Daylight, Shade, Tungsten Light, Fluorescent Light, Manual
- **Lens**: Focal Length 6.2 mm - 18.6 mm (equivalent to 37.5 mm - 112.5 mm in 35 mm format)
  - Aperture: f/2.7 - f/5.2
  - Lens Composition: 6 elements in 5 groups (two aspherical elements)
  - Zoom Type: Electrically driven
  - Picture Range: Approx. 148 mm × 111 mm (screen is filled) (Macro mode)
- **Digital Zoom**: Capture Mode Max. 4× (combines with 3× optical zoom to give zoom magnification equivalent to 12×)
- **LCD Monitor**: 3.0-inch TFT color LCD monitor (touch display) with backlight and brightness adjustment, approx. 230,000 pixels
- **Playback Functions**: Single-frame, 9-frame index, magnify (max. 12×, scroll), rotating, sound playback, slideshow, movie playback and editing (saving as still image), histogram display, image/sound copy, digital filter (Soft, Illustration, Broader or More slender, Special Effect), brightness filter, color filter (Black & White, Sepia, Color (8 variations), B&W+Red, B&W+Blue, B&W+Green), cropping, resizing, framing, red-eye compensation, My Drawing (Line, Stamp, Crop, My Stamp, Erase), voice memo, protect, DPOF, start-up screen
- **Focus Modes**: Autofocus, Macro, Pan Focus, Infinity, Manual Focus
### Main Specifications

<table>
<thead>
<tr>
<th>Focusing System</th>
<th>Type</th>
<th>Still Picture Focusing Range (from lens front)</th>
<th>Movie Focusing Range (from lens front)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Normal</td>
<td>: Approx. 0.4 m - ∞ (full zoom range)</td>
<td>Normal : Approx. 0.15 m - ∞ (full wide-angle setting)</td>
</tr>
<tr>
<td></td>
<td>Macro</td>
<td>: Approx. 0.15 m - 0.5 m (full wide-angle setting)</td>
<td>Macro : Approx. 0.15 m - 0.5 m (full wide-angle setting)</td>
</tr>
<tr>
<td></td>
<td>Pan Focus</td>
<td>: Approx. 1.2 m - ∞ (full wide-angle setting)</td>
<td>Pan Focus : Approx. 0.7 m - ∞ (full wide-angle setting)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>: Approx. 4.8 m - ∞ (full telephoto setting)</td>
<td>Approx. 2.7 m - ∞ (full telephoto setting)</td>
</tr>
<tr>
<td></td>
<td>Landscape</td>
<td>: ∞ (full zoom range)</td>
<td>Landscape : ∞ (full zoom range)</td>
</tr>
<tr>
<td></td>
<td>Manual focus</td>
<td>: Approx. 0.15 m - ∞ (full wide-angle setting)</td>
<td>Manual focus : Approx. 0.15 m - ∞ (full wide-angle setting)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>: Approx. 0.4 m - ∞ (except for full wide-angle setting)</td>
<td>Approx. 0.4 m - ∞ (except for full wide-angle setting)</td>
</tr>
</tbody>
</table>

#### Focus Lock
- By pressing the shutter release button halfway

#### Exposure Mechanism
- **AE metering**
  - TTL metering by sensor (multi-segment, center-weighted, spot)
- **EV Compensation**
  - ±2 EV (can be set in 1/3 EV steps)

#### Shooting Modes
- **Program**, **Night Scene**, **Movie**, **Voice Recording**, **Landscape**, **Flower**, **Portrait**, **Surf & Snow**, **Sport**, **Pet**, **Food**, **Frame Composite**

#### Movie Continuous Recording Time
- Approx. 1 second, minimum, or until built-in memory or SD memory card is full.

#### Shutter
- **Type**
  - Electronic/mechanical shutter
- **Speed**
### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash</strong></td>
<td>Type: Auto flash with red-eye reduction function</td>
</tr>
<tr>
<td><strong>Flash Modes</strong></td>
<td>Auto (at low illumination), Flash Off, Flash On, Auto+Red-eye, Flash On+Red-eye, Soft Flash (Slow synchronization is possible only in Night Scene mode)</td>
</tr>
</tbody>
</table>
| **Effective Range**      | Full wide-angle setting: Approx. 0.15 m - 4.5 m (Standard Output Sensitivity: in Auto condition)  
                          | Full telephoto setting: Approx. 0.4 m - 2.5 m (Standard Output Sensitivity: in Auto condition) |
| **Drive Modes**          | Single-frame, Self-timer (approx. 10 sec., approx. 2 sec.), Continuous, Remote Control (approx. 3 sec., on-demand) |
| **Self-timer**           | Electronic control type, control time: approx. 10 sec., approx. 2 sec.       |
| **Remote Control**       | PENTAX Remote control E/F (optional)                                         
                          | Zooming is possible with Remote control E.                                   |
| **Time Function**        | World Time                                                                   |
|                          | 71 cities (28 time zones)                                                    |
| **Power Supply**         | Rechargeable lithium-ion battery D-LI 8, AC adapter kit (optional)           |
| **Battery Life**         | Number of Recordable Images *                                               |
|                          | Approx. 130 pictures                                                         |
|                          | Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on, flash used for 50% of the shots, and at an ambient temperature of 23°C). Actual performance may vary depending on operating conditions. |
| **Playback Time**        | Approx. 100 min.                                                            |
|                          | According to the result of PENTAX in-house testing.                          |
| **Max. Charging Time**   | Approx. 100 min.                                                            |
| **In/Out Port**          | PC (USB 2.0, High-Speed compatible)/AV terminal, DC input terminal           |
| **Video Output Format**  | NTSC/PAL (monaural)                                                          |
| **PictBridge**           | Printer                                                                       |
| **Print Modes**          | PictBridge-compatible printer                                               |
| **Paper Size**           | Card, L, 2L, Postcard, 100 mm×150 mm, 4"×6", 8"×10", Letter, 11"×17", A4, A3, printer setting |
| **Paper Type**           | ★★★, ★★, ★, printer setting                                              |
| **Quality**              | ★★★, ★★, ★, printer setting                                               |
| **Border Status**        | With/without, printer setting                                                |
| **Size**                 | 95 (W) × 58.5 (H) × 19.5 (D) mm (excluding operating or protruding parts) |
| **Weight**               | 135 g (excluding battery and SD Memory Card)                               |
| **Weight When Shooting** | 155 g (including battery and SD Memory Card)                                |
| **Accessories**          | Rechargeable lithium-ion battery, battery charger, AC plug cord, USB cable, AV cable, software (CD-ROM), strap, stylus, operating manual |
Information on disposal for users

1. In the European Union

If your product is marked with this symbol, it means that used electrical/electronic products should not be mixed with general household waste. There exists a separate collection system for these products.

Used electric/electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.

* Please contact your local authority for further details.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don’t purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.
WARRANTY POLICY

All PENTAX cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized PENTAX service facilities.

Procedure During 12-month Warranty Period
Any PENTAX which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your PENTAX was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer’s representatives in that country. Notwithstanding this, your PENTAX returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer’s authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.
• This warranty policy does not affect the customer’s statutory rights.
• The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.
For customers in USA

STATEMENT OF FCC COMPLIANCE
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. Changes or modifications not approved by the party responsible for compliance could void the user’s authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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.

For customers in Canada
This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Pour les utilisateurs au Canada
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
Declaration of Conformity
According to 47CFR, Parts 2 and 15 for Class B Personal Computers and Peripherals

We: PENTAX Imaging Company
A Division of PENTAX of America, Inc.
Located at: 600 12th Street, Suite 300
Golden, Colorado 80401 U.S.A.
Phone: 303-799-8000 FAX: 303-790-1131

Declare under sole responsibility that the product identified herein complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on the statistical basis as required by 47CFR §2.909. 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. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §15.101 to §15.109.

Product Name: PENTAX Digital Still Camera
Model Number: Optio T20
Contact person: Customer Service Manager
Date and Place: October, 2006, Colorado
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