Digital Still Camera

Operating Instructions
Before operating the unit, please read this manual thoroughly, and retain it for future reference.

Owner’s Record
The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. DSC-P30/P50
Serial No. ________________________
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the Customers in the U.S.A.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

If you have any questions about this product, you may call:
Sony Customer Information Services Center
1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Declaration of Conformity
Trade Name: SONY
Model No.: DSC-P30
Responsible Party: Sony Electronics Inc.
Address: 680 Kinderkamack Road, Oradell, NJ 07649 USA
Telephone No.: 201-930-6972

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.

Declaration of Conformity
Trade Name: SONY
Model No.: DSC-P50
Responsible Party: Sony Electronics Inc.
Address: 680 Kinderkamack Road, Oradell, NJ 07649 USA
Telephone No.: 201-930-6972

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.

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

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Caution:
Do not handle damaged or leaking lithium ion battery.

For the Customers in Germany

This equipment complies with the EMC regulations when used under the following circumstances:
• Residential area
• Business district
• Light-industry district
(This equipment complies with the EMC standard regulations EN55022 Class B.)

Attention for the Customers in Europe

This product has been tested and found compliant with the limits sets out on the EMC Directive for using connection cables shorter than 3 meters.

Attention
The electromagnetic fields at the specific frequencies may influence the picture and sound of this camera.

For the Customers in the U.S.A.

DISPOSAL OF LITHIUM ION BATTERY.
LITHIUM ION BATTERY.
DISPOSE OF PROPERLY.
You can return your unwanted lithium ion batteries to your nearest Sony Service Center.

Note:
In some areas the disposal of lithium ion batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call 1-800-222-SONY (United States only)
For the Customers in the U.S.A. and Canada

THIS CLASS B DIGITAL DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND THE CANADIAN ICES-003 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.

Precaution on copyright
Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provision of the copyright laws.

Do not shake or strike the camera
In addition to malfunctions and inability to record images, this may render the “Memory Stick” unusable or image data breakdown, damage or loss may occur.

Do not aim the camera at the sun or other bright light
This may cause irrecoverable damage to your eyes.

Trial recording
Before you record one-time events, you may want to make a trial recording to make sure that the camera is working correctly.

No compensation for contents of the recording
Contents of the recording cannot be compensated for if recording or playback is not possible due to a malfunction of your camera or recording medium, etc.

Notes on image data compatibility
- This camera conforms with the Design Rules for Camera File Systems universal standard established by the JEITA (Japan Electric and Information Technology Industries Association). You cannot play back on your camera still images recorded on other equipment (DCR-TRV890E/ TRV900/TRV900E, DSC-D700, DSC-D770) that does not conform with this universal standard. (These models are not sold in some areas.)
- Playback of images recorded with your camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed.

Be sure to read the following before using your camera

LCD screen, LCD finder (only models with a finder) and lens
- The LCD screen and the LCD finder are manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen and the LCD finder. These points are normal in the manufacturing process and do not affect the recording in any way.
- Be careful when placing the camera near a window or outdoors. Exposing the LCD screen, the finder or the lens to direct sunlight for long periods may cause malfunctions.

Notes on batteries
Be careful when removing the batteries, as they may be hot after the camera is used for long periods.

Do not get the camera wet
When taking pictures outdoors in the rain or under similar conditions, be careful not to get the camera wet. If moisture condensation occurs, refer to page 71 and follow the instructions on how to remove it before using the camera.

Back up recommendation
To avoid the potential risk of data loss, always copy (back up) data to a disk.
When the camera is used for long periods
Note that the camera body may become hot.
**Introduction**

**Checks the image after recording images**
- Recording still images: page 19
- Playing back still images: page 28
- Deleting images (DELETE): page 62

**Captures images with your computer**
You can copy images onto your computer and view and modify images or attach images to e-mail on your computer using the supplied USB cable and application software.
- Viewing images using a personal computer: page 30
- Recording still images for e-mail (E-MAIL): page 48

**Records a moving picture (MPEG Movie or Clip Motion) according to your purpose**
- Recording moving images (MPEG MOVIE): page 26

**Selects the recording mode from various types of recordings according to your situation**
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Identifying the parts

See the pages in parentheses for details of operation.

1. **POWER button/lamp (15)**
   Press and hold down this button for approximately one second to turn on the camera.

2. **Mode dial (18) (39)**
   - : To record in TWILIGHT mode
   - : To record still images
   - : To playback or edit images
   - : To record moving images or Clip Motion images
   SET UP: To set the setup items

3. **Shutter button (19) (27)**
4. **Flash (24)**
5. **Photocell window for flash**
   Do not block while recording with the flash.

6. **Self-timer (23) (27)/AF illuminator (25)**

7. **Lens cap (supplied)**
   Be sure to remove the lens cap before recording.

8. **Finder window**
9. **Beep/shutter sound holes**
10. **Lens**
11. **Jack cover**
12. **USB jack (32) (34)**
13. **VIDEO OUT jack (61)**
14. **Tripod receptacle (bottom surface)**
   Use a tripod with a screw length of less than 5.5 mm (7/32 inch). You will be unable to firmly secure the camera to tripods having longer screws, and may damage the camera.

15. **RESET button (75)**
Getting started

1 Finder
   Self-timer/recording lamp (red)
   AE/AF lock lamp (green)
   /CHG (flash charge/battery charge) lamp (orange) (24)
2 MENU button (40)
3 DC IN jack cover (12) (14)
4 DC IN jack (12) (14)
5 Control button (18) (39)
6 LCD screen

7 DISPLAY/LCD ON/OFF button (21)
8 Zoom button (for recording) (22)/INDEX/zoom button (for playback) (59)
9 Hook for lens cap/wrist strap
10 OPEN switch
11 Battery cover
12 Access lamp (17)
13 “Memory Stick” cover

Attaching the strap
Preparing the power supply

Installing the supplied batteries or an optional battery pack

Your camera operates only with the following batteries.
- Two size AA alkaline batteries (supplied)
- “InfoLITHIUM” (S series) battery pack (NP-FS11) (recommended, not supplied)
- Two size AA nickel metal hydride batteries (not supplied)
- Two size AA nickel-cadmium batteries (not supplied)

The “InfoLITHIUM” battery pack is recommended for long operating times. Note that in this Operating Instructions, “batteries” refers to size AA alkaline batteries.

Batteries

1. Open the battery cover.
   Open the cover while sliding the OPEN switch in the direction of the arrow.

2. Insert the battery pack with the ▲ mark facing toward the battery compartment.

“InfoLITHIUM” battery pack (not supplied)
2 Install the batteries.
Insert the two size AA batteries with the + and - ends facing as illustrated. Be careful not to insert the batteries facing the wrong way.

3 Close the battery cover.
Pressing the batteries with the cover, close the cover firmly until it clicks into place.

To remove the batteries
Open the battery cover with the battery cover side facing upward and remove the batteries. Be careful not to drop the batteries when removing them.

Power save mode
When operating the camera with batteries, set POWER SAVE in the SET UP screen to ON to extend the battery life. The factory setting is ON (page 70). See page 88 for more information on power save mode.

Auto power-off function
If you do not operate the camera for about three minutes during recording or playback, the camera turns off automatically to prevent wearing down the battery. To use the camera again, press the POWER button to turn on the camera again. The auto power-off function only operates when the camera is operating using a battery pack. The auto power-off also will not operate when playing back moving images or playing back a slide show (page 60), or when a connector is plugged into the USB jack, the VIDEO OUT jack or the DC IN jack.

* What is “InfoLITHIUM”?*  
“InfoLITHIUM” is a lithium ion battery pack which can exchange information such as battery consumption with compatible video equipment. This unit is compatible with the “InfoLITHIUM” battery pack (S series). “InfoLITHIUM” S series battery packs have the \( \text{InfoLITHIUM} \) mark. “InfoLITHIUM” is a trademark of Sony Corporation.

NP-FS11 battery pack (not supplied)
When you record images in an extremely cold location or using the LCD screen, the operating time becomes short. When using the camera in an extremely cold location, place the battery pack in your pocket or other place to keep it warm, then insert the battery pack into the camera just before recording. When using a pocket heater, take care not to let the heater directly contact the battery.
Charging the battery pack (not supplied)

You cannot charge the battery pack while your camera is turned on. Be sure to turn off your camera.

1 Insert the battery pack into your camera.

2 Open the DC IN jack cover and connect the DC connecting cable to the DC IN jack of your camera with the ▲ mark facing up.

3 Connect the power cord (mains lead) to the AC power adaptor (not supplied) and then to a wall outlet (mains).
   The $/CHG lamp lights up when charging begins. When the $/CHG lamp goes off, charging is completed.

After charging the battery pack
Disconnect the AC power adaptor from the DC IN jack on your camera.

Battery remaining indicator
When using an optional “InfoLITHIUM” battery pack, the LCD screen on the camera shows the remaining time for which you can still record or play back images. This indication may not be entirely accurate depending on the conditions of use and the operating environment.
Charging at 10°C to 30°C (50°F to 86°F) circumstances is recommended.
When using size AA alkaline batteries, the remaining time is not shown.

Note
When you turn the LCD screen on and off, it takes about one minute for the correct battery remaining time to appear.
Battery life and number of images that can be recorded/played back

Still image recording*

<table>
<thead>
<tr>
<th>Battery life (min.)</th>
<th>Number of images</th>
<th>Battery life (min.)</th>
<th>Number of images</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD screen ON</td>
<td>Approx. 30</td>
<td>Approx. 600</td>
<td>Approx. 90</td>
</tr>
<tr>
<td>LCD screen OFF</td>
<td>Approx. 60</td>
<td>Approx. 1200</td>
<td>Approx. 120</td>
</tr>
</tbody>
</table>

Still image playback***

<table>
<thead>
<tr>
<th>Battery life (min.)</th>
<th>Number of images</th>
<th>Battery life (min.)</th>
<th>Number of images</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD screen ON</td>
<td>Approx. 60</td>
<td>Approx. 1200</td>
<td>Approx. 120</td>
</tr>
</tbody>
</table>

Approximate battery life and number of images that can be recorded/played back 640×480 image size, standard picture quality, no flash, and in NORMAL recording mode.

* Recording at about 3-second intervals with the power save mode off (when continuous recording, the power save mode does not operate effectively.)

** When using a fully charged battery pack at a temperature of 25°C (77°F).

*** Playing back single images in order at about 3-second intervals

Moving image recording

<table>
<thead>
<tr>
<th>Battery life (min.)</th>
<th>Number of images</th>
<th>Battery life (min.)</th>
<th>Number of images</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD screen OFF</td>
<td>Approx. 60</td>
<td>Approx. 30</td>
<td>Approx. 120</td>
</tr>
</tbody>
</table>

Approximate recording time in 160×112 image size.

* When using a fully charged battery pack at a temperature of 25°C (77°F).

Notes

- The camera may not operate in an extremely cold location when using alkaline batteries. Even when using an “InfoLITHIUM” battery pack (not supplied), the battery life and number of images will be decreased if you use your camera at low temperatures, use the flash, repeatedly turn the power on/off or use the zoom.
- The numbers of images shown on tables above are as a guide. The numbers may be smaller depending on conditions.
- The capacity of the “Memory Stick” is limited. The above figures are a guide when you continuously record/play back while replacing the “Memory Stick.”
- When LCD BACKLIGHT is set to BRIGHT, the battery life and number of images will be decreased.
Charging time

<table>
<thead>
<tr>
<th>Battery pack</th>
<th>Full charge (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NP-FS11 (not supplied)</td>
<td>Approx. 180</td>
</tr>
</tbody>
</table>

Approximate time to charge a completely discharged battery pack using the AC-LS1A AC power adaptor (not supplied) at a temperature of 25°C (77°F).

Using the AC power adaptor (not supplied)

1. Open the DC IN jack cover and connect the DC connecting cable to the DC IN jack of your camera with the ▲ mark facing up.

2. Connect the power cord (mains lead) to the AC power adaptor (not supplied) and then to a wall outlet (mains).

Using a car battery
Use Sony DC adaptor/charger (not supplied).

Using your camera abroad
For details, see page 74.

When using the AC power adaptor
Be sure to use it near the wall outlet. If a malfunction occurs, disconnect the plug from the wall outlet.
**Setting the date and time**

When you first use your camera, set the date and time. If these are not set, the CLOCK SET screen appears whenever you turn on your camera.

1. Set the mode dial to 📸, 📋, 📅 or 📅.

2. Press and hold down the POWER button for approximately one second to turn on the power.
   The POWER ON/OFF (CHG) lamp (green) lights up.
   The CLOCK SET screen appears on the LCD screen.
   To change the date and time, set the mode dial to SET UP (page 69) and perform the procedure from step 3.

3. Select the desired date display format with ▲/▼ on the control button, then press the center ⬤.
   Select from [Y/M/D] (year/month/day), [M/D/Y] (month/day/year) or [D/M/Y] (day/month/year).

4. Select the year, month, day, hour or minute item you want to set with ◀/▶ on the control button.
   The item to be set is indicated with ▲/▼.
5. **Set the numeric value with ▲/▼ on the control button, then press the center ● to enter it.**

   After entering the number, ▲/▼ moves to the next item.
   If you selected [D/M/Y] in step 3, set the time on a 24-hour cycle.

6. **Select [OK] with ► on the control button, then press the center ● at the desired moment to begin clock movement.**

   The date and time are entered.

---

**To cancel the date and time setting**

Select [CANCEL] with ▲/▼/◄/► on the control button, then press the center ●.

**Note**

If the rechargeable button battery is ever fully discharged (page 72), the CLOCK SET screen will appear again. When this happens, reset the date and time by starting from step 3 above.
Inserting the “Memory Stick”

1. Open the “Memory Stick” cover.

2. Insert the “Memory Stick.”
   Insert the “Memory Stick” with the ▶ mark facing toward the battery compartment as illustrated until it clicks.

3. Close the “Memory Stick” cover.

Removing the “Memory Stick”
Open the “Memory Stick” cover, then press the “Memory Stick” once lightly.

Notes
- Insert the “Memory Stick” firmly until it clicks, otherwise a message such as “MEMORY STICK ERROR” will be displayed.
- Never remove the “Memory Stick” or turn off the power while the access lamp is lit up.
- You cannot record or edit images on a “Memory Stick” if the erasure prevention switch is set to the LOCK position.

The position and shape of the erasure prevention switch may differ depending on the types of “Memory Stick” used.
Basic operations

How to use the mode dial

The mode dial switches the function which is used for recording, playback, or editing. Set the dial as follows before starting to operate your camera.

- \( \odot \): To record still images in TWILIGHT mode
- \( \odot \): To record still images
- \( \odot \): To play back or edit images
- \( \odot \): To record moving images or Clip Motion images
- SET UP: To set the setup items (The SET UP position changes the settings of infrequently-used items.)

How to use the control button

When the menu is not displayed, the control button is used to perform the following operations.

- \( \odot \): Recording with flash
- \( \odot \): Recording with self-timer
- \( \odot \): Checking the last recorded image
- \( \odot \): Recording close subjects

When you select above functions with the control button while recording with the LCD screen turned off, the LCD screen lights for approximately 2 seconds and the selected function icon appears on the screen. The LCD screen also lights automatically when the MENU button is pressed, but in this case the LCD screen does not turn off automatically.
Recording still images

Still images are recorded in JPEG format. Before recording still images, press the POWER button to turn on the power and insert a “Memory Stick.”

1 Set the mode dial to  or .

2 Press and hold the shutter button halfway down.
The image freezes momentarily, but is not yet recorded. While the AE/AF lock indicator \( \bullet \) is flashing, the camera automatically adjusts the exposure and focus of the captured image. When the camera finishes the automatic adjustments, the AE/AF lock indicator \( \bullet \) stops flashing, then lights up and the camera is ready for recording.*

If you release the shutter button, the recording will be canceled.
Press the shutter button fully down.
The shutter sounds.
“RECORDING” appears on the LCD screen, and the image will be recorded on the “Memory Stick.” When “RECORDING” disappears, you can record the next image.

The number of images you can record on a “Memory Stick”
See pages 46 and 48 to 52.

Notes
• When recording a bright subject, the LCD screen color may change after AE/AF lock, but this does not affect the recorded image.
• When you press the shutter button fully down at once in step 2, the camera starts recording after the automatic adjustment is complete. However, the recording cannot be carried out while the $/CHG lamp (page 21) is flashing. (During this time, the camera is charging the flash.)

Holding the camera correctly
Hold the camera so that your fingers do not block the flash and do not touch the lens portion when recording images.

* If the flashing AE/AF lock indicator changes to flashing slowly, the subject may be difficult to focus on (dark, poor contrast) or the subject may be extremely close. Release the shutter button, then focus again.
Recording images with the finder

You can extend the battery time by turning off the LCD screen and recording using the finder. Each time you press DISPLAY/LCD ON/OFF, the status of the LCD screen changes as follows:
See page 85 for a detailed description of the indicated items.

- The LCD backlight is turned on.
  (All the available indicators are turned on.)

↓

- The LCD backlight is turned on.
  (Warning messages are turned on.)

↓

- The LCD backlight is turned off.

Indicators in the finder

- Recording lamp (red)
- AE/AF lock lamp (green)
- $/$CHG lamp (orange)

Notes

- You cannot check the entire recording range with the finder. Recording with the LCD screen is recommended when it is necessary to correctly understand the recording range.
- Because of the difference of the portion of the finder and the lens, use the LCD screen when you record a subject closer than 1 m (3 1/4 feet).
- When [DEMO] is set to [ON] in the SET UP settings, you cannot turn off the LCD screen once the demonstration starts.
- You cannot turn off the LCD backlight in SET UP and when displaying the menu.
- You cannot turn off the self-timer indicators and some of the indicators used in advanced operations.
- The indicators on the LCD screen are not recorded.
Recording with the LCD screen

When recording with the LCD screen, align the AF frame in the center of the screen with the subject.

![AF frame]

Checking the last recorded image (Quick Review)

You can check the last recorded image by clearing the menu from the screen (page 40) and pressing ◀ (日起) on the control button. (You can perform this operation even when the LCD screen is off.)

To return to the normal recording mode: press lightly on the shutter button or press ◀ (日起) again.

To delete the image: 1. Press MENU. 2. Select [DELETE] with ▶ on the control button, then press the center ●. 3. Select [OK] with ▲ on the control button, then press the center ●.

Using the zoom feature

![Zoom button]

Minimum focal distance to the subject

W side: About 25 cm (9 27/32 inches) or more
T side: About 80 cm (31 1/2 inches) or more
To record even closer subjects, see page 53.
Digital zoom function
This camera has a digital zoom function. Digital zoom enlarges the image by digital processing and it starts to function when zoom exceeds 3×.

Using digital zoom
- The maximum zoom magnification is 6×.
- Digital zooming deteriorates the picture quality. When digital zoom is not necessary, set [DIGITAL ZOOM] to [OFF] in the setup settings (page 69).

Notes
- Digital zoom does not work for moving images.
- Use the LCD screen when using digital zoom function. Digitally zoomed images do not appear in the finder.
- The AF frame (page 85) does not appear on the LCD screen.

Using the self-timer
When you use the self-timer function, the subject is recorded about 10 seconds after you press the shutter button.

Clear the menu (page 40), then press the control button ▼ (潆). The潆 (self-timer) indicator appears on the LCD screen, and about 10 seconds after you press the shutter button, the subject is recorded. The self-timer lamp flashes and the beep sounds after you press the shutter button until the shutter is released. To cancel the self-timer recording, press the control button ▼ (潆) again.
**Recording images with the flash**

The factory setting is auto (no indicator). In this mode, the flash automatically strobes when the surroundings is dark. To change the flash mode, clear the menu (page 40), then press the control button ▲ (فرح) repeatedly so that the flash mode indicator appears on the LCD screen.

![Control button ▲ (فرح)](image)

Each time you press the control button ▲ (فرح), the indicator changes as follows.

- (No indicator) → (No indicator)
- (No indicator) → (No indicator)
- (No indicator) → (No indicator)
- (No indicator) → (No indicator)

♫ Forced flash: The flash strobes regardless of the surrounding brightness.
♫ No flash: The flash does not strobe.

You can change the brightness of the flash with [±] (FLASH LEVEL) in the menu settings (page 42).

**To reduce the red-eye phenomenon**

Set [RED EYE REDUCTION] to [ON] in the setup settings, the flash strobes before recording to reduce the red-eye phenomenon (page 69). When [ON] is selected and the mode dial is set to  or ,  appears on the LCD screen.

**Notes**

- When [ISO] is set to [AUTO] in the menu settings, the recommended shooting distance using the built-in flash is 0.3 m to 2.0 m (11 13/16 inches to 6 feet 6 3/4 inches). When it is not set to [AUTO], the flash may be ineffective even if the flash level is changed.
- Red-eye reduction may not produce the desired effects depending on individual differences, the distance to the subject, if the subject does not see the pre-strobe, or other conditions.
- The flash effect is not obtained easily when you use forced flash in a bright location.
- While charging the flash, the $/CHG lamp flashes. After the charging is complete, the lamp goes out.
- The flash does not function when recording moving images (excluding Clip Motion).
- When you record images in a dark place with the camera set to  (no flash), the shutter speed becomes slow, so using a tripod is recommended to prevent shaking.
Recording images with the AF illuminator

The AF illuminator is fill light to focus on a subject easily. Set [AF ILLUMINATOR] (page 69) to [ON] in the setup settings, \( \text{\texttt{ON}} \) appears on the LCD screen and the AF illuminator emits light when the shutter button is pressed halfway. It keeps emitting light until the focus is locked.

**Notes**
- If AF illuminator light does not reach the subject sufficiently or the subject has no contrast, focus will not be achieved. (Approximate distance up to 2.0 m (6 feet 6 3/4 inches) is recommended.)
- In TWILIGHT mode (page 47), the AF illuminator will emit only when the flash mode is set to \( \text{\texttt{\#}} \) (Forced flash).
- Focus is achieved as long as AF illuminator light reaches to the subject even if its light is slightly out of the middle position of the subject.
- The AF illuminator does not operate when adjusting focus manually.
- The AF illuminator is a very bright light. Although it is safe to use, avoid shining it directly into someone’s eyes at a close distance.
Recording moving images

Moving images are recorded in MPEG format (page 38).
To record moving images, press the POWER button to turn on the power and insert a “Memory Stick.”

1. Set the mode dial to SET UP.

2. Select [ ] (CAMERA) with ▲/▼ on the control button, then press ▶.

3. Select [MOVING IMAGE] with ▲/▼ on the control button, then press ▶.

4. Select [MPEG MOVIE] with ▲/▼ on the control button, then press the center ●.

5. Set the mode dial to ◄.
6 **Press the shutter button fully down.**

When you use the self-timer function, the subject is recorded about 10 seconds after you press the shutter button. Sound cannot be recorded with moving images.

7 **Press the shutter button fully down again to stop recording.**

The recording stops. Or, the recording stops when the “Memory Stick” is full. For details on the image size, see “Setting the image size (IMAGE SIZE)” on page 45.

---

### Using the self-timer

When you use the self-timer function, the subject is recorded about 10 seconds after you press the shutter button. Clear the menu (page 40), then press the control button ▼ ( ). The (self-timer) indicator appears on the LCD screen, and the recording starts about 10 seconds after you press the shutter button. The self-timer lamp flashes and the beep sounds after you press the shutter button until the shutter is released. To stop the self-timer recording, press the control button ▼ ( ) again.

### LCD screen indicators during recording

Each time you press DISPLAY/LCD ON/OFF, the status of the LCD screen changes as follows: all indicators on → indicators off → LCD screen off. These indicators are not recorded. See page 86 for a detailed description of the indicators.

**Note**

If you remove the battery or otherwise turn off the power partway through a recording, the moving image recorded thus far is not saved. When the mark appears while operating the camera with batteries, stop the recording at this point before the batteries completely run out.
Playing back still images

1. Set the mode dial to [ ].
   The last recorded image (still or moving) appears on the LCD screen.

2. Select the desired still image with the control button ◀/▶.
   ◀: To display the preceding image.
   ▶: To display the next image.

Notes
• You might not be able to correctly play back images recorded with this camera on other equipment.
• You cannot play back on this camera images larger than the maximum image size that can be recorded with this camera.
• A rough image is played back, followed by the normal image.

LCD screen indicators during still image playback

Each time you press DISPLAY/LCD ON/OFF, the status of the LCD screen changes as follows: all indicators on ➔ indicators off ➔ LCD screen off.
See page 87 for a detailed description of the indicators.
Playing back moving images

1 Set the mode dial to [ ].
The last recorded image (still or moving) appears on the LCD screen.

2 Select the desired moving image with the control button ◄/►.
Moving images are displayed one-size smaller than still images.
◄: To display the preceding image.
►: To display the next image.

3 Select the center ● to start the playback.
The moving image is played back.
During playback, ► (playback) appears on the LCD screen.
To advance or rewind, press the control button ◄/► during playback.

To pause playback
Press the center ● on the control button to stop the playback.

To advance or rewind the moving image
Press the control button ◄/► during playback.
To return to the normal playback, press the center ● on the control button.

LCD screen indicators during moving image playback

Each time you press DISPLAY/LCD ON/OFF, the status of the LCD screen changes as follows: all indicators on → indicators off → LCD screen off.
See page 87 for a detailed description of the indicators.
Viewing images using a personal computer

You can view data recorded with your camera on a personal computer, modify and attach it to e-mail using application software. This section describes the method for viewing images on a personal computer using the supplied USB cable.

There are two ways to make the USB connection, which are the normal connection and the PTP connection (page 70). This is set using [USB CONNECT] in the setup settings. Here describes the way using the [NORMAL] setting. Users will be informed at the Sony website when PTP connection is supported.

The factory setting of USB mode is [NORMAL].

The mode can be checked and set as follows.

1. Set the mode dial to SET UP.
2. Select [SETUP2] with ▲/▼, then press ►.
3. Select [USB CONNECT] with ▲/▼, then press ►.
4. Select the connection mode with ▲/▼.

The USB cable is used to connect the camera to a personal computer so that operations can be performed on image files recorded in a “Memory Stick” from the personal computer.

In order to use the USB cable, a USB driver must be installed in the personal computer beforehand.

Be sure to also refer to the operation manuals for your personal computer and the application software.

Notes

• Data recorded with your camera is stored in the following formats. Make sure that applications that support these file formats are installed on your personal computer.
  — Still images (other than TEXT mode, uncompressed mode and Clip Motion): JPEG format
  — Moving images: MPEG format
  — Uncompressed mode still images: TIFF format
  — TEXT mode/Clip Motion: GIF format
• Depending on your application software, the file size may increase when you open a still image file.
• When you copy the image to the camera from your computer, which was modified with a retouching software and was converted to another file format, the “FILE ERROR” message may appear and you may be unable to open the image.
• Depending on your application software, only the first frame of the Clip Motion file may be played back.

Communications with your computer (for Windows only)

• Communications between your camera and your computer may not recover after recovering from Suspend or Sleep.
• When connecting the camera to a computer, use the AC power adapter (not supplied). When you use your camera with alkaline batteries, make sure that there is enough battery life, as the images in the “Memory Stick” may be damaged or lost if the camera power runs out during communication with the computer.
Recommended computer environment

Recommended Windows environment
The above OS is required to be installed at the factory.
Operation is not assured in an environment upgraded to the operating systems described above.
CPU: MMX Pentium 200 MHz or faster
The USB connector must be provided as standard.

Recommended Macintosh environment
Macintosh computer with the Mac OS 8.5.1/8.6/9.0/9.1 standard installation
However, note that the update to Mac OS 9.0/9.1 should be used for the following models.
  • iMac with the Mac OS 8.6 factory pre-installed and a slot loading type CD-ROM drive
  • iBook or Power Mac G4 with the Mac OS 8.6 factory pre-installed
The USB connector must be provided as standard.
QuickTime 3.0 or newer must be installed (to play back moving pictures).

Notes
• If you connect two or more USB equipment to a single personal computer at the same time, some equipment may not operate depending on the type of USB equipment.
• Operations are not guaranteed when using a hub.
• Operations are not guaranteed for all the recommended computer environments mentioned above.

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• All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, “™” and “®” are not mentioned in each case in this manual.
Installing the USB driver

Before connecting your camera to your personal computer, install the USB driver to the computer. The USB driver is included with the application software in the CD-ROM which is supplied with your camera.

Be sure to complete installation of the USB driver before connecting the USB cable. If you connect the USB cable first, you will be unable to install the USB driver properly.

See page 80 for corrective measures if the USB cable was connected before installing the driver and the software could not be installed correctly.

For Windows 98/98SE/Me and Windows 2000 users

1. Turn on your personal computer and allow Windows to load. Do not connect the USB cable in this step.

2. Insert the supplied CD-ROM in the CD-ROM drive of your personal computer. The application software screen appears.


4. Follow the on-screen messages to install the USB driver. Your personal computer may restart.

5. Connect the USB jack (mini-B) on your camera with the USB connector on your personal computer using the supplied USB cable.

6. Insert a “Memory Stick” into your camera, connect the AC power adaptor and turn on your camera. “USB MODE” appears on the LCD screen of your camera and the camera is set to communication standby mode. Your personal computer recognizes the camera, and the Windows Add Hardware Wizard starts.
Follow the on-screen messages to have the Add Hardware Wizard recognize the hardware.
The Add Hardware Wizard starts twice because two different USB drivers are to be installed. Be sure to allow the installation to complete without interrupting it.

**Notes**
- Do not connect the USB cable before the USB driver installation is completed in step 4.
- In step 7, make sure that a “Memory Stick” is inserted into your camera before installing the USB driver. Otherwise, you will be unable to install the USB driver.

---

**For Macintosh users**

- **When using MacOS9.1**
  It is not necessary to install the USB driver. The Macintosh recognizes the camera as a drive simply by connecting it to the Macintosh with the USB cable.

- **When using MacOS8.5.1/8.6/9.0**
  Follow the procedures below to install the driver.

1. Turn on your personal computer and allow the Mac OS to load.
2. Insert the supplied CD-ROM in the CD-ROM drive of your personal computer.
3. Double-click the CD-ROM drive icon to open the window.
4. Double-click the icon of the hard disk containing the OS to open the window.
5. Move the following two files from the window opened in step 3 to the “System Folder” icon in the window opened in step 4 (drag and drop).
   - Sony USB Driver
   - Sony USB Shim
6. When “Put these items into the Extensions folder?” appears, click “OK.”
7. Restart your personal computer.
Viewing images

When viewing moving images on a Windows system, RealPlayer, Windows Media Player or other moving image playback applications must be installed. When viewing moving images on a Macintosh system, QuickTime3.0 or later must be installed.

1 Turn on the power of your personal computer and allow Windows or Mac OS to load.

2 Connect the USB jack (mini-B) on the camera with the USB connector on your personal computer using the supplied USB cable.

3 Insert a “Memory Stick” into your camera, and connect the AC power adaptor to your camera and then to a wall outlet (mains).

4 Turn on the power of your camera.
   “USB MODE” appears on the LCD screen of the camera.

For Windows 98/98SE/Me and Windows 2000 users

5 Open “My Computer” on Windows and double click the newly recognized drive. (Example: “Removable Disk (E:)”)
   The folders inside the “Memory Stick” are displayed.
   If the drive is not recognized, see “Troubleshooting” on page 75.
Select and double-click the desired image file from the folder.
For the detailed folder and file name, see “Image file storage destinations and image files” on page 37.

<table>
<thead>
<tr>
<th>Desired file type</th>
<th>Double-click in this order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Still image</td>
<td>“Dcim” folder → “100msdcf” folder → Image file</td>
</tr>
<tr>
<td>Moving image*</td>
<td>“Mssony” folder → “Moml0001” folder → Image file*</td>
</tr>
<tr>
<td>Clip Motion image</td>
<td>“Dcim” folder → “100msdcf” folder → Image file</td>
</tr>
<tr>
<td>E-mail image</td>
<td>“Mssony” folder → “Imcif100” folder → Image file</td>
</tr>
<tr>
<td>TIFF image (uncompressed)</td>
<td></td>
</tr>
</tbody>
</table>

For Macintosh users
Follow the procedure 1 – 4 on page 34.

5 Double click the newly recognized icon on the desktop.
The folders inside the “Memory Stick” are displayed.

6 Select and double-click the desired image file from the folder.

Notes on using your personal computer

“Memory Stick”
• Operation is not guaranteed if you are using a “Memory Stick” that was formatted with a personal computer, or if you used a personal computer to format the “Memory Stick” in your camera through a USB connection.
• Do not optimize the “Memory Stick” on a Windows machine. This will shorten the “Memory Stick” life.
• Do not compress the data on the “Memory Stick.” Compressed files cannot be played back on your camera.
**For Windows Me and Windows 2000 users**

The following procedures are recommended when disconnecting the USB cable from your personal computer or ejecting the “Memory Stick” from the camera while it is connected to your personal computer.

1. Stop the drive by clicking on the “Unplug/Eject” icon in the task tray.
2. When the message appears confirming the safe removal of the hardware, disconnect the USB cable or eject the “Memory Stick”.

**Software**

- Depending on your application software, the file size may increase when you open a still image file.
- When you load an image modified using the supplied retouch software from your personal computer to the camera or when you directly modify the image on the camera, the image format will differ so the “FILE ERROR” message may appear and you may be unable to open the file.
- Depending on your application software, only the first frame of the Clip Motion file may be played back.

**Communications with your personal computer (for Windows only)**

Communications between your camera and your personal computer may not recover after recovering from Suspend, Resume, or Sleep.
Image files recorded with your camera are grouped in folders by recording mode. The meanings of the file names are as follows. □□□□ stands for any number within the range from 0001 to 9999.

For Windows Me users (The drive recognizing the camera is “E.”)

<table>
<thead>
<tr>
<th>Folder</th>
<th>File</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>100MSDCF</td>
<td>DSC□□□□.JPG</td>
<td>• Still image file recorded normally</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Still image file recorded in</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– E-MAIL mode (page 48)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– TIFF mode (page 50)</td>
</tr>
<tr>
<td></td>
<td>CLP□□□□.GIF</td>
<td>• Clip Motion file recorded in NORMAL mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(page 51)</td>
</tr>
<tr>
<td></td>
<td>CLP□□□□.THM</td>
<td>• Index image file of Clip Motion file</td>
</tr>
<tr>
<td></td>
<td></td>
<td>recorded in NORMAL mode</td>
</tr>
<tr>
<td></td>
<td>MBL□□□□.GIF</td>
<td>• Clip Motion file recorded in MOBILE mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(page 51)</td>
</tr>
<tr>
<td></td>
<td>MBL□□□□.THM</td>
<td>• Index image file of Clip Motion file</td>
</tr>
<tr>
<td></td>
<td></td>
<td>recorded in MOBILE mode</td>
</tr>
<tr>
<td></td>
<td>TXT□□□□.GIF</td>
<td>• Still image file recorded in TEXT mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(page 49)</td>
</tr>
<tr>
<td></td>
<td>TXT□□□□.THM</td>
<td>• Index image file of still image file</td>
</tr>
<tr>
<td></td>
<td></td>
<td>recorded in TEXT mode</td>
</tr>
<tr>
<td>Folder</td>
<td>File</td>
<td>Meaning</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IMCIF100</td>
<td>DSC0□□□□.JPG</td>
<td>• Small-size image file recorded in E-MAIL mode (page 48)</td>
</tr>
<tr>
<td></td>
<td>DSC0□□□□.TIF</td>
<td>• Uncompressed image file recorded in TIFF mode (page 50)</td>
</tr>
<tr>
<td>MOML0001</td>
<td>MOV0□□□□.MPG</td>
<td>• Moving image file recorded normally</td>
</tr>
</tbody>
</table>

The numerical portions of the following files are the same.
- A small-size image file recorded in E-MAIL mode and its corresponding image file
- An uncompressed image file recorded in TIFF mode and its corresponding image file
- An image file recorded in TEXT mode and its corresponding index image file
- An image file recorded with Clip Motion and its corresponding index image file

**Tips**

The digital still camera saves recorded images as digital data. The format of the saved data is called as the file format. The formats that can be used with this camera are as follows:

**JPEG format**

Most digital still cameras, operating systems of computers, and browser software adopt this format. This format is able to compress files without appreciable deterioration. However, if the image is compressed and saved on repeated occasions, the image will deteriorate. This camera records still images using the JPEG format for normal recording.

**GIF format**

Using this format, the image will not deteriorate even if the image is compressed and saved on repeated occasions. This format limits the number of colors to 256 colors. This camera records still images using the GIF format in Clip Motion (page 51) or TEXT mode (page 49).

**TIFF format**

Stores shooting images without compression, so the image does not deteriorate. Most of operating systems and applications correspond to this format. This camera records still images using the TIFF format for the TIFF mode (page 50).

**MPEG format**

This format is very typical for moving images. This camera records moving images using the MPEG format.
Before performing advanced operations

This section describes the basic control methods that are frequently used for “Advanced operations.”

How to use the mode dial

The mode dial switches the function which is used for recording, playback, or editing. Set the dial as follows before starting to operate your camera.

- To record still images in TWILIGHT mode
- To record still images
- To play back or edit images
- To record moving images or Clip Motion images
- SET UP: To set the setup items (The SET UP position changes the settings of infrequently-used items.)

How to use the control button

When the menu or setup screen is displayed, the control button is used to select the buttons, images and menu items displayed on the LCD screen of your camera and modify the settings. The operation methods that are frequently used for “Advanced operations” are described below.
Turning on/off the operation buttons (menu) on the LCD screen

Press MENU to display/clear the menu on the LCD screen.

You can perform this operation even when the LCD screen is off.

Setting up the items in the setup or menu

1. Set the mode dial to SET UP so that the setup screen appears, or press MENU so that the menu appears.

2. When the mode dial is set to SET UP or 🎥:
   ① Press ▲/▼/◄/► on the control button to select the item you want to set up.
   ② Press the center ● on the control button to enter the item.

When the mode dial is set to 📸, 📝, or 📖:
Press ▲/▼/◄/► on the control button to select the setting of the item.
The selected setting is turned to yellow, and the setup is complete.
Menu settings

Menu items that can be modified differ depending on the positions of the mode dial. The LCD screen shows only the items you can operate at the moment. Factory settings are indicated with □.

When the mode dial is set to  

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[EV] (EV)</td>
<td>+2.0EV to −2.0EV</td>
<td>Adjust the exposure value (page 53).</td>
</tr>
<tr>
<td>[FOCUS] (FOCUS)</td>
<td>∞ (infinite) 7.0 m 3.0 m 1.0 m 0.5 m □ AUTO</td>
<td>Sets the distance to the subject (page 52).</td>
</tr>
<tr>
<td>WB (WHITE BAL)</td>
<td>HOLD □ AUTO IN DOOR OUT DOOR</td>
<td>Sets the white balance (page 54).</td>
</tr>
<tr>
<td>[SPOT METER]</td>
<td>ON □ OFF</td>
<td>Adjusts the brightness of the spot to be recorded (page 57).</td>
</tr>
<tr>
<td>ISO</td>
<td>400 200 100 □ AUTO</td>
<td>Selects the ISO film speed. When recording under dark situations or recording a fast-moving subject, use a high-number setting. When you record high-quality images, use a low-number setting (except when the mode dial is set to  ).</td>
</tr>
<tr>
<td>[IMAGE SIZE]</td>
<td>□ 1600×1200 (DSC-P50) 1280×960 (DSC-P30) 1600 (3:2) (DSC-P50) 1280(3:2) (DSC-P30) 1024×768 640×480</td>
<td>Selects the image size when recording still images (page 45).</td>
</tr>
<tr>
<td>Item</td>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>MODE (REC MODE)</td>
<td>TIFF</td>
<td>Records a TIFF (uncompressed) file in addition to the JPEG file (page 50).</td>
</tr>
<tr>
<td></td>
<td>TEXT</td>
<td>Records a GIF file in black-and-white (page 49).</td>
</tr>
<tr>
<td></td>
<td>E-MAIL</td>
<td>Records a small-size (320×240) JPEG file in addition to the selected image size (page 48).</td>
</tr>
<tr>
<td></td>
<td>NORMAL</td>
<td>Records an image using the normal recording mode.</td>
</tr>
<tr>
<td>± (FLASH LEVEL)</td>
<td>HIGH</td>
<td>Makes the flash level higher than normal.</td>
</tr>
<tr>
<td></td>
<td>NORMAL</td>
<td>Normal setting.</td>
</tr>
<tr>
<td></td>
<td>LOW</td>
<td>Makes the flash level lower than normal.</td>
</tr>
<tr>
<td>PFX (P. EFFECT)</td>
<td>SOLARIZE B&amp;W SEPIA NEG.ART OFF</td>
<td>Sets the image special effects (page 55).</td>
</tr>
<tr>
<td>(SHARPNESS)</td>
<td>+2 +1 0 −1 −2</td>
<td>Adjusts the sharpness of the image. The indicator appears (except when the setting is 0).</td>
</tr>
</tbody>
</table>

**When the mode dial is set to (MOVING IMAGE is set to MPEG MOVIE in the setup settings.)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(EV)</td>
<td>+2.0EV to −2.0EV</td>
<td>Adjusts the exposure value (page 53).</td>
</tr>
<tr>
<td>(FOCUS)</td>
<td>∞ (infinite) 7.0 m 3.0 m 1.0 m 0.5 m AUTO</td>
<td>Sets the distance to the subject (page 52).</td>
</tr>
<tr>
<td>WB (WHITE BAL)</td>
<td>HOLD AUTO IN DOOR OUT DOOR</td>
<td>Sets the white balance (page 54).</td>
</tr>
<tr>
<td>(SPOT METER)</td>
<td>ON OFF</td>
<td>Adjusts the brightness of the spot to be recorded (page 57).</td>
</tr>
</tbody>
</table>
Before performing advanced operations

When the mode dial is set to MOVING IMAGE is set to CLIP MOTION in the setup settings.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IMAGE SIZE</strong></td>
<td></td>
<td>Selects the MPEG image size when recording moving images (page 45).</td>
</tr>
<tr>
<td>PFX (P. EFFECT)</td>
<td>SOLARIZE B&amp;W SEPIA NEG.ART OFF</td>
<td>Sets the image special effects (page 55).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EV</strong></td>
<td>+2.0EV to –2.0EV</td>
<td>Adjusts the exposure value (page 53).</td>
</tr>
<tr>
<td><strong>FOCUS</strong></td>
<td>∞ (infinite) 7.0 m 3.0 m 1.0 m 0.5 m AUTO</td>
<td>Sets the distance to the subject (page 52).</td>
</tr>
<tr>
<td><strong>WHITE BAL</strong></td>
<td>HOLD AUTO IN DOOR OUT DOOR</td>
<td>Sets the white balance (page 54).</td>
</tr>
<tr>
<td><strong>SPOT METER</strong></td>
<td>ON OFF</td>
<td>Adjusts the brightness of the spot to be recorded (page 57).</td>
</tr>
<tr>
<td><strong>IMAGE SIZE</strong></td>
<td>NORMAL MOBILE</td>
<td>Selects the Clip Motion image size (page 45, 51).</td>
</tr>
<tr>
<td><strong>FLASH LEVEL</strong></td>
<td>HIGH NORMAL LOW</td>
<td>Makes the flash level higher than normal. Normal setting. Makes the flash level lower than normal.</td>
</tr>
<tr>
<td><strong>PFX (P. EFFECT)</strong></td>
<td>SOLARIZE B&amp;W SEPIA NEG.ART OFF</td>
<td>Sets the image special effects (page 55).</td>
</tr>
</tbody>
</table>
When the mode dial is set to  

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELETE</td>
<td>OK</td>
<td>Deletes the displayed image (page 62).</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td>Cancels deleting of the image.</td>
</tr>
<tr>
<td>PROTECT</td>
<td>–</td>
<td>Protects images against accidental erasure (page 63).</td>
</tr>
<tr>
<td>PRINT</td>
<td>–</td>
<td>Marks the print mark on still images (page 66).</td>
</tr>
<tr>
<td>SLIDE*</td>
<td>INTERVAL</td>
<td>Sets the slide show interval.</td>
</tr>
<tr>
<td></td>
<td>REPEAT</td>
<td>3 sec/5 sec/10 sec/30 sec/1 min</td>
</tr>
<tr>
<td></td>
<td>START</td>
<td>Starts the slide show.</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td>Cancels the slide show.</td>
</tr>
<tr>
<td>RESIZE*</td>
<td>1600×1200</td>
<td>Changes the recorded image size (page 65).</td>
</tr>
<tr>
<td></td>
<td>(DSC-P50)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1280×960</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(DSC-P30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1024×768</td>
<td></td>
</tr>
<tr>
<td></td>
<td>640×480</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td></td>
</tr>
<tr>
<td>ROTATE*</td>
<td>OK</td>
<td>Rotates the still image (page 61).</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td></td>
</tr>
<tr>
<td>DIVIDE*</td>
<td>OK</td>
<td>Divides a moving image (page 67).</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td></td>
</tr>
</tbody>
</table>

* Only in single-image mode.

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SHARPNESS</strong></td>
<td>+2</td>
<td>Adjusts the sharpness of the image.</td>
</tr>
<tr>
<td></td>
<td>+1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>The  indicator appears (except when the setting is 0).</td>
</tr>
<tr>
<td></td>
<td>–1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>–2</td>
<td></td>
</tr>
</tbody>
</table>
Setting the image size (IMAGE SIZE)

1. Set the mode dial to [ ], [ ], or [ ].

2. Press MENU. The menu appears.

3. Select the desired image size from [ ] (IMAGE SIZE) and press ▲/▼.

Still image sizes:
DSC-P50
1600×1200, 1600 (3:2)*, 1024×768, 640×480

DSC-P30
1280×960, 1280(3:2)*, 1024×768, 640×480

* The image is recorded in the ratio of three to two to fit the printing paper size. Using this image size, the margin of an image is not printed out. However, the slight amount of the upper and lower black portions are displayed on the LCD screen.

Moving image (MPEG movie) sizes:
320×240, 160×112

Clip Motion sizes:
NORMAL (160×120), MOBILE (80×72)
The number of images* or the time** that you can record on a “Memory Stick” (4 MB)

Still images:

<table>
<thead>
<tr>
<th>Image size</th>
<th>Usage</th>
<th>Quality</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1600×1200 (DSC-P50)</td>
<td>Printing in A4 format</td>
<td></td>
<td>STANDARD</td>
<td>FINE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 7</td>
<td>Approx. 3</td>
<td></td>
</tr>
<tr>
<td>1600 (3:2) (DSC-P50)</td>
<td>Printing in 3:2 ratio</td>
<td></td>
<td>STANDARD</td>
<td>FINE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 7</td>
<td>Approx. 3</td>
<td></td>
</tr>
<tr>
<td>1280×960 (DSC-P30)</td>
<td>Printing in post card size</td>
<td></td>
<td>STANDARD</td>
<td>FINE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 11</td>
<td>Approx. 6</td>
<td></td>
</tr>
<tr>
<td>1280 (3:2) (DSC-P30)</td>
<td>Printing in 3:2 ratio</td>
<td></td>
<td>STANDARD</td>
<td>FINE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 11</td>
<td>Approx. 6</td>
<td></td>
</tr>
<tr>
<td>1024×768</td>
<td>Viewing on web site</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 16</td>
<td>Approx. 10</td>
<td></td>
</tr>
<tr>
<td>640×480</td>
<td>Attaching to e-mail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approx. 57</td>
<td>Approx. 23</td>
<td></td>
</tr>
</tbody>
</table>

Moving images:

<table>
<thead>
<tr>
<th>Image size</th>
<th>Usage</th>
<th>Number of images or time</th>
</tr>
</thead>
<tbody>
<tr>
<td>320×240</td>
<td>Viewing on web site</td>
<td>Approx. 40 sec.</td>
</tr>
<tr>
<td>160×112</td>
<td>Attaching to e-mail</td>
<td>Approx. 160 sec.</td>
</tr>
<tr>
<td>MOBILE (80×72)</td>
<td>–</td>
<td>Approx. 200</td>
</tr>
<tr>
<td>NORMAL (160×120)***</td>
<td>–</td>
<td>Approx. 20</td>
</tr>
</tbody>
</table>

* When MODE (REC MODE) is set to NORMAL.
** The maximum recording time in continuous recording
*** When recording 10 frames per Clip Motion file.

Remaining number of recordable images or recordable time (page 85)
The actual number of remaining images or recordable time may differ depending on the recording conditions.
Various recording

Records images according to shooting conditions (TWILIGHT mode)

Mode dial: 

This camera has a preset TWILIGHT mode. This mode is suitable for the night scene.

1 Set the mode dial to 

Allows you to record bright subjects in dark places without losing the dark atmosphere of the surroundings. The shutter speed becomes slower, so we recommend that you use a tripod to prevent shaking.

2 Record the image.

To cancel the TWILIGHT mode

Set the mode dial to .

Notes

• Set the forced flash $ when you use the flash in the TWILIGHT mode.
• When using the TWILIGHT mode, the AF illuminator (page 25) emits when the flash mode is set to the $ forced flash mode.
• You cannot record moving images in the TWILIGHT mode.

Tips

Under normal recording conditions, the camera automatically makes various adjustments, such as those for the focus, iris, exposure, and white balance, as it shoots. However, you may not be able to carry out your desired shooting depending on shooting conditions. The TWILIGHT mode provides you with near-optimum adjustments to suit your shooting situation.
Recording still images for e-mail (E-MAIL)

Mode dial: 

In the E-MAIL mode, a small-size image which is suitable for e-mail transmission is also recorded at the same time as recording a normal still image. (The size of the normal still image is set using [ ] (IMAGE SIZE) in the menu settings (page 45).)

1 Set the mode dial to or .

2 Press MENU.
   The menu appears.

3 Select [MODE] (REC MODE) with ◀/▶, [E-MAIL] with ▲/▼.

4 Record the image.

The number of images that you can record on a “Memory Stick” (4 MB) in E-MAIL mode

<table>
<thead>
<tr>
<th>Image size</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STANDARD</td>
</tr>
<tr>
<td>1600×1200</td>
<td>Approx. 7</td>
</tr>
<tr>
<td>(DSC-P50)</td>
<td></td>
</tr>
<tr>
<td>1600 (3:2)</td>
<td>Approx. 7</td>
</tr>
<tr>
<td>(DSC-P50)</td>
<td></td>
</tr>
<tr>
<td>1280×960</td>
<td>Approx. 10</td>
</tr>
<tr>
<td>(DSC-P30)</td>
<td></td>
</tr>
<tr>
<td>1280 (3:2)</td>
<td>Approx. 10</td>
</tr>
<tr>
<td>(DSC-P30)</td>
<td></td>
</tr>
<tr>
<td>1024×768</td>
<td>Approx. 15</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>640×480</td>
<td>Approx. 46</td>
</tr>
</tbody>
</table>

Remaining number of recordable images (page 85)
The actual number of remaining images may differ depending on the recording conditions.

To return to normal recording mode
Select [NORMAL] with ▲/▼ in step 3.
Recording text documents (TEXT)

Mode dial: 

The TEXT mode is suitable for recording a document to emphasize its character by the black and white colors. The LCD screen also turns to black and white, and the image is recorded in the GIF format.

1 Set the mode dial to .
2 Press MENU. The menu appears.
3 Select [MODE] (REC MODE) with ←/→, [TEXT] with ▲/▼.
4 Record the image.

The number of images that you can record on a “Memory Stick” (4 MB) in TEXT mode*

<table>
<thead>
<tr>
<th>Image size</th>
<th>Number of images</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600×1200 (DSC-P50)</td>
<td>12–68</td>
</tr>
<tr>
<td>1600 (3:2) (DSC-P50)</td>
<td>13–68</td>
</tr>
<tr>
<td>1280×960 (DSC-P30)</td>
<td>18–79</td>
</tr>
<tr>
<td>1280 (3:2) (DSC-P30)</td>
<td>20–95</td>
</tr>
<tr>
<td>1024×768</td>
<td>26–95</td>
</tr>
<tr>
<td>640×480</td>
<td>59–158</td>
</tr>
</tbody>
</table>

* The maximum number of recordable images depends on the document condition, such as the amount of text portions.

To return to normal recording mode
Select [NORMAL] with ▲/▼ in step 3.

Notes
- If the subject is not evenly illuminated, you may be unable to record a clear image.
- Writing and reading data take more time than normal recording.
- When the mode dial is set to , images can be recorded, but the image may be bleached out or may be turned black.
- Remaining number of recordable images is not displayed.
- The number of recordable images is the same regardless of whether [ ] (P. QUALITY) is set to STANDARD or FINE.

Notes
- If the subject is not evenly illuminated, you may be unable to record a clear image.
- Writing and reading data take more time than normal recording.
- When the mode dial is set to , images can be recorded, but the image may be bleached out or may be turned black.
- Remaining number of recordable images is not displayed.
- The number of recordable images is the same regardless of whether [ ] (P. QUALITY) is set to STANDARD or FINE.

Various recording
Recording still images as uncompressed files (TIFF)

Mode dial:  

Records the images without compression, so the image does not deteriorate. Images recorded in this mode are suitable for printing with a high-quality image. The JPEG (compressed) format image is also recorded with the TIFF format image.

1 Set the mode dial to  or .

2 Press MENU. The menu appears.

3 Select [MODE] (REC MODE) with , [TIFF] with .

4 Record the image. The number of images that you can record on a “Memory Stick” (8 MB) in TIFF mode is approx. 1.

To return to normal recording mode Select [NORMAL] with in step 3.

Notes
• JPEG images are recorded in the image size selected by the [ ] (IMAGE SIZE) menu (page 45). TIFF images are recorded in [1600×1200] (DSC-P50) or [1280×960] (DSC-P30) size other than when [1600 (3:2)] (DSC-P50) or [1280 (3:2)] (DSC-P30) is selected.
• Writing data takes more time than in normal recording.
• The supplied “Memory Stick” (4 MB) does not have sufficient capacity to record uncompressed images.
Creating Clip Motion Files

Mode dial: SET UP

Clip Motion is an animation function that plays back still images in succession. The images are stored in GIF format, which is convenient for creating home pages or attaching images to an e-mail.

1 Set the mode dial to SET UP. The setup screen appears.
2 Select [CAMERA] with ▲/▼, [MOVING IMAGE] with ▶/▲/▼, [CLIP MOTION] with ▲/▼, then press ▼.
3 Set the mode dial to .
4 Press MENU. The menu appears.
5 Select [IMAGE SIZE] with ◀/▶, the desired mode with ▲/▼.

NORMAL (160×120)
Clip Motion of up to 10 frames can be recorded. This is suitable for use on home pages, etc.

MOBILE (80×72)
Clip Motion of up to 2 frames can be recorded. This is suitable for use with portable data terminals.

6 Record the image for the first frame.

Before carrying out step 8, the images are temporarily stored in memory. These images are not recorded on the “Memory Stick”, yet.

7 Record the image for the next frame.
Image recording can be repeated up to the maximum number of recordable frames.

8 Press ●.
All the frame images are recorded on the “Memory Stick”.

To delete some or all the frame images while making a Clip Motion recording

1 Press the control button ◀ (■) in step 6 or 7. The recorded frame images are played back in turn and stop at the last image.
2 Press MENU, and select [DELETE LAST] or [DELETE ALL], then press ●.
3 Select [OK], then press ●. When [DELETE LAST] is selected in step 2, each time you repeat steps ① through ③, the recorded frame is deleted from the newest one.
The number of Clip Motion frames that you can record on a “Memory Stick” (4 MB)

<table>
<thead>
<tr>
<th>Image size</th>
<th>Number of images</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL (160×120)</td>
<td>Approx. 20*</td>
</tr>
<tr>
<td>MOBILE (80×72)</td>
<td>Approx. 200</td>
</tr>
</tbody>
</table>

* When recording 10 frames per Clip Motion file

**Notes**
- You cannot change the image size partway through a Clip Motion recording.
- Reading and writing data take more time than normal image recording.
- Due to the limitations of the GIF format, the number of colors for Clip Motion images is reduced to 256 colors or less. Therefore, the picture quality may deteriorate for some images.
- The file size is reduced in MOBILE mode, so the picture quality deteriorates.
- GIF files not created on this camera may not be displayed correctly.
- All the frame images are immediately recorded on the “Memory Stick” if the mode dial is switched or the power is turned off.

---

**Setting the distance to the subject**

Mode dial: 📷 / ⏰/🕒

Normally the focus is automatically adjusted. This function is useful when the auto focus does not work well such as in dark places.

1 Set the mode dial to 📷, ⏰ or ⏰.

2 Press MENU. The menu appears.

3 Select [_FOCUS] (FOCUS) with ◀/▶, the desired distance setting with ▲/▼.
   You can select from the following 6 focus settings:
   AUTO, 0.5 m (1 3/4 feet), 1.0 m (3 1/4 feet), 3.0 m (9 3/4 feet),
   7.0 m (23 feet), ∞ (infinite).

   **To reactivate auto focusing**
   Select [AUTO] with ▲/▼ in step 3.

   **Notes**
   - Focal point information may not completely show the correct distance. Use the information as a guide.
   - If you shoot a subject within 0.5 m (1 3/4 feet) while the zoom is set to the T side, you cannot get a clear focus. In such cases, the focal point information flashes. Press the zoom W button until the indicator stops flashing.
Recording images in macro

Mode dial: [ ] / [ ] / [ ]

The macro recording is used when zooming up a little subject, such as flowers, insects.

1. Set the mode dial to [ ], [ ], or [ ].
2. Clear the menu, and press the control button ( ).

The (macro) indicator appears on the LCD screen.

You can record a subject as close as about 3 cm (1 3/16 inches) from the lens surface with the zoom set all the way to the W side, or about 80 cm (31 1/2 inches) with the zoom set all the way to the T side.

To return to normal recording mode

Press the control button ( ) again.

The ( ) indicator disappears.

Note

When recording images in macro, use the LCD screen. If you record using the finder, the range visible in the finder may differ from the actual recording range.

Adjusting the exposure (EXPOSURE)

Mode dial: [ ] / [ ] / [ ]

Adjusts the exposure value which is set in the automatic adjustment.

1. Set the mode dial to [ ], [ ], or [ ].
2. Press MENU.

The menu appears.
3. Select [ ] (EV) with / , the desired exposure value with / .

Adjust the exposure value while checking the brightness of the background.

You can select values ranging from +2.0 EV to –2.0 EV in steps of 1/3 EV.

Note

If a subject is under extremely bright or dark situations, or the flash is used, the exposure adjustment may not be effective.
**Tips**
Normally, the camera automatically adjusts the exposure. If the color of the image is too dark or bright as illustrated below, we recommend that you adjust the exposure manually. When recording a backlit subject or a subject in the snow, set it toward +, and when recording a dark subject with fully displayed on the LCD screen, set it toward –.

### Adjusting the white balance (WHITE BALANCE)

**Mode dial:** 📸 / ⏰ / ⏰

Normally, the white balance is automatically adjusted (AUTO). When you record with the shooting condition fixed or under the specific lighting condition, you can manually adjust the white balance.

1. **Set the mode dial to 📸, ⏰ or ⏰.**
2. **Press MENU.**
   The menu appears.
3. **Select [WB] (WHITE BAL) with ◀/▶, the desired setting with ▲/▼.**

**HOLD**
Recording a single-colored subject or background

**AUTO (No indicator)**
Adjusts the white balance automatically
Under fluorescent lighting

**IN DOOR (⦿)***
- Places where the lighting condition changes quickly
- Under bright lighting such as photography studios
- Under sodium or mercury lamps

**OUT DOOR (☀)**
Recording a sunrise/sunset, night scene, neon signs, or fireworks
To reevaluate auto adjustment
Select [AUTO] with ▲/▼ in step 3.

Tips
The image is susceptible to lighting conditions. The image looks blue under sunlight in the summer, and looks red under mercury lamps. Human eyes can resolve these problems. However, the camera cannot resolve the problem without making adjustments. Normally, the camera adjusts it automatically, but, if the image appears in strange colors, we recommend that you change the white balance mode.

Enjoying picture effects (P. EFFECT)

Mode dial: ◎ / ◆ / △
You can digitally process images to obtain special effect.

1 Set the mode dial to ◎, ◆ or △.
2 Press MENU.
The menu appears.
3 Select [PFX] (P. EFFECT) with ◀/▶, the desired mode with ▲/▼.

SOLARIZE
The light contrast is clearer and the picture looks like an illustration.

B&W
The picture is monochrome (black and white).

SEPIA
The picture is sepia-toned like an old photograph.

NEG.ART
The color and brightness of the picture are reversed as in a negative.

OFF
Does not use the picture effect function.

To cancel picture effect
Select [OFF] with ▲/▼ in step 3.
Recording the date and time on the still image (DATE/TIME)

Mode dial:  /  

1 Set the mode dial to SET UP.
The setup screen appears.

2 Select [ ] (CAMERA) with ▲/▼, [DATE/TIME] with ►/▲/▼, then press ►.

3 Select the date and time setting with ▲/▼, then press ◀.

   DAY & TIME
   Imposes the date, hour, and minute.

   DATE
   Imposes the year, month, and day.

   OFF
   Does not impose the date and time.

4 Set the mode dial to  or  .

5 Record the image.
The date and time do not appear on the LCD screen during shooting. These appear during playback only.

Notes
• If you select [DATE] in step 3, the date is imposed onto the image in the order selected with “Setting the date and time” (page 15).
• The date and time are not superimposed onto moving images or Clip Motion images.
Using the spot light-metering function

Mode dial:  

Use this function when there is backlight or when there is strong contrast between the subject and the background, etc. Position the point you want to record on the spot light-metering cross hair.

1 Set the mode dial to  or .

2 Press MENU. The menu appears.

3 Select [ ] (SPOT METER) with  or , [ON] with  .
Position the point you want to record at the spot light-metering cross hair.
Record the picture when the automatic adjustment has been completed.

To cancel the spot light-metering function
Select [OFF] with  in step 3.
Various playback

Playing back three or nine images at once

Mode dial: 

You can display multiple images on the LCD screen at one time using the zoom buttons.

1. Set the mode dial to ➤.
2. Press the zoom W button repeatedly.
   The LCD screen display changes as follows:
   - Single (single-image) screen
   - Index (nine-image) screen
   - Triple-image screen

The image indicated by the yellow frame in the index screen is displayed in the middle of the triple-image screen with the recording information. To display the other information, press the control button ▲/▼.

The following marks are displayed on each image according to the image type and settings.
- : Moving image file
- : E-mail file
- : Print mark
- : Protect mark
- TEXT: TEXT file
- TIFF: TIFF file
- CLIP: Clip Motion file
(No mark): Normal recording (no settings)

To display the next (previous) index screen
Press the control button ▲/▼/◄/►.

To return to normal playback (single-image)
- Press the zoom T button repeatedly.
- Press the control button ●.

Note
When viewing an image recorded in Clip Motion or TEXT mode on the index screen, the image may appear different from the actual image.

Tips
When the triple-image screen is displayed, pressing MENU opens the menu including [PRINT], [PROTECT], and [DELETE]. For details on these items, see pages 62, 63, or 66. To close the menu, press MENU again. The menu disappears and the recording information is indicated.
Enlarging a part of the still image (Zoom and trimming)

Mode dial: ►

1 Set the mode dial to ►.
2 Display the image to be enlarged.
3 Zoom in/out the image with the zoom T/W buttons.
4 Press the control button repeatedly to select the desired portion of the image.
   ▲: The image moves downward
   ▼: The image moves upward
   ◀: The image moves rightward
   ◁: The image moves leftward

To return to the normal size
Press the control button ●.

To record an enlarged image (trimming)
  ① Press MENU after zooming.
  ② Select [TRIMMING] with ►, then press ●.
  ③ Select the image size with ▲/▼, then press ●.

The image is recorded and the image on the LCD screen returns to the normal size after recording.

Notes
- You cannot zoom moving images.
- You can zoom images recorded in TEXT mode, but cannot trim them.
- Zoom scaling is up to 5× regardless of the original image size.
- The quality of enlarged images may be deteriorated.
- The original data is left even if you enlarge the image.
- The enlarged image is recorded as the newest file.
- If you trim an image, the remaining “Memory Stick” capacity will be decreased.
- If the remaining “Memory Stick” capacity is not sufficient, you may be unable to trim an image.
- You cannot trim to an image of 3:2.
- You cannot trim uncompressed (TIFF) images.

Notes
- You cannot zoom moving images.
- You can zoom images recorded in TEXT mode, but cannot trim them.
- Zoom scaling is up to 5× regardless of the original image size.
- The quality of enlarged images may be deteriorated.
- The original data is left even if you enlarge the image.
- The enlarged image is recorded as the newest file.
- If you trim an image, the remaining “Memory Stick” capacity will be decreased.
- If the remaining “Memory Stick” capacity is not sufficient, you may be unable to trim an image.
- You cannot trim to an image of 3:2.
- You cannot trim uncompressed (TIFF) images.
Playing back the still images in order (SLIDE)

Mode dial: 

This function is useful for checking the recorded images or for presentations, etc.

1 Set the mode dial to .

2 Press MENU.
   The menu appears.

3 Select [SLIDE] with ←/→, then press .
   Set the following items.

   INTERVAL
   You can select from 1 min (one minute), 30 sec (30 seconds),
   10 sec (10 seconds), 5 sec (5 seconds), or 3 sec (3 seconds).

   REPEAT
   ON: Plays back images in a continuous loop.
   OFF: After all images have been played back, the slide show ends.

4 Select [START] with ▲/▼/◄/→, then press .
   The slide show begins.

To stop the SLIDE SHOW playback
Press ◆, select [EXIT] with ►, then press ◆.

To skip to the next/previous image during the SLIDE SHOW
Select ► (next) or ◄ (previous).

Note
The interval setting time may vary depending on the image size.

To cancel the SLIDE SHOW setting
Select [CANCEL] with ▲/▼/◄/→ in step 3, then press ◆.
Rotating a still image (ROTATE)

Mode dial:  

You can rotate the image recorded in portrait orientation and display it in landscape orientation.

1 Set the mode dial to , and display the image to rotate.
2 Press MENU. The menu appears.
3 Select [ROTATE] with  or , then press .
4 Select [ , , ] with  or , then rotate the image with  or . Select [OK] with  or , then press .

To cancel rotation
Select [CANCEL] with  or  in step 4, then press .

Notes
- You cannot rotate protected or uncompressed images, or images recorded in TEXT mode.
- You may not be able to rotate images recorded with other equipment.
- Also, when viewing images on a computer, the image rotation information may not be reflected depending on the application software.

Viewing images on a TV screen

Mode dial:  

Before connecting your camera, be sure to turn off the TV.

1 Connect the VIDEO connecting cable to the VIDEO OUT jack of your camera and to the video input jacks of the TV.
2 Turn on the TV and start playback on your camera. The playback image appears on the TV screen.

Notes
- You cannot use a TV that has an antenna (aerial) connector only.
- When viewing a still image on the TV, the black band may appear around the image.
Editing

Deleting images (DELETE)

Mode dial: 

You can delete unwanted files.

In single-image or triple-image mode

1 Set the mode dial to .
2 In single-image mode:
   Display the image you want to delete with .
In triple-image mode:
   Press the zoom W button twice in the single-image mode to turn to the triple-image mode. Display the image you want to delete with .
3 Press MENU.
   The menu appears.
4 Select [DELETE] with , then press .
5 Select [OK] with , then press .
   The image (or the middle-positioned image in triple-image mode) is deleted.

In index mode

1 Set the mode dial to , then display the index screen with the zoom W button.
2 Press MENU.
   The menu appears.
3 Select [DELETE] with , then press .
4 Select [ALL] or [SELECT] with , then press .
5 When you select [ALL]
   Select [ENTER] with , then press .
   All the unprotected images are deleted.
When you select [SELECT]
   The frame of the selected image turns green.
   ① Select the images to be deleted with the control button, then press .
      To cancel, press again.
      Repeat this step to select other images.
      The (delete) indicator appears on the selected images.
   ② Press MENU.
   ③ Select [OK] with , then press .
To cancel deleting
Select [CANCEL] with ◄/► in step 4 or [EXIT] with ◄/► in step 5, then press ●.

Note
If there are files on the “Memory Stick” with names having the same last 4 digits as the file name of the image to be deleted, these files are also deleted at the same time.

Preventing accidental erasure (PROTECT)
Mode dial: ▶
Protects images against accidental erasure.

In single-image or triple-image mode

1 Set the mode dial to ▶.
2 In single-image mode
Display the image you want to protect with ◄/►.

In triple-image mode
Press the zoom W button twice in the single-image mode to turn to the triple-image mode.
Display the image you want to protect with ◄/►.

3 Press MENU.
The menu appears.

4 Select [PROTECT] with ◄/► in single-image mode, or with ▲/▼ in triple-image mode, then press ●.
The displayed image (or the middle-positioned image in triple-image mode) is protected.
The ○⇒ indicator appears on the image.

To release protection
Press ● again in step 4. ○⇒ indicator disappears.
1 Set the mode dial to \( \rightarrow \), then display the index screen with the zoom W button.

2 Press MENU. The menu appears.

3 Select [PROTECT] with \( \downarrow/\uparrow \), then press \( \bullet \).

4 Select [ALL] or [SELECT] with \( \downarrow/\uparrow \), then press \( \bullet \).

5 When you select [ALL]
Select [ON] with \( \downarrow/\uparrow \), then press \( \bullet \).
All the images in the “Memory Stick” are protected.

When you select [SELECT]
The frame of the selected image turns green.
① Select the images to be protected with the control button, then press \( \bullet \).
   To cancel, press \( \bullet \) again.
   Repeat this step to select other images.
   The \( \bullet \) indicator appears on the selected images.

3 Select [OK] with \( \downarrow/\uparrow \), then press \( \bullet \).

To release protection
If you selected [ALL] in step 4, select [OFF] with \( \downarrow/\uparrow \), then press \( \bullet \). If you selected [SELECT] in step 4, select the images to be unprotected with \( \uparrow/\downarrow/\leftarrow/\rightarrow \), then press \( \bullet \). Repeat this step to select other images. When you have selected all the images to be unprotected, press MENU and select [OK] with \( \downarrow/\uparrow \), then press \( \bullet \).

To cancel protection
Select [CANCEL] with \( \downarrow/\uparrow \) in step 4 or [EXIT] with \( \downarrow/\uparrow \) in step 5, then press \( \bullet \).

② Press MENU.
Changing the recorded still image size (RESIZE)

Mode dial: 

You can change the image size of the recorded image.

1 Set the mode dial to , then display the image of which you want to change the size.

2 Press MENU.
   The menu appears.

3 Select [RESIZE] with / , then press .

4 Select the desired size with / , then press .
   DSC-P50:
   1600×1200, 1024×768, 640×480
   DSC-P30:
   1280×960, 1024×768, 640×480
   The resized image is recorded.

To cancel changing the size
Select [CANCEL] with / in step 4, then press .

Notes
• The original image is retained even after resizing.
• You cannot change the size of images recorded in TEXT mode, moving images, uncompressed images, or Clip Motion images.
• The resized image is recorded as the newest file.
• If you resize an image, the remaining “Memory Stick” capacity will be decreased.
• When you change from a small size to a large size, the picture quality deteriorates.
• If the remaining “Memory Stick” capacity is not sufficient, you may not be able to resize an image.
• You cannot resize to an image of 3:2.
• When you resize a 3:2 image, the upper and lower black portions are displayed on the LCD screen.

Notes
• The original image is retained even after resizing.
• You cannot change the size of images recorded in TEXT mode, moving images, uncompressed images, or Clip Motion images.
• The resized image is recorded as the newest file.
• If you resize an image, the remaining “Memory Stick” capacity will be decreased.
• When you change from a small size to a large size, the picture quality deteriorates.
• If the remaining “Memory Stick” capacity is not sufficient, you may not be able to resize an image.
• You cannot resize to an image of 3:2.
• When you resize a 3:2 image, the upper and lower black portions are displayed on the LCD screen.
Selecting still images to print (PRINT)

Mode dial: 

You can mark a print mark on still images recorded with your camera. This mark is convenient when you have images printed at a shop that conforms with the DPOF (Digital Print Order Format) standard.

In single-image or triple-image mode

1. Set the mode dial to .
2. In single-image mode
   Display the image you want to print with \[\text{b/V}\].

   In triple-image mode
   Press the zoom W button twice in the single-image mode to turn to the triple-image mode.
   Display the image you want to print with \[\text{b/V}\].

3. Press MENU.
   The menu appears.
4. Select [PRINT] with \[\text{b/V}\], then press \[\text{z}\].
   The (print) mark is marked on the displayed image (or the middle-positioned image in triple-image mode).

To unmark the print mark
Press \[\text{z}\] again in step 4. (mark) mark disappears.

In index mode

1. Set the mode dial to , then display the index screen with the zoom W button.
2. Press MENU.
   The menu appears.
3. Select [PRINT] with \[\text{b/V}\], then press \[\text{z}\].
4. Select [SELECT] with \[\text{b/V}\], then press \[\text{z}\].
   When marking the (mark), you cannot select [ALL].
   The frame of the selected image turns green.
5. Select the images to be marked with the control button, then press \[\text{z}\].
   To cancel, press \[\text{z}\] again.
   Repeat this step to select other images. The (mark) mark appears on the selected image.

6. Press MENU.
   The menu appears.
7. Select [OK] with \[\text{b/V}\], then press \[\text{z}\].
To unmark selected print marks
Select the images to be unmarked in step 5 with the control button, then press ●.

To unmark all the print marks
Select [ALL] with ◄/► in step 4, then press ●. Select [OFF] with ◄/►, then press ●.
The ◄ marks on all images are unmarked.

To cancel marking the print mark
Select [CANCEL] with ◄/► in step 4 or select [EXIT] with ◄/► in step 7, then press ●.

Notes
• You cannot mark moving images, Clip Motion images or images recorded in TEXT mode.
• If you mark an image recorded in TIFF mode with a print mark, only the uncompressed image is printed, and the JPEG image recorded at the same time is not printed.
• In E-mail mode, a print mark is marked on the normal size image that is recorded at the same time.

Dividing a moving image file (DIVIDE)
Mode dial: ▶

You can divide moving images recorded in MPEG MOVIE mode. This is convenient when there is not enough space on a “Memory Stick” or when attaching moving images to e-mails.

1 Set the mode dial to ▶ and display the moving image you want to divide.

2 Press MENU.
The menu appears.

3 Select [DIVIDE] with ◄/►, then press ●, select [OK] with ▲/▼, then press ●.

4 Play the moving image.
If you press ● at the divide point, [◄II, II►] (frame forward, frame reverse), [OK], [CANCEL] and [EXIT] appear on the screen. If you select [◄II, II►] with ▲/▼, you can finely adjust the divide location using ◄/►.
If you select [CANCEL], moving image playback restarts and you can reselect the divide location.

5 When you have decided the divide point, select [OK] with ▲/▼ then press ●.

6 [OK], [CANCEL] and [EXIT] appear on the screen. Select [OK] with ▲/▼, then press ●.
The moving image file is divided.
You cannot divide the following types of files:
• Clip Motion files
• Still image files
• Moving image files that are too short to divide

The file number changes as follows when you divide a file.
<eg.> If you divide the MOV00003.mpg file, the divided file numbers become MOV00004.mpg and MOV00005.mpg, and MOV00003.mpg is skipped. The divided files are saved as the latest files.

To cancel file division
Press [EXIT]. The image playback screen appears.

To delete unwanted portions
1 Display the portion of the moving image you want to delete and press MENU.
2 Select [DELETE] with ▲/▼, then press ●.
3 Select [OK] with ▲/▼, then press ●.

Notes
• You cannot divide Clip Motion files.
• You cannot recombine divided files.
• The original undivided file is not saved.
Changing the setup settings (SETUP)

Set the mode dial to SET UP. The setup screen appears. You can set up the following items with the control button. Factory settings are indicated with ■.

### CAMERA

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOVING IMAGE</td>
<td>MPEG MOVIE</td>
<td>Records the MPEG movie (pages 26, 51).</td>
</tr>
<tr>
<td></td>
<td>CLIP MOTION</td>
<td>Records the Clip Motion.</td>
</tr>
<tr>
<td>DATE/TIME</td>
<td>DAY &amp; TIME</td>
<td>Sets whether to insert the date and time into the image (page 56).</td>
</tr>
<tr>
<td></td>
<td>DATE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ OFF</td>
<td></td>
</tr>
<tr>
<td>DIGITAL ZOOM</td>
<td>■ ON</td>
<td>Uses digital zoom (page 23).</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Does not use digital zoom.</td>
</tr>
<tr>
<td>RED EYE REDUCTION</td>
<td>■ ON</td>
<td>Reduces the red-eye phenomenon (page 24).</td>
</tr>
<tr>
<td></td>
<td>■ OFF</td>
<td></td>
</tr>
<tr>
<td>AF ILLUMINATOR</td>
<td>■ ON</td>
<td>Uses when it is hard to focus on the subject under dark situations (page 25).</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td></td>
</tr>
</tbody>
</table>

### SETUP 1

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORMAT</td>
<td>OK</td>
<td>Formats a “Memory Stick”. Note that formatting erases all the information recorded on a “Memory Stick”, including even erasure protected images (page 83).</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td>Cancels formatting of a “Memory Stick”.</td>
</tr>
<tr>
<td>FILE NUMBER</td>
<td>■ SERIES</td>
<td>Assigns numbers to files in sequence even if the “Memory Stick” is changed.</td>
</tr>
<tr>
<td></td>
<td>RESET</td>
<td>Resets the file numbering each time the “Memory Stick” is changed.</td>
</tr>
<tr>
<td>言語/LANGUAGE</td>
<td>■ ENGLISH</td>
<td>Displays the menu items in English.</td>
</tr>
<tr>
<td></td>
<td>日本語/JPN</td>
<td>Displays the menu items in Japanese.</td>
</tr>
<tr>
<td>CLOCK SET</td>
<td>OK</td>
<td>Sets the date and time (Perform the procedure from step 3 on page 15).</td>
</tr>
<tr>
<td></td>
<td>CANCEL</td>
<td></td>
</tr>
</tbody>
</table>
### SETUP 2

<table>
<thead>
<tr>
<th>Item</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD BRIGHTNESS</td>
<td>BRIGHT</td>
<td>Selects the LCD brightness. This has no effect on the recorded images.</td>
</tr>
<tr>
<td></td>
<td>■NORMAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>■DARK</td>
<td></td>
</tr>
<tr>
<td>LCD BACKLIGHT</td>
<td>BRIGHT</td>
<td>Displayed only when using your camera with the battery pack: Selects the brightness of the LCD backlight. Lets you set the brightness of the LCD backlight to [BRIGHT] or [NORMAL]. Selecting [BRIGHT] makes the screen bright and easy to see when using the camera outdoors or in other bright locations, but also uses up the battery charge faster.</td>
</tr>
<tr>
<td></td>
<td>■NORMAL</td>
<td></td>
</tr>
<tr>
<td>BEEP</td>
<td>SHUTTER</td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ON</td>
<td>Turns on the beep/shutter sound (when you press the control button/shutter button).</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Turns off the beep/shutter sound.</td>
</tr>
<tr>
<td>VIDEO OUT</td>
<td>NTSC</td>
<td>Sets the video output signal to NTSC mode (e.g., Japan, the USA) (page 74).</td>
</tr>
<tr>
<td></td>
<td>PAL</td>
<td>Sets the video output signal to PAL mode (e.g., Europe) (page 74).</td>
</tr>
<tr>
<td>USB CONNECT</td>
<td>PTP</td>
<td>Switches the USB mode (page 30).</td>
</tr>
<tr>
<td></td>
<td>■NORMAL</td>
<td></td>
</tr>
<tr>
<td>POWER SAVE</td>
<td>■ON</td>
<td>Set to ON to extend the battery life when operating the camera with batteries.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>When POWER SAVE is set to ON, the time from when you press the shutter button until the image is recorded is longer than normal (pages 11, 88). The LCD screen turns off while the flash is charging.</td>
</tr>
<tr>
<td>DEMO</td>
<td>■ON/STBY</td>
<td>Displayed only when you use your camera with the AC power adaptor. [DEMO] is set to [STBY] at the factory and the demonstration starts about 10 minutes after you have set the mode dial to 📽 or 📷. To cancel the demonstration, turn off the power.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td></td>
</tr>
</tbody>
</table>

**Notes on [DATE/TIME]**

- The date and time do not appear on the LCD screen during shooting. These appear during playback.
- The date and time are not superimposed onto moving images and Clip Motion images.
Precautions

On cleaning

Cleaning the LCD screen
Wipe the screen surface with a cleaning cloth (not supplied) or a LCD cleaning kit (not supplied) to remove fingerprints, dust, etc.

Cleaning the camera surface
Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface dry. Do not use any type of solvent such as thinner, alcohol or benzine as this may damage the finish or the casing.

After using your camera at the seashore or other dusty locations
Clean your camera carefully. Otherwise, the salty air may corrode the metal fittings or dust may enter the inside of your camera, causing a malfunction.

Note on operating temperature

Your camera is designed for use between the temperatures of 0°C and 40°C (32°F and 104°F). Recording in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

If the camera is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense inside or outside the camera. Should this occur, the camera will not operate properly.

Moisture condensation occurs easily when:
• The camera is brought from a cold location such as a ski slope into a warmly heated room.
• The camera is taken from an air-conditioned room or car interior to the hot outdoors, etc.

How to prevent moisture condensation

When bringing the camera from a cold place to a warm place, seal the camera in a plastic bag and allow it to adapt to conditions at the new location over a period of time (about an hour).

If moisture condensation occurs

Turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to record with moisture remaining inside the lens, you will be unable to record clear images.

On AC power adaptor (not supplied)

• Unplug the unit from the wall outlet (mains) when you are not using the unit for a long time.
• To disconnect the power cord (mains lead), pull it out by the plug. Never pull the power cord (mains lead) itself.
• Do not operate the unit with a damaged cord (mains lead) or if the unit has been dropped or damaged.
• Do not bend the power cord (mains lead) forcibly, or place a heavy object on it. This will damage the cord (mains lead) and may cause fire or electrical shock.
• Prevent metallic objects from coming into contact with the metal parts of the connecting section. If this happens, a short may occur and the unit may be damaged.
• Always keep metal contacts clean.
• Do not disassemble the unit.
• Do not apply mechanical shock or drop the unit.
• While the unit is in use, particularly during charging, keep it away from AM receivers and video equipment. AM reception and video operation are disturbed.
• The unit becomes warm during use. This is not a malfunction.
• Do not place the unit in locations that are:
  — Extremely hot or cold
  — Dusty or dirty
  — Very humid
  — Vibrating

Note on AC power adaptor (not supplied)
On battery pack (not supplied)

- Use only the specified charger with the charging function.
- To prevent accident from a short circuit, do not allow metal objects to come into contact with the battery terminals.
- Keep the battery pack away from fire.
- Never expose the battery pack to temperatures above 60°C (140°F), such as in a car parked in the sun or under direct sunlight.
- Keep the battery pack dry.
- Do not expose the battery pack to any mechanical shock.
- Do not disassemble nor modify the battery pack.
- Install the battery pack to the camera securely.
- Charging while some capacity remains does not affect the original battery capacity.

If any problem occurs, unplug your camera and contact your nearest Sony dealer.

On internal rechargeable button battery

This camera has an internal rechargeable button battery for maintaining the date and time and other settings regardless of whether the power is on or off. This rechargeable button battery is constantly charged as long as you are using the camera. However, if you use the camera for only short periods it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable button battery before using the camera. However, even if this rechargeable button battery is not charged, you can still use the camera as long as you do not record the date and time.

Charging method

Connect the camera to a wall outlet (mains) with the AC power adaptor (not supplied), or install a charged battery pack or new alkaline batteries, and leave the camera for 24 hours or more with the POWER button set to OFF.

On “Memory Sticks”

“Memory Stick” is a new compact, portable and versatile IC recording medium with a data capacity that exceeds a floppy disk. “Memory Stick” is specially designed for exchanging and sharing digital data among “Memory Stick” compatible products. Because it is removable, “Memory Stick” can also be used for external data storage.

There are two types of “Memory Sticks”: general “Memory Sticks” and “MagicGate Memory Sticks” that are equipped with the MagicGate* copyright protection technology.

You can use both types of “Memory Stick” with your camera. However, because your camera does not support the MagicGate standards, data recorded with your camera is not subject to MagicGate copyright protection.

* MagicGate is copyright protection technology that uses encryption technology.

Notes

- Do not remove the “Memory Stick” while reading or writing data.
- Data may be damaged if:
  — you remove the “Memory Stick” or turn off your camera while reading or writing data.
  — you use the “Memory Stick” in a location subject to the effects of static electricity or noise.
- Do not attach any other material than the supplied label on the labeling position.
- Attach the label so that it does not stick out from the proper attachment location.
- When you carry or store the “Memory Stick,” put it in its supplied case.
- Do not touch the terminals of a “Memory Stick” with your hand or a metal object.
- Do not strike, bend or drop the “Memory Stick.”
- Do not disassemble or modify the “Memory Stick.”
- Do not allow the “Memory Stick” to get wet.
About “InfoLITHIUM” battery pack (not supplied)

What is the “InfoLITHIUM” battery pack?
The “InfoLITHIUM” battery pack (not supplied) is a lithium-ion battery pack that has functions for communicating information related to operating conditions between your camera and the AC power adaptor (not supplied). The “InfoLITHIUM” battery pack calculates the power consumption according to the operating conditions of your camera, and displays the remaining battery time in minutes.

Charging the battery pack
- Be sure to charge the battery pack before you start using your camera.
- We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F) until the $/CHG lamp goes out, indicating that the battery pack is fully charged. If you charge the battery pack outside of this temperature range, you may not be able to efficiently charge the battery pack.
- After charging is completed, disconnect the AC power adaptor from the DC IN jack on your camera or remove the battery pack.

Effective use of the battery pack
- Battery performance decreases in low-temperature surroundings. So, the time that the battery pack can be used is shorter in cold places. We recommend the following to use the battery pack longer:
  - Put the battery pack in a pocket close to your body to warm it up, and insert it in your camera immediately before you start taking shots.
- Frequently using the LCD panel or frequently operating the zoom wears out the battery pack faster.
- Be certain to turn the POWER to off when not taking shots or playing back on your camera.
- We recommend having spare batteries handy for two or three times the expected shooting time, and make a trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.

Remaining battery time indicator
- If the power goes off although the battery remaining indicator indicates that the battery pack has enough power to operate, charge the battery pack fully again so that the indication on the battery remaining indicator is correct. Note, however, that the correct battery indication sometimes will not be restored if it is used in high temperatures for a long time or left in a fully charged state, or the battery pack is frequently used. Regard the remaining battery time indication as the approximate shooting time.

How to store the battery pack
- If the battery pack will not be used for a long time, use up the battery pack after fully charging it once per year. Remove the battery pack from your camera, then store it in a dry, cool place. This is to maintain the battery pack’s functions.
- To use the battery pack up on your camera, leave the POWER to on in slide show playback mode until the power goes off.

Battery life
- The battery life is limited. Battery capacity decreases little by little as you use it more and more, and as time passes. When the battery operating time is shortened considerably, a probable cause is that the battery pack has reached the end of its life. Please buy a new battery pack.
- The battery life varies according to how it is stored and operating conditions and environment for each battery pack.
Using your camera abroad

Power sources
You can use your camera in any country or area with the battery charger (not supplied) within 100 V to 240 V AC, 50/60 Hz. Use a commercially available AC plug adaptor [a], if necessary, depending on the design of the wall outlet (mains) [b].

Watching the playback picture on TV
If you want to view the playback picture on a TV, you need a TV having a video input jack and a video connecting cable.
The color system of the TV must be the same as that of your digital still camera. Check the following list:

NTSC system
Bahama Islands, Bolivia, Canada, Central America, Chile, Columbia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

PAL system
Australia, Austria, Belgium, China, Denmark, Finland, Germany, Great Britain, Holland, Hong Kong, Italy, Kuwait, Malaysia, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, Thailand, etc.

PAL-M system
Brazil

PAL-N system
Argentina, Paraguay, Uruguay

SECAM system
Bulgaria, Czech Republic, France, Guiana, Hungary, Iran, Iraq, Monaco, Poland, Russia, Slovak Republic, Ukraine, etc.
## Troubleshooting

If you experience trouble with your camera, first check the following items. Should your camera still not operate properly after you have made these checks, press the reset button located on the bottom. (If you press the reset button, the date and time setting is cleared.) Should your camera still not operate properly, consult your Sony dealer or local authorized Sony service facility. **If code displays (C:□□:□□) appear on the LCD screen, the self-diagnosis display function is working (page 83).**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause and/or Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power is not turned on if you press the POWER button.</td>
<td>→ Press and hold down the POWER button for approximately one second.</td>
</tr>
</tbody>
</table>
| Your camera does not work. | • The battery level is low (the ** indicator appears on the LCD screen).  
  → Replace the alkaline batteries or charge the battery pack (pages 10, 12).  
• The AC power adaptor is not connected securely.  
  → Connect it firmly to the DC IN jack of your camera and a wall outlet (mains) (pages 12, 14).  
• The built-in microcomputer is not working properly.  
  → Disconnect and then reconnect all power sources after one minute. Then turn the power on and check that the camera works properly. Press the reset button located on the bottom using a sharp-pointed object. |
| Your camera cannot record images. | • You cannot record images while charging the flash.  
  • The mode dial is set to ** or SET UP.  
  → Set it to **, ** or ** (pages 19, 26).  
• No “Memory Stick” has been inserted into your camera.  
  → Insert a “Memory Stick” (page 17).  
• The write-protect tab on the “Memory Stick” is set to LOCK.  
  → Set it to the recording position. |
| The LCD screen does not light when the power is turned on. | • The power was turned off with the LCD screen set to OFF the last time the camera was used.  
  → The camera retains the settings from the last time it was used. If you turn the power off with the LCD screen set to OFF, the LCD is still set to OFF the next time you turn the power on. |
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause and/or Solution</th>
</tr>
</thead>
</table>
| The picture is out of focus.                     | • Your camera is not in macro recording mode when you shoot a subject that is about 3 to 25 cm (1 3/16 to 9 27/32 inches) from the lens.  
   → Set the macro recording mode (page 53).  
   • The focus preset is selected.  
   → Cancel the function (page 52).                                                      |
| The resizing function does not work.             | • You cannot resize moving images, text images, Clip Motion and uncompressed images.                                                                |
| Images recorded in TEXT mode are blurry.         | • Light is not striking the subject evenly.  
   → Adjust so that the lighting strikes the subject evenly.                               |
| You cannot record images in TEXT mode.           | • The mode dial is set to ➤.  
   → Set the mode dial to ◆.                                                                |
| You cannot display a print mark.                 | • You cannot display print marks on moving images, text images and Clip Motion images.                                                              |
| The picture is noisy.                            | • Your camera is placed near a TV or other equipment that uses strong magnets.  
   → Move your camera away from the TV, etc.                                               |
| The picture is too dark.                         | • You are shooting a subject with a light source behind the subject.  
   → Adjust the exposure (page 53).  
   • The brightness of the LCD screen is too low.  
   → Adjust the brightness of the LCD screen (page 70).                                      |
| The flash does not work.                         | • The flash is set to ☼.  
   → Set the flash to auto (no indicator) or ☼ (page 24).  
   • The mode dial is set to ☼.  
   → Set the flash to ☼.  
   • The mode dial is set to ➤, SETUP or ☼ (MPEG MOVIE).  
   → Set it to ◆.                                                                              |
| The date and time are recorded incorrectly.      | • The date and time are not set correctly.  
   → Set the correct date and time (page 15).                                               |
| Vertical streaks appear when you are shooting a very bright subject. | • The smear phenomenon is happening.  
   → This is not a malfunction.                                                               |
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause and/or Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The battery life is short.</td>
<td>• You are recording/playing back images under extremely cold temperatures.</td>
</tr>
<tr>
<td></td>
<td>• The battery pack is not charged enough.</td>
</tr>
<tr>
<td></td>
<td>→ Charge the battery pack fully.</td>
</tr>
<tr>
<td></td>
<td>• Alkaline batteries or the battery pack is dead.</td>
</tr>
<tr>
<td></td>
<td>→ Replace the battery (page 10).</td>
</tr>
<tr>
<td></td>
<td>• You are not using the recommended batteries.</td>
</tr>
<tr>
<td></td>
<td>→ Use the recommended batteries (pages 10, 88).</td>
</tr>
<tr>
<td>The battery remaining indicator is incorrect.</td>
<td>• You have used the camera for a long time in an extremely hot or an extremely cold location.</td>
</tr>
<tr>
<td>Or sufficient battery remaining indicator is displayed but the power</td>
<td>• The battery pack is dead.</td>
</tr>
<tr>
<td>runs out soon. (when using the “InfoLITHIUM” battery pack)</td>
<td>→ Replace the battery pack with a new one (page 73).</td>
</tr>
<tr>
<td></td>
<td>• The battery pack is discharged.</td>
</tr>
<tr>
<td></td>
<td>→ Install a charged battery pack (pages 10, 12).</td>
</tr>
<tr>
<td></td>
<td>• A deviation has occurred in the remaining battery time.</td>
</tr>
<tr>
<td></td>
<td>→ Fully charge the battery pack (page 12).</td>
</tr>
<tr>
<td>You cannot charge the battery pack.</td>
<td>• The camera is turned on.</td>
</tr>
<tr>
<td></td>
<td>→ Turn the camera off (page 12).</td>
</tr>
<tr>
<td>The /CHG lamp flashes during charging the battery pack.</td>
<td>• The battery pack is not installed correctly.</td>
</tr>
<tr>
<td></td>
<td>→ Install the battery pack correctly (page 10).</td>
</tr>
<tr>
<td></td>
<td>• The battery pack has malfunctioned.</td>
</tr>
<tr>
<td></td>
<td>→ Contact your Sony dealer or local authorized Sony service facility.</td>
</tr>
<tr>
<td>Digital zoom does not function.</td>
<td>• The digital zoom cannot be used when recording a moving image with [MOVING IMAGE] set to [MPEG MOVIE], or the LCD screen is OFF.</td>
</tr>
<tr>
<td></td>
<td>• [DIGITAL ZOOM] is set to [OFF].</td>
</tr>
<tr>
<td></td>
<td>→ Set [DIGITAL ZOOM] to [ON] in the menu settings.</td>
</tr>
<tr>
<td>Your camera cannot play back images.</td>
<td>• The mode dial is set to , , or SET UP.</td>
</tr>
<tr>
<td></td>
<td>→ Set it to (pages 28, 29).</td>
</tr>
<tr>
<td>The image is interfered by noise when you play back an image on a</td>
<td>• You are playing back the file directly from the “Memory Stick.”</td>
</tr>
<tr>
<td>personal computer.</td>
<td>→ Copy the file to the hard disk of the personal computer and then play back the file from the hard disk (page 35).</td>
</tr>
<tr>
<td>The image cannot be played back on a personal computer.</td>
<td>→ Consult the personal computer or software manufacturer.</td>
</tr>
<tr>
<td>Symptom</td>
<td>Cause and/or Solution</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Your camera cannot delete an image.</td>
<td>• The image is protected.</td>
</tr>
<tr>
<td></td>
<td>→ Cancel the protection (page 63).</td>
</tr>
<tr>
<td>The power turns off suddenly.</td>
<td>• If you do not operate the camera for about three minutes while the power is on, the camera turns off automatically to prevent wearing down the battery (page 11).</td>
</tr>
<tr>
<td></td>
<td>→ The auto-power off function (page 11) is activated. Turn on the camera.</td>
</tr>
<tr>
<td></td>
<td>• The battery is discharged.</td>
</tr>
<tr>
<td></td>
<td>→ Replace it with a charged battery or new alkaline batteries.</td>
</tr>
<tr>
<td>The image does not appear on the TV screen.</td>
<td>• The video output signal setting of your camera is incorrect.</td>
</tr>
<tr>
<td></td>
<td>→ Change the setting (page 70).</td>
</tr>
<tr>
<td>A file error occurs when you play back a file.</td>
<td>• The image size is larger than 1600×1200 (DSC-P50) or 1280×960 (DSC-P30).</td>
</tr>
<tr>
<td>The picture is monochrome (black and white).</td>
<td>• The camera is set to TEXT mode.</td>
</tr>
<tr>
<td></td>
<td>→ Cancel TEXT mode (page 49).</td>
</tr>
<tr>
<td></td>
<td>• P. EFFECT is set to B&amp;W mode.</td>
</tr>
<tr>
<td></td>
<td>→ Cancel B&amp;W mode (page 55).</td>
</tr>
<tr>
<td>Symptom</td>
<td>Cause and/or Solution</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>
| Your personal computer does not recognize your camera. | • The battery level is low.  
  → Use the AC power adaptor (not supplied) (page 14).  
• The camera is turned off.  
  → Turn on the camera.  
• The USB cable is not connected firmly.  
  → Disconnect the USB cable, and connect it again firmly. Make sure that “USB MODE” is displayed on the LCD screen (pages 32, 34).  
• The USB connectors on your personal computer are connected to other equipment besides the keyboard, the mouse, and your camera.  
  → Disconnect the USB cables except for the ones connected to the keyboard, the mouse, and your camera.  
• The USB driver is not installed.  
  → Install the USB driver (page 32).  
• [USB CONNECT] is set to [PTP] in the setup settings.  
  → Set it to [NORMAL] (page 70).  
• Since the camera is connected to a computer with the USB cable before installing the USB driver, the drive is not recognized by the computer.  
  → Delete the drive which is not recognized, then install the USB driver. For details, see the procedure on page 80. |
| No function works though the power is on. | → Remove the battery pack, then install it again after about one minute. If the function still do not work, press the reset button located on the bottom using a sharp-pointed object. (If you press the reset button, the date and time setting is cleared.) |
Reinstall the USB driver when using Windows 98, Windows 98SE, Windows Me and Windows 2000 Professional
Perform all steps without skipping.

1 Turn on your computer and allow Windows to load.

2 Connect the USB jack on the camera and the computer with the supplied USB cable.

3 Insert a “Memory Stick”.

4 Connect the AC power adaptor to your camera and then to a wall outlet (mains), and turn on the power of your camera.

5 Open “Device Manager” on Windows.
   For Windows 98, Windows 98SE and Windows Me users:
   ① Open [Control Panel] from [ My Computer], then double-click [System].
   ② “System properties” is displayed. Click the [Device Manager] tab located at the top.
   ③ Click [Sony DSC] in [Other devices], then click the [Delete (E)] button located at the lower-right corner.

   For Windows 2000 Professional users:
   * Log in with the permission of administrator.
   ① Open [Control Panel] from [ My Computer], then double-click [System].
   ② “System properties” is displayed. Click the [Hardware] tab located at the top, then click the [Device Manager (D)] button.
   ③ Click [View] in [Device Manager], then click [Devices by type (E)].
   ④ Right-click [Sony DSC] in [Other devices], then click [Delete (E)].

6 After the message appears to verify that you delete the device, click “OK.”

7 Turn off the camera, disconnect the USB cable, and restart the computer.

8 Install the USB driver in the supplied CD-ROM to the computer following the procedure on page 32.
### Warning and notice messages

Various messages appear on the LCD screen. Check the corresponding descriptions in the following list.

<table>
<thead>
<tr>
<th>Message</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO MEMORY STICK</td>
<td>No “Memory Stick” has been inserted.</td>
</tr>
<tr>
<td>SYSTEM ERROR</td>
<td>Turn the power off and on again.</td>
</tr>
</tbody>
</table>
| MEMORY STICK ERROR         | - The inserted “Memory Stick” cannot be used with your camera, or is damaged.  
<pre><code>                      | - The “Memory Stick” is not inserted correctly.                         |
</code></pre>
<p>| FORMAT ERROR               | Failed to format the “Memory Stick.”                                    |
| MEMORY STICK LOCKED        | The write-protect tab on the “Memory Stick” is set to the LOCK position.|
| NO MEMORY SPACE            | The capacity of the “Memory Stick” is full, and you cannot record images.|
| NO FILE                    | No image has been recorded on the “Memory Stick.”                       |
| FILE ERROR                 | An error occurred while playing back the image.                          |
| FILE PROTECT               | The image is protected against erasure.                                 |
| DIRECTORY ERROR            | A directory with the same name already exists on the “Memory Stick.”    |
| IMAGE SIZE OVER            | You are playing back an image of a size that cannot be played back with your camera. |
| INVALID OPERATION          | You are playing back a file that was created on equipment other than your camera. |
| 💡                          | The battery level is low or zero. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there is still 5 to 20 minutes of remaining battery time left. |
| CANNOT DIVIDE              | - The file is not long enough to be divided.                             |
|                            | - The file is not a moving image.                                       |</p>
<table>
<thead>
<tr>
<th>Message</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;ם&quot;</td>
<td>The amount of light is not sufficient or the shutter speed is too slow. (Mount the camera on a tripod or otherwise secure the camera in place.)</td>
</tr>
</tbody>
</table>
### Self-diagnosis display

Your camera has a self-diagnosis display. This function displays the camera condition on the LCD screen with a combination of a letter and four digits of numbers. If this occurs, check the following code chart. The code informs you of the camera’s current condition. The last two digits (indicated by  □□ ) will differ depending on the state of the camera.

#### First three digits | Cause and/or Corrective Action
--- | ---
C:32:□□ | • There is trouble with your camera’s hardware.  
→ Turn the power off and on again.

C:13:□□ | • An unformatted “Memory Stick” is inserted.  
→ Format the “Memory Stick” (page 69).
• The inserted “Memory Stick” cannot be used with your camera, or is damaged.  
→ Insert a new “Memory Stick” (page 17).
• The camera cannot read or write data on the “Memory Stick.”  
→ Re-insert the “Memory Stick” several times.

E:92:□□ | • You are using a battery pack that is not “InfoLITHIUM” compatible.  
→ Use an “InfoLITHIUM” battery pack.
• You installed or removed the “InfoLITHIUM” battery pack when using the AC adapter.  
→ Turn the power of and on again.
• A camera malfunction that you cannot reverse has occurred.  
→ Contact your Sony dealer or local authorized Sony service facility and inform them of the 5-digit service code. (example: E:92:10)

E:61:□□  
E:91:□□ | • A camera malfunction that you cannot reverse has occurred.  
→ Contact your Sony dealer or local authorized Sony service facility and inform them of the 5-digit service code. (example: E:61:10)

If you are unable to solve the problem even after trying the corrective actions a few times and when the camera is not reset even if you press the reset button located on the bottom, contact your Sony dealer or local authorized Sony service facility.
Specifications

System
Image device
6.64 mm (1/2.7 type) color
CCD

Lens
3× zoom lens
f = 6.4 – 19.2 mm (9/32 – 25/32 inches)
(41 – 123 mm (1 5/8 – 4 7/8 inches) when converted into a
35 mm still camera)
F = 3.8 – 3.9

Exposure control
Automatic exposure

White balance
Automatic, Indoor, Outdoor,
Hold

Data system
Movie: MPEG1
Still: JPEG, GIF (in TEXT
mode, Clip Motion), TIFF

Recording medium
“Memory Stick”

Flash
Recommended recording
distance (ISO is set to AUTO):
0.3 m to 2.0 m
(11 13/16 inches to
6 feet 6 3/4 inches)

Output connector
VIDEO OUT
Minijack
Video: 1 Vp-p, 75 Ω,
unbalanced, sync negative

USB jack
mini-B

LCD screen
Used LCD panel
1.5 type TFT (Thin Film
Transistor active matrix) drive

Total number of dots
123 200 (560×220) dots

General
Used battery
Two size AA alkaline
batteries: 3 V
NP-FS11: 3.6 V (not supplied)

Power consumption
(during recording)
2.8 W

Operation temperature
0°C to 40°C
(32°F to 104°F)

Storage temperature
-20°C to +60°C
(-4°F to +140°F)

Maximum dimensions
126×61.2×53.7 mm
(5×2 1/2×2 1/8 inches)
(w/h/d)

Mass
Approx. 260 g (9.2 oz)
(including two size AA
batteries, “Memory Stick,”
wrist strap and lens cap etc.)

AC-LS1A AC power adpoter (not supplied)

Power requirements
100 to 240 V AC, 50/60 Hz

Rated output voltage
DC 4.2 V, 1.5 A in operating
mode

Operation temperature
0°C to 40°C (32°F to 104°F)

Storage temperature
-20°C to +60°C
(-4°F to +140°F)

Maximum dimensions
105×36×56 mm
(4 1/4×1 7/16×2 1/4 inches)
(w/h/d) (excluding maximum
protrusions)

Mass
Approx. 180 g (6 oz)

NP-FS11 battery pack
(not supplied)

Used battery
Lithium ion battery

Maximum voltage
DC 4.2 V

Nominal voltage
DC 3.6 V

Capacity
4.1 Wh (1 140 mAh)

Accessories
VIDEO connecting cable (1)
Size AA alkaline batteries (2)
USB cable (1)
Lens cap (1)
Lens cap strap (1)
Wrist strap (1)
“Memory Stick” (4 MB) (1)
CD-ROM (USB driver
SPVD-004) (1)
Operating Instructions (1)

Design and specifications are
subject to change without notice.
LCD screen indicators

The indicators during recording still images

1. Battery remaining indicator
2. Flash mode/red eye reduction/white balance/AF illuminator indicator
3. Date/time/ISO number indicator
4. Sharpness indicator
5. Picture effect indicator
6. AF frame
7. Spot light-metering cross hair
8. AE/AF lock indicator
9. Recording mode indicator
10. Image size indicator
11. Image quality indicator

12. TWILIGHT mode indicator
13. Remaining number of recordable images indicator/Self-diagnosis function indicator
   The actual number of remaining images may differ depending on the recording conditions.

14. Remaining memory capacity indicator
15. Macro /focus mode indicator/Focus preset value
16. EV level indicator
17. Aperture value indicator
18. Shutter speed indicator
19. Self-timer indicator
20. Light amount warning indicator
21. Menu and guide menu
   Pressing MENU switches the menu on/off.
The indicators during recording moving images

1 Battery remaining indicator
2 White balance indicator
3 Picture effect indicator
4 Recording mode indicator
5 Image size indicator
6 Recording time [maximum recordable time] indicator/ Self-diagnosis function indicator
7 Remaining memory capacity indicator
8 Macro /focus mode indicator/Focus preset value
9 EV level indicator
10 Self-timer indicator
11 Spot light-metering cross hair
12 Menu and guide menu

Pressing MENU switches the menu on/off.
**When playing back still images**

1. Protect/print mark indicator
2. Zoom scaling indicator
3. File name
4. Recording mode indicator
5. Image size indicator
6. Image number
7. Number of stored images in “Memory Stick”
8. Remaining memory capacity indicator
9. Recording date of the playback image/menu and guide menu

**When playing back moving images**

1. Recording mode indicator
2. Image size indicator
3. Image number/number of stored images in “Memory Stick”
4. Remaining memory capacity indicator
5. Counter
6. Playback image
7. Play bar
8. Menu and guide menu
Notes on Using Batteries

Power save mode

When operating the camera with size AA alkaline batteries, set POWER SAVE in the SET UP screen to ON. This increases the battery efficiency and life when recording still images.

When POWER SAVE is ON

- The LCD screen turns off while the flash is charging (while the \$/CHG lamp is flashing). When the camera is turned on for the first time after being left unused for a long period of time, the flash will take longer than usual to charge.
- The time from when you press the shutter button until the image is recorded is slightly longer than when POWER SAVE is OFF.
- The focus is only aligned when the shutter button is depressed halfway, even when auto focusing is activated.

Power save mode

- The factory setting is ON (page 70).
- Power save mode is also effective when using an “InfoLITHIUM” battery pack (NP-FS11, not supplied), but in this case recording can be performed more comfortably by setting POWER SAVE in the SET UP screen to OFF.

Handling precautions for size AA batteries

- The batteries may be hot immediately after using the camera. Wait until the batteries have cooled before removing them.
- Remove the batteries when you will not be using the camera for a long time.
- Do not disassemble batteries, short the terminals with metallic objects, or place batteries in or near heat sources.
- Be sure to replace both batteries at the same time. In addition, do not mix new and old batteries or different types of batteries such as alkaline and nickel metal hydride batteries.

Batteries that can be used

- “InfoLITHIUM” battery pack (NP-FS11) (recommended, not supplied)
- Size AA alkaline batteries (2)
- Size AA nickel metal hydride batteries (2) (not supplied)
- Size AA nickel-cadmium batteries (2) (not supplied)

Notes

- When using size AA alkaline batteries, we recommend Sony Stamina alkaline batteries. Other batteries may not bring out the full performance of the camera.
- When using the camera in low temperature environments, use the “InfoLITHIUM” battery pack (NP-FS11, not supplied). The performance of alkaline batteries drops significantly at low temperatures, making use impossible.
- Nickel metal hydride batteries and nickel-cadmium batteries can be used, but the battery remaining time may not be displayed correctly.
- Manganese and primary lithium batteries cannot be used with the camera.
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