SONY

Cyber-shot

Digital Still Camera

Cyber-shot Handbook

DSC-W110/W115/W120/W125/ W130

Before operating the unit, please read this Handbook thoroughly together with the ***"Instruction Manual"*** and the ***"Cyber-shot Step-up Guide"***, and retain them for future reference.

▼CLICK!

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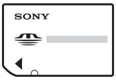
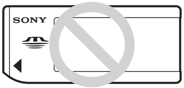
3-700-777-**12**(1) GB

Notes on using the camera

Notes on the types of "Memory Stick" that you can use (not supplied)



"Memory Stick Duo": You can use a "Memory Stick Duo" with the camera.



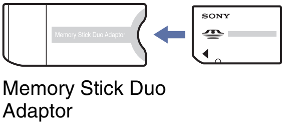
"Memory Stick": You cannot use a "Memory Stick" with the camera.

Other memory cards cannot be used.

- For details on "Memory Stick Duo", see page 120.

When using a "Memory Stick Duo" with "Memory Stick" compatible equipment

You can use the "Memory Stick Duo" by inserting it into the Memory Stick Duo Adaptor (not supplied).



Notes on the battery pack

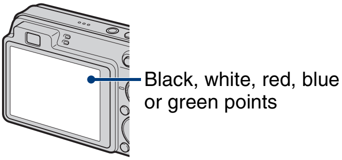
- Charge the battery pack (supplied) before using the camera for the first time.
- You can charge the battery pack even if it is not completely discharged. In addition, even if the battery pack is not fully charged, you can use the partially charged capacity of the battery pack as is.
- If you do not intend to use the battery pack for a long time, use up the existing charge and remove it from the camera, then store it in a cool, dry place. This is to maintain the battery pack functions.
- For details on the usable battery pack, see page 122.

Carl Zeiss lens

The camera is equipped with a Carl Zeiss lens which is capable of reproducing sharp images with excellent contrast.
The lens for the camera has been produced under a quality assurance system certified by Carl Zeiss in accordance with the quality standards of Carl Zeiss in Germany.

Notes on the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.


Black, white, red, blue or green points

- Exposing the LCD screen or the lens to direct sunlight for long periods may cause malfunctions. Be careful when placing the camera near a window or outdoors.
- Do not press against the LCD screen. The screen may be discolored and that may cause a malfunction.
- Images may trail across on the LCD screen in a cold location. This is not a malfunction.
- Be careful not to bump the movable lens, and be careful not to apply force to it.

The images used in this Handbook

The images used as examples in this Handbook are reproduced images, and are not actual images shot using the camera.

On Illustrations

Illustrations used in this manual are of the DSC-W120 unless noted otherwise.

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EV: Adjusting the light intensity
ISO: Selecting a luminous sensitivity
Metering Mode: Selecting the metering mode
Focus: Changing the focus method
White Balance: Adjusting the color tones
Flash Level: Adjusting the amount of flash light
Red Eye Reduction: Setting the Red Eye Reduction function
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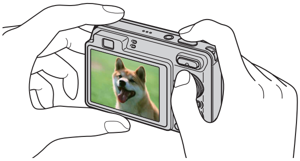
Basic techniques for better images

Focus **Exposure** **Color** **Quality** **Flash**



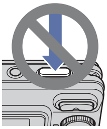
This section describes the basics so you can enjoy the camera. It tells you how to use various camera functions such as the mode dial (page 24), the HOME screen (page 41) and the menus (page 43).

Focus

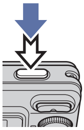
Focusing on a subject successfully

When you press the shutter button halfway down, the camera adjusts the focus automatically (Auto Focus). Remember to press the shutter button only halfway down.

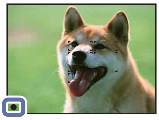
Do not fully press the shutter button straight away.



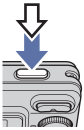
Press the shutter button halfway down.



AE/AF lock indicator flashing ➡ lit/beeps



Then press the shutter button fully down.



When focusing is difficult → [Focus] (page 51)
If the image looks blurred even after focusing, it may be because of camera shake. → See "Hints for preventing blur" below.

Hints for preventing blur

The camera moved accidentally when you took the image. This is called “Camera shake.” On the other hand, if the subject moved when you took the image, it is called “subject blur.”

Camera shake

Cause

Your hands or body shake while you hold the camera and press the shutter button, and the entire screen is blurred.

What you can do to reduce the blurring

- Use a tripod or place the camera on a flat surface to hold the camera steady.
- Shoot with a 2-second delay self-timer and stabilize the camera by holding your arms firmly at your side after pressing the shutter button.

Subject blur

Cause

Even though the camera is steady, the subject moves during the exposure so the subject looks blurred when the shutter button is pressed.

What you can do to reduce the blurring

- Select ISO (High Sensitivity) mode in Scene Selection.
- Select a higher ISO sensitivity to make the shutter speed faster, and press the shutter button before the subject moves.

Notes

- The anti-blur function is enabled in the factory default settings so that camera shake is reduced automatically. However, this is not effective for subject blur (DSC-W120/W125/W130 only).
- Besides, camera shake and subject blur occur frequently under low-light or slow shutter speed conditions, such as those encountered in ☽ (Twilight) mode or 👤☽ (Twilight Portrait) mode. In that case, shoot with the above tips in mind.

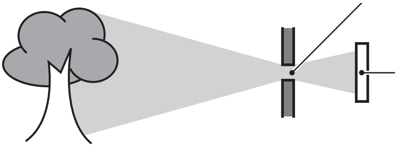
Exposure Adjusting the light intensity

You can create various images by adjusting the exposure and the ISO sensitivity. Exposure is the amount of light that the camera will receive when you release the shutter.

Exposure:

Shutter speed = Length of time the camera receives light

Aperture = Size of the opening allowing light to pass through



ISO sensitivity (Recommended Exposure Index)
= Recording sensitivity

Overexposure
= too much light
Whitish image

Correct exposure

Underexposure
= too little light
Darker image

The exposure is automatically set to the proper value in the auto adjustment mode. However, you can adjust it manually using the functions below.

Adjusting EV:
Allows you to adjust the exposure determined by the camera (page 49).

Metering Mode:
Allows you to change the part of the subject to be measured to determine the exposure (page 50).

Adjusting ISO Sensitivity (Recommended Exposure Index)

ISO sensitivity is a speed rating for recording media that incorporates an image sensor that receives light. Even when the exposure is the same, images differ depending on the ISO sensitivity.
To adjust the ISO sensitivity, see page 49.

High ISO sensitivity
Records a bright image even in dark locations while increasing shutter speed to reduce blur.
However, the image tends to become noisy.

Low ISO sensitivity
Records a smoother image.
However, when the exposure is insufficient, the image may become darker.

Color

On the effects of lighting

The apparent color of the subject is affected by the lighting conditions.

Example: The color of an image affected by light sources

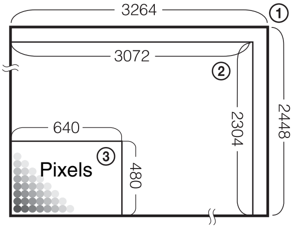
Weather/lighting	Daylight	Cloudy	Fluorescent	Incandescent
Characteristics of light	White (standard) 	Bluish 	Green-tinged 	Reddish

The color tones are adjusted automatically in the auto adjustment mode.
However, you can adjust color tones manually with [White Balance] (page 53).

Quality On “image quality” and “image size”

A digital image is made up of a collection of small dots called pixels.
If it contains a large number of pixels, the image becomes large, it takes up more memory, and the image is displayed in fine detail. “Image size” is shown by the number of pixels. Although you cannot see the differences on the screen of the camera, the fine detail and data processing time differ when the image is printed or displayed on a computer screen.

Description of the pixels and the image size

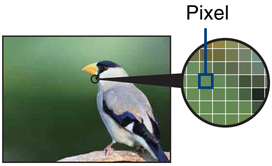


① Image size: 8M (DSC-W130 only)
3264 pixels × 2448 pixels = 7,990,272 pixels

② Image size: 7M (DSC-W110/W115/W120/W125 only)
3072 pixels × 2304 pixels = 7,077,888 pixels

③ Image size: VGA
640 pixels × 480 pixels = 307,200 pixels

Selecting the image size for use (page 12)



Many pixels (Fine image quality and large file size) ➡ Example: Printing in up to A3 size

Few pixels (Rough image quality but small file size) ➡ Example: An attached image to be sent by e-mail

DSC-W130

The default settings are marked with ✓.

	Image size	Usage guidelines	No. of images	Printing
✓	8M (3264×2448)	For prints up to A3 (11×17")	Less	Fine
	3:2 (7M)[*1] (3264×2176)	Shoot in 3:2 aspect ratio		
	5M (2592×1944)	For prints up to A4 (8×10")	↕	↕
	3M (2048×1536)	For prints up to 10×15 cm (4×6") or 13×18 cm (5×7")		
	VGA (640×480)	Shoot at a small image size for e-mail attachments	More	Rough
	16:9 (6M)[*2] (3264×1840)	For viewing on HDTVs and printing up to A4(8×10")	Less ↕	Fine ↕
	16:9 (2M)[*2] (1920×1080)	For viewing on HDTVs	More	Rough

[*1] Images are recorded in 3:2 aspect ratio, same as photograph printing paper or postcards, etc.

[*2] Both edges of the image may be cut off when printing (page 112).

DSC-W110/W115/W120/W125

The default settings are marked with ✓.

	Image size	Usage guidelines	No. of images	Printing
✓	7M (3072×2304)	For prints up to A3 (11×17")	Less	Fine
	3:2 (6M)[*1] (3072×2048)	Shoot in 3:2 aspect ratio	↕	↕
	5M (2592×1944)	For prints up to A4 (8×10")	↕	↕
	3M (2048×1536)	For prints up to 10×15 cm (4×6") or 13×18 cm (5×7")	↕	↕
	VGA (640×480)	Shoot at a small image size for e-mail attachments	More	Rough
	16:9 (5M)[*2] (3072×1728)	For viewing on HDTVs and printing up to A4(8×10")	Less	Fine
	16:9 (2M)[*2] (1920×1080)	For viewing on HDTVs	More	Rough

*1) Images are recorded in 3:2 aspect ratio, same as photograph printing paper or postcards, etc.

*2) Both edges of the image may be cut off when printing (page 112).

DSC-W110/W115/W120/W125/W130

The default settings are marked with ✓.

	Movie image size	Frame/Second	Usage guidelines
	640(Fine) (640×480)	Approx. 30	Shoot high quality movie for display on TV
✓	640(Standard) (640×480)	Approx. 17	Shoot standard quality movie for display on TV
	320 (320×240)	Approx. 8	Shoot at a small image size for e-mail attachments

- The larger the image size, the higher the image quality.
- The higher the number of frames per second, the smoother the playback image.

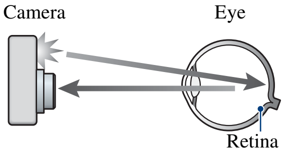
Flash

On using the flash

The eyes of the subject may come out red, or fuzzy white circular spots may appear when using the flash. These phenomena can be reduced by taking the following steps.

The “Red-eye phenomenon”

Pupils become dilated in dark environments. Flash light is reflected off the blood vessels at the back of the eye (retina), causing the “red-eye” phenomenon.

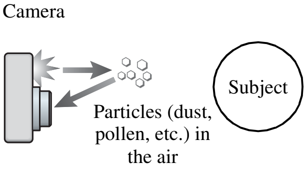


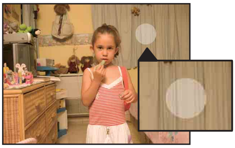
How can the “Red-eye phenomenon” be reduced?

- Set [Red Eye Reduction] to [On] (page 55).
- Select ISO (High Sensitivity)* mode in Scene Selection (page 30). (The flash is turned off automatically.)
- When the eyes of the subject turn out red, correct the image with [Retouch] on the viewing menu (DSC-W130 only) (page 57) or with the supplied software “Picture Motion Browser”.

The “White circular spots”

This is caused by particles (dust, pollen, etc.) floating close to the lens. When they are accentuated by the camera’s flash, they appear as white circular spots.





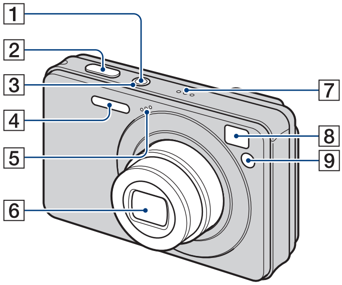
How can the “White circular spots” be reduced?

- Light the room and shoot the subject without a flash.
- Select ISO (High Sensitivity)* mode in Scene Selection. (The flash is turned off automatically.)

* Even though you selected ISO (High Sensitivity) mode in Scene Selection, the shutter speed might be slower under low-light conditions, or in a dark place. In that case, use a tripod or hold your arms firmly at your side after pressing the shutter button.

Identifying parts

See the pages in parentheses for details of operation.



1 POWER button

2 Shutter button (25)

3 POWER lamp

4 Flash (27)

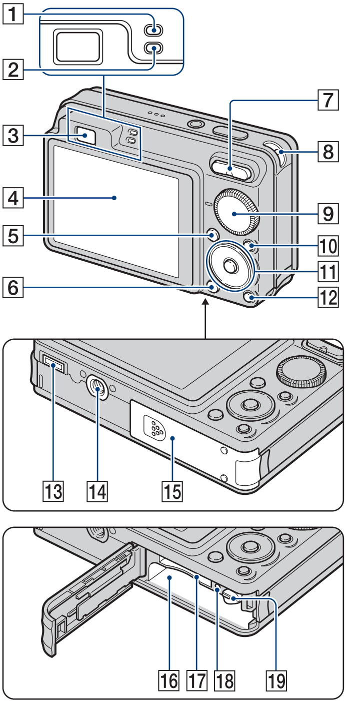
5 Microphone

6 Lens

7 Speaker

8 Finder window

9 Self-timer lamp (28)/Smile Shutter lamp (32)/AF illuminator (72)



1 AE/AF lock lamp (green)

2 Flash charge lamp/Record lamp (orange)

3 Finder

4 LCD screen (21)

5 MENU button (43)

6 ▶ (Playback) button (34)

7 For shooting: W/T (Zoom) button (27)
For viewing: ⊖/⊕ (Playback zoom) button/▦ (Index) button (34, 35)

8 Hook for wrist strap

9 Mode dial (24)

10 HOME button (41)

11 Control button
Menu on: ▲/▼/◀/▶/● (43)
Menu off: DISP/⏲/🌷/⚡ (21, 27, 28)

12 ⧉♫ (Slideshow) button (36)

13 Multi connector (bottom)
Used in the following situations:

- Making a USB connection between the camera and the computer.
- Making a connection to audio/video input jacks on a TV.
- Making a connection to a PictBridge compliant printer.

14 Tripod receptacle (bottom)

- Use a tripod with a screw less than 5.5 mm (7/32 inch) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

15 Battery/“Memory Stick Duo” cover (bottom)

16 Battery insertion slot

17 “Memory Stick Duo” slot

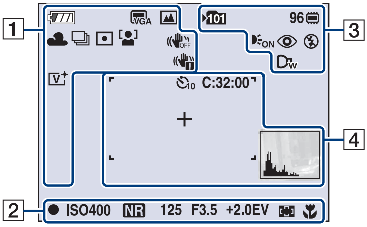
18 Access lamp

19 Battery eject lever

Indicators on the screen

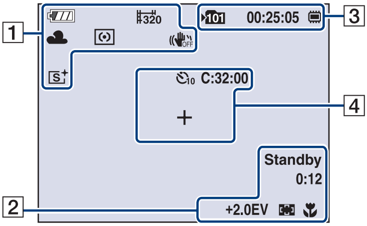
Each time you press ▲ (DISP) on the control button, the display changes (page 21).
See the pages in parentheses for details of operation.

When shooting still images



- The indicators are limited in Easy Shooting mode.

When shooting movies



1

Display	Indication
▮▮▮	Battery remaining
▭	Low battery warning (115)
8M 7M 5M 3M VGA 3:2 16:9+ 16:9 FINE STD 320	Image size (45) • 8M is for DSC-W130 only. • 7M is for DSC-W110/W115/W120/W125 only.
ISO ☺	Mode dial/Menu (Scene Selection) (29)

Display	Indication
P	Mode dial (Program Auto) (24)
☀ ☁ 1 2 3 WB	White balance (53)
BRK ±0.3 BRK ±0.7 BRK ±1.0	Burst mode/Bracket mode (DSC-W130 only) (48)
(•) ●	Metering mode (50)
[☺]	Face Detection (46)/Smile Detection (47)
ON OFF	SteadyShot (DSC-W120/W125/W130 only) (56) • In the default setting, when the shutter button is pressed halfway down, one of these indicators appears, depending on the SteadyShot setting.
!	Vibration warning • Indicates vibration may prevent you from shooting clear images due to insufficient lighting. Even if the vibration warning appears, you can still shoot images. However, we recommend that you turn on the anti-blur function, using the flash for better lighting or using a tripod or other means to stabilize the camera (page 8).
[☺]1	Smile Detection Sensitivity indicator/Number of images (32)
W T ×1.4 sQ pQ	Zoom scaling (27, 73)
V+ S+ BW+	Color mode (55)

2

Display	Indication
●	AE/AF lock (26)
REC **Standby**	Recording a movie/Standby a movie
ISO400	ISO number (49)
NR	NR slow shutter • When the shutter speed becomes slower than a certain speed in low light conditions, the NR (Noise Reduction) slow shutter function is activated automatically to reduce the image noise.
125	Shutter speed
F3.5	Aperture value
+2.0EV	Exposure Value (49)
0:12	Recording time (minutes : seconds)
⌜⌟ [ ] ●	AF range finder frame indicator (51)
1.0m	Semi manual value (52)
❀	Macro (27)

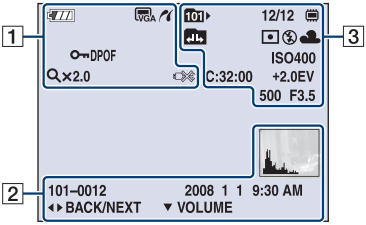
3

Display	Indication
▸101	Recording folder (66) • This does not appear when using internal memory.
96	Number of recordable images
▭ ▣	Recording Media (“Memory Stick Duo”, Internal memory)
00:25:05	Recordable time (hours : minutes : seconds)
◗ON	AF illuminator (72)
👁	Red-eye reduction (55)
⚡ ⚡SL ⚡	Flash mode (27)
⚡●	Flash charging
▭T ▭W	Conversion lens (74)

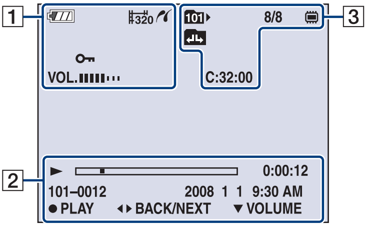
4

Display	Indication
⏲10 ⏲2	Self-timer (28)
C:32:00	Self-diagnosis display (115)
+	Spot metering cross hair (50)
⌜ ⌝ ⌞ ⌟	AF range finder frame (51)
	Histogram (21)

When playing back still images


1
VGA
DPOF
×2.0
101
12/12
ISO400
+2.0EV
C:32:00
500 F3.5
3
101–0012
2008 1 1 9:30 AM
◄► BACK/NEXT
▼ VOLUME
2

When playing back movies


1
320
VOL.
101
8/8
C:32:00
3
0:00:12
101–0012
2008 1 1 9:30 AM
● PLAY
◄► BACK/NEXT
▼ VOLUME
2

1

Display	Indication
🔋	Battery remaining
🔋	Low battery warning (115)
8M 7M 5M 3M VGA 3:2 16:9+ 16:9 FINE STD 320	Image size (45) • 8M is for DSC-W130 only. • 7M is for DSC-W110/ W115/W120/W125 only.
🔑	Protect (61)
VOL. ▮▮▮▮▮▮···	Volume (34)
DPOF	Print order (DPOF) mark (102)
✓	PictBridge connecting (99)
🔍×2.0	Zoom scaling (34)
✗	PictBridge connecting (101) • Do not disconnect the cable for multi-use terminal while the icon is displayed.

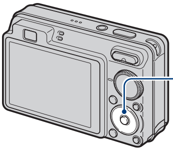
2

Display	Indication
►	Playback (34)
━━━━━■━	Playback bar
0:00:12	Counter
101-0012	Folder-file number (63)
2008 1 1 **9:30 AM**	Recorded date/time of the playback image
● STOP **● PLAY**	Function guide for playing image
◄► BACK/ NEXT	Selecting images
▼ VOLUME	Adjusting the volume
	Histogram (21) • ⊗ appears when histogram display is disabled.

3

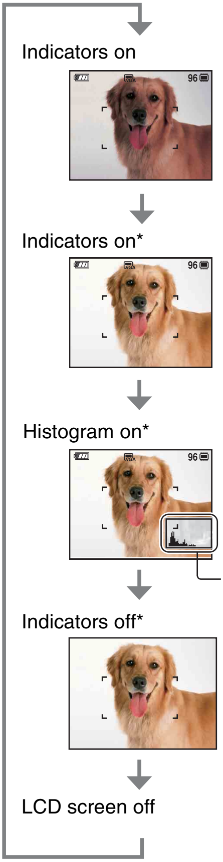
Display	Indication
101▸	Playback folder (63) • This does not appear when using internal memory.
8/8 12/12	Image number/Number of images recorded in selected folder
▭ ▣	Playback Media (“Memory Stick Duo”, Internal memory)
↵ ⇅ ↳	Changing folder (63) • This does not appear when using internal memory.
⊙ ●	Metering mode (50)
⚡ ⊘	Flash
AWB ☀ ☁ 1 2 3 ☼ ⚡WB	White balance (53)
C:32:00	Self-diagnosis display (115)
ISO400	ISO number (49)
+2.0EV	Exposure Value (49)
500	Shutter speed
F3.5	Aperture value

Changing the screen display



▲ (DISP) (Screen display) button

Each time you press ▲ (DISP) on the control button, the display changes as follows:



During playback, the image information is displayed.

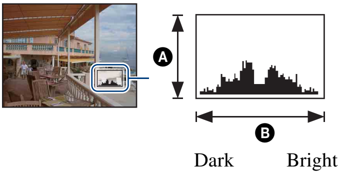
Histogram display (page 22)

* The brightness of the LCD Backlight is set to up.

- If you view images in bright outside light, adjust the brightness of the LCD backlight up. However, the battery power may decrease faster under such condition.
- The histogram does not appear in the following situations:
  While shooting
  - When the menu is displayed.
  - When recording movies.

  During playback
  - When the menu is displayed.
  - In index mode.
  - When you are using playback zoom.
  - When you are rotating still images.
  - During playback of movies.
- During playback, you cannot turn the LCD screen off.
- A large difference in the histogram displayed during shooting and playback may occur when:
  - The flash strobes.
  - The shutter speed is slow or fast.
- The histogram may not appear for images recorded using other cameras.
- When you set the LCD screen to off, the digital zoom does not function. When you select ⚡ (Flash mode)/ ⏲ (Self-timer)/ 🌷 (Macro), the image is displayed for about two seconds.
- If you turn the power off and on again while the LCD screen is off, the indicators will be on.

Adjusting EV (Exposure Value) by displaying a histogram



A histogram is a graph showing the brightness of an image. Press ▲ (DISP) on the control button repeatedly to display the histogram on the screen. The graph display indicates a bright image when skewed to the right side, and a dark image when skewed to the left side.

Ⓐ Number of pixels

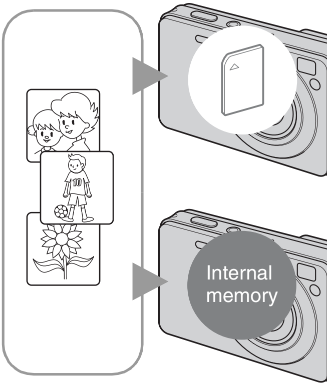
Ⓑ Brightness

- The histogram also appears when playing back a single image, but you cannot adjust the exposure.

Using the internal memory

The camera has approximately 15 MB of internal memory. This memory is not removable. Even when there is no “Memory Stick Duo” inserted in the camera, you can record images using this internal memory.

- Movies with the image size set to [640(Fine)] cannot be recorded using the internal memory.



When a “Memory Stick Duo” is inserted

[Recording]: Images are recorded on the “Memory Stick Duo”.

[Playback]: Images on the “Memory Stick Duo” are played back.

[Menu, Settings, etc.]: Various functions can be performed on images on the “Memory Stick Duo”.

When there is no “Memory Stick Duo” inserted

[Recording]: Images are recorded using the internal memory.

[Playback]: Images stored in the internal memory are played back.

[Menu, Settings, etc.]: Various functions can be performed on images in the internal memory.

On image data stored in the internal memory

We recommend that you copy (back up) data without error using one of the following methods.

To copy (back up) data on a “Memory Stick Duo”

Prepare a “Memory Stick Duo” with sufficient free capacity, then perform the procedure explained in [Copy] (page 67).

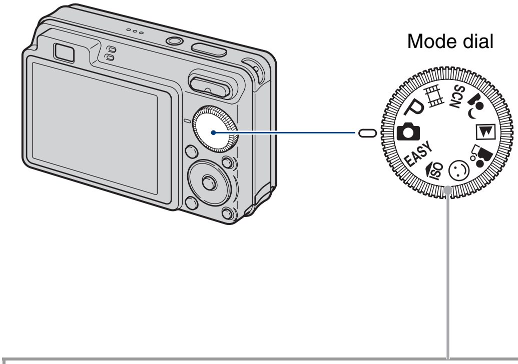
To copy (back up) data on a hard disk of your computer

Perform the procedure on pages 87, 88 or 91, 92 without a “Memory Stick Duo” inserted in the camera.

- You cannot copy image data on a “Memory Stick Duo” to the internal memory.
- By connecting the camera to a computer with a cable for multi-use terminal, you can copy data stored in the internal memory to a computer. However you cannot copy data on a computer to the internal memory.

Using the mode dial

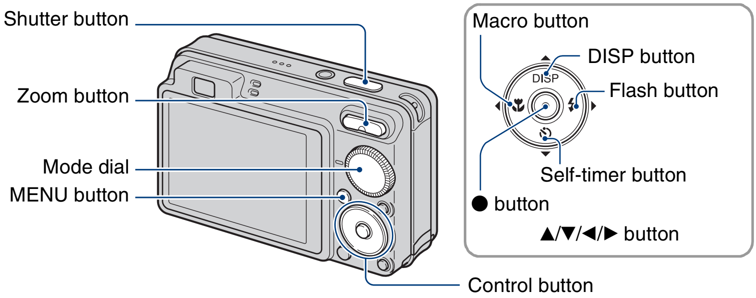
Set the mode dial to the desired function.



📷:	**Auto Adjustment mode** Allows shooting with the settings adjusted automatically. → page 25
EASY:	**Easy Shooting mode** Allows you to shoot still images using the minimum necessary functions with easy-to-see indicators. → page 26
P :	**Program Auto mode*** Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).
🎞:	**Movie Mode** Allows you to record movies with audio. → page 25
ISO/☺/👥/🏞/👤☽/SCN: **Scene Selection mode**	Allows you to shoot with preset settings according to the scene. You can select ☽, 🏖, ☃, 🎆 in the menu when the mode dial is set to SCN. → page 29

* You can select various settings using the menu. (For details on the functions available → page 44)

Shooting images (Auto Adjustment mode)


Shutter button
Zoom button
Mode dial
MENU button
Macro button
DISP button
DISP
Flash button
Self-timer button
● button
▲/▼/◀/▶ button
Control button

---

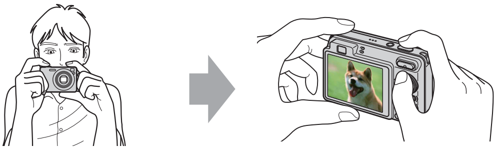
1 Select the desired function from the mode dial.

When shooting still images (Auto Adjustment mode): Select 📷.

When shooting movies: Select 🎞.

---

2 Hold the camera, with your elbows pressed against your body to steady it.



Position the subject in the center of the focus frame.

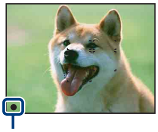
---

3 Shoot with the shutter button.

When shooting still images:

①Press and hold the shutter button halfway down to focus.

The ● (AE/AF lock) indicator (green) flashes, a beep sounds, the indicator stops flashing and remains lit.



AE/AF lock indicator

②Press the shutter button fully down.

When shooting movies:

Press the shutter button fully down.

To stop recording, press the shutter button fully down again.

If you shoot a still image of a subject that is difficult to focus on

- The shortest shooting distance is approx. 4 cm (1 5/8 inches) (W)/50 cm (1 feet 7 3/4 inches) (T) (from the lens).
- When the camera cannot focus on the subject automatically, the AE/AF lock indicator changes to flash slowly and the beep does not sound. In addition, the AF range finder frame disappears. Recompose the shot and focus again.

Focusing may be difficult in the following situations:

– It is dark and the subject is distant.
– The contrast between the subject and the background is poor.
– The subject is seen through glass.
– The subject is moving quickly.
– There is reflective light or shiny surfaces.
– The subject is backlit or there is a flashing light.

EASY Using Easy Shooting mode

Set the mode dial to **EASY**.

The text size increases and indicators become easier to see. The camera shoots images with the optimum settings, so the only settings that you can change are Image Size (Large/Small) (page 46), Flash (Auto/Off) (page 46) and Self-Timer (10 sec/Off).

- The battery power decreases faster because the brightness of the LCD backlight automatically increases.

W/T Using the zoom

Press T to zoom, press W to undo the zoom.

- When the zoom scale exceeds 4×, the camera uses the Digital Zoom function.
  For details on the [Digital Zoom] settings and the image quality, see page 73.
- You cannot change the zoom scale while shooting a movie.

⚡ Flash (Selecting a flash mode for still images)

Press ▶ (⚡) on the control button repeatedly until the desired mode is selected.

(No indicator): Flash Auto
Flashes when there is insufficient light or backlight (default setting).

⚡: Flash forced on

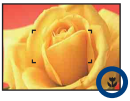
⚡SL: Slow synchro (Flash forced on)
The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.

⊘: Flash forced off

- The flash strobes twice. The first flash adjusts the light quantity.
- While charging the flash, ⚡● is displayed.

🌷 Macro (Shooting close-up)

Press ◀ (🌷) on the control button repeatedly until the desired mode is selected.



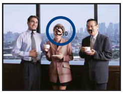
(No indicator): Auto
The camera adjusts the focus automatically from distant subjects to close-up.
Normally, put the camera in this mode.

🌷: Macro
The camera adjusts the focus with priority on close-up subjects. Set Macro On when shooting close subjects.

- The Auto Focus speed drops when you shoot images in the Macro.
- Setting the zoom all the way to the W side is recommended.

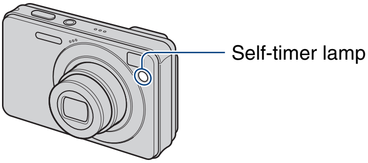
⏲ Using the self-timer

Press ▼ (⏲) on the control button repeatedly until the desired mode is selected.



(No indicator): Not using the self-timer
⏲10 : Setting the 10-second delay self-timer
⏲2 : Setting the 2-second delay self-timer

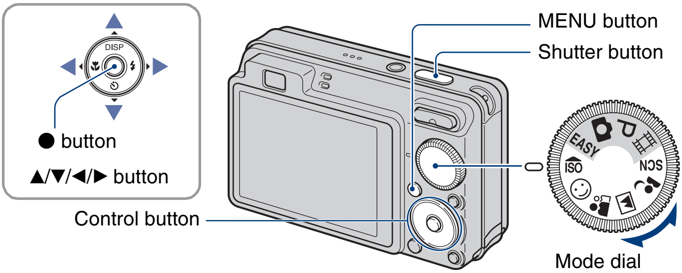
When you press the shutter button, the self-timer lamp flashes and a beep sounds until the shutter operates.



To cancel, press ▼ (⏲) again.

- Use the 2-second delay self-timer to prevent blur of an image. The shutter is released 2 seconds after you press the shutter button, which reduces camera shake when the shutter button is pressed.
- In Easy Shooting mode, you can select only ⏲ON (10 sec) or ⏲OFF (Off).

Shooting still images (Scene Selection)


DISP
● button
▲/▼/◀/▶ button
Control button
MENU button
Shutter button
EASY
P
SCN
ISO
Mode dial

Select the mode (ISO/☺/👥/▲/👤☽) in the mode dial

---

1 **Select the desired mode of Scene Selection (ISO/☺/👥/▲/👤☽) with the mode dial.**

---

2 **Shoot with the shutter button.**

Select the mode (☽/🏝/☃/✺) in SCN

---

1 **Select SCN with the mode dial.**

---

2 **Press MENU button, and select from ☽/🏝/☃/✺ with ▲/▼/◀/▶ on the control button (page 45).**

---

3 **Shoot with the shutter button.**

- For details on the mode, see next page.

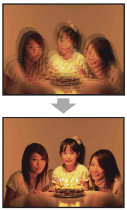
To cancel the Scene selection

Set the mode dial to anything other than the Scene Selection mode.

Scene Selection modes

The following modes are preset to match the scene conditions.

Modes selected from the mode dial



High Sensitivity

Allows you to shoot images without a flash under low light conditions, reducing blur.

Smile Shutter

When the camera detects a smile, the shutter is released automatically. For details, see page 32.

Soft Snap

Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.

Landscape

Focuses only on a distant subject to shoot landscapes, etc.

Twilight Portrait*

Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.

Modes selected from the menu screen

Twilight*

Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.

Beach

Allows you to record the blue of the water clearly when shooting seaside or lakeside scenes.

Snow

Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.

Fireworks*

Allows you to record fireworks in all their splendor.

* When you shoot images using (Twilight Portrait), (Twilight) or (Fireworks) mode, the shutter speed becomes slower, and blurring occurs frequently, so use of a tripod is recommended.

Functions you can use in Scene Selection

For shooting an image appropriately according to the scene condition, a combination of functions is determined by the camera. Some functions are not available, depending on the Scene Selection mode.

(✓: you can select the desired setting)

	ISO	☺	👤	🏞	👤☽	☽	🏝	⛄	🎆
Macro	✓	✓	✓	—	✓	—	✓	✓	—
Flash	⊘	✓	✓	⚡ / ⊘	⚡SL	⊘	⚡ / ⊘	⚡ / ⊘	⊘
Face Detection	✓	—	✓[*2]	—	✓	—	✓	✓	—
Smile Detection	—	✓	—	—	—	—	—	—	—
Smile Detection Sensitivity	—	✓	—	—	—	—	—	—	—
Burst	—	—	✓	✓	—	—	✓	✓	—
Bracket (DSC-W130 only)	—	—	✓	✓	—	—	✓	✓	—
EV	✓	✓	✓	✓	✓	✓	✓	✓	✓
White Balance	✓[*1]	—	—	—	—	—	—	—	—
Red Eye Reduction	—	—	✓	✓	✓	—	✓	✓	—
Self-timer	✓	—	✓	✓	✓	✓	✓	✓	✓

[*1] [Flash] for [White Balance] cannot be selected.

[*2] [Off] for [Face Detection] cannot be selected.

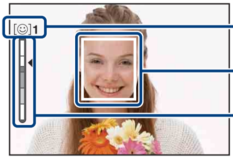
Shooting in Smile Shutter mode

When the camera detects a smile, the shutter is released automatically.

① Select ☺ (Smile Shutter) mode from the mode dial.

② Aim the camera at the subject and press the shutter button halfway down to focus.

③ Press the shutter button all the way down to set Smile Detection mode.
The Smile Shutter enters standby.



Smile Detection mark/Number of images

Smile Detection frame (Orange)

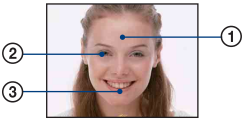
Smile Detection Sensitivity indicator
This indicates the current smile level.

When the smile level reaches the set Smile Detection Sensitivity (indicated by ◀), the camera automatically operates the shutter and records up to six images. After recording the image, the Smile Shutter lamp lights (page 15).

④ Press the shutter button all the way down again to exit the Smile Shutter mode.

- When the Smile Shutter is in standby, the Record lamp (Orange) flashes.
- Shooting using the Smile Shutter ends automatically when either the “Memory Stick Duo” or internal memory becomes full or when six images have been recorded.
- You can select the subject that has priority for smile detection with [Smile Detection] (page 47).
- If a smile is not detected, set the [Smile Detection Sensitivity] (page 47).
- You can have the camera shoot the image automatically when any person displayed in the smile detection frame (Orange) smiles after pressing the shutter button all the way down.
- The image may not be in focus if the distance between the camera and the subject is changed after pressing the shutter button all the way down. The suitable exposure may not be obtained if the surrounding brightness changes.
- Faces may not be detected correctly when:
  - It is too dark or too bright.
  - Faces are partially hidden by sunglasses, masks, hats, etc.
  - The subjects are not facing the camera.
- Smiles may not be detected correctly depending on the conditions.
- You cannot use the Digital Zoom function.
- You cannot change the zoom ratio when the Smile Shutter is in standby.

Hints for better capturing of smiles

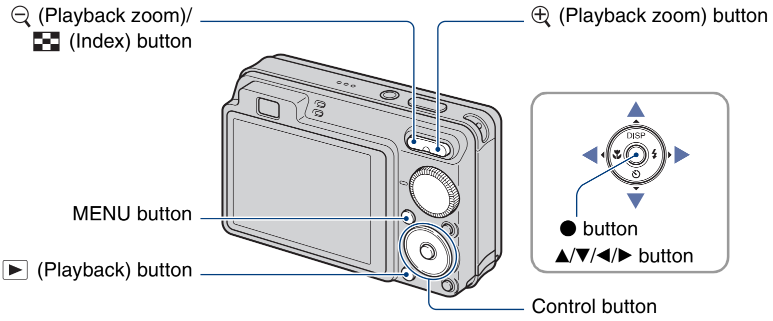


①Do not cover the eyes with the bangs.

②Try to orient the face in front of the camera and be as level as possible. The detection rate is higher when the eyes are narrowed.

③Give a clear smile with an open mouth. The smile is easier to detect when the teeth are showing.

Viewing images


⊖ (Playback zoom)/
▦ (Index) button
⊕ (Playback zoom) button
MENU button
▶ (Playback) button
DISP
● button
▲/▼/◀/▶ button
Control button

---

1 Press ▶ (Playback) button.

- If you press ▶ (Playback) button when the camera is powered off, the camera is turned on automatically and set to playback mode. To switch to the shooting mode, press ▶ (Playback) button again.

---

2 Select an image with ◀/▶ on the control button.

Movie:

Press ● to play back a movie. (Press ● again to stop playback.)

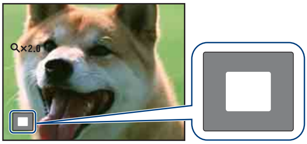
Press ▶ to fast forward, ◀ to rewind. (Press ● to return to normal playback.)

Press ▼ to display the volume control screen, then press ◀/▶ to adjust the volume.

- Movies of image size [320] are displayed in a smaller size.

⊖/⊕ To view an enlarged image (playback zoom)

Press ⊕ while displaying a still image.
To undo the zoom, press ⊖.
Adjust the position with ▲/▼/◀/▶.
To cancel the playback zoom, press ●.

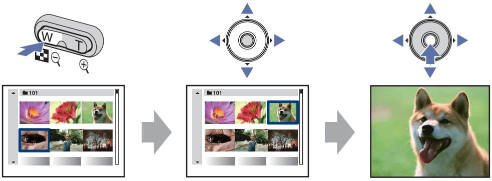


Shows the displayed area of the whole image
In this case, the center is enlarged.

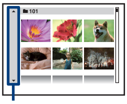
- To store enlarged images, see [Trimming] (DSC-W130 only) (page 57).

⊞ To view an index screen

Press ⊞ (Index) to display the index screen while a still image is displayed.
Select an image with ▲/▼/◀/▶.
To return to the single image screen, press ●.



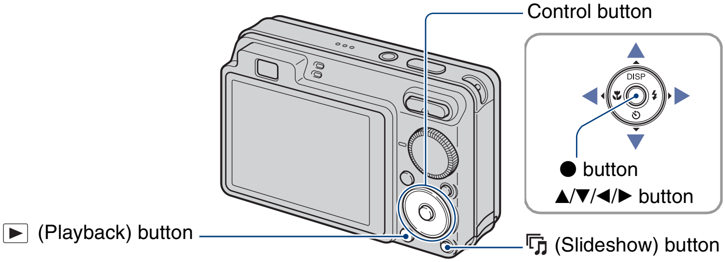
- You can also access the index screen by selecting [⊞ Image Index] from ▶ (View Images) on the HOME screen.
- Each time you press ⊞ (Index), the number of images on the index screen increases.
- When using the “Memory Stick Duo”, and there are several folders, select the folder selection bar with ◀, then select the desired folder with ▲/▼.



Folder Selection bar

Viewing still images as a slideshow

Images are automatically played back in succession along with effects and music.


Control button
DISP
● button
▲/▼/◀/▶ button
▶ (Playback) button
(Slideshow) button

---

1 Press (Slideshow) button.

The setup screen appears.

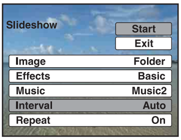

Slideshow
Start
Exit

Image	Folder
Effects	Basic
Music	Music2
Interval	Auto
Repeat	On

---

2 Press (Slideshow) button again.

The slideshow starts.

- The setting is maintained until it is changed.
- You cannot play movies.

To end the slideshow

Press (Slideshow) button.

- You cannot pause the slideshow.

To adjust the volume of the music

Press ▼ to display the volume control screen, and then press ◀/▶ to adjust the volume.

To change the setup

On the setup screen in Step 1, select each item with ▲/▼, then press ●.
The items that can be set are as follows.
The default settings are marked with ✓.

Image You can select only when you use a "Memory Stick Duo" (not supplied).		
✓	All	Plays back all the still images in a "Memory Stick Duo" in order.
	Folder	Plays back all the still images in the selected folder.

Effects		
	Simple	A simple slideshow switching still images at a preset interval
✓	Basic	A basic slideshow suitable for a wide range of scenes
	Nostalgic	A moody slideshow reproducing the atmosphere of a movie scene
	Stylish	A stylish slideshow proceeding at a middle tempo
	Active	A high-tempo slideshow suitable for active scenes

Music The music played is determined by default according to the effect you select. You can custom set any music with any effect as desired. It is also possible to choose from multiple background music (BGM) selections.		
	Music1	The default setting for a [Simple] slideshow
✓	Music2	The default setting for a [Basic] slideshow
	Music3	The default setting for a [Nostalgic] slideshow
	Music4	The default setting for a [Stylish] slideshow
	Music5	The default setting for an [Active] slideshow
	Music6	You can change the default settings.
	Music7	
	Music8	
	Off	Do not use BGM.
	Back	Returns to the setup screen.

Interval		
	1 sec	Sets the display interval of images for a [Simple] slideshow.
	3 sec	
	5 sec	
	10 sec	
✓	Auto	The interval is set to suit the selected [Effects] item. The setting is fixed to [Auto] when [Simple] is not selected as the [Effects].

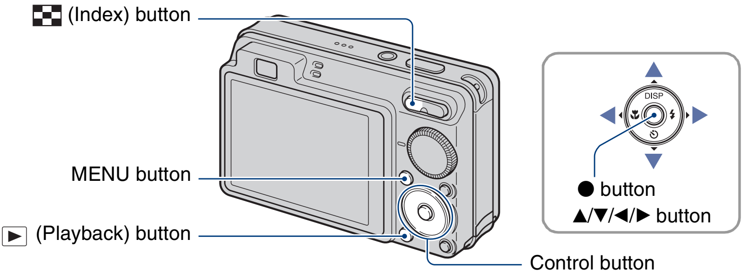
Repeat		
✓	On	Plays back images in a continuous loop.
	Off	After all the images have been played back, the slideshow ends.

To add /change Music files

You can transfer a desired music file from your CDs or MP3 files to the camera to playback during slideshow. You can transfer music using [♫ Music Tool] in (Slideshow) on the HOME screen and the "Music Transfer" software (supplied) installed on a computer. For details, see pages 94 and 96.

- You can record up to eight pieces of music on the camera (The eight preset pieces (Music 1–8) can be replaced with the ones you transferred).
- A maximum length of each music file for music playback of the camera is about 5 minutes.
- If you cannot playback a music file due to damage or other malfunctions to the file, execute [Format Music] (page 94) and transfer the music again.

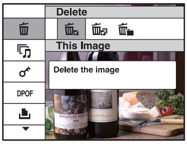
Deleting images


(Index) button
MENU button
▶ (Playback) button
DISP
● button
▲/▼/◀/▶ button
Control button

1 Press ▶ (Playback) button.

2 Press MENU button while displaying in single-image or index mode.

3 Select 🗑 (Delete) with ▲/▼ on the control button.


Delete
This Image
DPOF

Delete the image

4 Select the desired deletion method with ◀/▶ from among [This Image], [Multiple Images] and [All In This Folder], then press ●.

- The displayed item differs according to the selected playback mode (single-image mode or index mode).

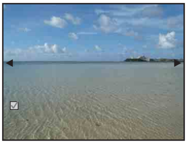
When you select [This Image]

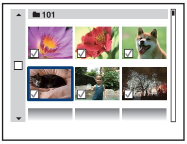
You can delete the selected image.
Select [OK] with ▲, then press ●.

When you select [Multiple Images]

You can select and delete multiple images simultaneously.

① Select the images you want to delete, then press ●.
The ✓ mark is checked in the checkbox of the image.


Single Image


Index Display

② Press MENU button.

③ Select [OK] with ▲, then press ●.

When you select [All In This Folder]

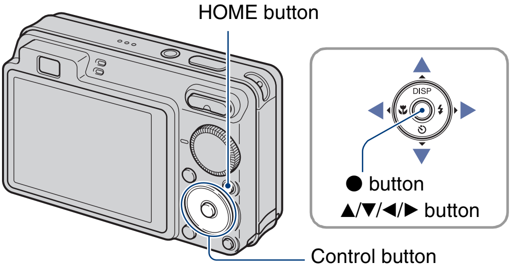
You can delete all the images in a selected folder.
Select [OK] with ▲, then press ●.

- You can also delete all images in a folder after selecting [Multiple Images] on the index screen. Select the folder selection bar with ◀ and attach a ✓ mark to the folder.

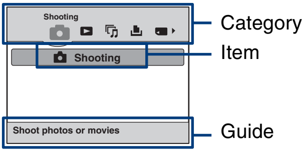
Learning the various functions – HOME/Menu

Using the HOME screen

The HOME screen is the gateway screen for all the functions of the camera, and can be called up regardless of the mode setting (shooting/viewing).


HOME button
DISP
● button
▲/▼/◄/► button
Control button

1 Press HOME button to display the HOME screen.


Shooting
Shooting
Shoot photos or movies
Category
Item
Guide

2 Select a category with ◄/► on the control button.

3 Select an item with ▲/▼, then press ●.

- You cannot display the HOME screen when a PictBridge connection or a USB connection is made.
- The camera is set to the shooting or viewing mode by pressing HOME button again.

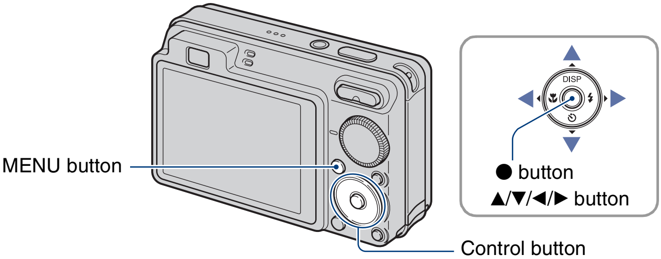
HOME items

Pressing HOME displays the following items. Details on the items are displayed on the screen by the guide.

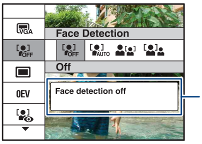
Categories	Items
Shooting*[1]	Shooting (page 24)
View Images	Single Image
	Image Index
Slideshow	Slideshow (page 36)
	Music Tool (page 94) Download Music Format Music
Print	Print (page 99)
Manage Memory	Memory Tool Memory Stick Tool (page 66) Format Create REC. Folder Change REC. Folder Copy
	Internal Memory Tool (page 68) Format
Settings	Main settings Main Settings 1 (page 69) Beep Function Guide Initialize
	Main Settings 2 (page 70) USB Connect COMPONENT Video Out Wide Zoom Display
	Shooting Settings Shooting Settings 1 (page 72) AF Illuminator Grid Line AF Mode Digital Zoom Conversion Lens
	Shooting Settings 2 (page 75) Auto Orientation*[2] Auto Review
	Clock Settings (page 76)
	Language Setting (page 77)

*[1] Shooting mode selected with the mode dial will be applied.
*[2] DSC-W120/W125/W130 only.

Using the menu items



1 Press MENU button to display the menu.



Face Detection

Off

Face detection off

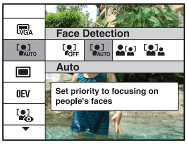
Function Guide
Setting [Function Guide] to [Off] turns off the function guide (page 69).

- The menu will be displayed only during shooting and playback mode.
- Different items will become visible depending on the selected mode.

2 Select a desired menu item with ▲/▼ on the control button.

- If the desired item is hidden, keep pressing ▲/▼ until the item appears on the screen.

3 Select a setting with ◀/▶.



Face Detection

Auto

Set priority to focusing on people's faces

- If the desired setting is hidden, keep pressing ◀/▶ until the setting appears on the screen.
- In playback mode, select a setting and press ●.

4 Press MENU button to turn off the menu.

Menu items

The available menu items vary depending on the mode setting (shooting/viewing), and the mode dial position in the shooting mode. Only the available items are displayed on the screen.

(✓: available)

Shooting menu (page 45)

Mode dial position:	📷	EASY	P	Scene	🎞
Scene Selection	—	—	—	✓*2	—
Image Size	✓	✓*1	✓	✓	✓
Flash	—	✓*1	—	—	—
Face Detection	✓	—	✓	✓*2	—
Smile Detection	—	—	—	✓*2	—
Smile Detection Sensitivity	—	—	—	✓*2	—
REC Mode	✓	—	✓	✓*2	—
EV	✓	—	✓	✓	✓
ISO	—	—	✓	—	—
Metering Mode	—	—	✓	—	✓
Focus	—	—	✓	—	✓
White Balance	—	—	✓	✓*2	✓
Flash Level	—	—	✓	—	—
Red Eye Reduction	✓	—	✓	✓*2	—
Color Mode	—	—	✓	—	✓
SteadyShot (DSC-W120/W125/W130 only)	—	—	✓	✓	✓
(Shooting Settings)	✓	—	✓	✓	✓

*1 The items that can be selected are limited compared to other modes (page 26).

*2 The operation is limited according to the selected Scene Selection mode (page 31).

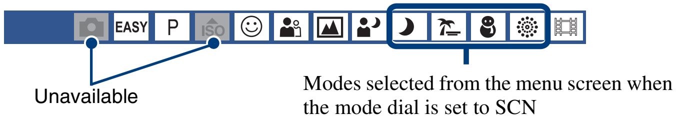
Viewing menu (page 57)

- (Delete)
- (Retouch) (DSC-W130 only)
- (Protect)
- (Print)
- (Select Folder)
- (Slideshow)
- (Multi-Purpose Resize) (DSC-W130 only)
- DPOF
- (Rotate)

Shooting menu

The functions in shooting mode using MENU are described below.
For details on how to operate the menu, see page 43.

The selectable mode is displayed in white.


EASY
P
ISO
Unavailable
Modes selected from the menu screen when the mode dial is set to SCN

The default settings are marked with ✓.

Scene Selection: Selecting the scene selection

Selects the scene selection in the menu.
You can shoot images with the settings pre-adjusted to match various scene conditions (page 29).

Image Size: Selecting the image size

For details, see pages 11, 12.

For still images

✓	8M (DSC-W130 only)	Selects image size for shooting still images.
	7M (DSC-W110/W115/W120/W125 only)	
	5M	
	3M	
	VGA	
	3:2	
	16:9+	
	16:9	

For Easy Shooting mode

Selects the still image size for Easy Shooting mode.

✓	Large	Shoots images in [8M] (DSC-W130 only) or [7M] (DSC-W110/W115/W120/W125 only) size.
	Small	Shoots images in [3M] size.

For movies

	FINE (Fine)	Selects image size for recording movies.
✓	STD (Standard)	
	320	

Flash: Flash setting

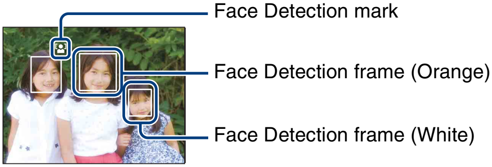
Selects the flash setting in Easy Shooting mode.

✓	Auto	Flash strobes when there is insufficient light or backlight.
	Off	Does not use the flash.

Face Detection: Detecting the face of subject

Selects whether to use the Face Detection function or not, and also selects the priority subject for adjusting the focus when using the function.

Detects the faces of your subjects and adjusts the focus, flash, exposure, white balance and red-eye reduction settings automatically.

✓	OFF (Off)	Does not use Face Detection function.
	AUTO (Auto)	Selects the face the camera is to automatically focus on.  Face Detection mark Face Detection frame (Orange) Face Detection frame (White)
	(Child Priority)	Detects and shoots with priority on child's face.
	(Adult Priority)	Detects and shoots with priority on adult's face.

- The Face Detection function does not work when using the digital zoom.
- In (Soft Snap) mode, the Face Detection function is activated.

- In (Soft Snap) mode, the default setting is [Auto].
- When the mode dial is set to **EASY** (Easy Shooting) mode, the setting is fixed to [Auto], but the Face Detection frame is not displayed.
- Up to 8 faces of your subjects can be detected. However, only up to 4 faces of your subjects can be detected when (Soft Snap) mode is selected in the Scene Selection mode.
- When the camera detects more than one subject, the camera will judge which is the main subject and set focus by priority. The Face Detection frame for the main subject will turn orange.
- The frame for which the focus is set will turn green by pressing the shutter button halfway down.
- Faces may not be detected correctly when:
  - It is too dark or too bright.
  - Faces are partially hidden by sunglasses, masks, hats, etc.
  - The subjects are not facing the camera.
- Adults and children may not be recognized correctly depending on the conditions.

Smile Detection: Setting the Smile Detection function

Selects the priority subject for the Smile Shutter function. For details on the Smile Shutter, see page 32.

✓	[☻] (Auto)	Detects and shoots smiling faces automatically.
	(Child Priority)	Detects and shoots with priority on child’s face.
	(Adult Priority)	Detects and shoots with priority on adult’s face.

- Smiles may not be detected correctly depending on the conditions.

Smile Detection Sensitivity: Setting the Smile Detection Sensitivity

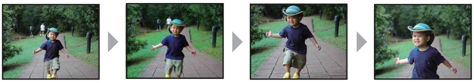
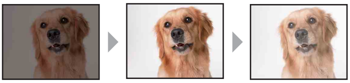
This sets the smile detection level when ☺ (Smile Shutter) mode (page 32) is selected in the Scene Selection.

	☻ (Low)	Detects a big smile.
✓	☻ (Medium)	Detects a normal smile.
	☻ (High)	Detects even a slight smile.

- Smiles may not be detected correctly depending on the conditions.

REC Mode: Selecting the continuous shooting method

Selects whether the camera performs continuous shooting or not when you press the shutter button. (The Exposure Bracket settings are for the DSC-W130 only)

✓	▣ (Normal)	Does not shoot continuously.
	(Burst)	Records 100 images in succession when you press and hold down the shutter button.  • The flash is set to ⚡ (Flash forced off).
	BRK ±0.3EV	Records a series of three images with the exposure values automatically shifted (Exposure Bracket). The larger the bracket step value, the larger the shift of the exposure value. • When you cannot decide the correct exposure, shoot in the Exposure Bracket mode, shifting the exposure value. You can select the image with the best exposure afterward.  • When the mode dial is set to 📷, the Exposure Bracket mode is not available. • The flash is set to ⚡ (Flash forced off).
	BRK ±0.7EV	
	BRK ±1.0EV	

On the Burst

- When recording with the self-timer, a series of a maximum of five images is recorded.
- The recording interval is approximately 0.5 seconds (DSC-W130) or 0.7 seconds (DSC-W110/W115/W120/W125). The recording interval becomes longer, depending on the setting for the image size.
- When the battery level is low, or when the internal memory or “Memory Stick Duo” is full, the Burst stops.
- The focus, white balance, and exposure are fixed to the values set for the first shot.

On the Exposure Bracket (DSC-W130 only)

- The focus and white balance are adjusted for the first image, and these settings are also used for the other images.
- When you adjust the exposure manually (page 49), the exposure is shifted based on the adjusted brightness.
- The recording interval is the same as that for Burst mode, but becomes slower depending on the shooting conditions.
- If the subject is too bright or too dark, you may not be able to shoot properly with the selected bracket step value.

EV: Adjusting the light intensity

Manually adjusts the exposure.

Toward –

Toward +

	–2.0EV	Toward –: Darkens an image.
✓	0EV	The exposure is determined automatically by the camera.
	+2.0EV	Toward +: Brightens an image.

- For details on the Exposure, see page 9.
- The compensation value can be set in 1/3EV increments.
- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, the exposure adjustment may not be effective.

ISO: Selecting a luminous sensitivity

Selects the ISO sensitivity.

Low ISO sensitivity

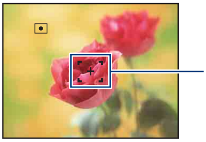
High ISO sensitivity

✓	ISO AUTO (Auto)	You can reduce image blurring in dark locations or moving subjects by increasing ISO sensitivity (select a larger number). However, images tend to become noisier as the ISO sensitivity number increases. Select an ISO sensitivity number according to shooting conditions.
	ISO 100	
	ISO 200	
	ISO 400	
	ISO 800	
	ISO 1600	
	ISO 3200	

- For details on the ISO sensitivity, see page 9.
- You can select only from [ISO AUTO], [ISO 100] to [ISO 400] when set to Burst or Exposure Bracket (DSC-W130 only).

Metering Mode: Selecting the metering mode

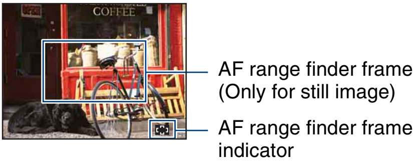
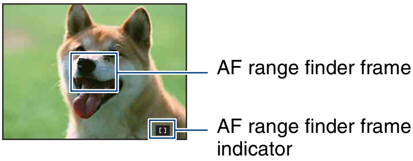
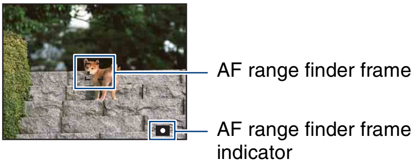
Selects the metering mode that sets which part of the subject to measure to determine the exposure.

✓	(Multi)	Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).
	(Center)	Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).
	(Spot) (Only for still image)	Measures only a part of the subject (Spot metering). • This function is useful when the subject is backlit or when there is strong contrast between the subject and the background.  Spot metering cross hairs Positions on the subject

- For details on the Exposure, see page 9.
- When using spot metering or center-weighted metering, setting [Focus] to [Center AF] is recommended to focus on the metering position (page 51).
- You can select the metering mode only when [Face Detection] is set to [Off].

Focus: Changing the focus method

You can change the focus method. Use the menu when it is difficult to get the proper focus in auto focus mode.

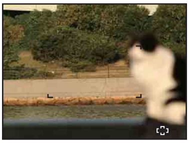
✓	(Multi AF)	Focuses on a subject in all ranges of the finder frame automatically. • This mode is useful when the subject is not in the center of the frame.  AF range finder frame (Only for still image) AF range finder frame indicator
	(Center AF)	Focuses on a subject in the center of the finder frame automatically. • Using the AF lock function together, you can compose the image the way you want.  AF range finder frame AF range finder frame indicator
	(Spot AF)	Focuses on an extremely small subject or a narrow area automatically. • Using the AF lock function together, you can compose the image the way you want. Hold the camera steady so as not to misalign the subject and the AF range finder frame.  AF range finder frame AF range finder frame indicator

	0.5 m	Automatically focuses quickly on the area around a previously set distance (Semi-manual). • Focuses on a subject in all ranges of the finder frame in semi manual mode. • This mode is useful when repeatedly shooting a subject at the same distance. • Use "Semi manual" when it is difficult to get sharp focus with automatic focusing, such as when shooting a subject through a net or window.
	1.0 m	
	3.0 m	
	7.0 m	
	∞ (unlimited distance)	

- AF stands for Auto Focus.
- When you use Digital Zoom or AF illuminator, the AF range finder frame is disabled and appears in a dotted line. In this case, the camera works to focus on the subjects at the center of the screen.
- You can change the focus method only when the [Face Detection] is set to [Off].
- You can select only [Multi AF] or [∞] when shooting movies.
- The semi manual distance setting contains some error, and this error increases when the zoom is set to the T side or the lens is tilted upward or downward.

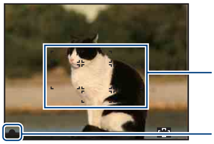
If the subject is out of focus

When shooting with the subject at the edge of the frame (or the screen), or when using [Center AF] or [Spot AF], the camera may not focus on a subject at the edge of the frame.



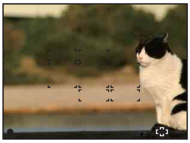
In such cases, do as follows:

① Recompose the shot so that the subject is centered in the AF range finder, and press the shutter button halfway down to focus on the subject (AF lock).



As long as you do not press the shutter button fully down, you can retry the procedure as many times as you want.

② When the AE/AF lock indicator stops flashing and remains on, return to the fully composed shot, and press the shutter button fully down.



White Balance: Adjusting the color tones

Adjusts color tones according to the surrounding light conditions. Use this function if image color appears unnatural.

✓	WB AUTO (Auto)	Adjusts the White Balance automatically.
	☀ (Daylight)	Adjusts for conditions outside under a clear sky, at sundown, night scenes, the presence of neon signs or fireworks.
	☁ (Cloudy)	Adjusts for a cloudy sky or a shady location.
	(Fluorescent Light 1)/ (Fluorescent Light 2)/ (Fluorescent Light 3)	[Fluorescent Light 1]: Adjusts for white fluorescent lighting. [Fluorescent Light 2]: Adjusts for natural white fluorescent lighting. [Fluorescent Light 3]: Adjusts for day white fluorescent lighting.

	☼ (Incandescent)	Adjusts for places under an incandescent lamp, or under bright lighting, such as in a photo studio.
	⚡WB (Flash)	Adjusts for the flash conditions. • You cannot select this item when shooting movies.

- For details on the white balance, see page 10.
- Under fluorescent lights that flicker, the white balance function may not work correctly even though you select [Fluorescent Light 1], [Fluorescent Light 2] or [Fluorescent Light 3].
- Except in [Flash] mode, [White Balance] is set to [Auto] when you shoot images using the flash.

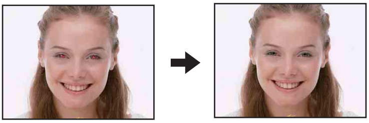
Flash Level: Adjusting the amount of flash light

Adjusts the amount of flash light.

	⚡– (–)	Makes the flash level lower.
✓	⚡STD (Normal)	
	⚡+ (+)	Makes the flash level higher.

- To change flash mode, see page 27.
- If the subject is too bright or dark, this adjustment may have no effect.

Red Eye Reduction: Setting the Red Eye Reduction function



The flash strobes two or more times before shooting to reduce the red-eye phenomenon when using the flash.

✓	(Auto)	The flash strobes to reduce the red-eye phenomenon automatically when the Face Detection function is activated.
	(On)	The flash always strobes to reduce the red-eye phenomenon.
	(Off)	Does not use Red Eye Reduction.

- To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second after you press the shutter button. Be also sure not to allow the subject to move during this period.
- Red-eye reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or if the subject looked away from the pre-strobe. In such a case, you can correct the red-eye using [Retouch] in the viewing menu after shooting (DSC-W130 only) (page 58).
- When the Face Detection function is not used, the flash does not strobe to reduce the red-eye phenomenon even when [Auto] is selected.

Color Mode: Changing the vividness of the image or adding special effects

You can change the brightness of the image, accompanied by effects.

✓	(Normal)	Sets the image to standard color.
	(Vivid)	Sets the image to bright and deep color.

	(Sepia)	Sets the image to sepia color.
	(B & W)	Sets the image to black and white.

- You can select only [Normal], [Sepia] or [B & W] when shooting movies.

SteadyShot: Selecting the anti-blur mode (DSC-W120/W125/W130 only)

Selects the anti-blur mode.

✓	(Shooting)	Activates the anti-blur function when pressing the shutter button halfway down.
	(Continuous)	Always activates the anti-blur function. You can stabilize images even when zooming up a far subject. • Battery consumption is faster than in [Shooting] mode.
	(Off)	Does not use anti-blur mode.

- In Auto Adjustment mode or Easy Shooting mode, [SteadyShot] is set to [Shooting].
- For movies, you can set [Continuous] or [Off] only.
  The default setting is set to [Continuous].
- The anti-blur function may not work properly in the following cases.
  – When camera shake is too strong.
  – When the shutter speed is slow, for example, shooting night scenes.

(Shooting Settings): Selecting the shooting settings

Selects the settings for the shooting function. The items appearing in this menu are the same ones as those in [Shooting Settings] on the HOME screen. See pages 42, 69.

Viewing menu

This section explains the menu items available when you press MENU button in playback mode. For details on how to use the menu, see page 43.

(Delete): Deleting images

Selects and deletes images on the single-image screen or the index screen, see page 39.

(This Image)	Deletes the image that is now selected.
(Multiple Images)	Selects and deletes multiple images.
(All In This Folder)	Deletes all the images in the selected folder.

(Slideshow): Playing back a series of images

This item has the same function as pressing (Slideshow) button.
See page 36.

(Retouch): Retouching still images (DSC-W130 only)

Adds effects or makes corrections to a recorded image and records it as a new file. The original image is retained.

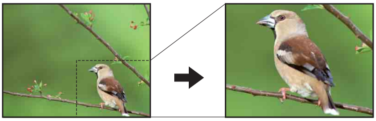
To retouch the still images

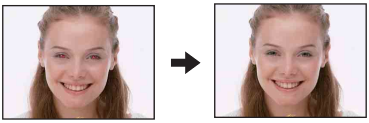
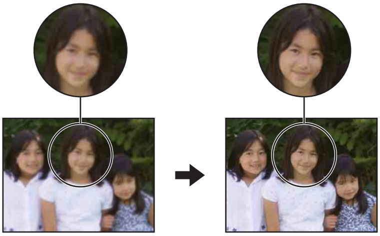
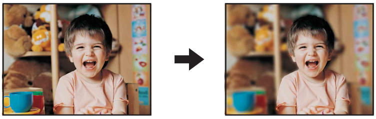
① Select the images you want to retouch while displaying in single-image mode.

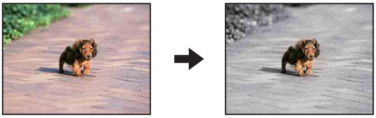
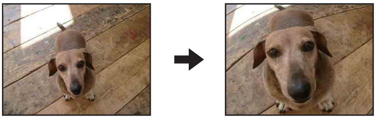
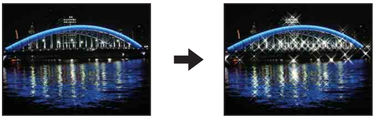
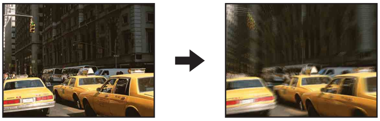
② Press MENU button.

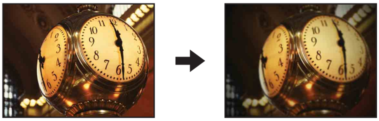
③ Select the [Retouch] with ▲/▼ on the control button, then press ● after selecting the desired mode with ◀/▶.

④ Retouch the images following the instructions for each retouching mode below.

(Trimming)	Records the zoomed playback image.  ① Press W/T to zoom in on the trimming range. ② Set the point with ▲/▼/◀/▶, then press MENU button. ③ Select [Image Size] with ▲/▼, then press ●. Select an image size to record with ▲/▼, then press ● again. ④ Select [OK] with ▲/▼, then press ●. • The image size that you can trim may vary depending on the image. • The quality of trimmed images may deteriorate.

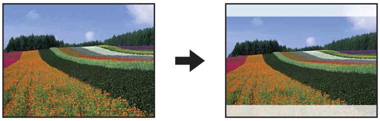
(Red Eye Correction)	Corrects the red-eye phenomenon caused by flash.  Select [OK] with ▲/▼, then press ●. • You may not be able to correct the red-eye phenomenon depending on the image.
(Unsharp masking)	Sharpens the image within a chosen frame.  ① Decide the area (frame) of the desired image to retouch with ▲/▼/◀/▶, then press MENU button. ② Select [OK] with ▲/▼, then press ●. • Depending on the image, sufficient correction may not be applied, and the image quality may deteriorate.
(Soft Focus)	Blurs the periphery around a chosen point to emphasize a subject.  ① Set the center point of the desired image to retouch with ▲/▼/◀/▶, then press MENU button. ② Select [Level] with ▲/▼ and press ●. Select level of retouch with ▲/▼, then press ● again. ③ Adjust the desired range to retouch with W/T. ④ Select [OK] with ▲/▼, then press ●.

(Partial Color)	Surrounds a chosen point in monochrome to signalize a subject.  ① Set the center point of the desired image to retouch with ▲/▼/◀/▶, then press MENU button. ② Adjust the desired range to retouch with W/T. ③ Select [OK] with ▲/▼, then press ●.
(Fisheye Lens)	Applies a fisheye effect around a chosen point.  ① Set the center point of the desired image to retouch with ▲/▼/◀/▶, then press MENU button. ② Select [Level] with ▲/▼ and press ●. Select level of retouch with ▲/▼, then press ● again. ③ Select [OK] with ▲/▼, then press ●.
(Cross Filter)	Adds starburst effects to light sources.  ① Select [Level] with ▲/▼ and press ●. Select level of retouch with ▲/▼, then press ● again. ② Adjust the desired length to retouch with W/T. ③ Select [OK] with ▲/▼, then press ●.
(Radial Blur)	Decides the center point for expressing movement in the still image.  ① Set the center point of the desired image to retouch with ▲/▼/◀/▶, then press MENU button. ② Adjust the desired range to retouch with W/T. ③ Select [OK] with ▲/▼, then press ●.

(Retro)	Softens the image by blurring the focus and lowering the surrounding light so that it appears as if it was taken by an old camera.  ① Select [Level] with ▲/▼, then press ●. Select level of retouch with ▲/▼, then press ● again. ② Adjust the desired range to retouch with W/T. ③ Select [OK] with ▲/▼, then press ●.

(Multi-Purpose Resize): Changing the image size according to usage (DSC-W130 only)

You can change the aspect ratio and size of the shooting images, then record them as the new files.
You can convert images to the 16:9 aspect ratio for high definition viewing and to the VGA size for blog or e-mail attachments.

HDTV ()	Changes the aspect ratio from 4:3/3:2 to 16:9 and saves as 2M size. 
Blog/E-mail ()	Changes the aspect ratio from 16:9/3:2 to 4:3 and saves as VGA size.

① Display the desired image to be changed.

② Press MENU button, then select (Multi-Purpose Resize) with ▲/▼ on the control button.

③ Select the desired size with ◀/▶, then press ●.

④ Specify the area you want to trim with W/T.

⑤ Set the point with ▲/▼/◀/▶, then press MENU button.

⑥ Select [OK] with ▲/▼, then press ●.

- For details about the image size, see pages 12, 13.
- You cannot resize movies.
- You cannot resize the images from VGA to HD (HDTV).
- Enlarging the image and multi resizing can reduce the image quality.

(Protect): Preventing accidental erasure

Protects images against accidental erasure. The O┐ indicator appears on a protected image.

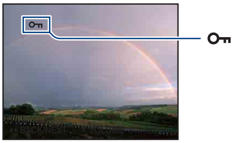
(This Image)	Protects/unlocks the currently selected image.
(Multiple Images)	Selects and protects/unlocks multiple images.

To protect an image

① Select the images you want to protect while displaying images in single-image mode.

② Press MENU button.

③ Select [Protect] with ▲/▼ on the control button, [This Image] with ◀/▶, and then press ●.



To select and protect images

① Press MENU button in single-image mode or in index mode.

② Select [Protect] with ▲/▼, and select [Multiple Images] with ◀/▶, then press ●.

In single-image mode:

③ Select the image you want to protect with ◀/▶, then press ●.
The ✓ is attached to the selected image.

④ Press ◀/▶ to display other images you want to protect, then press ●.

⑤ Press MENU button.

⑥ Select [OK] with ▲, then press ●.

In index mode:

③ Select the image you want to protect with ▲/▼/◀/▶, then press ●.
The ✓ is attached to the selected image.

④ To protect other images, repeat step ③.

⑤ To select all the images in a folder, select the folder selection bar with ◀, then press ●.
The ✓ is attached to the selected folder.

⑥ Press MENU button.

⑦ Select [OK] with ▲, then press ●.

- Note that the formatting erases all the data stored on the recording media, even if the images are protected, and these images cannot be restored.
- It may take some time to protect an image.

To cancel the protection

Select the image for which you want to cancel protection, and unlock it by performing the same procedure to protect it.
The 🔑 (Protect) indicator disappears.

DPOF: Adding a Print order mark

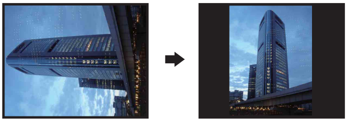
Adds a print order mark (DPOF) to the image you want to print.
See page 102.

DPOF☑ (This Image)	Attaches a DPOF mark to the image being selected now. Clears the DPOF mark when the selected image has a DPOF mark.
DPOF☑ (Multiple Images)	Selects images and attaches DPOF marks to them. Clears DPOF marks already attached.

(Print): Printing images using a printer

Printing images shot with the camera.
See page 99.

(Rotate): Rotating a still image



Rotates a still image.

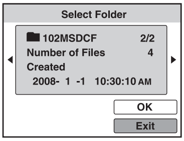
① Display the image to be rotated.
② Press MENU button to display the menu.
③ Select [Rotate] with ▲/▼ on the control button, then press ●.
④ Select [↶ ↷], then rotate the image with ◀/▶.
⑤ Select [OK] with ▲/▼, then press ●.

- You cannot rotate protected images or movies.
- You may not be able to rotate images shot with other cameras.
- When viewing images on a computer, the image rotation information may not be reflected depending on the software.

(Select Folder): Selecting the folder for viewing images

Selects the folder containing the image you want to play back when using the camera with a “Memory Stick Duo”.

① Select the desired folder with ◀/▶ on the control button.



Select Folder

102MSDCF 2/2
Number of Files 4
Created
2008- 1 -1 10:30:10 AM

② Select [OK] with ▲, then press ●.

To cancel selecting the folder

Select [Exit] in step ②, then press ●.

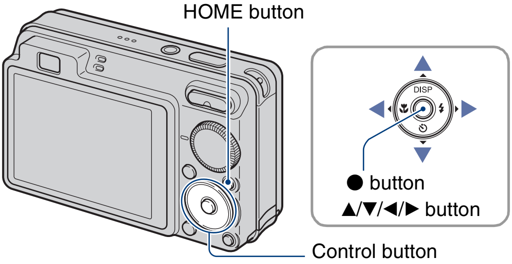
On the folders

The camera stores images in a specified folder of a “Memory Stick Duo”. You can change the folder or create a new one.

- To create a new folder → [Create REC. Folder] (page 66)
- To change the folder for recording images → [Change REC. Folder] (page 67)
- When multiple folders are created in the “Memory Stick Duo” and the first or last image in the folder is displayed, the following indicators appear.
  ↵: Moves to the previous folder
  ↳: Moves to the next folder
  ↵↳: Moves to either the previous or next folders

Customizing the Manage Memory feature and the Settings

You can change the default settings using (Manage Memory) or (Settings) on the HOME screen.

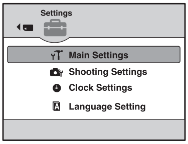

HOME button
DISP
● button
▲/▼/◀/▶ button
Control button

---

1 Press HOME button to display the HOME screen.

---

2 Select (Manage Memory) or (Settings) with ◀/▶ on the control button.

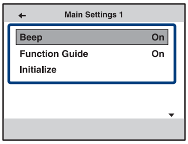

Settings
Main Settings
Shooting Settings
Clock Settings
Language Setting

---

3 Select an item with ▲/▼, then press ●.

---

4 Select the desired setting with ▲/▼, then press ●.



Main Settings 1

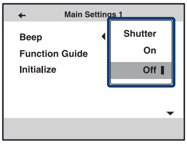
Beep On

Function Guide On

Initialize

- HOME screen is displayed by pressing ◀.

5 Select a setting with ▲/▼, then press ●.


Main Settings 1
Beep
Function Guide
Initialize
Shutter
On
Off

To cancel the setting change

Select [Cancel] if it is shown as an option on the screen, then press ●.
If not, press ◀.

- This setting is maintained even when the power is turned off.
- The camera is set to the shooting or viewing mode by pressing HOME button again.

Memory Tool — Memory Stick Tool

This item appears only when a “Memory Stick Duo” is inserted in the camera.

Format

Formats the “Memory Stick Duo”. A commercially available “Memory Stick Duo” is already formatted, and can be used immediately.

- Note that formatting permanently erases all data on a “Memory Stick Duo”, including even protected images.

① Select [Format] with ▲/▼ on the control button, then press ●.
The message “All data on Memory Stick will be erased” appears.

② Select [OK] with ▲, then press ●.
Formatting starts.

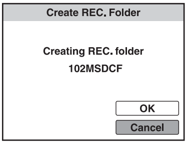
To cancel formatting

Select [Cancel] in step ②, then press ●.

Create REC. Folder

Creates a folder in a “Memory Stick Duo” for recording images.

① Select [Create REC. Folder] with ▲/▼ on the control button, then press ●.
The folder creation screen appears.



Create REC. Folder

Creating REC. folder
102MSDCF

② Select [OK] with ▲, then press ●.
A new folder is created with a number incremented one higher than the largest number, and the folder becomes the current recording folder.

To cancel the folder creation

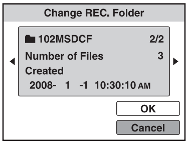
Select [Cancel] in step ②, then press ●.

- When not creating a new folder, the “101MSDCF” folder is selected as the recording folder.
- You can create folders designated up to “999MSDCF”.
- You cannot delete a folder with the camera. To delete a folder, use your computer, etc.
- Images are recorded in the newly created folder until you create another folder or select another recording folder.
- Up to 4,000 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.
- For details, see “Image file storage destinations and file names” (page 89).

Change REC. Folder

Changes the folder currently used for recording images.

① Select [Change REC. Folder] with ▲/▼ on the control button, then press ●.
The folder selection screen appears.



Change REC. Folder
102MSDCF 2/2
Number of Files 3
Created
2008- 1 -1 10:30:10 AM

② Select the desired folder with ◀/▶, and [OK] with ▲, then press ●.

To cancel changing the recording folder

Select [Cancel] in step ②, then press ●.

- You cannot select the “100MSDCF” folder as a recording folder.
- You cannot move recorded images to another folder.

Copy

Copies all images in the internal memory to a “Memory Stick Duo”.

① Insert a “Memory Stick Duo” having sufficient free capacity.

② Select [Copy] with ▲/▼ on the control button, then press ●.
The message “All data on internal memory will be copied” appears.

③ Select [OK] with ▲, then press ●.
Copying starts.

To cancel copying

Select [Cancel] in step ③, then press ●.

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- You cannot select images to copy.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick Duo” after copying, then format the internal memory ([Format] in [Internal Memory Tool]) (page 68).
- A new folder is created on the “Memory Stick Duo” and all the data will be copied to it. You cannot choose a specific folder and copy images to it.
- The **DPOF** (Print order) marks on the images are not copied.

Memory Tool — Internal Memory Tool

This item does not appear when a “Memory Stick Duo” is inserted in the camera.

Format

Formats the internal memory.

- Note that formatting permanently erases all data in the internal memory, including even protected images.

① Select [Format] with ▲/▼ on the control button, then press ●.
The message “All data on internal memory will be erased” appears.

② Select [OK] with ▲, then press ●.
Formatting starts.

To cancel formatting

Select [Cancel] in step ②, then press ●.

Main settings — Main Settings 1

The default settings are marked with ✓.

Beep

Selects the sound produced when you operate the camera.

	Shutter	Turns on the shutter sound when you press the shutter button.
✓	On	Turns on the beep/shutter sound when you press the control/ shutter button.
	Off	Turns off the beep/shutter sound.

Function Guide

When you operate the camera, the function guide appears.

✓	On	Displays the function guide.
	Off	Does not display the function guide.

Initialize

Initializes the setting to the default setting. Even if you execute this function, the images stored in the internal memory are retained.

① Select [Initialize] with ▲/▼ on the control button, then press ●.
The message “Reset to default settings” appears.

② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.

To cancel initializing

Select [Cancel] in step ②, then press ●.

- Be sure not to power off the camera while initializing.

Main settings — Main Settings 2

The default settings are marked with ✓.

USB Connect

Selects the USB mode when connecting the camera to a computer or a PictBridge compliant printer using the cable for multi-use terminal.

✓	Auto	The camera recognizes automatically and sets up communication with a computer or PictBridge compliant printer (pages 87 and 99). • If you cannot connect the camera to a PictBridge compliant printer with the [Auto] setting, select [PictBridge]. • If you cannot connect the camera to a computer or a USB device with the [Auto] setting, select [Mass Storage].
	PictBridge	Connects the camera to a PictBridge compliant printer (page 99).
	PTP/MTP	When you connect the camera to a computer, the copy wizard starts automatically, and the images in the recording folder on the camera are copied to the computer. (with Windows Vista/ XP, Mac OS X)
	Mass Storage	Establishes a Mass Storage connection between the camera and a computer or other USB device (page 87).

COMPONENT

Selects the video signal output type from SD and HD(1080i), according to the TV connected (page 78).

✓	HD(1080i)	Select this item to connect the camera to a 1080i-capable High Definition TV.
	SD	Select this item to connect the camera to a TV that is not compatible with an HD(1080i) signal.

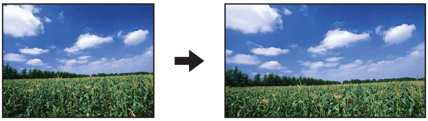
Video Out

Sets the video signal output according to the TV color system of the connected video equipment. The TV color systems differ depending on the country and region.
To view images on a TV screen, check the TV color system of the country or region of use (page 80).

NTSC	Sets the video output signal to NTSC mode (e.g., for the USA, Japan).
PAL	Sets the video output signal to PAL mode (e.g., for Europe).

Wide Zoom Display

During playback on High Definition TV, still images at a 4:3 and 3:2 aspect ratio are played at a 16:9 aspect ratio. In this case the top and bottom of the image will be slightly cropped.

	On	Plays at a 16:9 aspect ratio. 
✓	Off	Does not use Wide Zoom Display.

- The only images that can be played in Wide Zoom are 4:3 and 3:2 images. Movies, 16:9 images, and portrait images cannot be zoomed.
- The image displayed on the LCD screen of the camera does not change.

Shooting Settings — Shooting Settings 1

The default settings are marked with ✓.

AF Illuminator

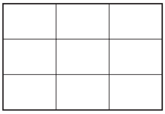
The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The AF illuminator emits red light allowing the camera to focus easily when the shutter button is pressed halfway, until the focus is locked. The ◗ON indicator appears at this time.

✓	Auto	Uses the AF illuminator.
	Off	Does not use AF illuminator.

- If the AF illuminator light does not reach the subject sufficiently or the subject has no contrast, focus will not be achieved. (A distance of up to approximately 2.5 m (8 feet 2 1/2 inches) (zoom: W)/1.5 m (4 feet 11 1/8 inches) (zoom: T) is recommended.)
- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use the AF illuminator when:
  - Semi manual is set (page 52).
  - ⛰ (Landscape) mode, ☽ (Twilight) mode or ❋ (Fireworks) mode is selected in the Scene Selection mode.
- When you use AF illuminator, the normal AF range finder frame is disabled and new AF range finder frame is displayed by a dotted line. AF operates with priority on subjects located near the center of the frame.
- The AF illuminator emits very bright light. Although there is no health hazard, do not look directly into the AF illuminator emitter at close range.

Grid Line

With reference to the grid lines, you can easily set a subject in a horizontal/vertical position.

	On	Displays the grid lines. 
✓	Off	Does not display the grid lines.

- The grid lines are not recorded.

AF Mode

Selects the auto focus operation mode.

✓	Single	Automatically adjusts the focus when you press and hold the shutter button halfway down. This mode is useful for shooting stationary subjects.
	Monitor	Automatically adjusts the focus before you press and hold the shutter button halfway down. This mode shortens the time needed for focusing. • Battery consumption is faster than in [Single] mode.

- AF mode setting is invalid when the Face Detection function or the Smile Detection function is activated.
- When using Semi manual, auto focus operates the same as in [Single] mode.

Digital Zoom

Selects the digital zoom mode. The camera enlarges the image using optical zoom (up to 4×). When the zoom scale exceeds 4×, the camera uses either smart or precision digital zoom.

✓	Smart (Smart zoom) (s🔍)	Enlarges the image digitally within the range where the image will not be distorted, according to the image size. This is not available when: – The image size is set to [8M], [3:2 (7M)] or [16:9 (6M)] (DSC-W130 only). – The image size is set to [7M], [3:2 (6M)] or [16:9 (5M)] (DSC-W110/W115/W120/W125 only). • The total zoom scale of Smart zoom is shown in the following table.
	Precision (Precision digital zoom) (P🔍)	Enlarges all image sizes by the total zoom scale of approximately 8×, including the optical zoom 4×. However, note that the picture quality deteriorates when the optical zoom scale is exceeded.
	Off	Does not use the digital zoom.

Image size and total zoom scale using Smart zoom (Including optical zoom 4×)

Size	Total zoom scale	
	DSC-W130	DSC-W110/W115/W120/W125
5M	Approx. 5.0×	Approx. 4.7×
3M	Approx. 6.4×	Approx. 6.0×
VGA	Approx. 20×	Approx. 19×
16:9 (2M)	Approx. 6.8×	Approx. 6.4×

- You cannot use the Digital zoom when:
  - ☺ (Smile Shutter) mode is selected in the Scene Selection mode.
  - The LCD screen is off.

Conversion Lens

Sets for achieving appropriate focus when attaching a conversion lens (not supplied). Attach the lens adaptor (not supplied), then attach a conversion lens.

	Tele (D_T)	Attaches a tele conversion lens.
	Wide (D_W)	Attaches a wide conversion lens.
✓	Off	Does not attach a lens.

- When using the built-in flash, the flash light may be blocked, causing the shadow to appear.
- Check the image composition on the LCD screen when shooting.
- The macro setting is fixed to [Auto].
- The available zoom area is limited.
- The available focusing area is limited.
- AF illuminator does not emit light.
- You cannot select semi manual.
- Refer also to the operating instructions supplied with your conversion lens.
- If you shoot images with conversion lens (not supplied), the camera may also focus on close subjects in ▲ (Landscape) mode and ☽ (Twilight) mode.
- If you shoot images with conversion lens (not supplied), you may not be able to record fireworks in all splendor.

Shooting Settings — Shooting Settings 2

The default settings are marked with ✓.

Auto Orientation (DSC-W120/W125/W130 only)

When the camera is rotated to shoot a portrait (vertical) image, the camera records its position change and displays the image in the portrait position.

✓	On	Records the image with the correct orientation.
	Off	Does not use Auto Orientation.

- Black is displayed to the left and right of vertical orientation images.
- Depending on the shooting angle of the camera, the orientation of the image may not be recorded correctly. If an image is not recorded in the correct orientation, you can rotate the image, following the procedure on page 62.

Auto Review

Displays the recorded image on the screen for approximately two seconds immediately after shooting a still image.

✓	On	Uses the Auto Review.
	Off	Does not use Auto Review.

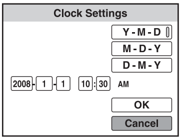
- If you press the shutter button halfway down, the recorded image display disappears and you can immediately shoot the next image.

Clock Settings

Clock Settings

Sets the date and time.

① Select [Clock Settings] from (Settings) on the HOME screen.



2008-1-1 10:30 AM

② Press ● on the control button.

③ Select the date display format with ▲/▼ on the control button, then press ●.

④ Select each item with ◀/▶ and set the numeric value with ▲/▼, then press ●.

⑤ Select [OK], then press ●.

- Midnight is indicated as 12:00 AM, and noon as 12:00 PM.

To cancel the clock setting

Select [Cancel] in step ⑤, then press ●.

A Language Setting

Language Setting

Selects the language to be used in the menu items, warnings and messages.

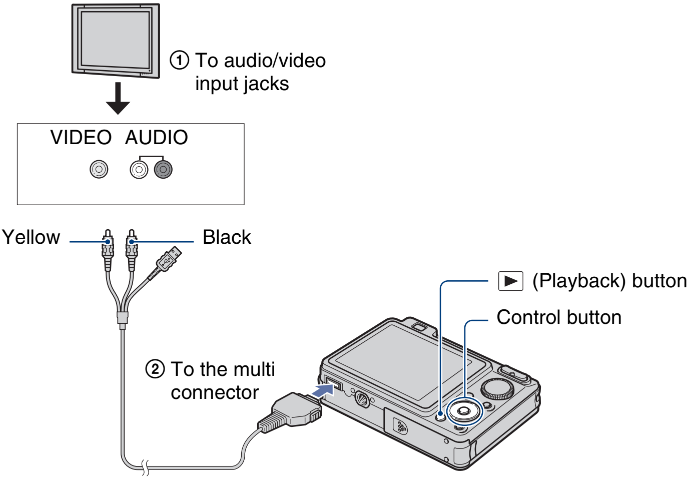
Viewing images on a TV

You can view images on a TV by connecting the camera to a TV.
The connection varies according to the type of TV the camera is connected to.

Viewing images by connecting the camera to a TV with the supplied cable for multi-use terminal

Turn off both the camera and the TV before connecting the camera to the TV.

1 Connect the camera to the TV with the cable for multi-use terminal (supplied).


① To audio/video input jacks
VIDEO
AUDIO
Yellow
Black
▶ (Playback) button
Control button
② To the multi connector

- If your TV has stereo input jacks, connect the audio plug (black) of the cable for multi-use terminal to the left audio jack.

2 Turn on the TV and set the input.

- Refer also to the operating instructions supplied with the TV.

3 Press ▶ (Playback) button to turn on the camera.

Images shot with the camera appear on the TV.

Press ◀/▶ on the control button to select the desired image.

- When using the camera abroad, it may be necessary to switch the video signal output to match that of your TV system (page 71).

Viewing an image by connecting the camera to an HDTV

You can view an image with high quality* recorded on the camera by connecting the camera to an HD (High Definition) TV with the component cable (not supplied).

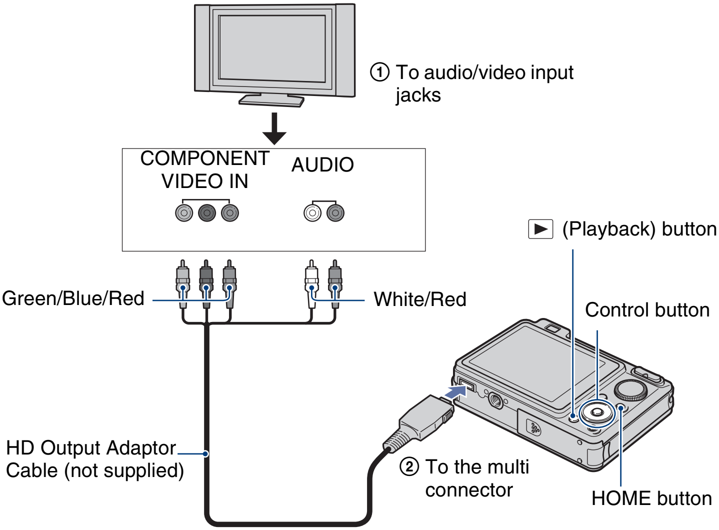
Turn off both the camera and the TV before connecting the camera to the TV.

* Images shot in [VGA] image size cannot be played back in HD format.

- In [Wide Zoom Display], still images with an aspect of 4:3 or 3:2 can be displayed with an aspect of 16:9 (page 71).
- With [Multi-Purpose Resize], the aspect ratio can be converted to 16:9 for high definition viewing (page 60).

---

1 Connect the camera to an HD (High Definition) TV with a HD Output Adaptor Cable (not supplied).


① To audio/video input jacks
COMPONENT VIDEO IN
AUDIO
▶ (Playback) button
Green/Blue/Red
White/Red
Control button
HD Output Adaptor Cable (not supplied)
② To the multi connector
HOME button

---

2 Turn on the TV and set the input.

- Refer also to the operating instructions supplied with the TV.

---

3 Press ▶ (Playback) button to turn on the camera.

Images shot with the camera appear on the TV.

Press ◀/▶ on the control button to select the desired image.

- Set [COMPONENT] to [HD(1080i)] in [Main Settings 2] by selecting 🧰 (Settings) on the HOME screen (page 70).
- When using the camera abroad, it may be necessary to switch the video signal output to match that of your TV system (page 71).
- You cannot view movies output in [HD(1080i)] signal format. Set [COMPONENT] to [SD] when viewing movies.

On “PhotoTV HD”

This camera is compatible with the “PhotoTV HD” standard.
By connecting Sony’s PhotoTV HD-compatible devices using an HD output adaptor cable (not supplied), whole new world of photos can be comfortably enjoyed in breathtaking Full HD quality.
PhotoTV HD allows for a highly-detailed, photo-like expression of subtle textures and colors.

- The settings are also required to be made on the TV. For details, refer to the operating instruction of the TV.

On TV color systems

If you want to view images on a TV screen, you need a TV with a video input jack and the cable for multi-use terminal. The color system of the TV must match that of the digital still camera. Check the following lists for the TV color system of the country or region where the camera is used.

NTSC system

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

PAL system

Australia, Austria, Belgium, China, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, United Kingdom, etc.

PAL-M system

Brazil

PAL-N system

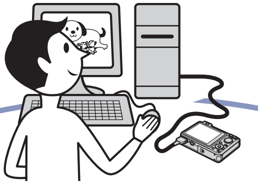
Argentina, Paraguay, Uruguay

SECAM system

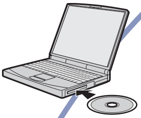
Bulgaria, France, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.

Enjoying your Windows computer

For details on using a Macintosh computer, refer to “Using your Macintosh computer” (page 95).
Illustrations of screens used in this section are based on the English version.

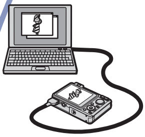


Install the software (supplied) first (page 83)



- Installing the software as follows:
  - “Picture Motion Browser”
  - “Music Transfer”

Copying images to your computer (page 87)



- Copying images to your computer using “Picture Motion Browser”.
- Enjoying images using “Picture Motion Browser” and “Music Transfer” as follows:
  - Viewing images saved on your computer
  - Editing images
  - Displaying the shooting locations of still images on maps online
  - Creating a disc with the images shot (requires CD or DVD disc writing drive)
  - Printing or saving still images with the date
  - Adding/changing Music for slideshow (using “Music Transfer”)

Additional information on this product and answers to frequently asked questions can be found at the Sony Customer Support Website.
http://www.sony.net/

Recommended computer environment

The following environment is recommended for a computer connected to the camera.

Recommended environment for copying images

OS (pre-installed): Microsoft Windows 2000 Professional SP4, Windows XP* SP2, Windows Vista*

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.

USB jack: Provided as standard

Recommended environment for using "Picture Motion Browser" and "Music Transfer"

OS (pre-installed): Microsoft Windows 2000 Professional SP4, Windows XP* SP2, Windows Vista*

CPU: Intel Pentium III 500 MHz or faster (Recommended: Intel Pentium III 800 MHz or faster)

Memory: 256 MB or more (Recommended: 512 MB or more)

Hard Disk: Disk space required for installation — approximately 400 MB

Display: Screen resolution: 1,024 × 768 dots or more

* 64-bit editions and Starter (Edition) are not supported.

Notes on connecting the camera to a computer

- The computer environment must also satisfy the operating requirements of the OS.
- Operations are not guaranteed for all the recommended computer environments mentioned above.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate, depending on the types of USB devices you are using.
- Operations are not guaranteed when using a USB hub.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0 compliant) allows advanced transfer (high speed transfer) as the camera is compatible with Hi-Speed USB (USB 2.0 compliant).
- There are four modes for a USB connection when connecting a computer, [Auto] (default setting), [Mass Storage], [PictBridge] and [PTP/MTP] modes. This section describes the [Auto] and [Mass Storage] as examples. For details on [PictBridge] and [PTP/MTP], see page 70.
- When your computer resumes from a suspend or sleep mode, communication between the camera and your computer may not recover at the same time.

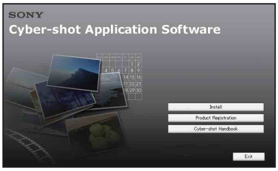
Installing the software (supplied)

You can install the software (supplied) using the following procedure.

- Log on as Administrator.

1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

The installation menu screen appears.



- If it does not appear, double-click [Computer] (in Windows XP/2000, [My Computer]) → (SONYPICTUTIL).
- Under Windows Vista, the AutoPlay screen may appear. Select "Run Install.exe." and follow the instructions that appear on the screen to proceed with the installation.

2 Click [Install].

The "Choose Setup Language" screen appears.

3 Select the desired language, then click [Next].

The "License Agreement" screen appears.

4 Read the agreement carefully. If you accept the terms of the agreement, click the radio button next to [I accept the terms of the license agreement] and then click [Next].

5 Follow the instructions on the screen to complete the installation.

- When the restarting confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on the system environment of your computer.

6 Remove the CD-ROM after the installation is complete.

- Installing software as follows:
  - Picture Motion Browser
  - Music Transfer

<table>
<tr><td colspan="2">After you install the software, the short cut icons for “Picture Motion Browser”, “PMB Guide”, “Music Transfer” are created on the desktop.</td></tr>
<tr><td>PMB - Picture Motion Browser</td><td>Double-click to start “Picture Motion Browser”.</td></tr>
<tr><td>PMB Guide</td><td>Double-click to start “PMB Guide”.</td></tr>
<tr><td>Picture Packag...</td><td>Double-click to start “Music Transfer”.</td></tr>
</table>

On the “Picture Motion Browser” (supplied)

You can use still images and movies from the camera more than ever by taking advantage of the software.
This section summarizes the “Picture Motion Browser”.

“Picture Motion Browser” overview

With the “Picture Motion Browser” you can:

- Import images shot with the camera and display them on the computer.
- Organize images on the computer on a calendar by shooting date to view them.
- Copy images on the computer to the recording media.
- Retouch (Red Eye Correction, etc.), print, and send still images as e-mail attachments, change the shooting date and more.
- Still images can be printed or saved with the date.
- You can create a data disc using a CD burner drive or DVD burner drive.
- For details, refer to “PMB Guide”.

Starting the “PMB Guide”

Double-click the (PMB Guide) icon on the desktop.
To access “PMB Guide” from the Start menu, click [Start] → [All Programs] (in Windows 2000, [Programs]) → [Sony Picture Utility] → [Help] → [PMB Guide].

Starting and exiting the “Picture Motion Browser”

Starting the “Picture Motion Browser”

Double-click the (Picture Motion Browser) icon on the desktop.
Or, from the Start menu: Click [Start] → [All Programs] (in Windows 2000, [Programs]) → [Sony Picture Utility] → [PMB – Picture Motion Browser].

- The confirmation message of the Information tool appears on the screen when starting the “Picture Motion Browser” for the first time. Select [Start]. This function informs you of news, such as software updates. You can change the setting later.

Exiting the “Picture Motion Browser”

Click ☒ button in the top right corner of the screen.

Notes on the “Picture Motion Browser”

“Picture Motion Browser” is preset with URL of several websites. Give your consent to the following on using the image upload service, etc. (hereon after referred to as service) provided by the websites (including those preset) by using “Picture Motion Browser”.

- Depending on websites, registration procedures or fees may be required on using the service.
- Follow the terms and conditions of the agreement set by the website on using the service.
- Termination or changes in service may occur depending on certain reasons of the website operator, etc. Including these situations, Sony is not held responsible for any troubles between customers and a third party or any loss to customers on using the service.
- To view the website, you will be redirected by a server run by Sony (hereon after referred to as Sony server). You may not be able to access the website because of server maintenance, etc.

On the “Picture Motion Browser” (supplied)

- On termination of the operation of Sony server, the termination will be informed of beforehand on Sony websites, etc.
- The URL redirected to by Sony server, etc., may be recorded for improving future Sony products and services. In this case, personal data will not be recorded.

Copying images to your computer using the “Picture Motion Browser”

Preparing the camera and the computer

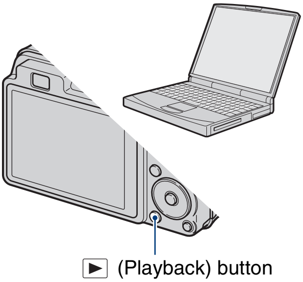
1 Insert a “Memory Stick Duo” with recorded images into the camera.

- When copying images in the internal memory, this step is unnecessary.

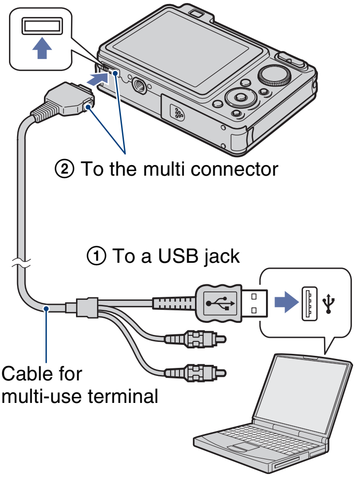
2 Insert the sufficiently charged battery pack into the camera, or connect the camera to a wall outlet (wall socket) with the AC Adaptor (not supplied) and the USB/AV/DC IN cable for multi-use terminal (not supplied).

- When you copy images to your computer using a battery pack with little remaining charge, copying may fail or image data may become corrupted if the battery pack shuts down too soon.

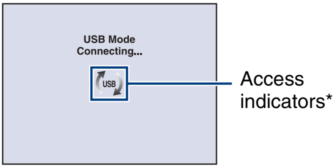
3 Turn on the computer, then press ▶ (Playback) button.



Connecting the camera to your computer



“Connecting...” appears on the screen of the camera.



USB Mode
Connecting...

When a USB connection is established for the first time, your computer automatically runs a program to recognize the camera. Wait for a while.

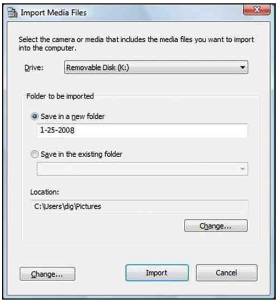
* USB is displayed on the screen during the communication session.
Do not operate the computer while the indicator is displayed. When the indicator changes to USB, you can start using the computer again.

- If “Mass Storage” does not appear, set [USB Connect] to [Mass Storage] (page 70).

Copying images to a computer

1 Connects the camera to a computer as described in "Connecting the camera to your computer".

After making a USB connection, the [Import Media Files] screen of "Picture Motion Browser" appears automatically.


Import Media Files

Select the camera or media that includes the media files you want to import into the computer.

Drive: Removable Disk (K:)

Folder to be imported

● Save in a new folder

1-25-2008

○ Save in the existing folder

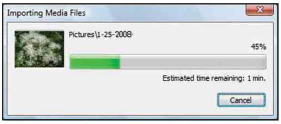
Location:

C:\Users\dig\Pictures

- If you use the Memory Stick slot, refer to page 91.
- If the AutoPlay Wizard appears, close it.

2 Import the images.

To start importing images, click the [Import] button.


Importing Media Files

Pictures\1-25-2008

45%

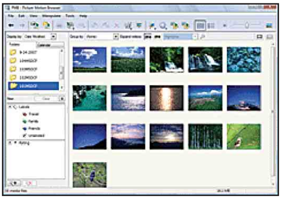
Estimated time remaining: 1 min.

By default, images are imported into a folder created in "Pictures" (in Windows XP/2000, "My Pictures") that is named with the date of importing.

- For details on the "Picture Motion Browser", refer to "PMB Guide".

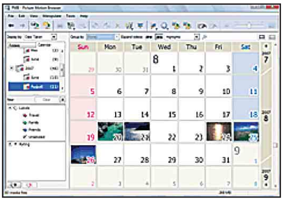
Viewing images on your computer

When importing is complete, the "Picture Motion Browser" starts. Thumbnails of the imported images are displayed.



- The "Pictures" (in Windows XP/2000, "My Pictures") folder is set as the default folder in "Viewed folders".

Organize images on the computer on a calender by shooting date to view them. For details, see the "PMB Guide".



Example: Month display screen

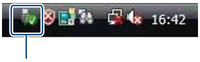
To delete the USB connection

Perform the procedures from step ① to ④ below before:

- Disconnecting the cable for multi-use terminal.
- Removing a "Memory Stick Duo".
- Inserting a "Memory Stick Duo" into the camera after copying images from the internal memory.
- Turning off the camera.

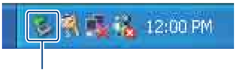
① Double-click the disconnect icon on the tasktray.

Windows Vista



Double-click here

Windows XP/Windows 2000



Double-click here

② Click (USB Mass Storage Device) → [Stop].

③ Confirm the device on the confirmation window, then click [OK].

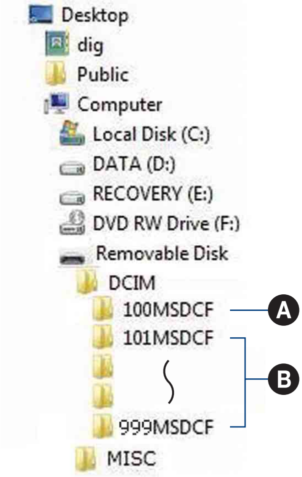
④ Click [OK].
The device is disconnected.

- Step ④ is unnecessary for Windows Vista/XP.

Image file storage destinations and file names

The image files recorded with the camera are grouped as folders on the "Memory Stick Duo" or the internal memory.

Example: viewing folders on Windows Vista



Ⓐ Folder containing image data recorded using a camera not equipped with the folder creating function.

Ⓑ Folder containing image data recorded using the camera.
When no new folders are created, there are folders as follows:
  - "Memory Stick Duo": "101MSDCF" only
  - Internal memory: "101_SONY" only

- You cannot record any images to the "100MSDCF" folder. The images in this folder are available only for viewing.
- You cannot record/play back any images to the "MISC" folder.

- Image files are named as follows:
  - Still image files: DSC0□□□□.JPG
  - Movie files: MOV0□□□□.MPG
  - Index image files that are recorded when you record movies: MOV0□□□□.THM

    □□□□ stands for any number within the range from 0001 to 9999. The numerical portions of the name of a movie file recorded in movie mode and its corresponding index image file are the same.
- For more information about folders, see pages 63 and 66.

Copying images to a computer without "Picture Motion Browser"

You can copy images to your computer without "Picture Motion Browser" as follows.

For a computer with a Memory Stick slot:

Remove the "Memory Stick Duo" from the camera and insert it in the Memory Stick Duo Adaptor. Insert the Memory Stick Duo Adaptor in the computer and copy the images.

- Even when you are using Windows 95/98/98 SecondEdition/NT/Me, you can copy images by inserting the "Memory Stick Duo" into the Memory Stick slot on your computer.
- If the "Memory Stick PRO Duo" is not recognized, see page 110.

For a computer without a Memory Stick slot:

Make a USB connection and follow Stages to copy images.

- The screen displays shown in this section are the examples for copying images from "Memory Stick Duo".
- The camera is not compatible with Windows 95/98/98 SecondEdition/NT/Me of the Windows operating system.
  When you use a computer without a Memory Stick slot, use a commercially available Memory Stick Reader/Writer to copy images from a "Memory Stick Duo" to your computer.
  To copy images in the internal memory to your computer, copy the images to a "Memory Stick Duo" first, then copy them to your computer.

Copying images to a computer –Windows Vista/XP

This section describes an example of copying images to the "Documents" (For Windows XP: "My Documents").

1 Prepare the camera and a computer.

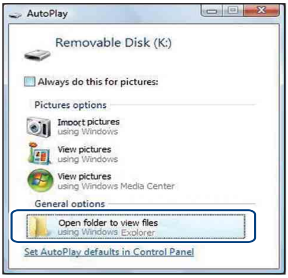
Perform the same procedure as described in "Preparing the camera and the computer" on page 87.

2 Connect the camera to your computer with the cable for multi-use terminal.

Perform the same procedure as described in "Connecting the camera to your computer" on page 87.

- If "Picture Motion Browser" is already installed, then [Import Media Files] is started on "Picture Motion Browser" but select [Cancel] to finish.

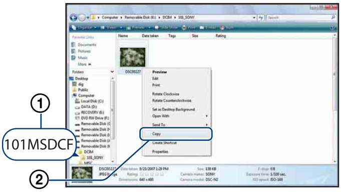
3 Click [Open folder to view files] (For Windows XP: [Open folder to view files] → [OK]) as the wizard screen appears automatically on the desktop.


AutoPlay
Removable Disk (K:)
☐ Always do this for pictures:
Pictures options
Import pictures
using Windows
View pictures
using Windows
View pictures
using Windows Media Center
General options
Open folder to view files
using Windows Explorer
Set AutoPlay defaults in Control Panel

- When the wizard screen does not appear automatically, follow the procedure: → "For Windows 2000".

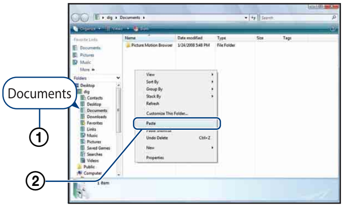
4 Double-click [DCIM].

5 Double-click the folder where the image files you want to copy are stored. Then, right-click an image file to display the menu and click [Copy].


①
101MSDCF
②

- On the storage destination of the image files, see page 89.

6 Click the [Documents] (For Windows XP: [My Documents]) folder. Then, right-click on the "Documents" window to display the menu and click [Paste].


Documents
①
②

The image files are copied to the [Documents] (For Windows XP: [My Documents]) folder.

- When an image with the same file name exists in the copy destination folder, the overwrite confirmation message appears. When you overwrite an existing image with a new one, the original file data is deleted. To copy an image file to the computer without overwriting, change the file name and then copy the image file. However, note that if you change the file name (page 93), you may not play back that image with the camera.

For Windows 2000

Double-click [My Computer] → [Removable Disk] after connecting the camera to your computer. Then, perform from step 4.

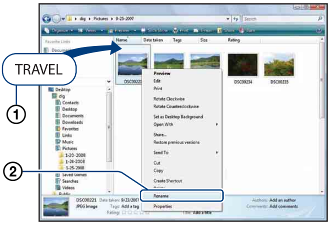
Viewing image files stored on a computer with the camera copying to the “Memory Stick Duo”

This section describes the process using a Windows computer as an example.
When an image file copied to a computer no longer remains on a “Memory Stick Duo”, you can view that image again on the camera by copying the image file on the computer to a “Memory Stick Duo”.

- Skip step 1 if the file name set with the camera has not been changed.
- You may not able to play back some images depending on the image size.
- Sony does not guarantee playback of image files on the camera if the files have been processed using a computer or recorded with another camera.
- When there are no folders in a “Memory Stick Duo”, create a folder (page 66) with the camera first, then copy the image files.

1 Right-click the image file, then click [Rename]. Change the file name to “DSC0□□□□”.

Enter a number from 0001 to 9999 for □□□□.


TRAVEL
①
②
Preview
Edit
Print
Rotate Clockwise
Rotate Counterclockwise
Set as Desktop Background
Open With
Share...
Restore previous versions
Send To
Cut
Copy
Create Shortcut
Rename
Properties

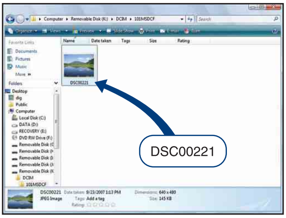
- If the overwrite confirmation message appears, enter a different number.
- An extension may be displayed depending on the computer settings. The extension for still images is JPG, and the extension for movies is MPG. Do not change the extension.

2 Copy the image file to the “Memory Stick Duo” folder in the following order.

①Right-click the image file, then click [Copy].

②Double-click [Removable Disk] or [SonyMemoryStick] in [Computer] (in Windows XP, [My Computer]).

③Right-click the [□□□MSDCF] folder in the [DCIM] folder, then click [Paste].
- □□□ stands for any number within the range from 100 to 999.


Computer ▸ Removable Disk (K:) ▸ DCIM ▸ 101MSDCF
DSC00221

Using the “Music Transfer” (supplied)

You can change the Music files that are preset at the factory to the desired Music files using “Music Transfer” in the CD-ROM (supplied). You can also delete or add these files whenever you want.

Adding/Changing Music using “Music Transfer”

The music formats you can transfer with “Music Transfer” are listed below:

- MP3 files stored on the hard disk drive of your computer
- Music on CDs
- Preset-music saved on the camera

---

1 Press HOME button to display the HOME screen.

---

2 Select (Slideshow) with ◀/▶ on the control button, select [♫ Music Tool] with ▲/▼, then press ●.

---

3 Select [Download Music] with ▲/▼, then press ●.

The message “Connect to PC” appears.

---

4 Make a USB connection between the camera and your computer.

---

5 Start “Music Transfer”.

---

6 Follow the instructions on the screen to add/change Music files.

- To restore the music preset at the factory to the camera:

① Perform [Format Music] in step 3.

② Execute [Restore defaults] on “Music Transfer”.
All Music files return to the preset-music, and [Music] in the [Slideshow] menu is set to [Off].

- You can reset the Music files to the preset ones using [Initialize] (page 69), however, other settings will also be reset.
- For details on using “Music Transfer”, see the on-line help in “Music Transfer”.

Using your Macintosh computer

You can copy images to your Macintosh computer.

- "Picture Motion Browser" is not compatible with Macintosh computers.

Recommended computer environment

The following environment is recommended for a computer connected to the camera.

Recommended environment for copying images

OS (pre-installed): Mac OS 9.1/9.2/ Mac OS X(v10.1 to v10.5)

USB jack: Provided as standard

Recommended environment for using "Music Transfer"

OS (pre-installed): Mac OS X (v10.3 to v10.5)

CPU: iMac, eMac, iBook, PowerBook, Power Mac G3/G4/G5 series, Mac mini

Memory: 64 MB or more (128 MB or more is recommended)

Hard Disk: Disk space required for installation—approximately 250 MB

Notes on connecting the camera to a computer

- Operations are not guaranteed for all the recommended computer environments mentioned above.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate depending on the types of USB devices you are using.
- Operations are not guaranteed when using a USB hub.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0 compliant) allows advanced transfer (high speed transfer) as the camera is compatible with Hi-Speed USB (USB 2.0 compliant).
- There are four modes for a USB connection when connecting a computer, [Auto] (default setting), [Mass Storage], [PictBridge] and [PTP/MTP] modes. This section describes the [Auto] and [Mass Storage] as examples. For details on [PictBridge] and [PTP/MTP], see page 70.
- When your computer resumes from the suspend or sleep mode, communication between the camera and your computer may not recover at the same time.

Copying and viewing images on a computer

1 Prepare the camera and a Macintosh computer.

Perform the same procedure as described in "Preparing the camera and the computer" on page 87.

2 Connect the camera to your computer with the cable for multi-use terminal.

Perform the same procedure as described in "Connecting the camera to your computer" on page 87.

3 Copy image files to the Macintosh computer.

①Double-click the newly recognized icon → [DCIM] → the folder where the images you want to copy are stored.

②Drag and drop the image files to the hard disk icon.
The image files are copied to the hard disk.

- For details on the storage location of the images and file names, see page 89.

4 View images on the computer.

Double-click the hard disk icon → the desired image file in the folder containing the copied files to open that image file.

To delete the USB connection

Drag and drop the drive icon or the icon of the “Memory Stick Duo” to the “Trash” icon beforehand when you perform the procedures listed below, or the camera is disconnected from the computer.

- Disconnecting the cable for multi-use terminal.
- Removing a “Memory Stick Duo”.
- Inserting a “Memory Stick Duo” into the camera after copying images from the internal memory.
- Turning off the camera.

Adding/Changing Music using “Music Transfer”

You can change the Music files that are preset at the factory to the desired Music files. You can also delete or add these files whenever you want.
The music formats you can transfer with “Music Transfer” are listed below:

- MP3 files stored on the hard disk drive of your computer
- Music on CDs
- Preset-music saved on the camera

To install “Music Transfer”

- Shut down all other application software before you install “Music Transfer”.
- For installation, you need to log on as Administrator.

① Turn on your Macintosh computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

② Double-click 💿 (SONYPICTUTIL).

③ Double-click the [MusicTransfer.pkg] file in [MAC] folder.
The installation of the software starts.

To add/change Music files

See “Adding/Changing Music using “Music Transfer”” on page 94.

Technical Support

Additional information on this product and answers to frequently asked questions can be found at the Sony Customer Support Website.
http://www.sony.net/

Viewing "Cyber-shot Step-up Guide"

When you install "Cyber-shot Handbook", "Cyber-shot Step-up Guide" is also installed. "Cyber-shot Step-up Guide" further introduces how to use the camera and optional accessories.

Viewing on Windows

Double-click (Step-up Guide) on the desktop.

To access "Step-up Guide" from the Start menu, click [Start] → [All Programs] (in Windows 2000, [Programs]) → [Sony Picture Utility] → [Step-up Guide].

Viewing on Macintosh

1 **Copy the [stepupguide] folder in the [stepupguide] folder to your computer.**

2 **Select [stepupguide], [language] and then [GB] folder stored in the CD-ROM (supplied), and copy all the files in the [GB] folder to the [img] folder in the [stepupguide] folder that you copied to your computer in step 1. (Overwrite the files in the [img] folder with the files from the [GB] folder.)**

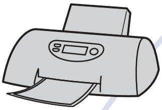
3 **After copying is complete, double-click "stepupguide.hqx" in the [stepupguide] folder to uncompress it, then double-click the generated file "stepupguide".**

- If an uncompress tool for HQX file is not installed, install the Stuffit Expander.

How to print still images

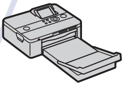
When you print images shot in [16:9] mode, both edges may be cut off, so be sure to check before printing (page 112).

Printing directly using a PictBridge compliant printer (page 99)



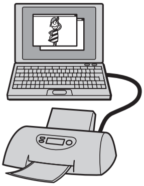
You can print images by connecting the camera directly to a PictBridge compliant printer.

Printing directly using a “Memory Stick” compliant printer



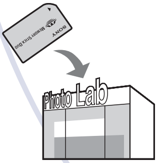
You can print images with a “Memory Stick” compliant printer. For details, see the operating instructions supplied with the printer.

Printing using a computer



You can copy images to a computer using the supplied “Picture Motion Browser” software and print the images.
You can insert the date on the image and print it (page 85).

Printing at a shop (page 102)



You can take a “Memory Stick Duo” containing images shot with the camera to a photo printing service shop. You can make a DPOF (Print order) mark on the images which you want to print out in advance.

Printing images directly using a PictBridge compliant printer

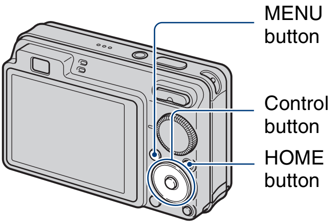
Even if you do not have a computer, you can print images shot using the camera by connecting the camera directly to a PictBridge compliant printer.

PictBridge

- "PictBridge" is based on the CIPA standard. (CIPA: Camera & Imaging Products Association)
- You cannot print movies.
- If the indicator flashes on the screen of the camera (error notification), check the connected printer.

Stage 1: Preparing the camera

Prepare the camera for connection to the printer, using the cable for multi-use terminal. When [USB Connect] is set to [Auto], the camera will automatically recognize certain printers when connected. Skip Stage 1, if this is the case.



- It is recommended to use a fully charged battery pack to prevent the power from turning off partway through printing.

1 Press HOME button to display the HOME screen.

2 Select (Settings) with ◄/► on the control button, and select [Main settings] with ▲/▼, then press ●.

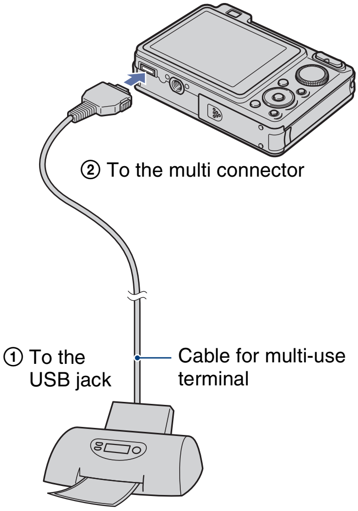
3 Select [Main Settings 2] with ▲/▼, and select [USB Connect], then press ●.

4 Select [PictBridge] with ▲/▼, then press ●.

The USB mode is set.

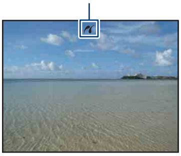
Stage 2: Connecting the camera to the printer

1 Connect the camera to the printer.

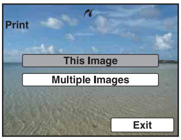


2 **Turn on the printer. Press ▶ (Playback) button and turn on the camera.**

After the connection is made, the indicator appears.



3 **Press MENU button, select [Print] with ▲/▼ on the control button, then press ●.**



The camera is set to playback mode, then an image and the print menu appear on the screen.

Stage 3: Selecting images you want to print

Select [This Image] or [Multiple Images] with ▲/▼, then press ●.

When you select [This Image]

You can print the selected image. Move on to Stage 4.

When you select [Multiple Images]

You can print multiple selected images.

① Select the image you want to print with ◀/▶, then press ●.
✓ appears on the selected image.

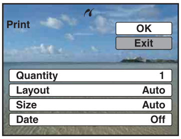
② Press MENU to display the menu.

③ Select [OK] with ▲, then press ●.

- After you select [Multiple Images] on the index screen, you can print all the images in a folder by selecting the folder selection bar with ◀ and attaching a ✓ mark on the folder.

Stage 4: Printing

1 **Select print settings with ▲/▼/◀/▶.**



Quantity 1
Layout Auto
Size Auto
Date Off

[Quantity]

Selects the number of copies of the specified image to be printed.

- The designated number of images may not all fit onto a single sheet depending on the quantity of images.

[Layout]

Selects the number of image you want to print side by side on a sheet.

[Size]

Selects the size of the printing sheet.

[Date]

Selects [Day & Time] or [Date] to insert the date and time on images.

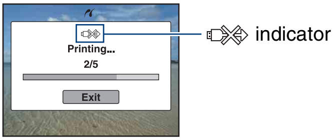
- When you choose [Date], the date will be inserted in the order you select (page 76). This function may not be provided depending on the printer.

---

2 Select [OK] with ▲, then press ●.

The image is printed.

- Do not disconnect the cable for multi-use terminal while the (PictBridge Connecting) indicator appears on the screen.



Printing...

2/5

Stage 5: Completing the printing

Make sure the screen has returned to Stage 2, and disconnect the cable for multi-use terminal from the camera.

Printing at a shop

You can take a “Memory Stick Duo” containing images shot with the camera to a photo printing service shop. As long as the shop supports photo printing services conforming to the DPOF, you can make a **DPOF** (Print order) mark on images in advance so that you do not need to reselect them when you print them out at the shop.

- You cannot print images stored in the internal memory at a print shop directly from the camera. Copy the images to a “Memory Stick Duo”, then take the “Memory Stick Duo” to the print shop.

What is DPOF?

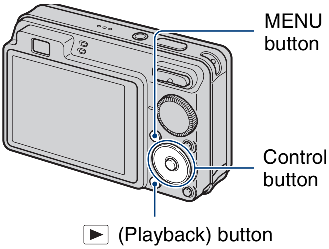
DPOF (Digital Print Order Format) is a function allowing you to make a **DPOF** (Print order) mark on images of “Memory Stick Duo” that you want to print out later.

- You can also print the images with the **DPOF** (Print order) mark using a printer that conforms to the DPOF (Digital Print Order Format) standard or using a PictBridge compliant printer.
- You cannot mark movies.
- You can make a **DPOF** (Print order) mark on up to 999 images.

When taking a “Memory Stick Duo” to a shop

- Consult your photo printing service shop as to what types of “Memory Stick Duo” they handle.
- If a “Memory Stick Duo” is not handled by your photo printing service shop, copy the images you want to print out to another medium such as a CD-R and take it to the shop.
- Be sure to take the Memory Stick Duo Adaptor with it.
- Before you take image data to a shop, always copy (back up) your data to a disk.
- You cannot set the number of prints.
- When you want to superimpose dates on images, consult your photo printing service shop.

Marking a selected image



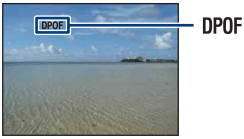
1 **Press ▶ (Playback) button.**

2 **Select the image you want to print.**

3 **Press MENU button to display the menu.**

4 **Select [DPOF] with ▲/▼ on the control button and select [This Image] with ◀/▶, then press ●.**

The **DPOF** (Print order) mark is attached to the image.



To remove the mark

Select the image from which you want to remove the mark, then repeat steps 3 and 4.

Selecting and marking the images

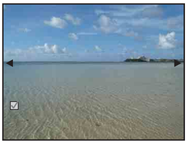
1 Press MENU button while displaying images in single-image mode or in index mode.

2 Select [DPOF] with ▲/▼ on the control button, [Multiple Images] with ◀/▶, and then press ●.

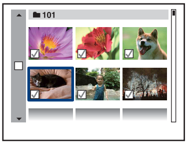
3 Select an image to mark with the control button, then press ●.

The ✓ mark is attached to the selected image.

Single Image



Index Display

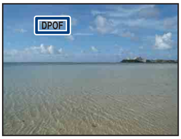


4 Press MENU button.

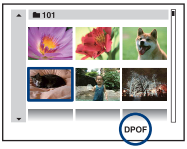
5 Select [OK] with ▲, then press ●.

The **DPOF** mark appears on the screen.

Single Image



Index Display



To cancel the selection

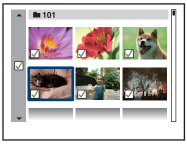
Select [Exit] in step 5, then press ●.

To remove the mark

Select the images that you want to remove the marks, then press ● in step 3.

To mark all the images in the folder

In step 3, move the frame to the folder selection bar with ◀, then press ● during the index mode.
The ✓ mark is attached to the selected folder and all the images.



Troubleshooting

If you experience trouble with the camera, try the following solutions.

❶ **Check the items on pages 105 to 114.**

If a code such as “C/E:□□:□□” appears on the screen, see page 115.

❷ **Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.**

❸ **Initialize the settings (page 69).**

❹ **Consult your Sony dealer or local authorized Sony service facility.**

Be aware that by sending the camera for repair, you give consent that the contents of the internal memory, Music files may be checked.

Click one of the following items to jump to the page explaining the symptom and cause or the appropriate corrective action.

Battery pack and power 105
Shooting still images/movies 106
Viewing images 109
Deleting 110
Computers 110
“Memory Stick Duo” 111
Internal memory 112
Printing 112
PictBridge compliant printer 113
Others 114

Battery pack and power

Cannot insert the battery pack.

- Insert the battery pack correctly to push the battery eject lever.

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Insert the battery pack correctly.
- The battery pack is discharged. Insert a charged battery pack.
- The battery pack is dead (page 122). Replace it with a new one.
- Use a recommended battery pack.

The power turns off suddenly.

- 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 pack. Turn on the camera again.
- The battery pack is dead (page 122). Replace it with a new one.

The remaining charge indicator is incorrect.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- A discrepancy arose between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication.
- The battery pack is discharged. Insert a charged battery pack.
- The battery pack is dead (page 122). Replace it with a new one.

Cannot charge the battery pack.

- You cannot charge the battery pack using the AC Adaptor (not supplied). Use the battery charger to charge the battery.

Shooting still images/movies

Cannot record images.

- Check the free capacity of the internal memory or “Memory Stick Duo”. If it is full, do one of the following:
  – Delete unnecessary images (page 39).
  – Change the “Memory Stick Duo”.
- You cannot record images while charging the flash.
- When shooting a still image, set the mode dial to a position other than 🎞.
- Set the mode dial to 🎞 when shooting movies.
- The image size is set to [640(Fine)] when recording movies. Do one of the following:
  – Set the image size to other than [640(Fine)].
  – Insert a “Memory Stick PRO Duo”.
- In ☺ (Smile Shutter) mode, no image is shot unless a smile is detected.

This subject is not visible on the screen.

- The camera is set to the playback mode. Press ▶ (Playback) button to change to the recording mode (page 34).

Anti-blur function does not work (DSC-W120/W125/W130 only).

- The anti-blur function does not work when ✋OFF appears on the display.
- The anti-blur function may not work properly when shooting night scenes.
- Shoot after pressing the shutter button halfway down; do not press it fully down suddenly.
- Confirm that the [Conversion Lens] setting is correct (page 74).

Recording takes a long time.

- The NR slow shutter function is activated (page 18). This is not a malfunction.

The image is out of focus.

- The subject is too close. Make sure to position the lens farther away from the subject than the shortest shooting distance, approximately 4 cm (1 5/8 inches) (W)/50 cm (1 feet 7 3/4 inches) (T), when shooting (page 26).
- ☽ (Twilight) mode, ▲ (Landscape) mode or ✺ (Fireworks) mode is selected in the Scene Selection mode when shooting still images.
- The Semi manual function is selected. Select the auto focus mode (page 51).
- Confirm that the [Conversion Lens] setting is correct (page 74).
- Refer to “If the subject is out of focus” on page 52.

Zoom does not work.

- You cannot use the Smart zoom depending on the image size (page 73).
- You cannot use the Digital Zoom when shooting movies.
- You cannot change the zoom scale while shooting a movie.
- Confirm that the [Conversion Lens] setting is correct (page 74).

The flash does not work.

- The flash is set to ⊘ (Flash forced off) (page 27).
- You cannot use the flash when:
  - [REC Mode] is set to [Burst] or Exposure Bracket (DSC-W130 only) (page 48).
  - ISO (High Sensitivity) mode, ☽ (Twilight) mode or ❋ (Fireworks) mode is selected in the Scene Selection mode (page 31).
  - Shooting movies.
- Set the flash to ϟ (Flash forced on) when ▲ (Landscape) mode, ⛱ (Beach) mode, or ☃ (Snow) mode is selected in the Scene Selection mode (page 27).

Fuzzy white circular spots appear in images shot using the flash.

- Particles (dust, pollen, etc.) in the air reflected the flash light and appeared in the image. This is not a malfunction (page 14).

The close-up shoot function (Macro) does not work.

- ▲ (Landscape) mode, ☽ (Twilight) mode or ❋ (Fireworks) mode is selected in the Scene Selection mode (page 31).

Macro shooting cannot be turned off.

- There is no function for forcibly turning off macro shooting. In AUTO (Auto) mode, telephoto shooting is possible even in the macro shooting condition.

The date and time are not displayed on the LCD screen.

- While shooting, the date and time are not displayed. They are displayed only during playback.

Cannot insert dates on image.

- The camera does not have a feature for superimposing dates on images (page 112). By using “Picture Motion Browser”, you can print or save images with the date (page 85).

The F value and shutter speed flash when you press and hold the shutter button halfway down.

- The exposure is incorrect. Correct the exposure (page 49).

The screen is too dark or too bright.

- Adjust the brightness of the LCD backlight (page 21).

The image is too dark.

- You are shooting a subject with a light source behind the subject. Select the metering mode (page 50) or adjust the exposure (page 49).

The image is too bright.

- Adjust the exposure (page 49).

The image colors are not correct.

- Set [Color Mode] to [Normal] (page 55).

Vertical streaks appear when you are shooting a very bright subject.

- The smear phenomenon is occurring and white, black, red, purple, or other streaks appear on the image. This phenomenon is not a malfunction.

Noise appears in the image when you view the screen in a dark place.

- The camera is attempting to increase the visibility of the screen by temporarily brightening the image under conditions of low illumination. There is no effect on the recorded image.

The eyes of the subject come out red.

- Set [Red Eye Reduction] to [On] (page 55).
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.
- Retouch the image using [Red Eye Correction] (DSC-W130 only) (page 58).

Dots appear and remain on the screen.

- This is not a malfunction. These dots are not recorded (page 2).

The image seen through the finder does not match with the actual recordable range.

- The parallax phenomenon is occurring when the subject is close. In this case, to confirm the recordable range, use the LCD screen.
- Images cannot be confirmed through the finder while the digital zoom is in use.

Cannot shoot images in succession.

- The internal memory or “Memory Stick Duo” is full. Delete unnecessary images (page 39).
- The battery level is low. Insert the charged battery pack.

Viewing images

Cannot play back images.

- Press ▶ (Playback) button (page 34).
- The folder/file name has been changed on your computer (page 93).
- Sony does not guarantee playback of image files on the camera if the files have been processed using a computer or recorded with another camera.
- The camera is in USB mode. Delete the USB connection (page 89).

The date and time are not displayed.

- The display indicators are turned off. Show the display indicators by pressing ▲ (DISP) on the control button (page 21).

The image appears rough right after playback starts.

- This may happen due to image processing. This is not a malfunction.

Left and right sides of the screen are shown in black.

- [Auto Orientation] is set to [On] (page 75).

Cannot hear music during slideshow.

- Transfer music files to the camera with “Music Transfer” (page 94).
- Confirm that the volume setting and slideshow setting are correct (page 36).

The image does not appear on the TV screen.

- Check [Video Out] to see if the video output signal of the camera is set to the color system of your TV (page 71).
- Check whether the connection is correct (page 78).
- If the USB connector of the cable for multi-use terminal is connected to another device, disconnect it (page 89).
- You are trying to play back movies during HD(1080i) output. Movies cannot be viewed at high-definition image quality. Set [COMPONENT] to [SD] (page 70).

Deleting

Cannot delete an image.

- Cancel the protection (page 62).

Computers

Computer OS compatibility with camera is unknown.

- Check “Recommended computer environment” on page 82 for Windows, and page 95 for Macintosh.

“Memory Stick PRO Duo” is not recognized by a computer with a “Memory Stick” slot.

- Check that the computer and the Memory Stick Reader/Writer support “Memory Stick PRO Duo”. Users of computers and Memory Stick Readers/Writers made by manufacturers other than Sony should contact those manufacturers.
- If “Memory Stick PRO Duo” is not supported, connect the camera to the computer (pages 87, 95). The computer recognizes the “Memory Stick PRO Duo”.

Your computer does not recognize the camera.

- Turn on the camera.
- When the battery level is low, insert the charged battery pack or use the AC adaptor (not supplied) (page 87).
- Set [USB Connect] to [Mass Storage] (page 70).
- Use the cable for multi-use terminal (supplied) (page 87).
- Disconnect the cable for multi-use terminal from both the computer and the camera, and connect it again firmly.
- Disconnect all equipment other than the camera, the keyboard and the mouse from the USB connectors of your computer.
- Connect the camera directly to your computer without passing through a USB hub or other device (page 87).

Cannot copy images.

- Connect the camera and your computer correctly making a USB connection (page 87).
- Follow the designated copy procedure for your OS (pages 91 and 95).
- When you shoot images with a “Memory Stick Duo” formatted by a computer, you may not be able to copy the images to a computer. Shoot using a “Memory Stick Duo” formatted by the camera (page 66).

After making a USB connection, “Picture Motion Browser” does not start automatically.

- Make the USB connection after the computer is turned on (page 87).

Cannot play back images on your computer.

- If you are using “Picture Motion Browser”, refer to “PMB Guide” (page 85).
- Consult the computer or software manufacturer.

You do not know how to use “Picture Motion Browser”.

- Refer to “PMB Guide” (page 85).

The image and sound are interrupted by noise when you view a movie on a computer.

- You are playing back the movie directly from the internal memory or the “Memory Stick Duo”. Copy the movie to the hard disk of your computer, then play back the movie from the hard disk (page 91).

Cannot print an image.

- Refer to the operation manual of the printer.

Images once copied to a computer cannot be viewed on the camera.

- Copy them to a folder recognized by the camera, such as “101MSDCF” (page 89).
- Follow the correct procedures (page 93).

“Memory Stick Duo”

Cannot insert a “Memory Stick Duo”.

- Insert it in the correct direction.

You have formatted a “Memory Stick Duo” by mistake.

- All the data on the “Memory Stick Duo” is deleted by formatting. You cannot restore it.

Internal memory

Cannot playback or record images using the internal memory.

- There is a “Memory Stick Duo” inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a “Memory Stick Duo”.

- The “Memory Stick Duo” is full. Copy the image to the “Memory Stick Duo” with sufficient free capacity.

Cannot copy the data on the “Memory Stick Duo” or the computer to the internal memory.

- This feature is not available.

Printing

See “PictBridge compliant printer” together with the following items.

Images are printed with both edges cut off.

- Depending on your printer, all the edges of the image may be cut off. Especially when you print an image shot with the image size set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When having images printed at a digital print shop, ask the shop whether they can print the images without cutting off both edges.

Cannot print images with the date.

- Using “Picture Motion Browser”, you can print images with date (page 85).
- The camera does not have a feature for superimposing dates on images. However, because the images shot with the camera include information on the recording date, you can print images with the date superimposed if the printer or the software can recognize Exif information. For compatibility with Exif information, consult the manufacturer of the printer or the software.
- If you use a photo printing service, ask them to superimpose the dates on images.

PictBridge compliant printer

A connection cannot be established.

- The camera cannot be connected directly to a printer that is not compliant with the PictBridge standard. Consult the printer manufacturer as to whether the printer is compliant with PictBridge or not.
- Check that the printer is turned on and can be connected to the camera.
- Set [USB Connect] to [PictBridge] (page 70).
- Disconnect and connect the cable for multi-use terminal again. If an error message is indicated on the printer, refer to the operating instructions supplied with the printer.

Cannot print images.

- Check that the camera and the printer are properly connected using the cable for multi-use terminal.
- Turn on the printer. For further information, refer to the operating instructions supplied with the printer.
- If you select [Exit] during printing, images may not be printed. Disconnect and connect the cable for multi-use terminal again. If you still cannot print your images, disconnect the cable for multi-use terminal, turn the printer off and then on, then connect the cable for multi-use terminal again.
- Movies cannot be printed.
- Images shot using cameras other than the camera or images modified with a computer may not be printed.

Printing is canceled.

- Confirm that you have disconnected the cable for multi-use terminal before the (PictBridge Connecting) mark disappears.

Cannot insert the date or print images in the index mode.

- The printer does not provide these functions. Consult the printer manufacturer as to whether the printer provides these functions or not.
- The date may not be inserted in the index mode depending on the printer. Consult the printer manufacturer.

"---- -- --" is printed on the date-inserted part of the image.

- The image does not have the recording data so the date cannot be inserted. Set [Date] to [Off] and print the image again (page 101).

Cannot select the print size.

- Consult the printer manufacturer as to whether the printer can provide the desired size.

Cannot print the image at the size selected.

- When you use paper of a different size after connecting the printer to the camera, disconnect and then reconnect the cable for multi-use terminal.
- The print setting of the camera differs from that of the printer. Change the setting of either the camera (page 101) or the printer.

Cannot operate the camera after canceling printing.

- Wait for a while as the printer is carrying out the cancellation. It may take some time depending on the printer.

Others

Cannot reset the file-number.

- If you replace a recording medium, you cannot initialize file numbers with the camera. To initialize file numbers, format the “Memory Stick Duo” (pages 66, 68) or the internal memory, and then initialize the settings (page 69). However, the data on the “Memory Stick Duo” or the internal memory will be deleted and all settings, including date, will be initialized.

The camera does not function with the lens portion extended.

- Do not attempt to force the lens that has stopped moving.
- Insert a charged battery pack, then turn on the camera again.

The lens gets fogged.

- Moisture condensation has occurred. Turn off the camera and leave it for about an hour before using it.

The lens does not move when you turn off the camera.

- The battery pack is discharged. Replace it with a charged battery pack.

The camera becomes warm when you use it for a long time.

- This is not a malfunction.

The Clock Set screen appears when you turn on the camera.

- Set the date and time again (page 76).
- The internal rechargeable backup battery has discharged. Insert a charged battery and set aside for 24 hours or more with the power left off.

You want to change the date or time.

- Set the date and time again (page 76).

Warning indicators and messages

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on the camera is working. The last two digits (indicated by □□) will differ depending on the state of the camera.
If you cannot solve the problem even after trying the following corrective actions a few times, the camera may need repair. Contact your Sony dealer or local authorized Sony service facility.

C:32:□□

- There is trouble with the camera's hardware. Turn the power off and on again.

C:13:□□

- The camera cannot read or write data on the "Memory Stick Duo". Try turning off and on the camera again, or taking out and inserting the "Memory Stick Duo" several times.
- The internal memory has experienced a format error, or an unformatted "Memory Stick Duo" is inserted. Format the internal memory or the "Memory Stick Duo" (pages 66, 68).
- The inserted "Memory Stick Duo" cannot be used with the camera, or the data is damaged. Insert a new "Memory Stick Duo".

E:61:□□

E:62:□□

E:91:□□

- A camera malfunction has occurred. Initialize the camera (page 69), then turn the power on again.

Messages

If the following messages appear, follow the instructions.

🪫

- The battery level is low. Charge the battery pack immediately. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there are still 5 to 10 minutes of remaining battery time left.

For use with compatible battery only

- The battery inserted is not an NP-BG1 battery pack (supplied) or NP-FG1 battery pack (not supplied).

System error

- Turn the power off and then on again.

Internal memory error

- Turn the power off and then on again.

Reinsert the Memory Stick

- Insert the "Memory Stick Duo" correctly.
- The inserted "Memory Stick Duo" cannot be used in the camera (page 120).
- The "Memory Stick Duo" is damaged.
- The terminal section of the "Memory Stick Duo" is dirty.

Memory Stick type error

- The inserted "Memory Stick Duo" cannot be used in the camera (page 120).

Cannot access Memory Stick
Access denied

- You are using the “Memory Stick Duo” with the access controlled.

Error formatting Memory Stick
Error formatting internal memory

- Format the media again (pages 66, 68).

Memory Stick locked

- You are using the “Memory Stick Duo” with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.

No memory space on internal memory
No memory space on Memory Stick

- Delete unnecessary images or files (page 39).

Read only memory

- The camera cannot record or delete images on this “Memory Stick Duo”.

No Images

- No images that can be played back have been recorded in the internal memory.
- No images that can be played back have been recorded on the “Memory Stick Duo”.
- The selected folder does not contain a file that can be played back in a slideshow.

Folder error

- A folder with the same first three digit number already exists on the “Memory Stick Duo” (for example: 123MSDCF and 123ABCDE). Select another folder, or create a new folder (pages 66, 67).

Cannot create more folders

- The folder with a name beginning with “999” exists on the “Memory Stick Duo”. You cannot create any folders if this is the case.

File error

- An error occurred while the image was playing back. Sony does not guarantee playback of image files on the camera if the files have been processed using a computer or recorded with another camera.

Read only folder

- You have selected a folder that cannot be set as a recording folder on the camera. Select another folder (page 67).

File protected

- Release the protection (page 62).

Image size over limit

- You are playing back an image with size that cannot be played back on the camera.

(Vibration warning indicator)

- Camera shake may occur due to insufficient light. Use the flash, turn on the anti-blur function, or mount the camera on a tripod to secure the camera.

640(Fine) is not available

- 640(Fine) size movies can be recorded only using a “Memory Stick PRO Duo”. Insert a “Memory Stick PRO Duo” or set the image size to a size other than [640(Fine)].

Macro is invalid

- The macro is unavailable under the current settings (page 31).

Flash settings cannot be changed

- The flash is unavailable under the current settings (page 31).

Maximum number of images already selected

- You can select up to 100 images. Remove the checkmark.

Low battery power

- When copying a image recorded in the internal memory to the “Memory Stick Duo”, use a fully charged battery.

Printer busy
Paper error
No paper
Ink error
Low ink
No ink

- Check the printer.

Printer error

- Check the printer.
- Check if the image you want to print is corrupted.

- The data transmission to the printer may not be completed yet. Do not disconnect the cable for multi-use terminal.

Processing…

- The printer is canceling the current print job. You cannot print until it is finished. This may take time, depending on the printer.

Error Playing Music

- Delete the Music file, or replace it with a normal Music file.
- Execute [Format Music], then download a new Music files.

Error Formatting Music

- Execute [Format Music].

Operation cannot be executed for movie files

- You have selected a function that is not available for movies.

Operation cannot be executed in unsupported files

- Processing and other editing functions of the camera cannot be performed on image files that have been processed using a computer or images that were recorded with another camera.

Operation cannot be executed when using a PictBridge connection

- Some functions are restricted while the camera is connected to a PictBridge compliant printer.

Operation cannot be executed during HD(1080i) output

- Some functions are restricted while the camera is connected to a High Definition TV.

Unable to detect face for retouch

- You may not be able to retouch the red-eye phenomenon depending on the image.

Turn the power off and on again

- The lens malfunction.

Self-Timer is invalid

- The self-timer is unavailable under these settings (page 31).

Using the camera abroad — Power sources

You can use the camera, the battery charger (supplied), and the AC-LS5K AC Adaptor (not supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50/60 Hz.

- **Do not use an electronic transformer (travel converter), as this may cause a malfunction.**

On the "Memory Stick Duo"

A "Memory Stick Duo" is a compact, portable IC recording medium. The types of "Memory Stick Duo" that can be used with the camera are listed in the table below. However, proper operation cannot be guaranteed for all "Memory Stick Duo" functions.

"Memory Stick" type	Recording/ Playback
Memory Stick Duo (without MagicGate)	○*1
Memory Stick Duo (with MagicGate)	○*2
MagicGate Memory Stick Duo	○*1*2
Memory Stick PRO Duo	○*2*3
Memory Stick PRO-HG Duo	○*2*3*4

*1) The camera is not compatible with high-speed data transfer using a parallel interface.

*2) "Memory Stick Duo", "MagicGate Memory Stick Duo" and "Memory Stick PRO Duo" are equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.

*3) [640(Fine)] size movies can be recorded.

*4) The camera is not compatible with 8-bit parallel data transfer. Supports 4-bit parallel data transfer equivalent to "Memory Stick PRO Duo".

- This product is compatible with "Memory Stick Micro" ("M2"). "M2" is an abbreviation for "Memory Stick Micro".
- A "Memory Stick Duo" formatted with a computer is not guaranteed to operate with the camera.
- Data read/write speeds differ depending on the combination of the "Memory Stick Duo" and the equipment used.
- Do not remove the "Memory Stick Duo" while reading or writing data.
- Data may be corrupted in the following cases:
  - When the "Memory Stick Duo" is removed or the camera is turned off during a read or write operation.
  - When the "Memory Stick Duo" is used in locations subject to static electricity or electrical noise.
- We recommend backing up important data on a hard disk of your computer.
- Do not press down hard when you write down on the memo area.
- Do not attach a label on the "Memory Stick Duo" itself nor on a Memory Stick Duo Adaptor.
- When you carry or store the "Memory Stick Duo", put it in the case supplied with it.
- Do not touch the terminal section of the "Memory Stick Duo" with your hand or a metal object.
- Do not strike, bend or drop the "Memory Stick Duo".
- Do not disassemble or modify the "Memory Stick Duo".
- Do not expose the "Memory Stick Duo" to water.
- Do not leave the "Memory Stick Duo" within the reach of small children. They might accidentally swallow it.
- Do not insert anything other than a "Memory Stick Duo" into the Memory Stick Duo slot. Otherwise, a malfunction may result.
- Do not use or store the "Memory Stick Duo" under the following conditions:
  - High temperature locations such as the hot interior of a car parked in direct sunlight
  - Locations exposed to direct sunlight
  - Humid locations or locations with corrosive substances present

Notes on using the Memory Stick Duo Adaptor (not supplied)

- To use a "Memory Stick Duo" with a "Memory Stick" compliant device, be sure to insert the "Memory Stick Duo" into a Memory Stick Duo Adaptor. If you insert a "Memory Stick Duo" into a "Memory Stick" compliant device without a Memory Stick Duo Adaptor, you might not be able to remove it from the device.
- When inserting a "Memory Stick Duo" into a Memory Stick Duo Adaptor, make sure the "Memory Stick Duo" is inserted facing in the correct direction, then insert it all the way in. Incorrect insertion may result in a malfunction.
- When using a "Memory Stick Duo" inserted into a Memory Stick Duo Adaptor with a "Memory Stick" compliant device, make sure that the Memory Stick Duo Adaptor is inserted facing the correct direction. Note that improper use may damage the equipment.
- Do not insert a Memory Stick Duo Adaptor into a "Memory Stick" compliant device without a "Memory Stick Duo" attached. Doing so may result in malfunction of the unit.

Notes on using "Memory Stick PRO Duo" (not supplied)

"Memory Stick PRO Duo" with a capacity up to 16 GB have been confirmed to operate properly with the camera.

Notes on using "Memory Stick Micro" (not supplied)

- To use a "Memory Stick Micro" with the camera, be sure to insert the "Memory Stick Micro" into a Duo-sized "M2" Adaptor. If you insert a "Memory Stick Micro" into the camera without a Duo-sized "M2" Adaptor, you might not be able to remove it from the camera.
- Do not leave the "Memory Stick Micro" within the reach of small children. They might accidentally swallow it.

On the battery pack

On charging the battery pack

We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F). The battery pack may not be fully charged in temperatures outside this range.

Effective use of the battery pack

- Battery performance decreases in low temperature surroundings. So in cold places, the operational time of the battery pack is shorter. We recommend the following to ensure longer battery pack use:
  - Put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting.
- The battery pack will run out quickly if you use the flash or zoom frequently.
- We recommend having spare battery packs handy for two or three times the expected shooting time, and making trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.

How to store the battery pack

- Fully discharge the battery pack before storing and store it in a cool, dry place. To maintain the battery pack's function, fully charge the battery pack and then fully discharge it on the camera at least once a year while storing.
- To use the battery pack up, leave the camera in slideshow (page 36) playback mode until the power goes off.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a supplied battery case when carrying and storing.

On battery life

- The battery life is limited. Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
- The battery life varies according to how it is stored and the operating conditions and environment in which each battery pack is used.

Compatible battery pack

- The NP-BG1 (supplied) can be used only in G type compatible Cyber-shot models.
- If you use the NP-FG1 battery pack (not supplied), the minutes also appear after the battery remaining indicator (🔋 60 Min).

On the battery charger

On the battery charger

- Do not charge any battery pack other than the NP-BG type or NP-FG type battery packs in the battery charger (supplied). Batteries other than the specified kind may leak, overheat, or explode if you attempt to charge them, posing a risk of injury from electrocution and burns.
- Remove the charged battery pack from the battery charger. If you leave the charged battery pack in the charger, battery life may be shortened.
- When the CHARGE lamp flashes, remove the battery pack being charged, and then inserting the same battery pack into the battery charger again until it clicks. When the CHARGE lamp flashes again, this may indicate a battery error or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type. If the battery pack is the specified type, remove the battery pack, replace it with new one or another one and check if the battery charger operates correctly. If the battery charger operates correctly, a battery error may have occurred.

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Notes on the License

"C Library", "Expat" and "zlib" software are provided in the camera. We provide this software based on license agreements with their owners of copyright. Based on requests by the owners of copyright of these software applications, we have an obligation to inform you of the following. Please read the following sections.
Read "license1.pdf" in the "License" folder on the CD-ROM. You will find licenses (in English) of "C Library", "Expat" and "zlib" software.

On GNU GPL/LGPL applied software

The software that is eligible for the following GNU General Public License (hereinafter referred to as "GPL") or GNU Lesser General Public License (hereinafter referred to as "LGPL") are included in the camera.
This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL.
Source code is provided on the web. Use the following URL to download it.
http://www.sony.net/Products/Linux/
We would prefer you do not contact us about the contents of source code.

Read "license2.pdf" in the "License" folder on the CD-ROM. You will find licenses (in English) of "GPL", and "LGPL" software.
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