

SONY®

4-000-949-12(1)

Digital Still Camera Instruction Manual

DSC-T77

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

Getting started

Shooting/viewing images

Using shooting functions

Using viewing functions

Deleting images

Connecting to other devices

Changing camera settings

GB

Cyber-shot

Owner's Record

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

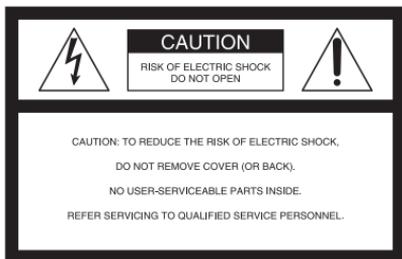
Model No. DSC-T77

Serial No. _____

WARNING

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

For Customers in the U.S.A.



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



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

IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference.

Carefully observe all warnings, precautions and instructions on the appliance, or the one described in the operating instructions and adhere to them.

Use

Power Sources

This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.

Polarization

This set may be equipped with a polarized ac power cord plug (a plug having one blade wider than the other).

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Object and Liquid Entry

Never push objects of any kind into the set through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.

Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.

Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.

Installation

Water and Moisture

Do not use power-line operated sets near water – for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Power-Cord Protection

Route the power cord so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.

Accessories

Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer.

Ventilation

The slots and openings in the cabinet are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- Never cover the slots and openings with a cloth or other materials.
- Never block the slots and openings by placing the set on a bed, sofa, rug, or other similar surface.
- Never place the set in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.

Lightning

For added protection for this set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into the set.
- If the set has been exposed to rain or water.
- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- When the set exhibits a distinct change in performance – this indicates a need for service.

Servicing

Do not attempt to service the set yourself as opening or removing covers may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel.

Replacement parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition.

Read this first

CAUTION

Replace the battery with the specified type only. Otherwise, fire or injury may result.

Do not expose the batteries to excessive heat such as sunshine, fire or the like.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbcc.org/>

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery charger

This power unit is intended to be correctly orientated in a vertical or floor mount position.

For Customers in the U.S.A.

If you have any questions about this product, you may call:

Sony Customer Information Center
1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY
Model No.: DSC-T77
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

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

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

For Customers in Europe

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

Attention

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

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)



This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Notice for customers in the United Kingdom

A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS 1362, (i.e., marked with an  or  mark) must be used.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

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Notes on using the camera

Internal memory and “Memory Stick Duo” back up

Do not turn off the camera, remove the battery pack, or remove the “Memory Stick Duo” while the access lamp is lit. Otherwise, the internal memory data or “Memory Stick Duo” may be damaged. Be sure to make a backup copy to protect your data.

On management files

When you insert a “Memory Stick Duo” without a management file into the camera and turn on the power, part of the “Memory Stick Duo” capacity is used to automatically create a management file. It may take some time until you can perform the next operation.

Notes on recording/playback

- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof. Read “Precautions” (page 53) before operating the camera.
- Avoid exposing the camera to water. If water enters inside the camera, a malfunction may occur. In some cases, the camera cannot be repaired.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- Do not use the camera near a location that generates strong radio waves or emits radiation. Otherwise, the camera may not properly record or play back images.
- Using the camera in sandy or dusty locations may cause malfunctions.
- If moisture condensation occurs, remove it before using the camera (page 53).
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.
- Clean the flash surface before use. The heat of flash emission may cause dirt on the flash surface to become discolored or to stick to the flash surface, resulting in insufficient light emission.

Notes on the LCD screen

- 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.
- If water droplets or other liquids splash on the LCD screen and make it wet, immediately wipe off the screen with a soft cloth. Leaving liquids on the LCD screen surface can harm the quality and cause a malfunction.

On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that the camera will play back images recorded or edited with other equipment, or that other equipment will play back images recorded with the camera.

Warning on copyright

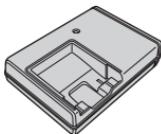
Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

No compensation for damaged content or recording failure

Sony cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

Checking the accessories supplied

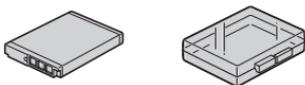
- Battery charger BC-CSD (1)



- Power cord (mains lead) (1)
(not supplied in the USA and Canada)



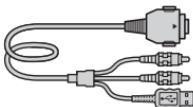
- Rechargeable battery pack NP-BD1 (1)/
Battery case (1)



- Paint pen (1)



- USB, A/V cable for multi-use terminal (1)



- Wrist strap (1)



- Station plate F (1)

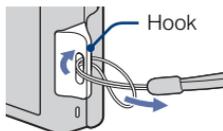
The station plate is used when mounting the camera on Cyber-shot station (not supplied).



- CD-ROM (1)
 - Cyber-shot application software
 - “Cyber-shot Handbook”
 - “Cyber-shot Step-up Guide”
- Instruction Manual (this manual) (1)

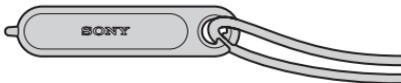
Using the wrist strap

Attach the strap and place your hand through the loop to prevent the camera from damage by being dropped.



Using the paint pen

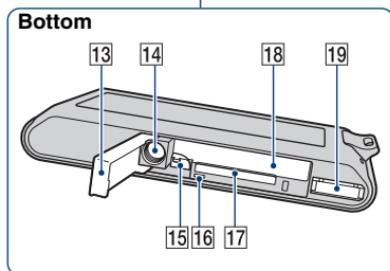
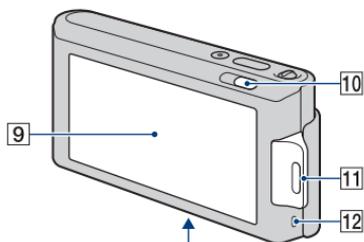
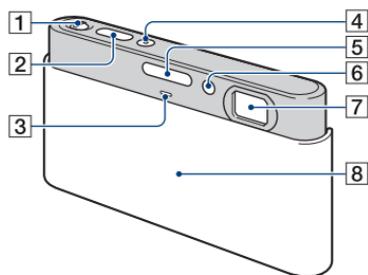
The paint pen is used when operating the touch panel. It attaches to the wrist strap.



Note

- Do not carry the camera by holding the paint pen. The camera may fall off.

Identifying parts

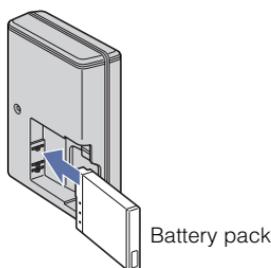


- 1** Zoom (W/T) lever
- 2** Shutter button
- 3** Microphone
- 4** POWER button/POWER lamp
- 5** Flash
- 6** Self-timer lamp/Smile Shutter lamp/
AF illuminator
- 7** Lens
- 8** Lens cover
- 9** LCD screen/Touch panel
- 10** ▶ (Playback) button
- 11** Hook for wrist strap/Grip
- 12** Speaker
- 13** Battery/"Memory Stick Duo" cover
- 14** Tripod receptacle
- 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 eject lever
- 16** Access lamp
- 17** "Memory Stick Duo" slot
- 18** Battery insertion slot
- 19** Multi connector

Charging the battery pack

1 Insert the battery pack into the battery charger.

- You can charge the battery even when it is partially charged.



2 Connect the battery charger to the wall outlet (wall socket).

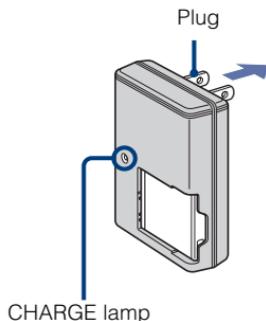
If you continue charging the battery pack for about one more hour after the CHARGE lamp turns off, the charge will last slightly longer (full charge).

CHARGE lamp

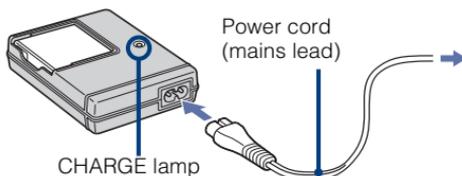
Lit: Charging

Off: Charging finished (normal charge)

For customers in the USA and Canada



For customers in countries/regions other than the USA and Canada



3 When charging is finished, disconnect the battery charger.

Charging time

Full charge time	Normal charge time
Approx. 220 min.	Approx. 160 min.

Notes

- The table above shows the time required to charge a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.
- Connect the battery charger to the nearest wall outlet (wall socket).
- Even if the CHARGE lamp is not lit, the battery charger is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (wall socket). If some trouble occurs while using the battery charger, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).
- When charging is finished, disconnect the power cord (mains lead) from the wall outlet (wall socket), and remove the battery pack from the battery charger.
- Designed for use with compatible Sony batteries.

Battery life and number of images you can record/view

	Battery life (min.)	No. of Images
Shooting still images	Approx. 110	Approx. 220
Viewing still images	Approx. 230	Approx. 4600

- The measurement method is based on the CIPA standard. (CIPA: Camera & Imaging Products Association)

Note

- The battery life and the number of still images may vary depending on the camera settings.



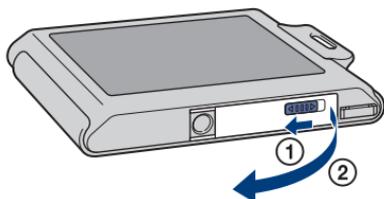
Using the camera abroad

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). This may cause a malfunction.

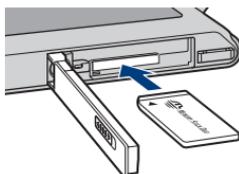
Inserting the battery pack/a “Memory Stick Duo” (not supplied)

1 Open the cover.



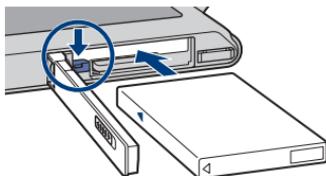
2 Insert the “Memory Stick Duo” (not supplied).

With the terminal side facing the lens, insert the “Memory Stick Duo” until it clicks into place.

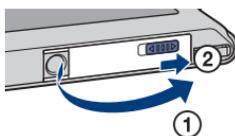


3 Insert the battery pack.

Align the ▲ mark on the battery with the battery eject lever, then insert the battery while pressing the lever in the direction of the arrow.



4 Close the cover.



■ “Memory Stick” that you can use

“Memory Stick Duo”



You can also use a “Memory Stick PRO Duo” or “Memory Stick PRO-HG Duo” with the camera.

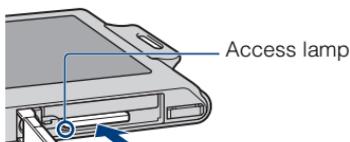
For details on the number of images/time that can be recorded, see pages 26, 29. Other types of “Memory Stick” or memory card are not compatible with the camera.

“Memory Stick”

You cannot use a “Memory Stick” with the camera.



■ To remove the “Memory Stick Duo”



Make sure that the access lamp is not lit, then push the “Memory Stick Duo” in once.

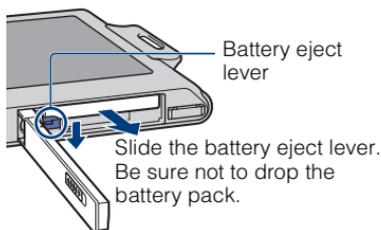
Note

- Never remove the “Memory Stick Duo”/ battery pack when the access lamp is lit. This may cause damage to data in the “Memory Stick Duo”/internal memory.

■ When there is no “Memory Stick Duo” inserted

Images are stored in the camera’s internal memory (approximately 15 MB). To copy images from the internal memory to a “Memory Stick Duo,” insert the “Memory Stick Duo” in the camera, touch **HOME** and select [Copy] in [Memory Tool] of (Manage Memory) (page 44).

■ To remove the battery pack



■ Checking the remaining battery charge

A remaining charge indicator appears on the upper left of the LCD screen.



Notes

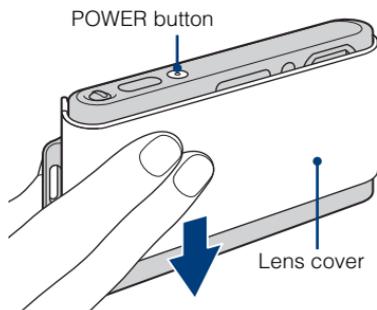
- It takes about one minute until the correct remaining charge indicator appears.
- The remaining charge indicator may not be correct under certain circumstances.
- If the NP-FD1 battery pack (not supplied) is used, the minute display is also shown after the remaining charge indicator.
- Battery capacity decreases over time and through repeated use. When the operating time per charge decreases markedly, the battery pack needs to be replaced. Purchase a new battery pack.

Setting the clock

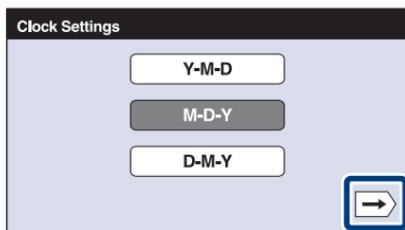
1 Lower the lens cover.

The camera is turned on.

- You can also turn on the camera by pressing the POWER button.
- It may take time for the power to turn on and allow operation.

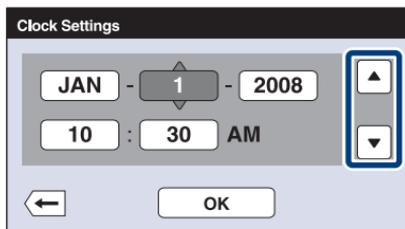


2 Touch the desired date display format, then touch .



3 Touch each item, then touch or to set its numeric value.

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



4 Touch [OK].

Notes

- The camera does not have a feature for superimposing dates on images. By using “PMB” in the CD-ROM (supplied), you can print or save images with the date.
- If the camera is running on and you do not operate the camera for about three minutes, the camera turns off automatically (Auto power-off function).

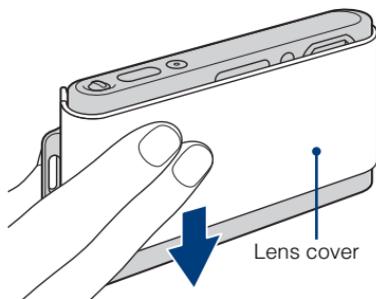
■ Setting the date and time again

Touch **HOME** →  (Settings) → [Clock Settings] (page 44).

Shooting images

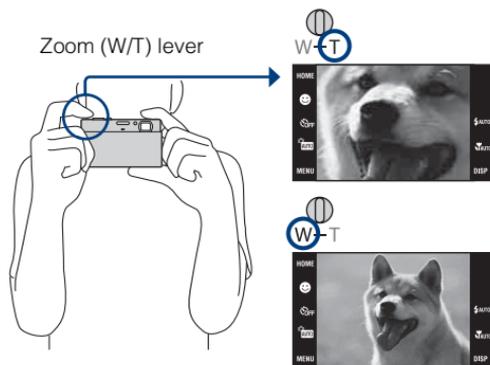
1 Lower the lens cover.

The camera is turned on.



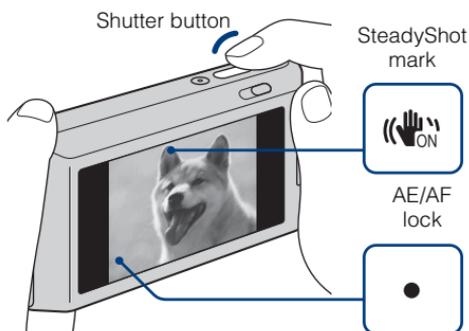
2 Hold the camera steady as illustrated.

- Slide the zoom (W/T) lever to the T side to zoom. Slide to the W side to return.



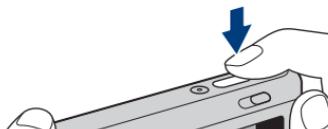
3 Press the shutter button halfway down to focus.

 is displayed to indicate that SteadyShot is working. When the image is in focus, a beep sounds and the ● indicator lights. The shortest shooting distance is approximately 8 cm (3 1/4 inches) (W)/50 cm (19 3/4 inches) (T) (from the lens).



4 Press the shutter button fully down.

The image is shot.

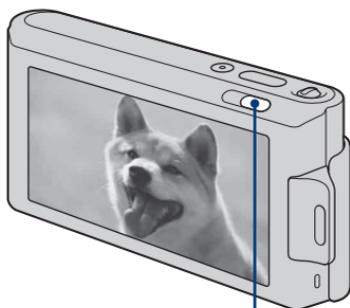


Viewing images

1 Press the (Playback) button.

The last image shot is displayed.

- When images on the “Memory Stick Duo” recorded with other cameras cannot be played back on this camera, view the images in [Folder View] (page 32).



 (Playback) button

■ Selecting next/previous image

Touch  (Next)/ (Previous) on the screen.



■ Deleting an image

Touch  (Delete), then touch [OK].



■ Returning to shooting images

Press the shutter button halfway down.

■ Turning off the camera

Close the lens cover.

- You can also turn off the camera by pressing the POWER button.

Detecting smiles and shooting automatically (Smile Shutter)

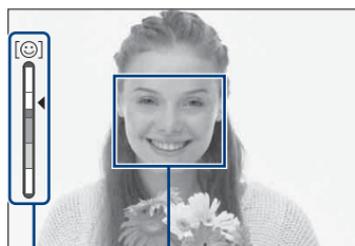
- 1 Touch (REC Mode) → (Auto Adjustment) → or → (Smile icon).



2 Wait detecting a smile.

When the smile level exceeds the point on the indicator, the camera shoots images automatically. When you touch (Smile icon) again, Smile Shutter ends.

- If you press the shutter button during Smile Shutter, the camera shoots the image in Auto Adjustment, and then returns to Smile Shutter mode.

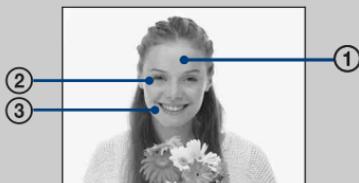


Face Detection frame

Smile Detection Sensitivity indicator



Hints for better capturing of smiles



- ① Do not cover the eyes with the bangs.
- ② Try 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.
- ③ Give a clear smile with an open mouth. The smile is easier to detect when the teeth are showing.

Detecting the shooting conditions automatically (Scene Recognition)

The camera automatically detects the shooting conditions, and then takes the shot.

- 1 Touch  (REC Mode) →
 (Auto Adjustment) →
 or .



- 2 Touch  →  (Scene Recognition) → desired mode →
.

 **(Off)**: Does not use Scene Recognition.

 **(Auto)**: When the camera recognizes the scene, it switches to the optimal settings and shoots the image.

 **(Advanced)**: When the camera recognizes the scene, it switches to the optimal settings and shoots the image.

In addition, when the camera recognizes  (Twilight),  (Twilight Portrait),  (Twilight using a tripod),  (Backlight) or  (Backlight Portrait), it shoots another image. When the camera recognizes  (Portrait), Anti Blink operates.

Note

- Scene Recognition does not operate in  (Macro On),  (Close focus enabled) or Burst mode.



When the camera recognizes the scene



Scene Recognition icon

Setting value icon

When the camera recognizes the scene.

 (Twilight),  (Twilight Portrait),  (Twilight using a tripod),  (Backlight),  (Backlight Portrait),  (Landscape),  (Macro) or  (Portrait) appears.

When the camera does not recognize the scene, the image is shot as Scene Recognition [Off].

Shooting close-ups (Macro/Close focus)

You can shoot beautiful close-up images of small subjects such as insects or flowers.

1 Touch AUTO (Macro) → desired mode → .

 AUTO (**Auto**): The camera adjusts the focus automatically from distant subjects to close-up.

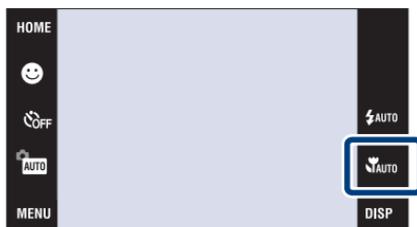
Normally, put the camera in this mode.

 (**Macro On**): The camera adjusts the focus with priority on close-up subjects.

Set Macro On when shooting close subjects.

 (**Close focus enabled**): Use this mode to shoot at even closer distances than Macro recording.

Locked to the W side: Approximately 1 to 20 cm (13/32 to 7 7/8 inches)



Using the self-timer

1 Touch OFF (Self-Timer) → desired mode → .

 OFF (**Off**): Not using the self-timer.

 **(Self-Timer 10sec)**: Shooting starts after a 10-second delay. Use this setting if you want to include yourself in the image. To cancel, touch .

 **(Self-Timer 2sec)**: Shooting starts after a two-second delay. This is to prevent blurring due to unsteadiness when the shutter button is pressed.



2 Press the shutter button.

The self-timer lamp flashes and a beep sounds until the shutter operates.

Selecting a flash mode

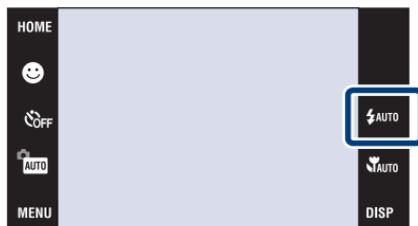
- 1 Touch ⚡AUTO (Flash) → desired mode → **OK**.

⚡AUTO (**Flash Auto**): Flashes when there is insufficient light or backlight

⚡ (**Flash On**): Flash always operates.

⚡SL (**Slow Synchro**): Flash always operates. The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.

ⓧ (**Flash Off**): Flash does not operate.



Notes

- You cannot use ⚡ (Flash On) or ⚡SL (Slow Synchro) when Scene Recognition is set to [Auto] or [Advanced].
- Even with flash on, the flash may not operate during burst.

Focusing on a specific point of the frame

Simply touch the point of the frame you wish to focus on to change the focus position.

- 1 Point the camera at the subject, then touch the point of the frame you want to focus on.

- You can change the focus point as many times as you wish before pressing the shutter button halfway down.
- If you want the camera to choose a focus point automatically, touch .



Focusing on the face of the subject (Face Detection)

The camera detects the face of the subject and focuses on it. You can select which subject takes priority when focusing.

- 1 Touch **MENU** →  (Face Detection) → desired mode → **OK**.

 **(When touched)**: Detects the face when an area with a face is touched on the screen.

 **(Auto)**: Selects the face the camera is to automatically focus on.

 **(Child Priority)**: Detects and shoots with priority on a child's face.

 **(Adult Priority)**: Detects and shoots with priority on an adult's face.



Selecting the image size to match the usage

The image size determines the size of the image file that is recorded when you take a image.

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded. Select the image size that matches the way you will view your images.

1 **MENU** →  (Image Size)
→ desired size → **OK**.



Image size	Usage guidelines	LCD screen
 10M (3648×2736)	For prints up to A3+ size	 Images are displayed in 4:3 or 3:2 aspect ratio.
 5M (2592×1944)	For prints up to A4 size	
 3M (2048×1536)	For prints up to L/L2 size	
 VGA (640×480)	For e-mail attachments	
 3:2 (8M) (3648×2432)	3:2 aspect ratio as in photo prints and postcards	
 16:9 (7M) (3648×2056)	For viewing on a high-definition TV.	 Images will fill the entire screen.
 16:9 (2M) (1920×1080)		

Note

- When you print images shot with 16:9 aspect ratio, both edges may be cut off.

■ Number of still images that can be recorded

The figures in the table below indicate the number of images when [REC Mode] is set to [Normal].

(Units: Images)

Capacity Size	Internal memory	"Memory Stick Duo" formatted with this camera						
	Approx. 15 MB	256 MB	512 MB	1 GB	2 GB	4 GB	8 GB	16 GB
10M	3	56	118	242	493	972	1963	3991
5M	6	89	188	384	781	1541	3111	6324
3M	10	144	301	617	1253	2472	4991	10140
VGA	96	1385	2898	5925	12030	23730	47910	97390
3:2(8M)	3	57	119	244	497	980	1980	4024
16:9(7M)	4	60	126	257	523	1031	2083	4234
16:9(2M)	16	230	483	987	2005	3955	7986	16230

Notes

- The number of still images may vary depending on the shooting conditions and the recording media.
- When the number of remaining shootable images is greater than 9,999, the ">9999" indicator appears.
- When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.

Using the Shooting mode that matches the scene (Scene Selection)

1 Select the shooting mode.

To select :

Touch (REC Mode) → desired mode → .

To select :

Touch (REC Mode) → (Scene Selection) → desired mode → .



(High Sensitivity): Shoots images without a flash even in low lighting.



(Landscape): Shoots with the focus on a distant subject.



(Soft Snap): Shoots images with a softer atmosphere for portraits of people, flowers, etc.



(Twilight Portrait): Shoots sharp images of people in a dark place without losing the nighttime atmosphere.



(Twilight): Shoots night scenes without losing the nighttime atmosphere.



(Gourmet): Shoots food arrangements in delicious color.



(Beach): Shoots seaside or lakeside scenes with the blueness of the water captured more vividly.



(Snow): Shoots snow scenes in white more clearly.



(Fireworks): Shoots fireworks in all their splendor.



(Underwater): Shoots underwater in natural colors when the water-proof case is attached.



(Hi-Speed Shutter): Shoots moving subjects in bright places.



Note

- The flash does not operate in some modes.

Shooting movies

- 1 Touch  (REC Mode) →  (Movie Mode) → **OK**.



- 2 Press the shutter button fully down to start recording.

- 3 Press the shutter button fully down again to stop recording.

Viewing movies

Press the  (Playback) button and touch the  (Next) /  (Previous) buttons to select a movie to view.

Button	Action
 VOL	Volume control
	Playback
	Stop
	Fast forward/fast rewind

Image size

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

Movie image size	Frame/Second	Usage guidelines
 640(Fine) (640×480)	Approx. 30	For viewing on a TV (high picture quality)
 640(Standard) (640×480)	Approx. 17	For viewing on a TV (standard picture quality)
 320 (320×240)	Approx. 8	For e-mail attachments

Maximum recording time

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 10 minutes.

(Units: hour : minute : second)

Capacity Size	Internal memory	"Memory Stick Duo" formatted with this camera						
	Approx. 15 MB	256 MB	512 MB	1 GB	2 GB	4 GB	8 GB	16 GB
640(Fine)	–	0:02:50	0:06:00	0:12:20	0:25:00	0:49:20	1:39:40	3:22:50
640(Standard)	0:00:40	0:10:20	0:21:40	0:44:20	1:30:10	2:58:00	5:59:20	12:10:20
320	0:02:50	0:41:30	1:25:20	2:57:40	6:01:00	11:52:00	23:57:30	48:41:50

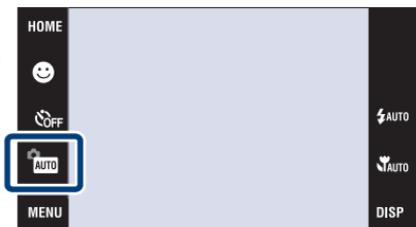
Notes

- The recording time may vary depending on the shooting conditions and the recording media.
- Movies with the size set to [640(Fine)] can only be recorded on a "Memory Stick PRO Duo".
- This camera does not support HD recordings or playbacks for movies.

Displaying minimum indicators (Easy Shooting)

This mode reduces the minimum number of settings and makes the indicators easier to see.

1 Touch  (REC Mode) → EASY (Easy Shooting) → .



Action	How to change
Self-Timer	Select  (Self-Timer 10sec) or  (Off) with  button.
Image Size	 → Select [Large] or [Small] in [Image Size]
Flash	 → Select [Auto] or [Off] in [Flash]

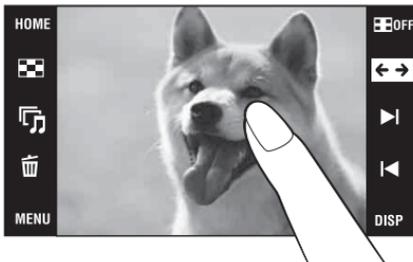
Returning to normal display

Touch  (REC Mode) →  (Auto Adjustment) → .

Viewing an enlarged image (Playback zoom)

- 1 Press the  (Playback) button to display an image, then touch the area you want to enlarge.

The image is enlarged at twice the size, with the area you touched at the center. When **DISP** is set to [Image Only], touch the center of the screen, then touch the area you want to enlarge.



- 2 Adjust the zoom scale and position.

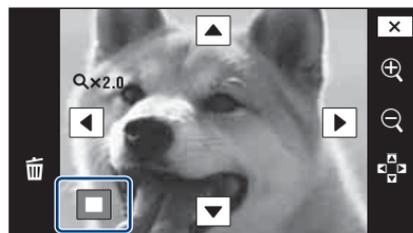
The zoom scale increases each time you touch the screen.

: Adjusts the position.

 : Changes the zoom scale.

: Turns  on/off.

: Cancels playback zoom.



Shows the displayed area of the whole image

Displaying images full-screen (Wide Zoom)

- 1 Press the  (Playback) button to display the still image, then touch .

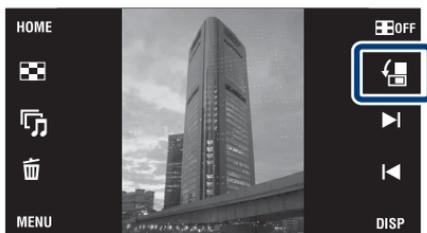
- Touch  again to end the wide zoom.



Rotating a vertical orientation image (Temporarily rotated display)

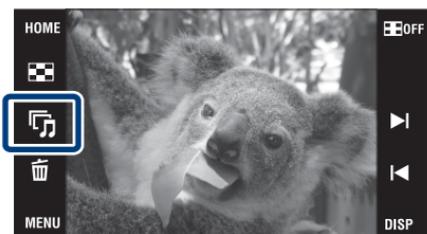
- 1 Press the  (Playback) button to display the still image, then select the vertical orientation images, then touch .

- Touch  again to end the display.



Viewing still images with music (Slideshow)

- 1 Press the  (Playback) button to display a still image, then touch  (Slideshow).



- 2 Touch [Start].

The slideshow starts.

- To end the slideshow, touch the screen, and then touch [Exit].



Selecting background music

You can transfer a desired music file from your CDs or MP3 files to the camera to play back during slideshow. To transfer music files, install the “Music Transfer” software (supplied) to your computer (page 39), then follow the steps below.

- ① Touch **HOME** →  (Slideshow) → [Music Tool] → [Download Music].
- ② Make a USB connection between the camera and your computer.
- ③ Start and operate “Music Transfer”.

For details on “Music Transfer”, see the “Music Transfer” help.

Searching for an image (Image Index)

- 1 Press the  (Playback) button to display an image, then touch  (Image Index).

- If you touch **DISP**, you can set the number of images displayed in the index screen to 12 or 20 images.



- 2 Touch the / buttons to turn the pages.

- To return to the single-image screen, touch the thumbnail image.



Selecting the display format (View Mode)

Allows you to select the display format for viewing multiple images when using “Memory Stick Duo”.

- 1 Press the  (Playback) button to display an image, then touch  (Image Index) →  (View Mode) → desired mode.

 (Date View): Displays images by the date.

 (Event View): Analyzes the dates shots and frequency, automatically organizes the images into groups and displays them.

 (Favorites): Displays images registered as Favorites.

 (Folder View): Displays and organizes images by folders.



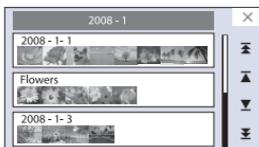
■ Easily locating the images to be displayed

When set to Date View/Event View/Folder View:

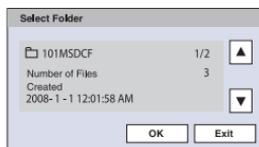
When using a “Memory Stick Duo”, touch  (Date List),  (Event List) or  (Select Folder) to easily locate the desired images.



Date List: Displays a list of the images taken on the selected date.



Event List: Displays a list of the images registered to the selected event.



Select Folder: Touch [OK] to display a list of the images contained in the selected folder.

When set to Favorites: You can display images registered to Favorites divided into six groups.



Favorites: Displays a list of the images registered to the selected Favorites number.

Note

- When you cannot play back images recorded with other cameras, view the images in [Folder View].

Deleting the currently displayed image

- 1 Touch  (Delete) → [OK] (page 19).

Deleting multiple images

- 1 Touch  (Image Index) →  (Delete).



- 2 Select images for deletion.

- ① Touch  /  to turn the pages, then touch the images you want to delete.

The  mark is attached to the selected images.

- ② Repeat step ①.

- ③ Touch  → [OK].

You can switch between single-image

and index screen using , when selecting images.



Deleting in date, event or folder units

MENU →  (Delete) →  (All in Date Range),  (All in Event) or  (All in This Folder) → **OK** → [OK].

- The images is displayed in [Folder View] when using the internal memory.

Deleting all images (Format)

You can delete all data stored on “Memory Stick Duo” or the internal memory. If a “Memory Stick Duo” is inserted, all data stored on the “Memory Stick Duo” are deleted. If no “Memory Stick Duo” is inserted, all data stored in the internal memory are deleted. Formatting permanently deletes all data, including protected images.

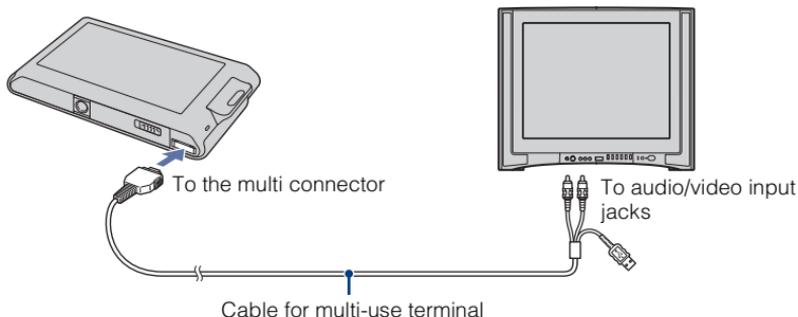
- 1 Touch **HOME** →  (Manage Memory) → [Memory Tool] → **OK** → [Format] → **OK**.



- 2 Touch [OK].

Viewing images on a TV

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



Viewing images on a HD (High Definition) TV

- You can view images recorded on the camera by connecting the camera to an HD (High Definition) TV with the HD Output Adaptor Cable (not supplied) or Cyber-shot station (not supplied).
- Set [COMPONENT] to [HD(1080i)] in [Main Settings 2] by selecting  (Settings) on the HOME screen.
- You cannot view movies output in [HD(1080i)] signal format. Set [COMPONENT] to [SD] when viewing movies.

Printing still images

If you have a PictBridge compliant printer, you can print images by the following procedure.

First, set the camera to enable USB connection between the camera and the printer.

- 1 Touch **HOME** →  (Settings) → [Main Settings] → **OK** [USB Connect] → **OK** → [PictBridge] → **OK**.

The USB mode is set.



- 2 Connect the camera to the printer with the cable for multi-use terminal (supplied).

- 3 Turn on the printer.

After the connection is made, the  indicator appears.

- 4 Touch **MENU** →  (Print) → desired item → **OK**.

 **(This Image)**: Print the currently displayed image.

 **(Multiple Images)**: Touch **▶/|/◀** to display the image, then touch the image you want to print.

- 5 Touch the desired setting item, then **[OK]**.

The image is printed.



Printing at a 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.

How to copy: Touch **HOME** →  (Manage Memory) → [Memory Tool] → **OK** → [Copy] → **OK** → [OK].

When you want to superimpose dates on images, consult your photo printing service shop.

Using the camera with a computer

■ Using “PMB (Picture Motion Browser)”

You can enjoy the recorded images more than ever by taking advantage of the software, and “PMB” is included on a CD-ROM (supplied).

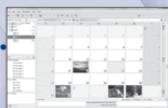
There are more functions, in addition to those listed below, for enjoying your images. For details, see the “PMB Guide”.

Import to computer



Media service

Uploading the image to the media service.



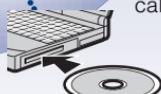
Calendar

Viewing images in a calendar.



Print

Printing images with date stamps.



DVD

Creating a data disc using a CD burner drive or DVD burner drive.

Export to camera



When using the “Memory Stick Duo”, exporting images and viewing them.

Note

- “PMB” is not compatible with Macintosh computers.

■ Stage 1: Installing the “PMB” (supplied)

You can install the software (supplied) using the following procedure. When you install “PMB,” “Music Transfer” is also installed.

- Log on as Administrator.

1 Check your computer environment.

Recommended environment for using “PMB” and “Music Transfer”

OS (pre-installed): Microsoft Windows 2000 Professional SP4, Windows XP* SP3/Windows Vista SP1*

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.

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

The installation menu screen appears.

3 Click [Install].

The “Choose Setup Language” screen appears.



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

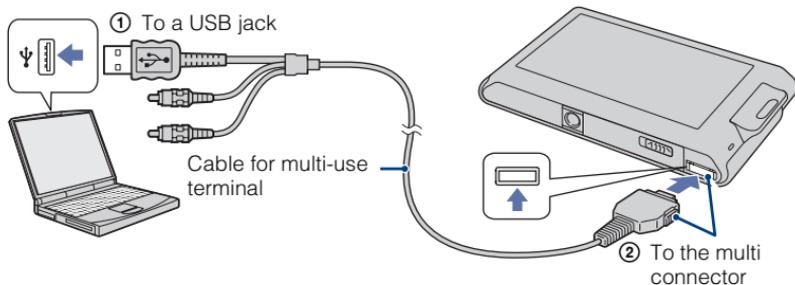
5 Remove the CD-ROM after the installation is complete.

■ Stage 2: Importing images to your computer using “PMB”

1 Insert a fully charged battery pack to the camera, then press the  (Playback) button.

2 Connect the camera to your computer.

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



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

3 Click the [Import] button.

For details, see the “PMB Guide”.

■ Stage 3: Viewing “PMB Guide”

1 Double-click the  (PMB Guide) icon on the desktop.

- To access the “PMB Guide” from the start menu: Click [Start] → [All Programs] → [Sony Picture Utility] → [Help] → [PMB Guide].

Notes

- Do not disconnect the cable for multi-use terminal from the camera while the camera is operating or while “Accessing...” appears on the screen of the camera. Doing so may corrupt the data.
- When using a battery with little remaining charge, you may not be able to transfer the data or the data may be corrupted. Using the AC Adaptor (not supplied) and the USB / A/V / DC IN cable for multi-use terminal (not supplied) is recommended.

■ Using the camera with your Macintosh computer

You can copy images to your Macintosh computer. “PMB” is not compatible, but you can install “Music Transfer” on your Macintosh computer. When images is exported to the camera, view them in [Folder View].

Recommended computer environment

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

Recommended environment for importing 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)

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

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

Changing the screen display

- 1 Touch **DISP** → desired mode → **OK**.

 **(Normal)**: Displays buttons and icons

 **(Simple)**: Displays only buttons

 **(Image Only)**: Hides buttons and icons



Note

- **DISP** disappears from the screen if [Image Only] playback is selected. To display the buttons, touch the center of the screen. The [Normal] display returns temporarily.



Histogram and brightness settings

The following setting can be accessed by touching **DISP**.

Histogram: A histogram is a graph showing the brightness of an image. The graph display indicates a bright image when skewed to the right side, and a dark image when skewed to the left side.

Brightness: This sets the backlight brightness ([Normal]/[Bright]). When viewing images in bright outside light, reset to [Bright]. However, the battery power may decrease faster under such condition.

Changing the operation sounds

You can set the sound produced when you operate the camera.

- 1 Touch **HOME** →  (Settings) → [Main Settings] → **OK** → [Beep] → **OK** → desired mode → **OK**.

Shutter: Turns on the shutter sound when you press the shutter button.

On: Turns on the beep/shutter sound when you operate the touch panel/press the shutter button.

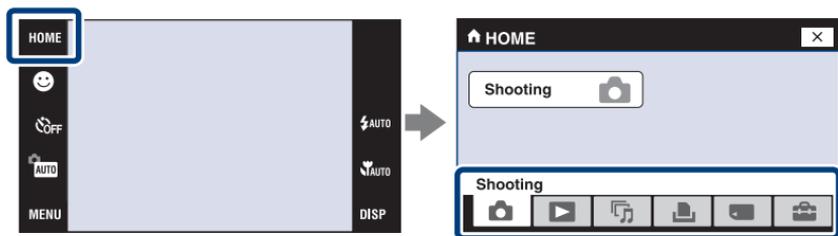
Off: Turns off the beep/shutter sound.



Using the HOME screen

On the HOME screen, camera operations are organized for convenience into broad categories for selection, such as shooting, viewing and printing images.

Only the available items are displayed on the screen.



📷 Shooting

Item	Description
Shooting	Records still images or movies.

📺 View Images

Item	Description
Date View*	Displays images by the date.
Event View*	Analyzes the dates shots and frequency, automatically organizes the images into groups and displays them.
Favorites*	Displays images registered as Favorites.
Folder View	Displays and organizes images by folders.

* These items are displayed only when "Memory Stick Duo" is inserted into the camera.

🎵 Slideshow

Item	Description
Slideshow	Plays back images in succession along with effects and music.
Music Tool	Download Music: Changes the slideshow music. Format Music: Deletes all slideshow music.

🖨️ Print

Item	Description
Print	Prints still images.

Manage Memory

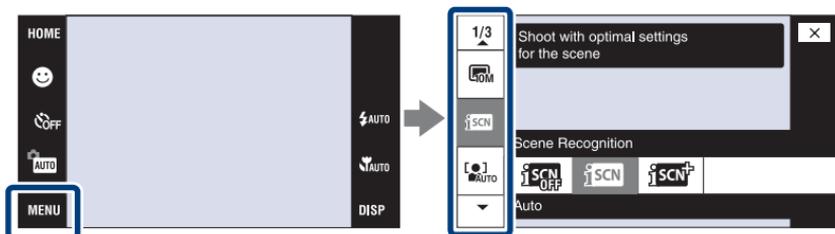
Item	Description
Memory Tool - Memory Stick Tool	Format: Formats a "Memory Stick Duo." Create REC.Folder: Creates a new folder on a "Memory Stick Duo." Change REC.Folder: Changes the folder used for recording images. Copy: Copies all images recorded in the internal memory to a "Memory Stick Duo."
Memory Tool - Internal Memory Tool	Format: Formats the internal memory.

Settings

Item	Description
Main Settings - Main Settings 1	Beep: Selects the beeps produced when you operate the camera. Function Guide: Displays the function guide. Initialize: Restores the camera to its default settings. Calibration: Corrects misalignment of the response positions of the buttons on the touch panel. Housing: Changes the button operations when the camera is in the housing (water-proof case). Demo Mode: Demonstrates the Smile Shutter and Scene Recognition function.
Main Settings - Main Settings 2	USB Connect: Sets the mode used when connecting the camera to a computer or a printer. COMPONENT: Sets the video signal according to a connected TV terminal. Video Out: Sets the mode according to the video output system to be connected. TV TYPE: Set to the aspect ratio of a TV to be connected.
Shooting Settings - Shooting Settings 1	AF Illuminator: Strobes the fill light when focusing in low light. Grid Line: Displays lines to easily set a subject in a horizontal or vertical position. AF Mode: Selects the auto focus operation mode. Digital Zoom: Selects the zoom method for zoom in excess of optical zoom.
Shooting Settings - Shooting Settings 2	Auto Orientation: Recognizes the orientation change and saves the image in the proper orientation. Auto Review: Displays the image on the screen for approximately two seconds after shooting a still image.
Clock Settings	Sets the date and time.
Language Setting	Selects the language to be used in the menu items, warnings and messages.

Using the MENU items

Displays available functions for easy setting when the camera is in shooting or playback mode. Only the available items are displayed on the screen.



MENU in shooting mode

Item	Description
Image Size	Sets the image size. (10M/ 5M/ 3M/ LVGA VGA/ 3:2(8M)/ 16:9+ 16:9(7M)/ 16:9(2M)/ FINE 640(Fine)/ STD 640(Standard)/ 320)
Scene Recognition	Automatically detects the shooting conditions and then takes the shot. (Off/ Auto/ Advanced)
Face Detection	Selects the priority subject for adjusting the focus when using face detection. (When touched/ Auto/ Child Priority/ Adult Priority)
Smile Detection Sensitivity	Sets the level of sensitivity to detect smile. (Low/ Medium/ High)
REC Mode	Selects the continuous shooting method. (Normal/ Burst/BRK±0.3EV, BRK±0.7EV, BRK±1.0EV)
EV	Adjusts exposure manually. (-2.0EV to +2.0EV)
Metering Mode	Sets which part of the subject to measure to determine the exposure. (Multi/ Center)
Focus	Changes the focus method. (Multi AF/∞ unlimited distance)
White Balance	Adjusts color tones according to the surrounding light conditions. (Auto/ Daylight/ Cloudy/ Fluorescent Light 1, Fluorescent Light 2, Fluorescent Light 3/ Incandescent/ Flash)
Underwater White Balance	Adjusts the colors when shooting underwater. (Auto/ Underwater 1, Underwater 2/ Flash)

Item	Description
Flash Level	Adjusts the amount of flash light. (Standard/ Standard/ Standard)
Anti Blink	Sets Anti Blink function. (Auto/ Off)
Red Eye Reduction	Sets to reduce the red-eye phenomenon. (Auto/ On/ Off)
DRO	Optimizes the brightness and contrast. (Off/ DRO standard/ DRO plus)
Color Mode	Changes the vividness of the image or adds special effects. (Normal/ Vivid/ Sepia/ B & W)
SteadyShot	Selects the anti-blur mode. (Shooting/ Continuous/ Off)
Shooting Settings	Selects the shooting settings.

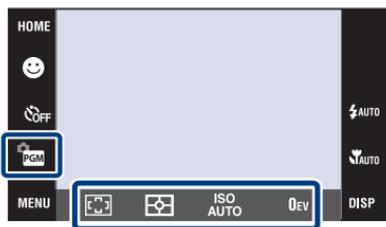
MENU in viewing mode

Item	Description
(Date List)	Selects the playback date list.
(Event List)	Selects the event group to be played back.
(Select Folder)	Selects the folder for viewing images.
(View Mode)	Switches the View Modes. (Date View/ Event View/ Favorites/ Folder View)
(Filter by Faces)	Plays back images filtered to meet certain conditions. (OFF Off/ All people/ Children/ Infants/ Smiles)
(Slideshow)	Plays back images in succession along with effects and music.
(Add / Remove Favorites)	Adds images to Favorites or removes images from Favorites. (This Image/ Multiple Images/ Add All in Date Range*/ Remove All in Date Range*) * The displayed text differs according to each View Mode.
(Retouch)	Retouches still images. Trimming/ Red Eye Correction/ Unsharp masking/ Soft Focus/ Partial Color/ Fisheye Lens/ Cross Filter/ Radial Blur/ Retro/ Happy Faces)
(Paint)	Paints on a still image and saves as a new image.
(Multi-Purpose Resize)	Changes the image size according to usage. (HDTV/ Blog/E-mail)
(Delete)	Deletes images. (This Image/ Multiple Images/ All in Date Range*) * The displayed text differs according to each View Mode.

Item	Description
 (Protect)	Prevents accidental erasure. ( This Image/  Multiple Images/  Set All in Date Range*/  Remove All in Date Range*) * The displayed text differs according to each View Mode.
DPOF	Adds a Print order mark to the image you want to print in a "Memory Stick Duo". ( This Image/  Multiple Images/  Set All in Date Range*/  Remove All in Date Range*) * The displayed text differs according to each View Mode.
 (Print)	Prints images using a PictBridge compliant printer. ( This Image/  Multiple Images/  All in Date Range*) * The displayed text differs according to each View Mode.
 (Rotate)	Rotates a still image.
 (Volume Settings)	Adjusts the volume.

Using functions in Program Auto mode

You can change the Focus, Metering Mode, ISO, and EV settings when [REC Mode] is set to **PGM** (Program Auto).



Item	Description
 (Focus)	Changes the focus method. ( Multi AF/  Center AF/  Spot AF/1.0m/3.0m/7.0m/∞ unlimited distance)
 (Metering Mode)	Measures the metering area. ( Multi/  Center/  Spot)
ISO AUTO (ISO)	Sets the ISO sensitivity. (ISO AUTO/ISO80 to ISO3200)
0EV (EV)	Adjusts the exposure (-2.0EV to +2.0EV)

Viewing “Cyber-shot Handbook”

“Cyber-shot Handbook,” which explains how to use the camera in detail, is included on the CD-ROM (supplied). Refer to it for in-depth instructions on the many functions of the camera.

■ For Windows users

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

2 Click “Cyber-shot Handbook”.
“Cyber-shot Step-up Guide”, which contains information on accessories for the camera, is installed at the same time.



3 Start “Cyber-shot Handbook” from the shortcut on the desktop.

■ For Macintosh users

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

2 Select the [Handbook] folder and copy “Handbook.pdf” stored in the [GB] folder to your computer.

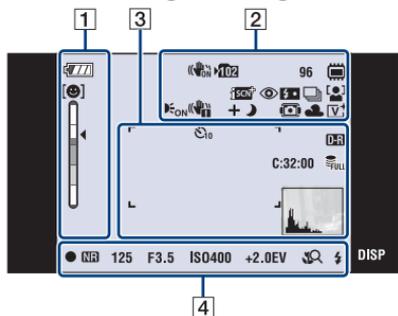
3 After copying is complete, double-click “Handbook.pdf”.

List of icons displayed on the screen

Icons are displayed on the screen to indicate the camera status.

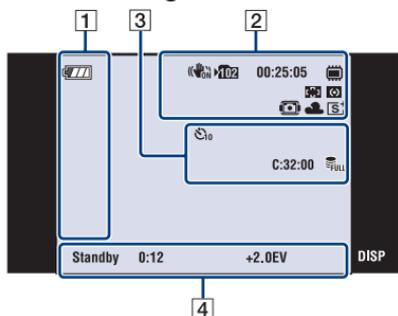
You can select the display settings by touching the **DISP** indication on the bottom right of the screen (page 42).

When shooting still images

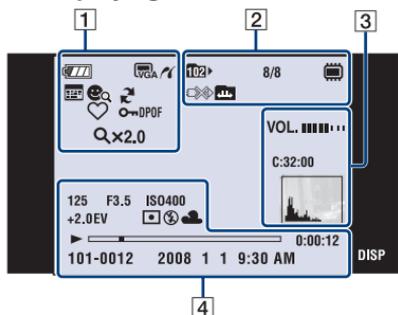


- The icons are limited in **EASY** (Easy Shooting) mode.

When shooting movies



When playing back



1

Display	Indication
	Battery remaining
	Low battery warning
	Image size
	PictBridge connecting
	Smile Detection Sensitivity indicator
	Zoom scaling
	View Mode
	Filter by Faces
	PMB export
	Favorites
	Protect
	Print order (DPOF) mark
	Playback zoom

2

Display	Indication
	SteadyShot
	Recording folder
	Playback folder
	Number of recordable images
	Image number/Number of images recorded in selected folder
	Recordable time (h:m:s)

Display	Indication
	Recording/Playback Media (“Memory Stick Duo”, internal memory)
	PictBridge connecting
	Changing folder
	Scene Recognition
	Red-eye reduction
	Flash level
	Flash charging
	Recording mode
	Face Detection
	Metering Mode
	Focus
	AF illuminator
	Vibration warning
	Touch AF indicator
	Housing
	White balance
	Color mode

3

Display	Indication
	AF range finder frame
	Self-timer
	DRO
	Management file full
	Volume
	Self-diagnosis display
	Histogram <ul style="list-style-type: none"> • appears when histogram display is disabled.

4

Display	Indication
	AE/AF lock
	NR slow shutter
	Shutter speed
	Aperture value
	ISO number
	Exposure Value
	Metering mode
	Flash
	White balance
	Macro/Close focus <ul style="list-style-type: none"> • Displayed when [Display Setup] is set to [Image Only].
	Flash mode <ul style="list-style-type: none"> • Displayed when [Display Setup] is set to [Image Only].
	Recording a movie/Standby a movie
	Recording time (m:s)
	Playback
	Playback bar
	Counter
	Folder-file number
	Recorded date/time of the playback image

Troubleshooting

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

- 1 **Check the items below, and refer to “Cyber-shot Handbook” (PDF).**
If a code such as “C/E:□□:□□” appears on the screen, refer to “Cyber-shot Handbook.”

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

- 3 **Initialize the settings (page 44).**

- 4 **Consult your Sony dealer or local authorized Sony service facility.**

On repairing cameras with internal memory or Music files function included, data in the camera may be checked on minimum necessity to verify and improve the malfunction symptoms. Sony will not copy or save any of those data.

Battery pack and power

Cannot insert the battery pack.

- Insert the battery pack correctly to push the battery eject lever (page 15).

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 (page 15).
- The battery pack is discharged. Insert a charged battery pack (page 13).
- The battery pack is dead. 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 (page 17).
- The battery pack is dead. Replace it with a new one.

The remaining charge indicator is incorrect.

- The battery charge is quickly used up in the following cases:
 - When you use the camera in an extremely hot or cold location.
 - When you use the flash and zoom frequently.
 - When you repeatedly turn the power on and off.
 - When [Brightness] of the **DISP** (screen display) is set to [Bright].
- 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 the charged battery pack (page 13).
- The battery pack is dead. Replace it with a new one.

Cannot charge the battery pack while inside the camera.

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

Shooting still images/movies

Cannot record images.

- Check the free capacity of the internal memory or “Memory Stick Duo” (pages 26, 29) . If it is full, do one of the following:
 - Delete unnecessary images (page 34).
 - Change the “Memory Stick Duo”.
- You cannot record images while charging the flash.
- When shooting a still image, set the shooting mode other than  (Movie).
- Set the shooting mode to  (Movie) 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.”

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.

Viewing images

Cannot play back images.

- Press  (Playback) button (page 19).
- The folder/file name has been changed on your computer.
- No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
- The camera is in USB mode. Delete the USB connection.
- You may not be able to play back some images stored on the “Memory Stick Duo” shot using other cameras. Play such images in Folder View (page 32).
- This is caused by copying images on your computer to the “Memory Stick Duo” without using the “PMB”. Play such images in Folder View (page 32).

Precautions

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On cleaning

Cleaning the LCD screen

Wipe the screen surface with an LCD cleaning kit (not supplied) to remove fingerprints, dust, etc.

Cleaning the lens

Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzene, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

On operating temperatures

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

On moisture condensation

If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.

If moisture condensation occurs

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

On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off.

This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.

However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery

Insert charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.

Specifications

Camera

[System]

Image device: 7.7 mm (1/2.3 type) color CCD,
Primary color filter

Total pixel number of camera: Approx. 10.3
Megapixels

Effective pixel number of camera: Approx. 10.1
Megapixels

Lens: Carl Zeiss Vario-Tessar 4x zoom lens
f = 6.18 – 24.7 mm (35 – 140 mm (35 mm
film equivalent))
F3.5 (W) – F4.6 (T)

Exposure control: Automatic exposure, Scene
Selection (11 modes)

White balance: Automatic, Daylight, Cloudy,
Fluorescent 1,2,3, Incandescent, Flash

Underwater White Balance: Auto, Underwater
1,2, Flash

File format (DCF compliant):
Still images: Exif Ver. 2.21 JPEG compliant,
DPOF compatible
Movies: MPEG1 compliant (Monaural)

Recording media: Internal Memory
(approx. 15 MB), "Memory Stick Duo"

Flash: Flash range (ISO sensitivity
(Recommended exposure Index) set to Auto):
Approx. 0.08 to 3.0 m (3 1/4 inches to
9 feet 10 1/8 inches) (W)/
approx. 0.5 to 2.4 m (1 feet 7 3/4 inches to
7 feet 10 1/2 inches) (T)

[Input and Output connectors]

Multi connector: Video output
Audio output (Monaural)
USB communication

USB communication: Hi-Speed USB (USB 2.0
compliant)

[LCD screen]

LCD panel: Wide (16:9), 7.5 cm (3.0 type) TFT
drive

Total number of dots: 230 400 (960 × 240) dots

[Power, general]

Power: Rechargeable battery pack NP-BD1, 3.6 V
NP-FD1 (not supplied), 3.6 V
AC-LS5K AC Adaptor (not supplied), 4.2 V

Power consumption (during shooting): 1.1 W
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: –20 to +60°C (–4 to +140°F)
Dimensions: 93.6 × 57.2 × 15.0 mm (3 3/4 × 2 3/8
× 19/32 inches) (W/H/D, excluding
protrusions)

Mass (including NP-BD1 battery pack, paint pen
and strap etc.): Approx. 151 g (5.3 oz)

Microphone: Monaural

Speaker: Monaural

Exif Print: Compatible

PRINT Image Matching III: Compatible

PictBridge: Compatible

BC-CSD battery charger

Power requirements: AC 100 V to 240 V,
50/60 Hz, 2.2 W

Output voltage: DC 4.2 V, 0.33 A

Operating temperature: 0 to 40°C (32 to 104°F)

Storage temperature: –20 to +60°C (–4 to +140°F)
Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 ×
31/32 × 3 5/8 inches) (W/H/D)

Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NP-BD1

Used battery: Lithium-ion battery

Maximum voltage: DC 4.2 V

Nominal voltage: DC 3.6 V

Capacity: 2.4 Wh (680 mAh)

Design and specifications are subject to
change without notice.

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