

SONY®

Cyber-shot

Digital Still Camera

Instruction Manual

DSC-S730



GB



For details on advanced operations, please read **“Cyber-shot Handbook”** (PDF) and **“Cyber-shot Step-up Guide”** on the CD-ROM (supplied) using a computer.

Operating Instructions

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

Owner's Record

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

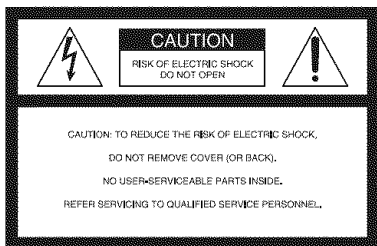
Model No. DSC-S730

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.

■ Lighting

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

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

For Customers in the U.S.A.

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 the State of California, USA only

Perchlorate Material - special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate

Perchlorate Material : Lithium battery contains perchlorate.

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.

Notes on using your camera

Internal memory and “Memory Stick Duo” back up

Do not turn off the camera, remove the batteries, 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.

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 29) 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 29).
- 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 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.
- When the battery level becomes low, the lens might stop moving. Insert new batteries or charged Nickel-Metal Hydride batteries and turn on the camera again.

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.

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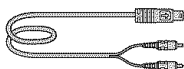
Getting started

Checking the accessories supplied

- LR6 (size AA) alkaline batteries (2)
- Dedicated USB cable (1)



- Dedicated A/V cable (1)

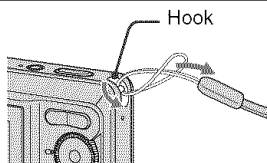


- Wrist strap (1)

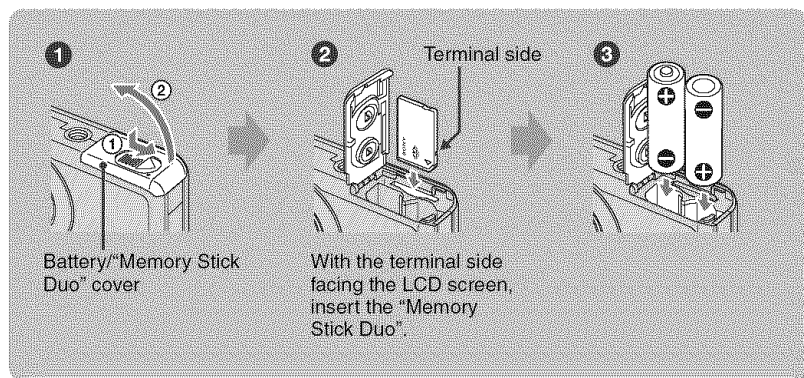


- CD-ROM (1)
 - Cyber-shot application software
 - “Cyber-shot Handbook”
 - “Cyber-shot Step-up Guide”
- Instruction Manual (this manual) (1)

Attach the strap to prevent the camera from damage by being dropped.



1 Inserting the batteries/a “Memory Stick Duo” (not supplied)



- 1** Open the battery/“Memory Stick Duo” cover.
- 2** Insert the “Memory Stick Duo” (not supplied) all the way in until it clicks.
- 3** Match +/- and insert.
- 4** Close the battery/“Memory Stick Duo” cover.

! When there is no “Memory Stick Duo” inserted

The camera records/plays back images using the internal memory (approx. 22 MB).

! Batteries you can and cannot use with your camera

Battery type	supplied	supported	rechargeable
LR6 (size AA) alkaline batteries	○	○	—
HR 15/51:HR6 (size AA) Nickel-Metal Hydride batteries	—	○	○
ZR6 (size AA) Oxy Nickel Primary Battery	—	○	—
Manganese batteries*	—	—	—
Lithium batteries*	—	—	—
Ni-Cd batteries*	—	—	—





*Operating performance cannot be ensured if voltage drops or other problems are caused by the nature of the battery.

⚠ WARNING

Battery may explode or leak if mistreated. Do not recharge, disassemble or dispose of in fire. Check the valid date (month-year) displayed on the batteries.

⚠ To check the remaining battery time

Press POWER to turn on and check the time on the LCD screen.

Battery remaining indicator				
Battery remaining guidelines	Sufficient power remaining	Battery half full	Battery low, recording/playback will stop soon.	Replace the batteries with new ones, or fully charged Nickel-Metal Hydride batteries. (The warning indicator flashes.)

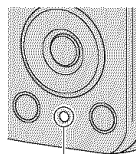
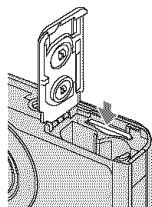
- The battery remaining indicator may not be correct depending on conditions of use and circumstances.
- When using alkaline batteries/Oxy Nickel Primary Battery, the battery remaining indicator may not display the correct information.
- When the AC Adaptor (not supplied) is used, the battery remaining indicator is not displayed.

⚠ To remove the batteries/"Memory Stick Duo"

Open the battery/"Memory Stick Duo" cover.

"Memory Stick Duo"

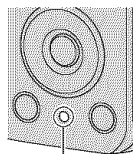
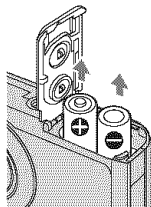
Make sure that the **access lamp** is not lit, then push the "Memory Stick Duo" in once.



Access lamp

Batteries

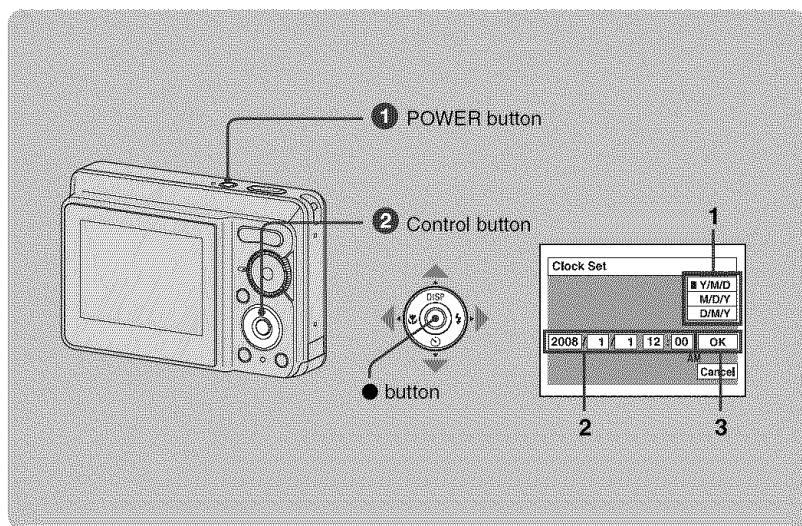
Be sure not to drop the batteries.



Access lamp

- Never open the battery /"Memory Stick Duo" cover or remove the batteries /"Memory Stick Duo", when the access lamp is lit. This may cause damage to data in the "Memory Stick Duo"/internal memory.

2 Turning the camera on/setting the clock



1 Press POWER.

2 Set the clock with the control button.

- 1 Select the date display format with ▲/▼, then press ●.
- 2 Select each item with ◀/▶ and set the numeric value with ▲/▼, then press ●.
- 3 Select [OK] with ▶, then press ●.

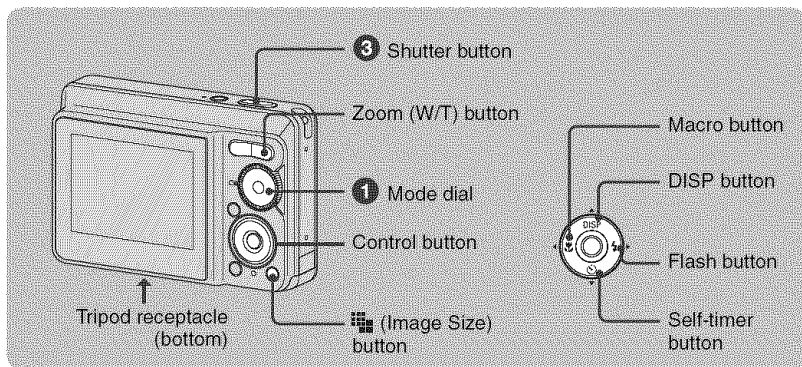
|| To change the date and time

Select [Clock Set] in the  (Setup) screen (page 19).

|| When you turn on the power


- Unless you set the clock, the Clock Set screen appears each time the camera is turned on.
- If the camera is running on battery power and you do not operate the camera for about three minutes, the camera turns off automatically to prevent wearing down the battery (Auto power-off function).

Shooting images easily

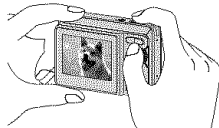


① Select a mode with the mode dial.

Still image (auto adjustment mode): Select .

Movie: Select .

② Hold the camera steady, keeping your arms at your side.



Position the subject in the center of the focus frame.

③ Shoot with the shutter button.

Still image:

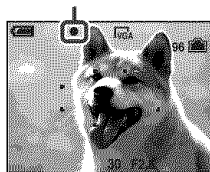
1 Press and hold the shutter button halfway down to focus.

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

2 Press the shutter button fully down.

The shutter sounds.

AE/AF lock indicator



Movie:

Press the shutter button fully down.

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

Mode dial/Zoom/Flash/Macro/Self-timer/Display/Image size

Using the mode dial

Set the mode dial to the desired function.

Auto Adjustment

Allows easy shooting with the settings adjusted automatically.

P Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). You can adjust other settings using the menu.

Movie

Allows you to record movies.

High Sensitivity

Shoots images without a flash even in low lighting.

Soft Snap

Shoots a person's skin with a warmer look.

Landscape

Shoots with the focus on a distant subject.

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.

Beach

Shoots seaside or lakeside scenes with the blueness of the water captured more vividly.


Snow

Shoots snow scenes in white more clearly.

W/T Using the zoom

Press T to zoom, press W to undo zoom.


Flash (Selecting a flash mode for still images)

Press  on the control button repeatedly until the desired mode is selected.


(No indicator): Flash Auto

Strobes when there is insufficient light (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

Macro (Shooting close-up)

Press  on the control button repeatedly until the desired mode is selected.

(No indicator): Macro Off

: Macro On (W side: Approx. 5 cm or farther (2 inches or farther), T side: Approx. 35 cm or farther (13 7/8 inches or farther) from the front of the lens)

Using the self-timer

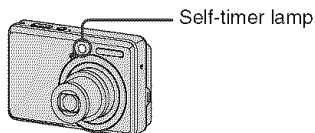
Press \blacktriangledown (Self-Timer) on the control button repeatedly until the desired mode is selected.

(No indicator): Not using the self-timer

\odot : Setting the 10-second delay self-timer

\odot : Setting the 2-second delay self-timer

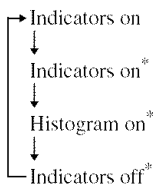
When you press the shutter button, the self-timer lamp flashes and a beep sounds until the shutter operates.



DISP Changing the screen display

Press \blacktriangle (DISP) on the control button.

Each time you press \blacktriangle (DISP), the display changes as follows:



*The brightness of the LCD Backlight up

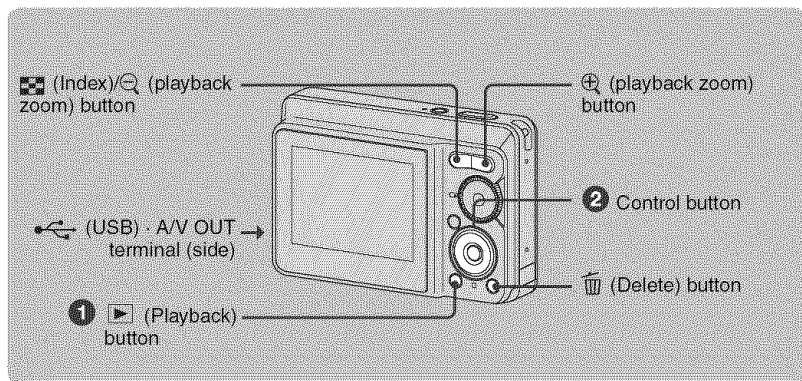
To change the still image size

Press Image Size (Image Size), then press $\blacktriangle/\blacktriangledown$ to select the size.



To turn off the Image Size menu, press Image Size again.

Image size	Guidelines
7M : 7M	Up to A3/11×17" print
3:2 : 3:2	Match 3:2 Aspect Ratio
5M : 5M	Up to A4/8×10" print
3M : 3M	Up to 13×18cm /5×7" print
VGA : VGA	For E-mail
16:9 : 16:9	Display On 16:9 HDTV

Viewing/deleting images








1 Press (Playback).

If you press  when the camera is powered off, the camera is turned on automatically and set to playback mode. To switch to the shooting mode, press  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.)


• You cannot listen to the audio with this camera when a movie is played back. To listen to the audio, connect with external outputs such as a TV, a speaker, etc.


To delete images





1 Display the image you want to delete and press  (Delete).


2 Select [Delete] with , then press .

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 .

To view an index screen

Press  (Index) and select an image with  /  /  / . To display the next (previous) index screen, press .

To return to the single image screen, press .

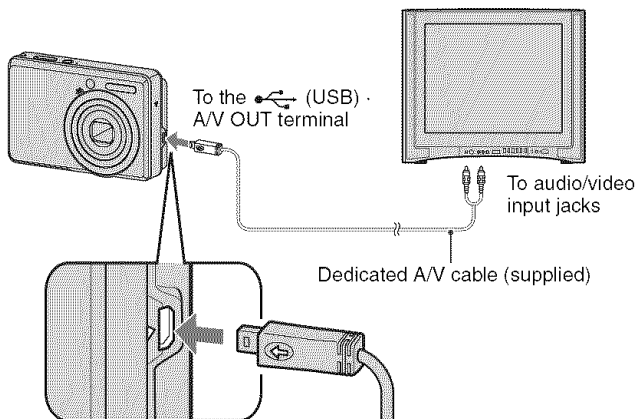
|| To delete images in index mode

- 1 While an index screen is displayed, press  (Delete) and select [Select] with / on the control button, then press .
- 2 Select the image you want to delete with ///, then press  to display the  (Delete) indicator on the selected image.
- 3 Press  (Delete).
- 4 Select [OK] with , then press .

|| To view images on TV

Connect the camera to the TV with the dedicated A/V cable (supplied).

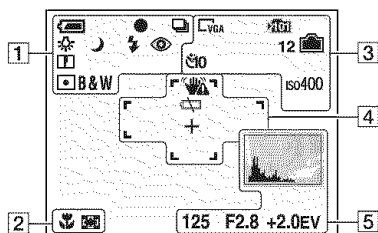
- Align the arrow mark on the dedicated A/V cable connector with the triangular mark beside the A/V OUT terminal and connect the cable to the camera.



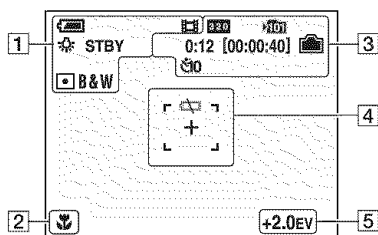
Indicators on the screen

Each time you press ▲ (DISP) on the control button, the display changes (page 14).

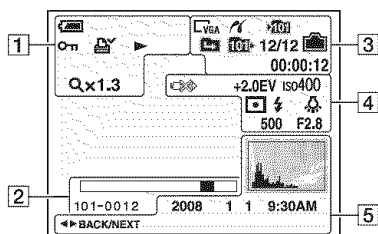
When shooting still images



When shooting movies






When playing back


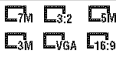








	Battery remaining
	AE/AF lock
	Recording mode
	White balance
	Standby/Recording a movie
	Mode dial (Scene Selection)
	Mode dial (Program Auto)
	Camera mode
	Playback mode
	Flash mode
	Flash charging
	Zoom scaling
	Red-eye reduction
	Sharpness
	Metering mode
	Color mode
	Protect
	Print order (DPOF) mark
	Zoom scaling
	Playback








2

	Macro
	AF range finder frame indicator
1.0m	Focus preset distance
101-0012	Folder-file number
	Playback bar

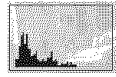

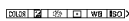
3

	PictBridge connecting
	Image size
	Recording folder
	Changing folder
	Playback folder
	Remaining internal memory capacity
	Remaining "Memory Stick" capacity
0:12 [00:00:40]	Recording time [maximum recordable time]
12	Remaining number of recordable images
	Self-timer
ISO400	ISO number
12/12	Image number/Number of images recorded in selected folder
00:00:12	Counter

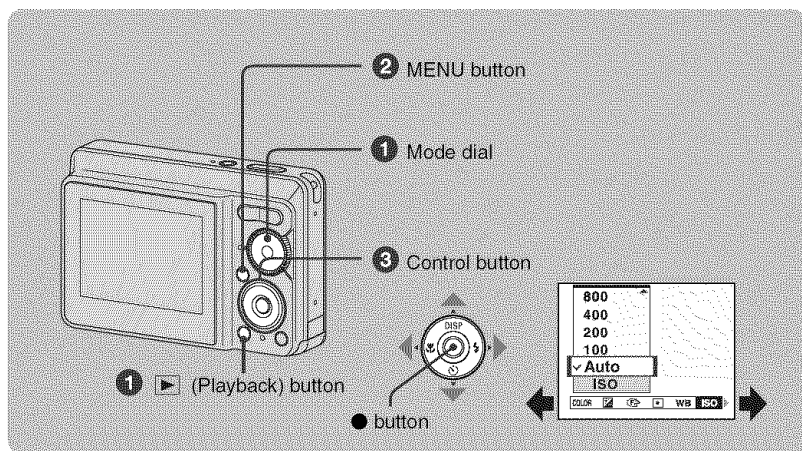
4

	Vibration warning
	Low battery warning
	PictBridge connecting
+2.0EV	Exposure Value
ISO400	ISO number
	Metering mode
	Flash
	White balance
+	Spot metering cross hairs
	AF range finder frame
500	Shutter speed
F2.8	Aperture value

5

	Histogram
125	Shutter speed
F2.8	Aperture value
+2.0EV	Exposure Value
2008 1 1 9:30 AM	Recorded date/time of the playback image
	Selecting images
	Menu

Changing the settings – Menu/Setup



1 Recording: Turn on the camera, then set the mode dial.

Playback: Press (Playback).

Different items are available depending on the position of the mode dial and Recording/Playback mode.

2 Press MENU to display the menu.

3 Select the desired menu item with on the control button.

- If the desired item is invisible, keep pressing until the item appears on the screen.
- Select an item in playback mode, and press .

4 Select a setting with .

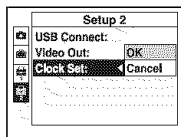
The setting you select is zoomed and set.

5 Press MENU to turn off the menu.

To select a Setup item

Press and hold MENU, or select (Setup) in step 3 and then press .







Select the item to set with , then press .










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.

Shooting menu

COLOR (Color Mode)	Changes the vividness of the image or adds special effects.
 EV	Adjusts Exposure.
 (Focus)	Changes the focus method.
 (Metering Mode)	Selects the metering mode.
WB (White Bal)	Adjusts the color tones.
ISO	Selects a luminous sensitivity.
Mode (REC Mode)	Selects the continuous shooting method.
 (Flash Level)	Adjusts the amount of flash light.
 (Sharpness)	Adjusts the sharpness of the image.
 (Setup)	Changes Setup items.

Viewing menu

 (Folder)	Selects the folder for viewing images.
 (Protect)	Prevents accidental erasure.
DPOF	Adds a Print order mark.
 (Print)	Prints images using a PictBridge compliant printer.
 (Slide)	Plays back a series of images.
 (Resize)	Changes the image size of a recorded image.
 (Rotate)	Rotates a still image.
 (Setup)	Changes Setup items.
Trimming	Records an enlarged image (Available only for playback zoom).

Setup items

Camera

Digital Zoom	Selects the digital zoom mode.
Function Guide	Displays the description of functions when you operate the camera.
Red Eye Reduction	Reduces the red-eye phenomenon when using the flash.
Auto Review	Displays the recorded image on the screen for approximately two seconds immediately after shooting a still image.


Internal Memory Tool

Format	Formats the internal memory.
--------	------------------------------

Memory Stick Tool

Format	Formats the "Memory Stick Duo".
Create REC. Folder	Creates a folder in a "Memory Stick Duo" for recording images.
Change REC. Folder	Changes the folder currently used for recording images.
Copy	Copies all images in the internal memory to a "Memory Stick Duo".

Setup1

Beep	Selects the sound produced when you operate the camera.
 Language	Selects the language to be used in the menu items, warnings, and messages.
Initialize	Initializes the setting to the default setting.

Setup2

USB Connect	Selects the USB mode to be used when connecting the camera to a computer or a PictBridge compliant printer using the dedicated USB cable.
Video Out	Sets the video signal output according to the TV color system of the connected video equipment.
Clock Set	Sets the date and time.

Enjoying your computer

You can view images shot with the camera on a computer. By using the software in the CD-ROM (supplied), you can enjoy still images and movies from the camera more than ever. For details, refer to "Cyber-shot Handbook" in the CD-ROM (supplied).

Supported Operating Systems for USB connection and application software (supplied)

	For Windows users	For Macintosh users
USB connection	Windows 2000 Professional SP4, Windows XP* SP2, Windows Vista*	Mac OS 9.1/9.2/ Mac OS X(v10.1 to v10.4)
Application software "Picture Motion Browser"	Windows 2000 Professional SP4, Windows XP* SP2, Windows Vista*	not compatible

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

- Your computer must be pre-installed with an OS listed above. OS upgrades are not supported.
- If your OS does not support USB connections, use a commercially available Memory Stick Reader/Writer.
- For further details on the operating environment of "Picture Motion Browser" Cyber-shot application software, refer to "Cyber-shot Handbook."



Viewing “Cyber-shot Handbook”

“Cyber-shot Handbook” in the CD-ROM (supplied) explains how to use the camera in detail. Adobe Reader is required to view it.

For Windows users

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



When you click the [Cyber-shot Handbook] button, the screen for copying “Cyber-shot Handbook” appears.

- 2 Follow the on-screen instructions to copy.
 - When you install “Cyber-shot Handbook,” the “Cyber-shot Step-up Guide” will be installed automatically.
- 3 After the installation is complete, double-click the shortcut created 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”.

Battery life and memory capacity

Battery life and number of images you can record/view

The numbers shown in the following tables assume new batteries are used at an ambient temperature of 25 °C (77 °F). The numbers shown for images you can record/view are approximations and allow for changing of the “Memory Stick Duo” as necessary. Note that the actual numbers may be less than those indicated in the table depending on the conditions of use.

When shooting still images

Battery	Battery life (min.)	No. of images
Alkaline	Approx. 50	Approx. 100

- Shooting in the following situations:
 - Shooting once every 30 seconds.
 - The zoom is switched alternately between the W and T ends.
 - The flash strobes once every two times.
 - The power turns on and off once every ten times.
- The measurement method is based on the CIPA standard.
(CIPA: Camera & Imaging Products Association)
- The battery life and the number of images do not change, regardless of image size.

When viewing still images

Battery	Battery life (min.)	No. of images
Alkaline	Approx. 350	Approx. 7000

- Viewing single images in order at about three second intervals

Notes on the batteries

- The battery capacity decreases as the number of uses increases and also over time.
- The battery life and the number of images you can record/view are decreased under the following conditions:
 - The surrounding temperature is low.
 - The flash is used frequently.
 - The camera has been turned on and off many times.
 - The zoom is used frequently.
 - The brightness of LCD Backlight is set to up.
 - The battery power is low.
- The values shown for alkaline battery are based on commercial norms, and do not apply to all alkaline batteries in all conditions. The values may vary, depending on the battery manufacturer/type, environmental conditions, product setting, etc.
- The supplied alkaline battery is for trial use only. You may need to purchase an additional battery for regular camera use.

Number of still images and recording time of movies

The number of still images and the length of time for movies may vary depending on the shooting conditions and the recording mediums.

- Even if the capacity of your recording media is the same as the one in the table below, the number of still images and the length of time for movies may be different.
- For details on the image size, see page 14.

▮ The approximate number of still images

(Units: Images)

Capacity Size	Internal memory	"Memory Stick Duo" formatted with this camera						
	Approx. 22MB	128MB	256MB	512MB	1GB	2GB	4GB	8GB
7M	7	41	74	153	313	631	1249	2508
3:2	7	41	74	153	313	631	1249	2508
5M	10	51	92	191	390	787	1557	3127
3M	16	82	148	306	626	1262	2498	5017
VGA	139	780	1428	2941	6013	12121	23983	48166
16:9	25	133	238	490	1002	2020	3997	8027

- The number of images listed is for when [Mode] is set to [Normal].
- When the number of remaining shootable images is greater than 9,999, the ">9999" indicator appears.
- You can resize the images later ([Resize], page 20).
- When an image was recorded using an earlier Sony model and is played back on the camera, the image may not appear in the actual image size.

|| The approximate recording time of movies

The numbers in the table below show the approximate maximum recordable time obtained by totaling all movie files. The maximum length of time you can shoot continuously is about 10 minutes.

(Units: hour : minute : second)

Capacity Size	Internal memory	"Memory Stick Duo" formatted with this camera						
	Approx. 22MB	128MB	256MB	512MB	1GB	2GB	4GB	8GB
320×240	0:01:00	0:05:50	0:10:40	0:22:00	0:45:00	1:30:50	2:59:50	6:01:10

- The aspect ratio of the movie frame is 320×240.

Troubleshooting

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

1 Check the items below, and refer to “Cyber-shot Handbook” (PDF).

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

3 Initialize the settings (page 21).

4 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 may be checked.

Batteries and power

The battery remaining indicator is incorrect, or sufficient battery remaining indicator is displayed but the power runs out too quickly.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- When using alkaline batteries/Oxy Nickel Primary Battery (not supplied), the displayed time remaining may not be correctly indicated.
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries (not supplied) (page 9).
- When using the Nickel-Metal Hydride batteries, the poles of batteries or the terminals of the battery cover are dirty so the batteries are not charged sufficiently. Clean them with a cotton swab, etc.
- When using the Nickel-Metal Hydride batteries, the displayed time remaining differs from the current one due to the memory effect, etc. Fully discharge and then charge the batteries to correct the display.
- The batteries are dead. Replace them with new ones.

The batteries run down too quickly.

- You are using the camera in an extremely cold location.
- The batteries are dead. Replace them with new ones.
- When using the Nickel-Metal Hydride batteries, charge them sufficiently.

Camera power is turned off automatically when you open the battery/“Memory Stick Duo” cover.

- This is not a malfunction. Turn off the camera before you open the battery/“Memory Stick Duo” cover.

Cannot turn on the camera.



- Insert the batteries correctly (page 9).
- Properly connect the AC Adaptor (not supplied).
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries (page 9).
- The batteries are dead. Replace them with new ones.

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 batteries. Turn on the camera again (page 11).
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries (page 9).

Shooting still images/movies

Cannot record images.

- Check the free capacity of the internal memory or “Memory Stick Duo” (pages 25, 26). If it is full, do one of the following:
 - Delete unnecessary images (page 15).
 - 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.

Cannot insert dates on images.


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

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) (page 15).
- The folder/file name has been changed on your computer.
- 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.

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 shoot with moisture remaining inside the lens, images will not be clear.

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 batteries with enough power remaining in the camera, and leave the camera for 24 hours or more with the power off.

Specifications

Camera

[System]

Image device: 7.20 mm (1/2.5 type) color CCD,

Primary color filter

Total pixel number of camera:

Approx. 7 410 000 pixels

Effective pixel number of camera:

Approx. 7 201 000 pixels

Lens: 3× zoom lens $f = 5.8 - 17.4$ mm (35 – 105 mm when converted to a 35 mm still camera) F2.8 (W) – 4.8 (T)

Exposure control: Automatic exposure, Scene Selection (7 modes)

White balance: Automatic, Daylight, Cloudy, Fluorescent, Incandescent, Flash

File format (DCF compliant):

Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible

Movies: AVI (Motion JPEG)

Recording media: Internal Memory (approx. 22 MB), "Memory Stick Duo"

Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto): approx. 0.5 to 3.5 m (1 foot 7 3/4 inches to 11 feet 5 7/8 inches) (W)/approx. 0.5 to 2.0 m (1 foot 7 3/4 inches to 6 feet 6 3/4 inches) (T)

[Input and Output connectors]

⚡ (USB)•A/V OUT terminal:

Video, Audio (Monaural), USB communication

USB communication:

Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: 6.0 cm (2.4 type) TFT drive

Total number of dots: 112 320 (480×234) dots

[Power, general]

Power: LR6 (size AA) Alkaline batteries (2), 3 V

HR15/51:HR6 (size AA) Nickel-Metal

Hydride batteries (2) (not supplied), 2.4 V

ZR6 (size AA) Oxy Nickel Primary Battery

(2) (not supplied), 3 V

AC-LS5K AC Adaptor (not supplied), 4.2 V

Power consumption (during shooting): 1.2 W

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

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

Dimensions: 91.4×61.0×29.1 mm (3 5/8×2 1/2× 1 3/16 inches) (W/H/D, excluding protrusions)

Mass: Approx. 189 g (6.7 oz) (including two batteries and strap, etc.)

Microphone: Monaural

Buzzer


Exif Print: Compatible

PRINT Image Matching III: Compatible

PictBridge: Compatible

Design and specifications are subject to change without notice.

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<http://www.sony.net/>



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