
Digital Still Camera / Instruction Manual

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數位照相機 / 使用說明書

CT

Cyber-shot



Learning more about the camera (“Cyber-shot User Guide”)



“Cyber-shot User Guide” is an on-line manual. Refer to it for in-depth instructions on the many functions of the camera.

- ① Access the Sony support page.
<http://www.sony.net/SonyInfo/Support/>
- ② Select your country or region.
- ③ Search for the model name of your camera within the support page.
 - Check the model name on the bottom of your camera.

Checking the supplied items

The number in parentheses indicates the number of pieces.

- Camera (1)
- Rechargeable battery pack NP-BN (1)
(This rechargeable battery pack cannot be used with Cyber-shot that are supplied with the NP-BN1 battery pack.)
- Dedicated USB cable (1) (Sony Corporation 1-834-331-)
- AC Adaptor AC-UB10C (1)
- Power cord (mains lead) (not supplied in the USA and Canada) (1)
- Wrist strap (1)
- Instruction Manual (this manual) (1)

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 your Sony dealer regarding this product.

Model No. DSC-W710

Serial No. _____

Model No. AC-UB10C

Serial No. _____

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WARNING

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

IMPORTANT SAFETY INSTRUCTIONS -SAVE THESE INSTRUCTIONS

DANGER

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.

- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

| AC Adaptor

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

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.rbrc.org/>

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

| Battery pack

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.

This Class B digital apparatus complies with Canadian ICES-003.

For Customers in the U.S.A.

UL is an internationally recognized safety organization.
The UL Mark on the product means it has been UL Listed.

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.

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Regulatory Information

Declaration of Conformity

Trade Name: SONY
Model No.: DSC-W710
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

Notice for the customers in the countries applying EU Directives

This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative, Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

This product has been tested and found compliant with the limits set out in the EMC regulation 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.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

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 customers in the United Kingdom

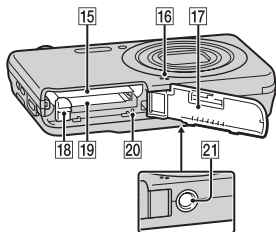
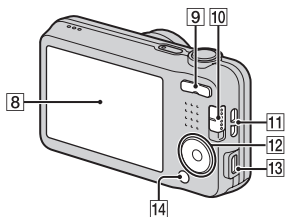
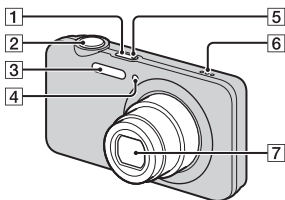
A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

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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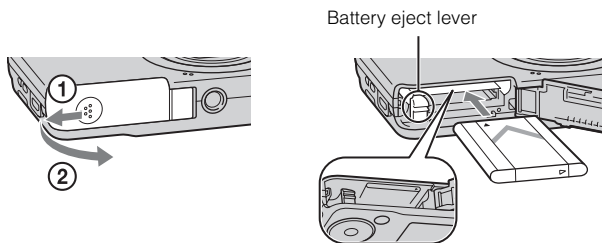
Identifying parts



- 1** ON/OFF (Power) button
- 2** Shutter button
- 3** Flash
- 4** Self-timer lamp/Smile Shutter lamp/AF illuminator
- 5** Charge lamp
- 6** Speaker
- 7** Lens
- 8** LCD screen

- 9** W/T (zoom) button
- 10** Mode switch
 (Still Image)/ (Sweep Panorama)/ (Movie)
- 11** Hook for wrist strap
- 12** Control button
 MENU on: ///
 MENU off:  (Playback)/
 (Delete)/ (Self-Timer)/
 (Flash)
- 13** USB / A/V OUT terminal
- 14** MENU button
- 15** Battery insertion slot
- 16** Microphone
- 17** Battery/Memory card cover
- 18** Battery eject lever
- 19** Memory card slot
- 20** Access lamp
- 21** Tripod socket hole
 - Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

Inserting the battery pack



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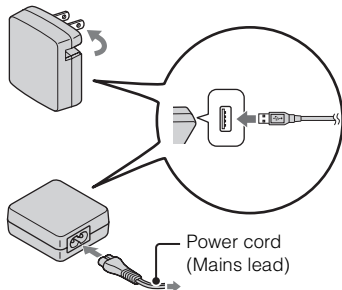
1 Open the cover.

2 Insert the battery pack.

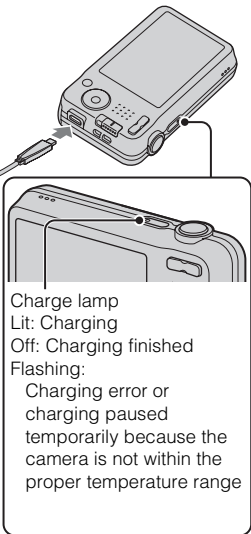
- While pressing the battery eject lever, insert the battery pack as illustrated. Make sure that the battery eject lever locks after insertion.
- Closing the cover with the battery inserted incorrectly may damage the camera.

Charging the battery pack

**For customers in the USA
and Canada**



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



- 1 Connect the camera to the AC Adaptor (supplied), using the dedicated USB cable (supplied).
- 2 Connect the AC Adaptor to the wall outlet (wall socket). The Charge lamp lights orange, and charging starts.
 - Turn off the camera while charging the battery.
 - You can charge the battery pack even when it is partially charged.
 - When the Charge lamp flashes and charging is not finished, remove and re-insert the battery pack.

Notes

- If the Charge lamp on the camera flashes when the AC Adaptor is connected to the wall outlet (wall socket), this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- The battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the terminal section of the battery. GB
- Connect the AC Adaptor (supplied) to the nearest wall outlet (wall socket). If malfunctions occur while using the AC Adaptor, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).
- Be sure to use only genuine Sony brand battery packs, dedicated USB cable (supplied) and AC Adaptor (supplied).

■ Charging time (Full charge)

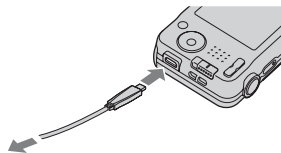
The charging time is approximately 115 min. using the AC Adaptor (supplied).

Notes

- The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

■ Charging by connecting to a computer

The battery pack can be charged by connecting the camera to a computer using the dedicated USB cable.



To a USB jack

Notes

- Note the following points when charging via a computer:
 - If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not charge for an extended period of time.
 - Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. The camera may cause a malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera and the computer.
 - No guarantees are made for charging using a custom-built computer or a modified computer.

■ Battery life and number of images that can be recorded and played back

	Battery life	Number of images
Shooting (still images)	Approx. 110 min.	Approx. 220 images
Actual shooting (movies)	Approx. 50 min.	—
Continuous shooting (movies)	Approx. 110 min.	—
Viewing (still images)	Approx. 175 min.	Approx. 3500 images

- The above number of images applies when the battery pack is fully charged. The number of images may decrease depending on the conditions of use.
- The number of images that can be recorded is for shooting under the following conditions:
 - Using Sony “Memory Stick PRO Duo” (Mark2) media (sold separately)
 - The battery pack is used at an ambient temperature of 25°C (77°F).
- The number for “Shooting (still images)” is based on the CIPA standard, and is for shooting under the following conditions:
(CIPA: Camera & Imaging Products Association)
 - [SteadyShot] is set to [Off].
 - [Disp. Resolution] is set to [Standard].
 - 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 battery life for movies applies shooting under the following conditions:
 - Recording mode: 1280×720
 - When continuous shooting ends because of set limits (29 minutes), press the shutter button again to continue shooting. Shooting functions such as zoom will not operate.
 - The above “Actual shooting (movies)” indicates the approximate shooting time as a guideline when you repeatedly perform shooting, zooming, standby for shooting, and turning on and off the camera.


■ Supplying power

The camera can be supplied with power from the wall outlet (wall socket) by connecting to the AC Adaptor (supplied), using the dedicated USB cable (supplied).

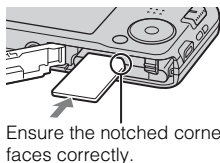
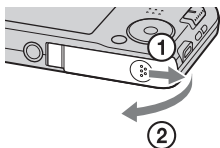
You can import images to a computer without worrying about draining the battery pack by connecting the camera to a computer using the dedicated USB cable.

In addition, you can use the AC Adaptor AC-UD10 (sold separately) or AC-UD11 (sold separately) to supply power when shooting.

Notes

- Power cannot be supplied when the battery pack is not inserted in the camera.
- When the camera is connected directly to a computer or to a power outlet using the supplied AC Adaptor, power supply is available only in playback mode. If the camera is in shooting mode or while you are changing the settings of the camera, power is not supplied even if you make a USB connection using the dedicated USB cable.
- If you connect the camera and a computer using the dedicated USB cable while the camera is in playback mode, the display on the camera will change from the playback screen to the USB connection screen. Press  (Playback) on the control button to switch to the playback screen.
- The AC Adaptor AC-UD11 (sold separately) may not be available in some countries/regions.

Inserting a memory card (sold separately)



1 Open the cover.

2 Insert the memory card (sold separately).

- With the notched corner facing as illustrated, insert the memory card until it clicks into place.

3 Close the cover.

Memory cards that can be used

	Memory card	For still images	For movies
A	Memory Stick PRO Duo	✓	✓ (Mark2 only)
	Memory Stick PRO-HG Duo	✓	✓
	Memory Stick Duo	✓	—
B	Memory Stick Micro (M2)	✓	✓ (Mark2 only)
C	SD memory card	✓	✓ (Class 4 or faster)
	SDHC memory card	✓	✓ (Class 4 or faster)
D	microSD memory card	✓	✓ (Class 4 or faster)
	microSDHC memory card	✓	✓ (Class 4 or faster)

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- In this manual, the products in the table are collectively referred to as follows:

- A:** “Memory Stick Duo” media
- B:** “Memory Stick Micro” media
- C:** SD card
- D:** microSD memory card

Notes

- To use a “Memory Stick Micro” media or microSD memory card with the camera, be sure to insert it into a dedicated adaptor first.

To remove the memory card/battery pack

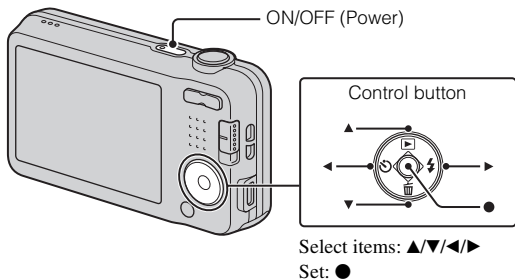
Memory card: Push the memory card in once to eject the memory card.

Battery pack: Slide the battery eject lever. Be sure not to drop the battery pack.

Notes

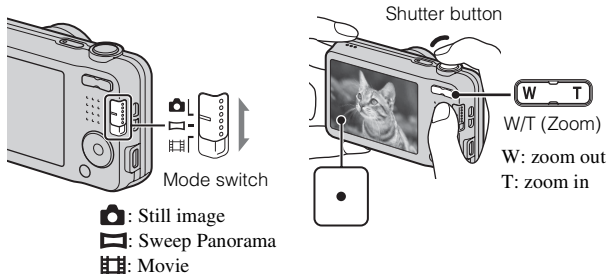
- Never remove the memory card/battery pack when the access lamp (page 8) is lit. This may cause damage to data in the memory card/internal memory.

Setting the clock



- 1** Press the ON/OFF (Power) button.
Date & Time setting is displayed when you turn on the camera for the first time.
 - It may take time for the power to turn on and allow operation.
- 2** Select a desired language.
- 3** Select a desired geographic location by following the on-screen instructions, then press ● on the control button.
- 4** Set [Date & Time Format], [Summer Time] and [Date & Time], then select [OK] → [OK].
 - Midnight is indicated as 12:00 AM, and noon as 12:00 PM.
- 5** Follow the instructions on the screen.
 - If you set [Disp. Resolution] to [High], the battery charge may be depleted faster.

Shooting still images/movies



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Shooting still images

- 1 Press the shutter button halfway down to focus.
When the image is in focus, a beep sounds and the ● indicator lights.
- 2 Press the shutter button fully down to shoot an image.

Shooting movies

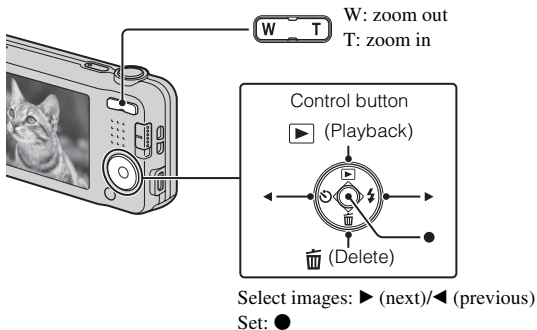
- 1 Press the shutter button fully down to start recording.
 - Use the zoom button to change the zoom scale.
- 2 Press the shutter button fully down again to stop recording.

Notes

- When using the zoom function while shooting a movie, the sound of the lens operating will be recorded.
- The panoramic shooting range may be reduced, depending on the subject or the way it is shot. Therefore even when [360°] is set for panoramic shooting, the recorded image may be less than 360 degrees.

- Continuous shooting is possible for approximately 29 minutes at one time at the camera's default settings and when the temperature is approximately 25°C (77°F). When movie recording is finished, you can restart recording by pressing the shutter button again. Recording may stop to protect the camera depending on the ambient temperature.

Viewing images



1 Press ▶ (Playback) on the control button.

- The last image shot is displayed.

■ Selecting next/previous image

Select an image by pressing ▶ (next)/◀ (previous) on the control button. Press ● in the center of the control button to view movies.

■ Deleting an image

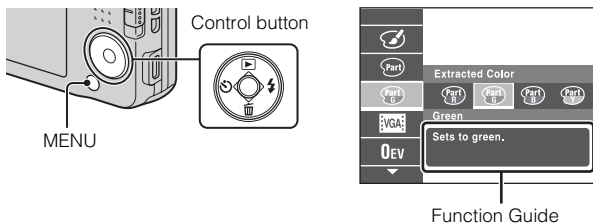
- ① Press ☒ (Delete) on the control button.
- ② Select [This Image] with ▲ on the control button, then press ●.

■ Returning to shooting images

Press the shutter button halfway down.

Introduction of other functions

Other functions used when shooting or playing back can be operated using the control button or MENU button on the camera. This camera is equipped with a Function Guide that allows you to easily select from the functions. While displaying the guide, you can use various functions.



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Control button

- (Playback): Switches the camera to playback mode.
- (Delete): Allows you to delete images.
- (Self-Timer): Allows you to use the self-timer.
- (Flash): Allows you to select a flash mode for still images.

Center button (Tracking focus): The camera tracks the subject and adjusts focus automatically even when the subject is moving.

Menu Items

Shooting

REC Mode	Select still image recording mode.
Movie shooting scene	Select movie recording mode.
Panorama Shooting Scene	Select recording mode when shooting panoramic images.
Scene Selection	Select pre-set settings to match various scene conditions.
Picture Effect	Shoot a still image with an original texture according to the desired effect.
Easy Mode	Shoot still images using minimal functions.

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Color hue	When [Toy camera] is selected in Picture Effect, sets the color hue.
Extracted Color	When [Partial Color] is selected in Picture Effect, selects the color to extract.
Soft Skin Effect	Set the Soft Skin Effect and the effect level.
Still Image Size/ Panorama Image Size/Movie Size	Select the image size for still images, panoramic images or movie files.
Shooting Direction	Set the direction to pan the camera when shooting Sweep Panorama images.
SteadyShot	Select the anti-blur mode.
Exposure Compensation	Adjust the exposure manually.
ISO	Adjust the luminous sensitivity.
White Balance	Adjust color tones of an image.
Focus	Select the focus method.
Metering Mode	Select the metering mode that sets which part of the subject to measure to determine the exposure.
Cont. Shooting Settings	Select single-image mode or burst mode.
Smile Shutter	Set to automatically release the shutter when a smile is detected.
Smile Detection Sensitivity	Set the Smile Shutter function sensitivity for detecting smiles.
Face Detection	Select to detect faces and adjust various settings automatically.
DRO	Set DRO function to correct the brightness and contrast and improve the image quality.





Viewing


Easy Mode	Increase the text size on the screen for ease of use.
Beauty Effect	Retouch a face on a still image.
Retouch	Retouch an image using various effects.
Delete	Delete an image.
Slideshow	Select a method of continuous playback.
Protect	Protect the images.
Print (DPOF)	Add a print order mark to a still image.
Rotate	Rotate a still image.

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Setting items

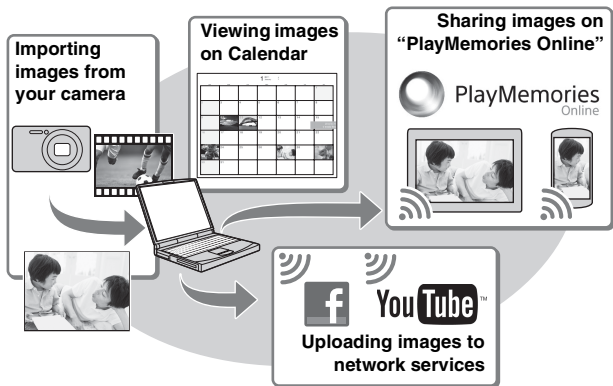
If you press the MENU button while shooting or during playback,  (Settings) is provided as a final selection. You can change the default settings on the  (Settings) screen.

 Shooting Settings	AF Illuminator/Grid Line/Disp. Resolution/Digital Zoom/Red Eye Reduction/Write Date
 Main Settings	Beep/Volume/Panel Brightness/Language Setting/Display color/Initialize/Display Setting/Function Guide/Video Out/USB Connect Setting/USB Power Supply/LUN Setting/Power Save
 Memory Card Tool*	Format/Create REC.Folder/Change REC.Folder/Delete REC.Folder/Copy/File Number
 Clock Settings	Area Setting/Date & Time Setting

* If a memory card is not inserted,  (Internal Memory Tool) will be displayed and only [Format] can be selected.

Features of “PlayMemories Home”

The software “PlayMemories Home” allows you to import still images and movies to your computer and use them.



Downloading “PlayMemories Home” (for Windows only)

You can download “PlayMemories Home” from the following URL:
www.sony.net/pm

Notes

- An Internet connection is required to install “PlayMemories Home”.
- An Internet connection is required to use “PlayMemories Online” or other network services. “PlayMemories Online” or other network services may not be available in some countries or regions.
- “PlayMemories Home” is not compatible with Macs. Use the applications that are installed on your Mac. For details, visit the following URL:
<http://www.sony.co.jp/imsoft/Mac/>

■ Installing “PlayMemories Home” on a computer

- 1 Using the Internet browser on your computer, go to the following URL, then click [Install] → [Run].

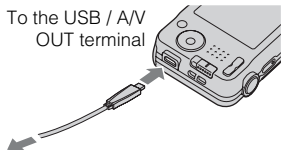
www.sony.net/pm

- 2 Follow the instructions on the screen to complete the installation.

- When the message to connect the camera to a computer is displayed, connect the camera and computer using the dedicated USB cable (supplied).

To the USB / A/V
OUT terminal

To a USB jack



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■ Viewing “PlayMemories Home Help Guide”

For details on how to use “PlayMemories Home”, refer to the “PlayMemories Home Help Guide”.

- 1 Double-click the [PlayMemories Home Help Guide] icon on the desktop.

- To access the “PlayMemories Home Help Guide” from the start menu: Click [Start] → [All Programs] → [PlayMemories Home] → [PlayMemories Home Help Guide].
 - For details on “PlayMemories Home”, you can also see the “Cyber-shot User Guide” (page 2) or the following PlayMemories Home support page (English only):
<http://www.sony.co.jp/pmh-se/>
-

Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

Still images

(Units: Images)

Capacity Size	Internal memory	Memory card
	Approx. 28 MB	2 GB
16M	4	280
VGA	170	11000
16:9(12M)	5	360

Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes (limited by product specifications). For [1280×720] size movies, continuous shooting is possible for approximately 10 minutes (limited by 2 GB file size).

(h (hour), m (minute), s (second))

Capacity Size	Internal memory	Memory card
	Approx. 28 MB	2 GB
1280×720	—	8 m
VGA	25 s	25 m
QVGA	1 m	1 h 15 m

Notes on using the camera

On use and care

Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping, or stepping on the product. Be particularly careful of the lens.

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.
- 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.
- If moisture condensation occurs, remove it before using the camera.
- 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.

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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.
- Storing 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 a location that generates strong radio waves, emits radiation or is strongly magnetic place. Otherwise, the camera may not properly record or play back images.
- 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.

Notes on the screen

The 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 screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

On camera's temperature

Your camera and battery may get hot due to continuous use, but it is not a malfunction.

On the overheat protection

Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera.

A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool enough, the power may turn off again or you may be unable to record movies.

On charging the battery

If you charge a battery that has not been used for a long time, you may be unable to charge it to the proper capacity.

This is due to the battery characteristics, and is not a malfunction. Charge the battery again.

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.

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, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.

Maintaining the LCD monitor

- Hand cream or moisturizer left on the screen may dissolve its coating. If you get any on the screen, wipe it off immediately.
- Wiping forcefully with tissue paper or other materials can damage the coating.
- If fingerprints or debris are stuck to the screen of the LCD monitor, we recommend that you gently remove any debris and then wipe the screen clean with a soft cloth.

Specifications

Camera

[System]

Image device: 7.75 mm (1/2.3 type)

CCD, Primary color filter

Total pixel: Approx. 16.4 Megapixels

Effective pixel:

Approx. 16.1 Megapixels

Lens: 5× zoom lens

f = 5 mm – 25 mm (28 mm –
140 mm (35 mm film equivalent))

F3.2 (W) – F6.5 (T)

While shooting movies (16:9):

30.5 mm – 152.5 mm

While shooting movies (4:3):

28 mm – 140 mm

SteadyShot: Electronic

Exposure control: Automatic exposure,
Scene Selection

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

Burst shooting (when shooting with the
largest pixel number):

Approx. 1.0 images/second (up to
100 images)

File format:

Still images: JPEG (DCF, Exif,
MPF Baseline) compliant, DPOF
compatible

Movies: AVI (Motion JPEG)

Recording media: Internal Memory
(Approx. 28 MB), “Memory Stick
Duo” media, “Memory Stick
Micro” media, SD cards, microSD
memory cards

Flash: Flash range (ISO sensitivity
(Recommended Exposure Index)
set to Auto):

Approx. 0.5 m to 2.7 m
(1 ft. 7 3/4 inches to 8 ft.
10 1/8 inches) (W)

Approx. 0.5 m to 1.2 m
(1 ft. 7 3/4 inches to 3 ft.
11 inches) (T)

GB

[Input and Output connectors]

USB / A/V OUT jack:

Video output

Audio output

USB communication

USB communication: Hi-Speed USB
(USB 2.0)

[Screen]

LCD screen:

6.7 cm (2.7 type) TFT drive

Total number of dots:

230 400 dots

[Power, general]

Power: Rechargeable battery pack
NP-BN, 3.6 V

AC Adaptor AC-UB10C, 5 V

Power consumption (during shooting):
1.1 W

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

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

Dimensions (CIPA compliant):
97.0 mm × 55.1 mm × 20.0 mm
(3 7/8 inches × 2 1/4 inches ×
13/16 inches) (W/H/D)

Mass (CIPA compliant) (including NP-BN battery pack, “Memory Stick Duo” media):
Approx. 114 g (4.0 oz)
Microphone: Monaural
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III:
Compatible

AC Adaptor AC-UB10C

Power requirements: AC 100 V to 240 V, 50 Hz/60 Hz, 70 mA
Output voltage: DC 5 V, 0.5 A
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F)
Dimensions:
Approx. 50 mm × 22 mm × 54 mm (2 inches × 7/8 inches × 2 1/4 inches) (W/H/D)
Mass:
For the USA and Canada: Approx. 48 g (1.7 oz)
For countries or regions other than the USA and Canada: Approx. 43 g (1.5 oz)

Rechargeable battery pack NP-BN

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Maximum charge voltage: DC 4.2 V
Maximum charge current: 0.9 A
Capacity:
typical: 2.3 Wh (630 mAh)
minimum: 2.2 Wh (600 mAh)

Design and specifications are subject to change without notice.

Trademarks

- The following marks are trademarks of Sony Corporation.
Cyber-shot, “Cyber-shot,” “Memory Stick PRO Duo,” “Memory Stick PRO-HG Duo,” “Memory Stick Duo,” “Memory Stick Micro”
- Windows is registered trademark of Microsoft Corporation in the United States and/or other countries.
- Mac and Mac OS are registered trademarks of Apple Inc.
- SDHC logo is a trademark of SD-3C, LLC.
- Facebook and the “f” logo are trademarks or registered trademarks of Facebook, Inc.
- YouTube and the YouTube logo are trademarks or registered trademarks of Google Inc.
- In addition, system and product names used in this manual are, in general, trademarks or registered trademarks of their respective developers or manufacturers. However, the TM or ® marks are not used in all cases in this manual.

Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

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

Printed on 70% or more recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.

關於相機的詳細資訊（“Cyber-shot 使用者指南”）



“Cyber-shot 使用者指南”是線上使用說明書。關於相機各種功能的深入使用說明，請參考此書。

- ① 進入 Sony 服務網頁。
<http://www.sony.net/SonyInfo/Support/>
- ② 選擇您的國家與地區。
- ③ 搜尋服務網頁內您相機的型號名稱。
 - 查看您相機底部的型號名稱。

檢查附件

括號中的數字代表的是件數。

- 相機（1）
- 充電電池 NP-BN（1）
（這個充電電池不能用於附有 NP-BN1 電池的 Cyber-shot。）
- 專用的 USB 電纜（1）（Sony Corporation 1-834-331-）
- 電源適配器 AC-UB10C（1）
- 電源線（在美國與加拿大非附件）（1）
- 腕帶（1）
- 使用說明書（本說明書）（1）

警告

為減少發生火災或電擊的危險，請勿讓本機暴露於雨中或受潮。

重要的安全指示

— 請保存這些指示危險

為了降低火災或電擊的危險，請小心遵守這些指示

CT

注意

電池組

如果電池組處理不當，電池組可能會爆炸，造成火災，甚至化學灼傷。請遵循以下注意事項。

- 切勿拆解。
- 切勿擠壓，撞擊電池組或對電池組用力過度，如敲擊，跌落或踩踏在電池組上。
- 切勿短路或讓金屬物品接觸到電池端子。
- 切勿暴露在超過 60 °C 的高溫下，例如直射陽光下，或停在太陽下的汽車內。
- 切勿焚化或丟棄在火中。
- 切勿處理損壞或洩漏的鋰離子電池。
- 務必使用 Sony 原廠的充電器或可對電池組充電的裝置來為電池組充電。
- 電池組應放在幼兒不易觸及的地方。
- 使電池組保持乾燥。
- 請僅使用與 Sony 建議的相同或相等的電池類型進行更換。
- 請依照說明書中的說明正確丟棄舊電池組。

電源供應器 / 電源適配器

使用電源供應器 / 電源適配器時，請使用附近牆上的電源插座。如果在設備時發生任何故障，請立即將電源供應器 / 電源適配器從牆上的電源插座拔掉。

注意

本產品已經過測試並確定符合 EMC 規定中所提出的使用連接電纜不得超過 3 公尺的限制。

注意

特定頻率的電磁場可能會影響此機的畫面和聲音。

通知

如果靜電或電磁導致資料傳送中斷（失敗），請重新啟動應用程式或斷開連接，並重新連接通信電纜（USB 等）。

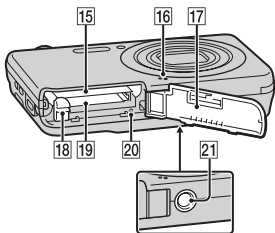
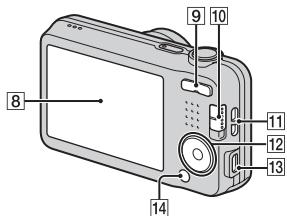
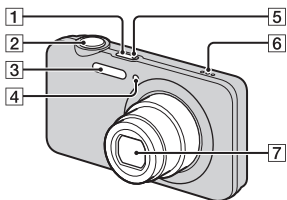
僅適用於台灣



廢電池請回收

附屬電纜上附有鐵芯時的注意事項：USB 電纜或 A/V 連接電纜或電源適配器之 DC 輸出線上的一个鐵芯係抑制電磁波干擾用，請勿任意拆卸。

認識各部件



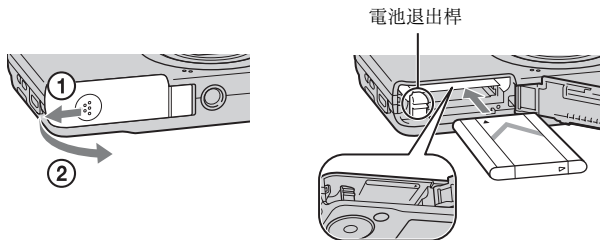
- 1 ON/OFF (電源) 按鈕
- 2 快門按鈕
- 3 閃光燈
- 4 自拍定時器指示燈 / 微笑快門指示燈 / AF 照明器
- 5 充電指示燈
- 6 揚聲器
- 7 鏡頭
- 8 LCD 螢幕

- 9 W/T (變焦) 按鈕
- 10 模式開關
 ☺ (靜態影像) / 📷 (全景攝影) / 📹 (動態影像)
- 11 腕帶用掛勾
- 12 控制按鈕
 MENU 開啟: ▲/▼/◀/▶
 MENU 關閉: ▶ (播放) /
 🗑️ (刪除) / ⌚ (自拍定時器) /
 ⚡ (閃光燈)
- 13 USB / A/V OUT 端子
- 14 MENU 按鈕
- 15 電池插槽
- 16 麥克風
- 17 電池 / 記憶卡蓋子
- 18 電池退出桿
- 19 記憶卡插槽
- 20 存取指示燈
- 21 三腳架螺絲孔

- 請使用螺絲長度在 5.5 公釐以下的三腳架。否則無法將相機牢靠地固定住，而且可能會對相機造成損壞。

CT

插入電池



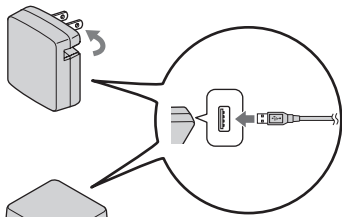
1 打開蓋子。

2 插入電池。

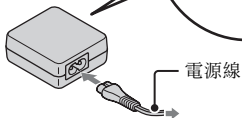
- 如圖所示，在按住電池退出桿的同時將電池插入。確認電池退出桿在插入後有鎖定。
- 電池插入不正確時關上電池蓋可能會損壞相機。

為電池充電

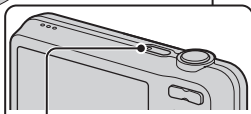
美加地區的用戶



美加以外的國家 / 地區的用戶



電源線



充電指示燈

點亮：充電

關閉：充電完成

閃爍：

因為相機不在適當的溫度範圍內而發生充電錯誤或者充電暫停

CT

1 以專用的 USB 電纜（附件）將相機連接到電源適配器（附件）。

2 將電源適配器連接到牆上的電源插座。

充電指示燈點亮橘色，充電開始。

- 為電池充電時關閉相機。
- 即使電力沒有完全放光，也可以為電池充電。
- 指示燈閃爍而且充電未完成時，取出電池之後再插入。

附註

- 如果相機上的充電指示燈在電源適配器連接到牆上的電源插座時閃爍，表示充電因為溫度超出建議的範圍而暫停。溫度回到適當的範圍內時，會恢復充電。建議您在 10 °C 至 30 °C 的環境溫度下對電池充電。
- 電池的端子部分如果髒了，可能無法有效地充電。遇到這種情況時，請用軟布或棉花棒輕輕地將所有髒東西擦掉，以清潔電池的端子部分。
- 將電源適配器（附件）連接到最近的牆上電源插座。如果使用電源適配器時發生故障，請立即將插頭從插座拔掉以中斷電源。
- 充電完成時，將電源適配器從牆上的電源插座拔掉。
- 務必只使用原廠的 Sony 電池、專用的 USB 電纜（附件）以及電源適配器（附件）。

■ 充電時間（完全充電）

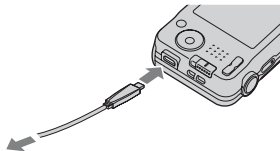
使用電源適配器（附件）時的充電時間大約 115 分鐘。

附註

- 上述充電時間適用於在 25 °C 的溫度下為放完電的電池充電的情況。充電可能因為使用情況或環境而需要長一點的時間。

■ 連接到電腦上充電

以專用的 USB 電纜將相機連接到電腦，便可以為電池充電。



連接到 USB 插孔

附註

- 經由電腦充電時，請注意下列幾點：
 - 如果相機是連接在沒有連接電源的到膝上型電腦，電腦的電池電量會降低。請不要長時間充電。
 - 在相機與電腦之間建立 USB 連接時，不要開 / 關或重新啟動電腦，或者是將電腦從休眠模式中喚醒。相機可能會造成故障。開 / 關電腦或重新啟動電腦，或者喚醒休眠模式中的電腦之前，要中斷相機與電腦的連接。
 - 對於自行組裝的電腦或修改過的電腦，不保證能夠充電。

■ 電池使用時間以及可以記錄與播放的影像數目

	電池使用時間	影像數目
拍攝（靜態影像）	約 110 分	約 220 張影像
實際拍攝（動態影像）	約 50 分	—
連續拍攝（動態影像）	約 110 分	—
檢視（靜態影像）	約 175 分	約 3500 張影像

附註

- 上述影像數目適用於電池充滿電的情況。視使用情況而定，影像的數目可能會減少。
- 可以記錄的影像數目是在下列情況下拍攝的：
 - 使用 Sony “Memory Stick PRO Duo” (Mark2) (另售)
 - 在周邊溫度為 25 °C 時使用電池。
- “拍攝（靜態影像）”的數目以 CIPA 標準為根據，在下列情況下進行拍攝：(CIPA: Camera & Imaging Products Association)
 - [SteadyShot] 設定為 [關]。
 - [顯示解析度] 設定為 [標準]。
 - 每 30 秒鐘拍一張。
 - 變焦在 W 和 T 端交替轉換。
 - 每拍攝兩次閃光燈閃光一次。
 - 每拍攝十次打開和關閉電源一次。
- 動態影像的電池使用時間適用於下列拍攝情況：
 - 記錄模式: 1280 × 720
 - 連續拍攝因為設定限制（29 分鐘）而結束時，再度按下快門按鈕以便繼續拍攝。變焦之類的拍攝功能將無法使用。
 - 上面的“實際拍攝（動態影像）”表示的是當您反復進行拍攝、變焦、拍攝待機以及開關相機時的大約拍攝參考時間。

CT


■ 供電

以專用的 USB 電纜（附件）將相機連接到電源適配器（附件），便可以從牆上的電源插座為相機供電。

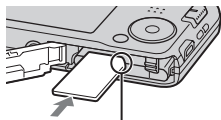
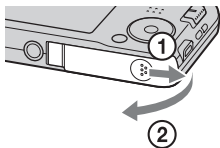
以專用的 USB 電纜將相機連接到電腦，便可以將影像匯入電腦而不必擔心耗用電池的電力。

此外，您可以在拍攝時使用電源適配器 AC-UD10（另售）或 AC-UD11（另售）供電。

附註

- 電池沒有插入相機時不能供電。
- 相機直接連接到電腦或者以隨附的電源適配器連接到電源插座時，只能以播放模式供電。如果相機處於拍攝模式中，或者您正在變更相機的設定，即使以專用的 USB 電纜進行 USB 連接，也無法供電。
- 如果在相機處於播放模式中時，以專用的 USB 電纜連接相機與電腦，相機上的顯示會從播放畫面變成 USB 連接畫面。按控制按鈕上的 （播放），以切換至播放畫面。
- 某些國家 / 地區可能買不到電源適配器 AC-UD11（另售）。

插入記憶卡（另售）



確認缺角那頭朝向正確的方向。

1 打開蓋子。

2 插入記憶卡（另售）。

- 缺角那頭朝向圖示方向，將記憶卡插入到卡入定位為止。

3 關上蓋子。

■ 可以使用的記憶卡

	記憶卡	適用於靜態影像	適用於動態影像
A	Memory Stick PRO Duo	✓	✓ (僅限 Mark2)
	Memory Stick PRO-HG Duo	✓	✓
	Memory Stick Duo	✓	—
B	Memory Stick Micro (M2)	✓	✓ (僅限 Mark2)
C	SD 記憶卡	✓	✓ (等級4或者更快)
	SDHC 記憶卡	✓	✓ (等級4或者更快)
D	microSD 記憶卡	✓	✓ (等級4或者更快)
	microSDHC 記憶卡	✓	✓ (等級4或者更快)

CT

- 在本說明書中，表中的產品統稱如下：

A: “Memory Stick Duo”

B: “Memory Stick Micro”

C: SD 卡

D: microSD 記憶卡

附註

- 若要將 “Memory Stick Micro” 或 microSD 記憶卡用在相機上，務必要先將其插入專用的轉接卡中。

■ 若要取出記憶卡 / 電池

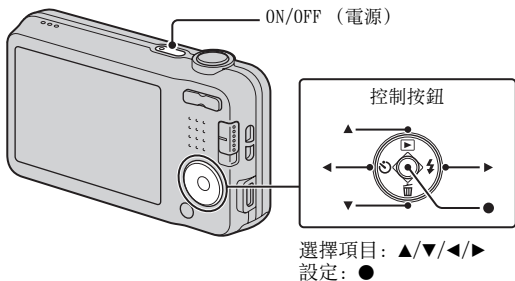
記憶卡：將記憶卡往裡壓一下以退出記憶卡。

電池：推動電池退出桿。小心不要讓電池掉落地上。

附註

- 存取指示燈（第 5 頁）點亮時切勿取出記憶卡 / 電池。這樣可能會對記憶卡 / 內部記憶體中的資料造成損壞。

設定時鐘



1 按 ON/OFF (電源) 按鈕。

日期與時間設定會在您首次開機時顯示出來。

- 可能需要一點時間才能開啟電源並進行操作。

2 選擇要使用的語言。

3 按照螢幕上的指示選擇您要的地區，然後按控制按鈕上的●。

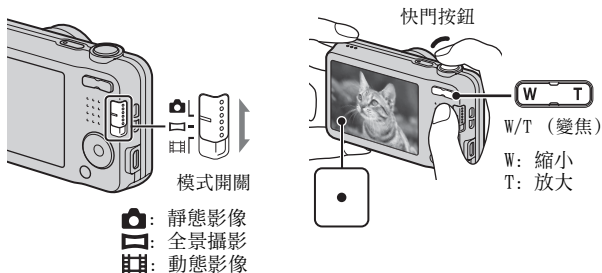
4 設定 [日期時間格式]、[夏令時間] 以及 [日期時間]，然後選擇 [OK] → [OK]。

- 午夜會顯示為 12:00 AM，而正午則是 12:00 PM。

5 按照螢幕上的指示進行。

- 如果將 [顯示解析度] 設定為 [高]，電池的電力可能會消耗得比較快。

拍攝靜態影像 / 動態影像



CT

拍攝靜態影像

- 1 將快門按鈕按下一半以便對焦。
影像合焦時，會發出嗶聲，而且 ● 指示會點亮。
- 2 將快門按鈕完全按下去以拍攝影像。

拍攝動態影像

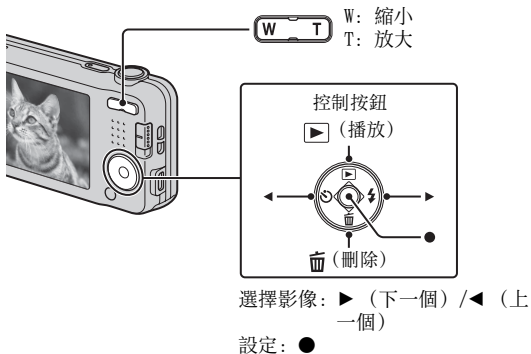
- 1 將快門按鈕完全按下去以便開始記錄。
 - 請用變焦按鈕變更變焦比例。
- 2 再度將快門按鈕完全按下去以便停止記錄。

附註

- 使用變焦功能拍攝動態影像時，鏡頭的運作聲音會被記錄下來。
- 全景攝影的範圍可能會縮小，要視被攝體或者其拍攝方式而定。因此，即使全景攝影設定為 [360°]，記錄到的影像可能不到 360 度。
- 在 25 °C 左右的溫度下，以相機的預設設定拍攝時，一次可以連續拍攝大約 29 分鐘。動態影像記錄完成時，可以再按一下快門按鈕以重新開始記錄。視周遭溫度而定，記錄可能會停止以保護相機。

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觀看影像



1 按控制按鈕上的▶ (播放)。

- 上次拍攝的影像就會顯示出來。

■ 選擇下一個 / 上一個影像

按控制按鈕上的▶ (下一個) / ◀ (上一個) 以選擇一個影像。按控制按鈕中央的● 以觀看動態影像。

■ 刪除影像

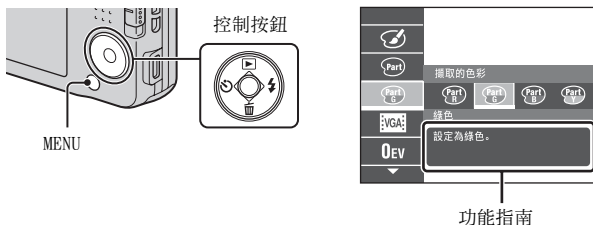
- ① 按控制按鈕上的☒ (刪除)。
- ② 用控制按鈕上的▲ 選擇 [這個影像]，然後按●。

■ 恢復拍攝影像

將快門按鈕按下一半。

其他功能簡介

拍攝或播放時使用的其他功能可以用控制按鈕或相機上的 MENU 按鈕操作。本相機備有功能指南，可以讓您輕鬆地從功能中選擇。顯示指南時，可以使用各種功能。



CT

■ 控制按鈕

▶ (播放)：將相機切換至播放模式。

☒ (刪除)：讓您刪除影像。

⌚ (自拍定時器)：讓您使用自拍定時器。

⚡ (閃光燈)：讓您選擇靜態影像的閃光燈模式。

中間按鈕 (追蹤對焦)：相機會追蹤被攝體，即使被攝體移動，也會自動調整焦距。

■ 功能表項目

拍攝



拍攝模式	選擇靜態影像的記錄模式。
動態影像拍攝場景	選擇動態影像的記錄模式。
全景攝影場景	拍攝全景影像時選擇記錄模式。
場景選擇	選擇預設的設定以便與各種場景條件配合。
相片效果	根據需要的效果以原始紋理拍攝靜態影像。
簡單模式	用最少的功能拍攝靜態影像。
色調	在圖片效果中選擇 [玩具照相機] 時，設定色調。
擷取的色彩	在圖片效果中選擇 [部分色彩] 時，選擇要擷取的顏色。
柔膚效果	設定美膚效果與效果的等級。
靜態影像尺寸 / 全景影像大小 / 動態影像尺寸	為靜態影像、全景影像或動態影像選擇影像尺寸。
拍攝方向	拍攝智慧式全景攝影的影像時設定相機搖攝的方向。
SteadyShot	選擇防止模糊模式。
曝光補償	以手動方式調整曝光。
ISO	調整感光度。
白平衡	調整影像的色調。
對焦	選擇對焦方法。
測光模式	選擇測光模式，設定要測量被攝體的哪個部分以決定曝光值。
連拍設定	選擇單一影像模式或連拍模式。
微笑快門	設定在偵測到微笑時自動釋放快門。
微笑靈敏度	設定微笑快門功能偵測微笑的靈敏度。
面孔偵測	選擇自動偵測面孔並調整各種設定。
DRO	設定 DRO 功能以校正亮度與對比度，並改善影像畫質。





觀看


簡單模式	增加螢幕上的文字尺寸以便於使用。
美容效果	修飾靜態影像上的面孔。
修飾	用各種效果修飾影像。
刪除	刪除一個影像。
循環播放	選擇一種連續播放的方法。
保護	保護影像。
列印 (DPOF)	為一個靜態影像添加列印預訂標記。
轉動	轉動靜態影像。

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設定項目

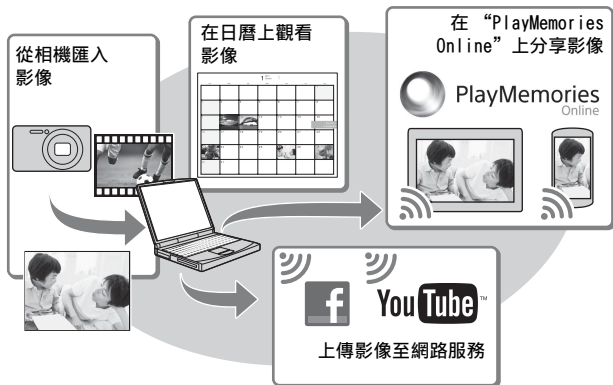
如果在拍攝或播放時按 MENU 按鈕， (設定) 會被提供作為最後的選擇。您可以在  (設定) 畫面上變更出廠設定。

 拍攝設定	AF 照明器 / 格線 / 顯示解析度 / 數位變焦 / 紅眼減弱 / 寫入日期
 主要設定	嗶音 / 音量 / 面板亮度 / Language Setting / 顯示顏色 / 初始化 / 顯示設定 / 功能指南 / 視頻輸出 / USB 連接設定 / USB 電源供給 / LUN 設定 / 省電
 記憶卡工具 *	格式化 / 建立記錄資料夾 / 改變記錄資料夾 / 刪除記錄資料夾 / 複製 / 檔案序號
 時鐘設定	區域設定 / 日期時間設定

* 如果沒有插入記憶卡，會顯示  (內建記憶體工具)，而且只有 [格式化] 可供選擇。

“PlayMemories Home” 的功能

“PlayMemories Home” 軟體可以讓您將靜態影像與動態影像匯入電腦並加以使用。



💡 下載 “PlayMemories Home” (僅限 Windows)

您可以從下列 URL 下載 “PlayMemories Home”：

www.sony.net/pm

附註

- 必須要有網際網路連線才能安裝 “PlayMemories Home”。
- 必須要有網際網路連線才能使用 “PlayMemories Online” 或其他網路服務。某些國家或地區可能無法使用 “PlayMemories Online” 或其他網路服務。
- “PlayMemories Home” 與 Mac 不相容。請使用您的 Mac 上安裝的應用程式。詳情請造訪下列 URL：
<http://www.sony.co.jp/imssoft/Mac/>

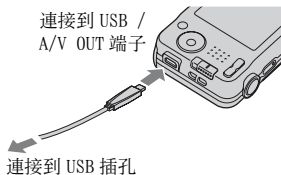
■ 在電腦上安裝 “PlayMemories Home”

- 1 利用您電腦上的網際網路瀏覽器前往下列 URL，然後按一下 [安裝] → [執行]。

www.sony.net/pm

- 2 按照畫面上的指示完成安裝。

- 將相機連接到電腦的訊息顯示出來時，以專用的 USB 電纜（附件）連接相機與電腦。



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■ 觀看 “PlayMemories Home 說明指南”

關於如何使用 “PlayMemories Home” 的詳細資訊，請參考 “PlayMemories Home 說明指南”。

- 1 按兩下桌面上的 [PlayMemories Home 說明指南] 圖示。

- 若要從開始功能表使用 “PlayMemories Home 說明指南”：按一下 [開始] → [所有程式] → [PlayMemories Home] → [PlayMemories Home 說明指南]。
- 關於 “PlayMemories Home” 的詳細資訊，您也可以參閱 “Cyber-shot 使用者指南”（第 2 頁）或下列 PlayMemories Home 支援網頁（只有英文）：

<http://www.sony.co.jp/pmh-se/>

靜態影像的數目和可以記錄的動態影像時間

靜態影像的數目和可以記錄的動態影像時間可能會因為拍攝條件和記憶卡而異。

■ 靜態影像

(單位: 影像)

尺寸 \ 容量	內部記憶體	記憶卡
	約 28 MB	2 GB
16M	4	280
VGA	170	11000
16:9 (12M)	5	360

■ 動態影像

下表顯示的是大略的最長記錄時間。這些是所有動態影像檔案的總時間。可以持續拍攝約 29 分鐘 (受產品規格的限制)。對於 [1280 × 720] 尺寸的動態影像, 可以進行連續拍攝約 10 分鐘 (受 2 GB 檔案大小的限制)。

(h (時), m (分), s (秒))

尺寸 \ 容量	內部記憶體	記憶卡
	約 28 MB	2 GB
1280 × 720	—	8 m
VGA	25 s	25 m
QVGA	1 m	1 h 15 m

使用相機的注意事項

關於使用和維護

對於產品要避免粗暴的使用、拆解、修改、實體衝擊或者敲打、跌落或踐踏之類的撞擊。對於鏡頭要特別小心。

關於記錄 / 播放的注意事項

- 開始拍攝之前，要進行試拍，以確定相機能正確的運作。
- 本相機不防塵、不防潑濺、也不防水。
- 避免讓相機接觸到水。如果有水進入相機內，可能會發生故障。在某些情況下，相機無法修復。
- 請勿用相機朝向太陽或其它強光。那樣可能會令您的相機故障。
- 如果有濕氣凝結，要在使用相機之前將其清除。
- 請勿搖晃或撞擊本相機。那樣可能會造成故障，您可能無法記錄影像。而且，記錄媒體可能變成無法使用，或者影像資料可能受損。

CT

請勿在下列地方使用 / 存放相機

- 在非常炎熱、寒冷或潮濕的地方
例如，在停在太陽底下的車廂中，相機機身可能變形而造成故障。
- 存放在直射的陽光下或加熱器附近
相機機身可能褪色或變形，而這可能會造成故障。
- 在會受到搖擺振動的地方
- 靠近會產生強烈無線電波、發出輻射或者強烈磁性的地方。否則相機可能無法正確地記錄或播放影像。
- 在多沙或多灰塵的地方
小心不要讓沙子或灰塵進入相機中。否則可能會造成相機故障，有時候這種故障是無法修理的。

攜帶時

不要在相機放置於褲子或裙子的後面口袋中時坐在椅子或其他地方，因為這樣可能會造成故障或者損害相機。

關於螢幕的說明

螢幕利用極高精確度技術製造，所以 99.99% 以上的像素都可以有效的使用。不過，您可能會發現細小的黑點和 / 或亮點（白色、紅色、藍色或綠色）出現在螢幕上。這些點是生產過程中的正常結果，不會影響記錄。

關於相機的溫度

您的相機和電池可能因為持續使用而變熱，但是這並不是故障。

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關於過熱保護

您可能無法記錄動態影像，或者電源可能會自動關閉以保護相機，這點要視相機和電池溫度而定。

螢幕上會出現一個訊息，然後電源會關閉，或者您無法再記錄動態影像。遇到這種情況時，將電源關閉，等到相機與電池溫度下降為止。如果不讓相機與電池溫度降得夠低就開啟電源，電源可能會再度關閉或者可能會無法記錄動態影像。

關於為電池充電

如果為很久沒用的電池充電，可能無法將其充到適當的容量。

這是因為電池特性的緣故，並不是故障。請再為電池充電。

版權警告

電視節目、影片、錄影帶及其它資料可能具有版權。未經許可錄製這些資料將會觸犯版權法。

對於損壞的內容或記錄失敗不補償

對於因為相機或記錄媒體等的故障而造成的記錄失敗或記錄內容遺失或損壞，Sony 不能補償。

清潔相機表面

用沾了一點水的軟布清潔相機表面，然後以乾布擦拭表面。若要防止傷害表面塗層或外殼：

- 請不要讓相機接觸化學產品如稀釋劑、揮發油、酒精、用過即丟的清潔布、驅蟲劑、遮光劑或殺蟲劑。

維護 LCD 監視器

- 留在螢幕上的護手霜或潤膚乳液可能會溶解其保護膜。如果螢幕上有沾到任何一點這種東西，請立即將其擦掉。
- 用衛生紙或其他東西用力擦拭可能會傷害保護膜。
- 如果指印或碎屑黏在 LCD 監視器螢幕上，建議您輕輕地將所有碎屑移除，然後用柔軟的布將螢幕擦乾淨。

規格

相機

[系統]

影像裝置: 7.75 公釐 (1/2.3 型)

CCD, 三原色過濾器

總像素: 約 16.4 百萬像素

有效像素: 約 16.1 百萬像素

鏡頭: 5 × 變焦鏡頭

f = 5 公釐 - 25 公釐

(28 公釐 - 140 公釐 (35 公釐
的底片機))

F3.2 (W) - F6.5 (T)

拍攝動態影像 (16:9) 時:

30.5 公釐 - 152.5 公釐

拍攝動態影像 (4:3) 時:

28 公釐 - 140 公釐

SteadyShot: 電子式

曝光控制: 自動曝光、場景選擇

白平衡: 自動、日光、多雲、螢光

燈 1/2/3、白熾燈、閃光燈

連拍 (以最大像素數拍攝時):

約 1.0 個影像 / 秒鐘 (最多
100 個影像)

檔案格式:

靜態影像: 符合 JPEG (DCF、
Exif、MPF Baseline) 標準、相
容於 DPOF

動態影像: AVI (Motion JPEG)

記錄媒體: 內部記憶體

(約 28 MB)、"Memory Stick
Duo"、"Memory Stick
Micro"、SD 卡、microSD 記憶
卡

閃光燈: 閃光範圍 (ISO 感光度

(建議曝光指數) 設定為自
動):

約 0.5 公尺至 2.7 公尺 (W)

約 0.5 公尺至 1.2 公尺 (T)

[輸入和輸出接頭]

USB / A/V OUT 插孔:

視頻輸出

音頻輸出

USB 通訊

USB 通訊:

Hi-Speed USB (USB 2.0)

[螢幕]

LCD 螢幕:

6.7 公分 (2.7 型) TFT 驅動

總點數: 230 400 點

[電源, 一般]

電源: 充電電池 NP-BN, 3.6 V

電源適配器 AC-UB10C, 5 V

電池消耗量 (進行拍攝時): 1.1 W

操作溫度: 0 °C 至 40 °C

存放溫度: -20 °C 至 +60 °C

尺寸 (符合 CIPA 標準):

97.0 公釐 × 55.1 公釐 ×

20.0 公釐 (長 / 寬 / 高)

質量 (符合 CIPA 標準) (包含
NP-BN 電池、"Memory Stick
Duo"): 約 114 公克

麥克風: 單聲

揚聲器: 單聲

Exif Print: 相容

PRINT Image Matching III: 相容

CT

電源適配器 AC-UB10C

電源要求：AC 100 V 至 240 V、
50 Hz/60 Hz、70 mA

輸出電壓：DC 5 V、0.5 A

操作溫度：0 °C 至 40 °C

存放溫度：-20 °C 至 +60 °C

尺寸：

約 50 公釐 × 22 公釐 × 54 公釐
(寬 / 高 / 長)

質量：

美國與加拿大：約 48 公克

美國與加拿大以外的國家與地
區：約 43 公克

充電電池 NP-BN

使用的電池：鋰離子電池

最大電壓：DC 4.2 V

額定電壓：DC 3.6 V

最大充電電壓：DC 4.2 V

最大充電電流：0.9 A

容量：

通常：2.3 Wh (630 mAh)

最少：2.2 Wh (600 mAh)

設計及規格如有變更，恕不另行通知。

商標

- 下列標記是 Sony Corporation 的商標。
Cyber-shot、“Cyber-shot”、“Memory Stick PRO Duo”、“Memory Stick PRO-HG Duo”、“Memory Stick Duo”、“Memory Stick Micro”
- Windows 是 Microsoft Corporation 在美國和 / 或其他國家的註冊商標。
- Mac 和 Mac OS 是 Apple Inc. 的註冊商標。
- SDHC 標誌是 SD-3C, LLC 的商標。
- Facebook 與 “f” 標誌是 Facebook, Inc. 的商標或註冊商標。
- YouTube 和 YouTube 標誌是 Google Inc. 的商標或註冊商標。
- 此外，在本說明書中所使用的系統和產品的名稱通常是他們各自的開發商或製造商的商標或註冊商標。但是在本說明書中並未在所有場合使用 ™ 或 ® 標誌。

在我們的客戶支援網站可以查到本產品新增的資訊和常見問題的答案。

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

使用基於不含有 VOC (揮發性有機成分) 的植物油的油墨在 70% 以上再生紙上印刷。



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

