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Digital Still Camera / Instruction Manual

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數位照相機 / 使用說明書

CT

Cyber-shot



LITHIUM ION  TYPE



AVCHD  
Progressive

HDMI™  
REGISTERED TRADEMARK OF HANGSUNG ELECTRONIC CO., LTD.



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

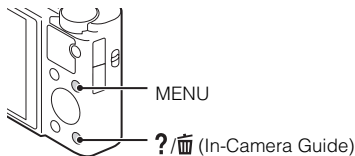


“Cyber-shot User Guide” is an on-line manual. Refer to it for in-depth instructions on the many functions of the camera.

- 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.

## Viewing the Guide

This camera is equipped with a built-in instruction guide.



### In-Camera Guide

The camera displays explanations for MENU items and the setting values.

- ① Press the MENU button.
- ② Select the desired MENU item, then press ?/In-Camera Guide) button.

### Shooting Tip

The camera displays shooting tips for the shooting mode selected.

- ① Press ?/In-Camera Guide) button in shooting mode.
- ② Select the desired shooting tip, then press ● on the control wheel.

The shooting tip is displayed.

- You can scroll the screen using ▲/▼ and change shooting tips using ◀/▶.

## 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-RX100M2

Serial No. \_\_\_\_\_

Model No. AC-UB10/AC-UB10B/AC-UB10C/AC-UB10D

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.rbrclion.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.

CAN ICES-3 B/NMB-3 B

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

## 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-RX100M2  
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.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

### 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 Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## 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.



Hereby, Sony Corporation, declares that this DSC-RX100M2 Digital Still Camera is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. For details, please access the following URL:

<http://www.compliance.sony.de/>

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.

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## 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.

## For Customers in Singapore

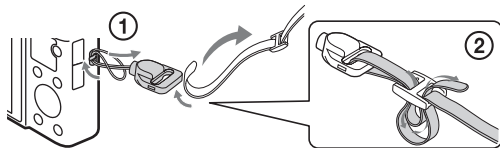
Complies with  
IDA Standards  
DB00353

## Checking the supplied items

The number in parentheses indicates the number of pieces.

- Camera (1)
- Rechargeable battery pack NP-BX1 (1)
- Micro USB cable (1)
- AC Adaptor AC-UB10/UB10B/UB10C/UB10D (1)
- Power cord (mains lead) (not supplied in the USA and Canada) (1)
- Wrist strap (1)
- Strap adapter (2)

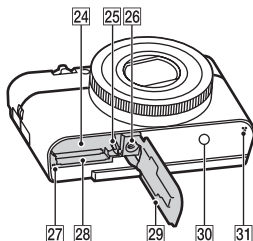
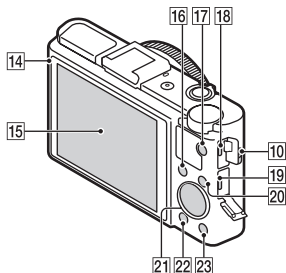
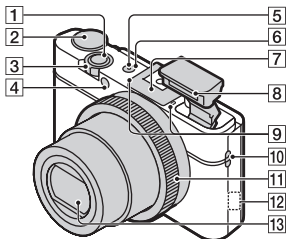
(Strap adapters are used to attach the shoulder strap (sold separately), as illustrated.)





- Instruction Manual (this manual) (1)






## Identifying parts



- 1** Shutter button
- 2** Mode dial  
**iA** (Intelligent Auto)/  
**iA+** (Superior Auto)/  
**P** (Program Auto)/  
**A** (Aperture Priority)/  
**S** (Shutter Priority)/  
**M** (Manual Exposure)/  
**MR** (Memory recall)/  
 (Movie)/ (Sweep  
Panorama)/**SCN** (Scene  
Selection)
- 3** For shooting: W/T (zoom) lever  
For viewing: Index/Playback  
zoom lever
- 4** Self-timer lamp/Smile Shutter  
lamp/AF illuminator
- 5** Power/Charge lamp
- 6** ON/OFF (Power) button
- 7** Multi interface shoe\*
- 8** Flash
  - Do not cover the flash with your fingers.
  - When using the flash, the flash pops up automatically. If not using the flash, press it down manually.
- 9** Microphone
- 10** Hook for strap
- 11** Control Ring
- 12** Wi-Fi sensor (built-in)
- 13** Lens
- 14** Light sensor
- 15** LCD screen
- 16** Fn (Function) button
- 17** MOVIE (Movie) button

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- 18 Multi Terminal
  - Supports Micro USB compatible device.
- 19 HDMI micro jack
- 20 MENU button
- 21 Control wheel
- 22  (Playback) button
- 23  (In-Camera Guide/Delete) button
- 24 Battery insertion slot
- 25 Battery eject lever
- 26 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.
- 27 Access lamp
- 28 Memory card slot
- 29 Battery/Memory card cover
- 30  (N Mark)
  - Touch the mark when you connect the camera to a smartphone equipped with the NFC function.
  - NFC (Near Field Communication) is an international standard of the short-range wireless communication technology.
- 31 Speaker

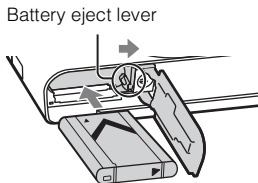
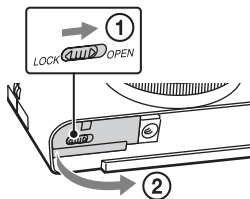
\* For details on compatible accessories for the multi interface shoe, visit the Sony web site, or consult your Sony dealer or local authorized Sony service facility. You can also use accessories that are compatible with the accessory shoe. Operations with

other manufacturers' accessories are not guaranteed.

 Multi  
Interface Shoe

Accessory Shoe

## Inserting the battery pack



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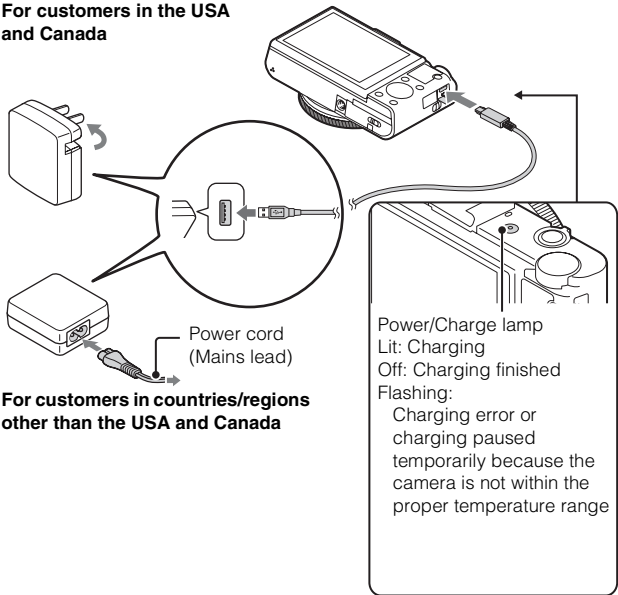
**1** Open the cover.

**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 micro USB cable (supplied).
- 2 Connect the AC Adaptor to the wall outlet (wall socket).  
The Power/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 Power/Charge lamp flashes and charging is not finished, remove and re-insert the battery pack.

## Notes

- If the Power/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.
- 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, micro USB cable (supplied) and AC Adaptor (supplied).
- Power is not supplied during shooting/playback if the camera is connected to a wall outlet with the supplied AC adaptor. To supply power to the camera during shooting/playback, use the AC-UD10 (sold separately) or AC-UD11 (sold separately) AC adaptor.
- The AC Adaptor AC-UD11 (sold separately) may not be available in some countries/regions.

## Charging time (Full charge)

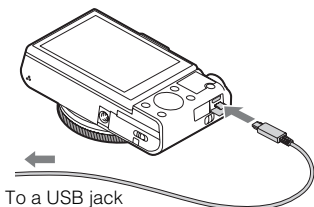
The charging time is approximately 230 min. using the AC Adaptor (supplied).

## 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 a micro USB cable.



### 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

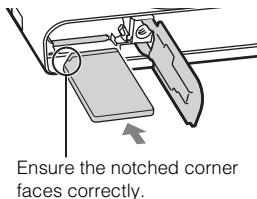
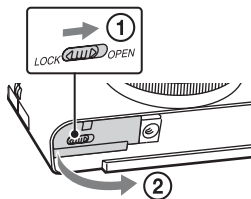
	Battery life	Number of images
Shooting (still images)	Approx. 175 min.	Approx. 350 images
Typical movie shooting	Approx. 45 min.	—
Continuous movie shooting	Approx. 80 min.	—
Viewing (still images)	Approx. 250 min.	Approx. 5000 images

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### Notes

- 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)
  - DISP is set to [Display All Info.].
  - 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 numbers of minutes for movie shooting are based on the CIPA standard, and are for shooting under the following conditions:
  - Record Setting: 60i 17M(FH)/50i 17M(FH)
  - Typical movie shooting: Battery life based on repeatedly starting/stopping shooting, zooming, turning on/off, etc.
  - Continuous movie shooting: Battery life based on non-stop shooting until the limit (29 minutes) has been reached, and then continued by pressing the MOVIE button again. Other functions, such as zooming, are not operated.

## Inserting a memory card (sold separately)



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**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.

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## Memory cards that can be used

	Memory card	For still images	For movies
<b>A</b>	Memory Stick XC-HG Duo	✓	✓
<b>B</b>	Memory Stick PRO Duo	✓	✓ (Mark2 only)
	Memory Stick PRO-HG Duo	✓	✓
<b>C</b>	Memory Stick Micro (M2)	✓	✓ (Mark2 only)
<b>D</b>	SD memory card	✓	✓ (Class 4 or faster)
	SDHC memory card	✓	✓ (Class 4 or faster)
	SDXC memory card	✓	✓ (Class 4 or faster)
<b>E</b>	microSD memory card	✓	✓ (Class 4 or faster)
	microSDHC memory card	✓	✓ (Class 4 or faster)
	microSDXC memory card	✓	✓ (Class 4 or faster)

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

**A:** “Memory Stick XC Duo” media

**B:** “Memory Stick PRO Duo” media

**C:** “Memory Stick Micro” media

**D:** SD card

**E:** microSD memory card

### Notes

- When using “Memory Stick Micro” media or microSD memory cards with this camera, make sure to use with the appropriate adaptor.

## To remove the memory card/battery pack

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

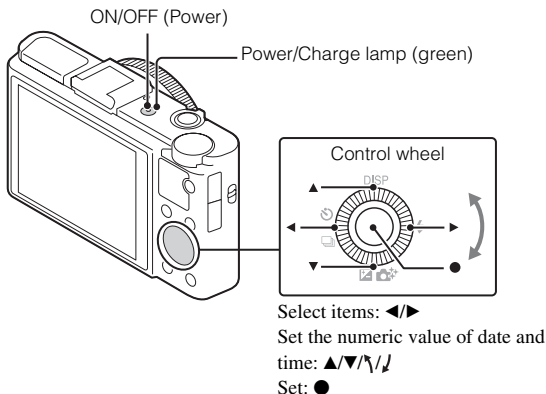
Battery pack: Slide the battery eject lever. Be sure not to drop the battery pack.

### Notes

- Never remove the memory card/battery pack when the access lamp (page 9) is lit. This may cause damage to data in the memory card.

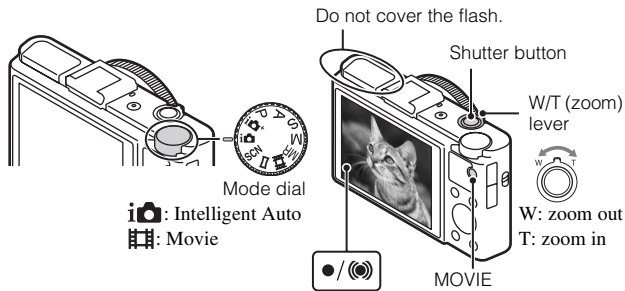
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## Setting the clock



- 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** Check that [Enter] is selected on the screen, then press ● on the control wheel.
- 3** Select a desired geographic location by following the on-screen instructions, then press ●.
- 4** Set [Daylight Svg.:], date and [Date Format:], then press ●.
  - Midnight is indicated as 12:00 AM, and noon as 12:00 PM.
- 5** Check that [Enter] is selected, then press ●.

## Shooting still images/movies



### Shooting still images

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

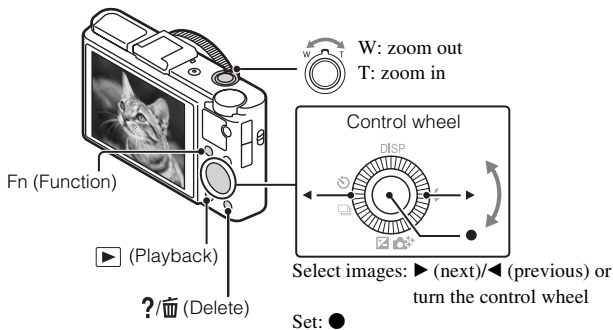
### Shooting movies

- 1 Press the MOVIE (Movie) button to start recording.
  - Use the W/T (zoom) lever to change the zoom scale.
  - Press the shutter button to shoot still images while continuing to record the movie.
- 2 Press the MOVIE button again to stop recording.

#### Notes

- Do not pull up the flash manually. This may cause a malfunction.
- When using the zoom function while shooting a movie, the sound of the camera operating will be recorded. The sound of the MOVIE button operating may also be recorded when movie recording is finished.
- 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 MOVIE button again. Recording may stop to protect the camera depending on the ambient temperature.

## Viewing images



### 1 Press the **▶ (Playback)** button.

- You can switch the display mode between still images and movies by selecting **MENU** → **▶ 1** → [Still/Movie Select].

### ■ **Selecting next/previous image**

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

### ■ **Deleting an image**

- ① Press **?/🗑️ (Delete)** button.
- ② Select [Delete] with **▲** on the control wheel, then press **●**.

### ■ **Rotating an image**

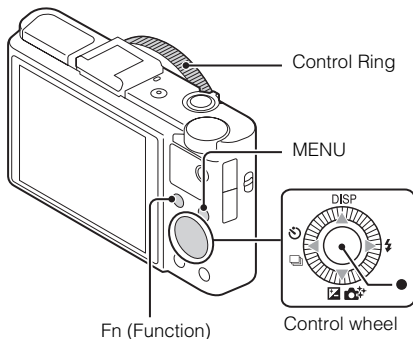
Press the **Fn (Function)** button.

### ■ **Returning to shooting images**

Press the shutter button halfway down.

## Introduction of other functions

Other functions can be operated using the control wheel, MENU button, etc.



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### ■ Control wheel

**DISP** (Display Contents): Allows you to change the screen display.

**⚡** (Flash Mode): Allows you to select a flash mode for still images.

**📷/🌟** (Exposure Comp./Photo Creativity): Allows you to adjust image brightness. Allows you to change [Bkgground Defocus], [Brightness], [Color], [Vividness] and [Picture Effect] when shooting mode is set to [Intelligent Auto] or [Superior Auto].

**🕒/📷** (Drive Mode): Allows you to use the self-timer and burst shooting mode.

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

## ■ Fn (Function) button

Allows you to register seven functions and recall those functions when shooting.

- ① Press the Fn (Function) button.
- ② Select the desired function by pressing the Fn (Function) button repeatedly, or using ◀/▶ on the control wheel.
- ③ Select the setting value by turning the control wheel or Control Ring.

## ■ Control Ring

Your favorite functions can be assigned to the Control Ring; when shooting, established settings can be changed just by turning the Control Ring.

## ■ Menu Items

### 📷 Still shooting menu

Image size	Selects the size of still images.
Aspect Ratio	Selects the aspect ratio for still images.
Quality	Sets the image quality for still images.
Panorama: Size	Selects the size of panoramic images.
Panorama: Direction	Sets the shooting direction for panoramic images.
Ctrl with Smartphone	Shoots still images and movies by controlling the camera remotely by a smartphone.
Drive Mode	Sets the drive mode, such as for continuous shooting.
Flash Mode	Sets the flash settings.
Focus Mode	Selects the focus method.
Autofocus Area	Selects the area of focus.
Soft Skin Effect	Sets the Soft Skin Effect and the effect level.
Smile/Face Detect.	Selects to detect faces and adjust various settings automatically. Sets to automatically release the shutter when a smile is detected.
Auto Object Framing	Analyzes the scene when capturing faces, close-ups, or subjects tracked by Tracking Focus function, and automatically trims and saves another copy of the image with a more impressive composition.

ISO	Adjusts the luminous sensitivity.
Metering Mode	Selects the metering mode that sets which part of the subject to measure to determine the exposure.
Flash Comp.	Adjusts the intensity of flash output.
White Balance	Adjusts color tones of an image.
DRO/Auto HDR	Compensates automatically for brightness and contrast.
Creative Style	Selects the desired image processing.
Picture Effect	Selects the desired effect filter to achieve a more impressive and artistic expression.
Clear Image Zoom	Provides a higher-quality zoomed image than with Digital Zoom.
Digital Zoom	Provides zoomed images at higher magnification than with Clear Image Zoom.
Long Exposure NR	Sets noise reduction processing for shots with a shutter speed of 1/3 second or longer.
High ISO NR	Sets noise reduction processing for high-sensitivity shooting.
AF Illuminator	Sets the AF illuminator, which provides light for a dark scene to aid focusing.
SteadyShot	Sets SteadyShot.
Color Space	Changes the range of reproducible colors.
Shooting Tip List	Accesses all shooting tips.
Write Date	Sets whether to record a shooting date on the still image.
Scene Selection	Selects pre-set settings to match various scene conditions.
Memory recall	Selects settings you want to recall when the mode dial is set to [Memory recall].
Memory	Registers the desired modes or camera settings.

## Movie shooting menu

File Format	Selects the movie file format.
Record Setting	Selects the size of the recorded movie frame.
Image Size(Dual Rec)	Sets the still image size shot when recording a movie.
SteadyShot	Sets SteadyShot.
Audio Recording	Sets whether to record audio when shooting a movie.
Wind Noise Reduct.	Reduces wind noise during movie recording.
Movie	Selects the exposure mode to suit your subject or effect.

## Custom menu

FINDER/LCD Setting	When using a electronic viewfinder (sold separately), sets the method for switching between the electronic viewfinder and screen.
Red Eye Reduction	Reduces the red-eye phenomenon when using flash.
Grid Line	Sets a grid line display to enable alignment to a structural outline.
Auto Review	Sets auto review to display the captured image after shooting.
DISP Button	Sets the screen display modes that can be selected by pressing DISP on the control wheel.
Peaking Level	Enhances the outline of in-focus ranges with a specific color when focusing manually.
Peaking Color	Sets the color used for the peaking function.
Control Ring	Assigns the desired functions to the Control Ring.
Zoom Func. on Ring	Sets the zooming function of the control ring. When you select [Step], you can move a zoom position to a fixed step of the focal length.
Control Ring Display	Sets whether to display animation when operating the Control Ring.
Function Button	Customizes the functions displayed when the Fn (Function) button is pressed.



Func. of Center Button	Assigns the desired functions to the center button.
Func. of Left Button	Assigns the desired functions to the left button.
Func. of Right Button	Assigns the desired functions to the right button.
MOVIE Button	Sets whether to always activate the MOVIE button.
MF Assist	Displays an enlarged image when focusing manually.
Focus Magnif. Time	Sets the length of time the image will be shown in an enlarged form.
Face Priority Tracking	Sets whether to track faces as a priority when tracking.
Face Registration	Registers or changes the person to be given priority in the focus.

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### ▶ Playback menu

Send to Smartphone	Transfers images to display on a smartphone.
Send to Computer	Backs up images by transferring them to a computer connected to a network.
View on TV	You can view images on a network-enabled TV.
Still/Movie Select	Switches between still image/movie displays.
Delete	Deletes an image.
Slide Show	Shows a slide show.
Image Index	Displays multiple images at the same time.
Protect	Protects the images.
Specify Printing	Adds a print order mark to a still image.
Picture Effect	Adds various textures to images.
Volume Settings	Adjusts the volume.
Playback Display	Sets how to play back an image recorded in portrait.

## Memory Card Tool menu

Format	Formats the memory card.
File Number	Sets the method used to assign file numbers to still images and movies.
Select REC Folder	Changes the selected folder for storing images.
New Folder	Creates a new folder for storing still images and movies (MP4).
Recover Image DB	Recovers the image database file and enables recording and playback.
Display Card Space	Displays the remaining recording time of movies and the recordable number of still images on the memory card.

## Clock setup menu

Date/Time Setup	Sets date and time, and daylight savings.
Area Setting	Sets the location of use.

## Setup menu

Menu start	Sets the default position of the cursor on the menu to the top item or the last-selected item.
Mode Dial Guide	Turns the mode dial guide (the explanation of each shooting mode) on or off.
LCD Brightness	Sets the screen brightness.
Viewfinder Bright.	When using an electronic viewfinder (sold separately), sets the brightness of the electronic viewfinder.
Power Save	Sets the level of the power saving feature.
Power Saving Start Time	Sets the length of time until the camera turns off automatically.
PAL/NTSC Selector (only for 1080 50i compatible models)	By changing the TV format of the device, shooting in a different movie format is possible.
Upload Settings* <sup>1</sup>	Sets the upload function of the camera when using an Eye-Fi card.

HDMI Resolution	Sets the resolution when the camera is connected to an HDMI TV.
CTRL FOR HDMI	Operates the camera from a TV that supports “BRAVIA” Sync.
USB Connection	Sets the USB connection method.
USB LUN Setting	Enhances compatibility by limiting the functions of USB connection.
USB Power Supply	Sets whether to supply power using a USB connection.
Audio signals	Sets the operating sound of the camera.
WPS Push	You can register the access point to the camera easily by pushing the WPS button.
Access Point Settings	You can register your access point manually.
Edit Device Name	You can change the device name under Wi-Fi Direct, etc.
Disp MAC Address	Displays the MAC address of the camera.
SSID/PW Reset	Resets the SSID and password of smartphone connection.
Airplane Mode	You can set this device to not perform wireless communications.
Version	Displays the camera software version.
Language	Selects the language.
Drop Sensor	Sets the [Drop Sensor] function.
Demo Mode	Sets demonstration playback of a movie to on or off.
Initialize	Restores settings to their defaults.

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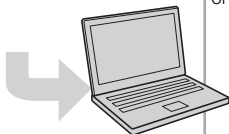
\*1 Appears when an Eye-Fi card (sold separately) is inserted into the camera.

## Features of “PlayMemories Home”

The software “PlayMemories Home” allows you to import still images and movies to your computer and use them. “PlayMemories Home” is required for importing AVCHD movies to your computer.



Importing images from your camera



### Organizing



Viewing images on Calendar



Creating movie discs

### Sharing images



Uploading images to network services



Sharing images on “PlayMemories Online”

### Downloading “PlayMemories Home” (for Windows only)

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

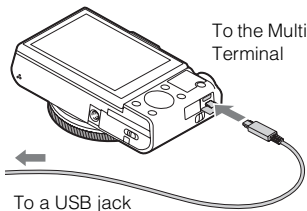
---

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

[www.sony.net/pm](http://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 micro USB cable (supplied).



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## ■ Viewing “PlayMemories Home Help Guide”

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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 Windows 8, select the [PlayMemories Home] icon from the Start screen to start [PlayMemories Home], then select [PlayMemories Home Help Guide] from [Help] menu.
- 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/>

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## Features of “Image Data Converter”

Below are examples of the functions available when you use “Image Data Converter”.

- You can edit RAW images using multiple correction functions, such as tone curve or sharpness.
- You can adjust images using white balance, aperture and Creative Style, etc.
- You can save displayed and edited still images to your computer.  
There are two ways to save RAW images: save and leave as RAW data or save in a general-purpose file format.
- You can display and compare the RAW images/JPEG images that are shot with this camera.
- You can rank images in five levels.
- You can set the color label.

## ■ Installing “Image Data Converter”

- 1 Download the software from the following URL and install it on your computer.

Windows: <http://www.sony.co.jp/imsoft/Win/>

Mac: <http://www.sony.co.jp/imsoft/Mac/>

## ■ Viewing “Image Data Converter Guide”

For details on how to use “Image Data Converter,” refer to the “Image Data Converter Guide.”

- 1 For Windows:  
Click [Start] → [All Programs] → [Image Data Converter] → [Help] → [Image Data Converter Ver.4].

For Mac:

Start Finder → [Applications] → [Image Data Converter] → [Image Data Converter Ver.4] → In the menu bar, choose “Help” → “Image Data Converter Guide.”

- For Windows 8, start “Image Data Converter Ver.4” → In the menu bar, choose “Help” → “Image Data Converter Guide.”
- For details on “Image Data Converter,” you can also see the “Cyber-shot User Guide” (page 2) or the following “Image Data Converter” support page (English only):  
<http://www.sony.co.jp/ids-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

Image size: L: 20M

GB

When [Aspect Ratio] is set to [3:2]\*

Capacity	2 GB
Quality	
Standard	295 images
Fine	170 images
RAW & JPEG	58 images
RAW	88 images

\* When the [Aspect Ratio] is set to other than [3:2], you can record more pictures than shown above. (Except when [Quality] is set to [RAW].)

### 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 (a product specification limit). The maximum continuous recording time of an MP4 (12M) format movie is about 15 minutes (limited by the 2 GB file size restriction).

(h (hour), m (minute))

Capacity	2 GB
Record Setting	
60i 24M(FX)/50i 24M(FX)	10 m
60i 17M(FH)/50i 17M(FH)	10 m
60p 28M(PS)/50p 28M(PS)	9 m
24p 24M(FX)/25p 24M(FX)	10 m
24p 17M(FH)/25p 17M(FH)	10 m
1440×1080 12M	15 m
VGA 3M	1 h 10 m

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

## Notes on using the camera

### Functions built into this camera

- This manual describes 1080 60i-compatible devices and 1080 50i-compatible devices.  
To check whether your camera is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.  
1080 60i-compatible device: 60i  
1080 50i-compatible device: 50i
- This camera is compatible with 1080 60p or 50p-format movies. Unlike standard recording modes up to now, which record in an interlacing method, this camera records using a progressive method. This increases the resolution, and provides a smoother, more realistic image.

### 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.

### 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. GB

### **Carl Zeiss lens**

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

### **Notes on the 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.

### **Notes on the flash**

- Do not carry the camera by the flash unit, or use excessive strength on it.
- If water, dust or sand get into the open flash unit, it may cause a malfunction.

### **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 screen**

- 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, we recommend that you gently remove any debris and then wipe the screen clean with a soft cloth.

## **Note on wireless LAN**

We assume no responsibility whatsoever for any damage caused by unauthorized access to, or unauthorized use of, destinations loaded on the camera, resulting from loss or theft.

## **Note on disposal/transfer of the camera**

To protect personal data, perform the following when disposing of or transferring the camera.

- Reset all camera settings by performing [Initialize] (page 27).
- Delete all registered people's faces from [Face Registration] (page 25).

# Specifications

## Camera

### [System]

Image device: 13.2 mm × 8.8 mm

(1.0 type) Exmor R CMOS sensor

Total pixel number of camera:

Approx. 20.9 Megapixels

Effective pixel number of camera:

Approx. 20.2 Megapixels

Lens: Carl Zeiss Vario-Sonnar T\* 3.6× zoom lens

f = 10.4 mm – 37.1 mm (28 mm – 100 mm (35 mm film equivalent))

F1.8 (W) – F4.9 (T)

While shooting movies (16:9):

29 mm – 105 mm \*<sup>1</sup>

While shooting movies (4:3):

36 mm – 128 mm \*<sup>1</sup>

\*<sup>1</sup> When [SteadyShot] is set to [Standard]

SteadyShot: Optical

Exposure control: Automatic exposure,

Aperture priority, Shutter priority, Manual exposure, Scene Selection

White balance: Automatic, Daylight,

Shade, Cloudy, Incandescent,

Fluorescent (Warm White/

Cool White/Day White/Daylight),

Flash, Color temperature/Color filter, Custom

File format:

Still images: JPEG (DCF, Exif, MPF Baseline) compliant, RAW (Sony ARW 2.3 Format), DPOF compatible

Movies (AVCHD format):

AVCHD format Ver. 2.0

compatible

Video: MPEG-4 AVC/H.264

Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator

• Manufactured under license from Dolby Laboratories.

Movies (MP4 format):

Video: MPEG-4 AVC/H.264

Audio: MPEG-4 AAC-LC 2ch

Recording media: “Memory Stick XC Duo” media, “Memory Stick PRO Duo” media, “Memory Stick Micro” media, SD cards, microSD memory cards

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

Approx. 0.3 m to 15.0 m (0.98 ft. to 49.21 ft.) (W)

Approx. 0.55 m to 5.7 m (1.80 ft. to 18.70 ft.) (T)

### [Input and Output connectors]

HDMI connector: HDMI micro jack Multi Terminal\*:

USB communication

USB communication: Hi-Speed USB (USB 2.0)

\* Supports Micro USB compatible device.

### [Screen]

LCD screen:

7.5 cm (3.0 type) TFT drive

Total number of dots:

1 228 800 dots

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### [Power, general]

- Power: Rechargeable battery pack  
NP-BX1, 3.6 V  
AC Adaptor AC-UB10/UB10B/  
UB10C/UB10D, 5 V
- Power consumption (during shooting):  
Approx. 1.5 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):  
101.6 mm × 58.1 mm × 38.3 mm  
(4 inches × 2 3/8 inches ×  
1 9/16 inches) (W/H/D)
- Mass (CIPA compliant) (including NP-  
BX1 battery pack, “Memory Stick  
Duo” media):  
Approx. 281 g (9.9 oz)
- Microphone: Stereo
- Speaker: Monaural
- Exif Print: Compatible
- PRINT Image Matching III:  
Compatible

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### [Wireless LAN]

- Supported standard: IEEE 802.11 b/g/n
- Frequency: 2.4GHz
- Supported security protocols: WEP/  
WPA-PSK/WPA2-PSK
- Configuration method: WPS (Wi-Fi  
Protected Setup) / manual
- Access method: Infrastructure Mode
- NFC: NFC Forum Type 3 Tag  
compliant

### AC Adaptor AC-UB10/UB10B/ UB10C/UB10D

- 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-BX1

- 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: 1.89 A
- Capacity: 4.5 Wh (1 240 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 XC-HG Duo,” “Memory Stick PRO Duo,” “Memory Stick PRO-HG Duo,” “Memory Stick Duo,” “Memory Stick Micro”
- “AVCHD Progressive” and “AVCHD Progressive” logotype are trademarks of Panasonic Corporation and Sony Corporation.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- Windows is registered trademark of Microsoft Corporation in the United States and/or other countries.
- Mac, App Store are registered trademarks of Apple Inc.
- iOS is a registered trademark or trademark of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.
- SDXC logo is a trademark of SD-3C, LLC.
- Android, Google Play are trademarks of Google Inc.
- Wi-Fi, the Wi-Fi logo, Wi-Fi PROTECTED SET-UP are registered trademarks of the Wi-Fi Alliance.
- The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- DLNA and DLNA CERTIFIED are trademarks of Digital Living Network Alliance.

- “” and “PlayStation” are registered trademarks of Sony Computer Entertainment Inc.
- 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.
- Eye-Fi is a trademark of Eye-Fi, 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 <sup>TM</sup> or ® marks are not used in all cases in this manual.

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- Add further enjoyment with your PlayStation 3 by downloading the application for PlayStation 3 from PlayStation Store (where available.)
- The application for PlayStation 3 requires PlayStation Network account and application download. Accessible in areas where the PlayStation Store is available.

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

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

## 關於相機的詳細資訊 (“Cyber-shot 使用者指南”)

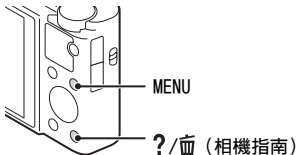


“Cyber-shot 使用者指南”是線上使用說明書。關於相機各種功能的深入使用說明，請參考此書。

- 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。

## 檢視指南

本相機配備有內建的使用指南。



### 相機指南

相機顯示MENU項目和設定值的說明。

- ① 按MENU按鈕。
- ② 選擇您要的MENU項目，然後按 ?/GUIDE (相機指南) 按鈕。

### 拍攝秘訣

相機顯示所選拍攝模式的拍攝秘訣。

- ① 在拍攝模式中按 ?/GUIDE (相機指南) 按鈕。
- ② 選擇要使用的拍攝秘訣，然後按控制輪上的 ●。  
拍攝秘訣便會顯示出來。
  - 您可以使用 ▲/▼ 捲動螢幕並使用 ◀/▶ 變更拍攝秘訣。

## 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。如果在使用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）。

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

僅適用於台灣



廢電池請回收

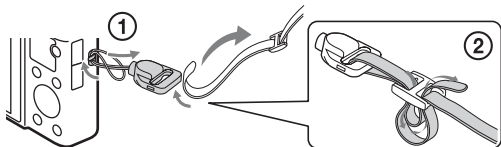
附屬電纜上附有鐵芯時的注意事項：USB 電纜或 A/V 連接電纜或電源適配器之 DC 輸出線上的一个鐵芯係抑制電磁波干擾用，請勿任意拆卸。



## 檢查附件

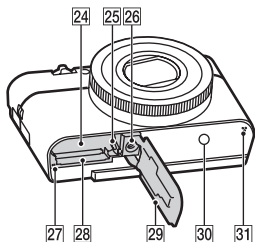
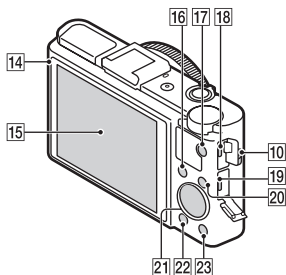
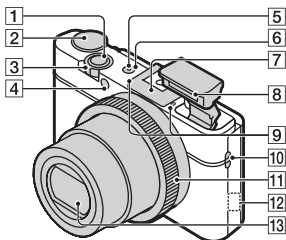
括號中的數字代表的是件數。

- 相機 (1)
- 充電電池NP-BX1 (1)
- 微型USB電纜 (1)
- 電源供應器/電源適配器AC-UB10/UB10B/UB10C/UB10D (1)
- 電源線 (在美國與加拿大非附件) (1)
- 腕帶 (1)
- 掛帶轉接環 (2)  
(如圖所示，掛帶轉接環用來安裝肩帶 (另售)。)



- 使用說明書 (本說明書) (1)

## 認識各部件



- 1 快門按鈕
- 2 模式轉盤  
i (智慧式自動) / i+ (高級自動) / P (程式自動) / A (光圈優先) / S (快門速度優先) / M (手動曝光) / MR (記憶回復) / (動態影像) / (全景攝影) / SCN (場景選擇)
- 3 用來拍攝: W/T (變焦) 桿  
用來觀看: 索引/播放變焦桿
- 4 自拍定時器指示燈/微笑快門指示燈/AF照明器
- 5 電源/充電指示燈
- 6 ON/OFF (電源) 按鈕
- 7 多介面接座\*
- 8 閃光燈
  - 請不要以您的手指蓋住閃光燈。
  - 使用閃光燈時, 閃光燈會自動彈出。當您不想要使用閃光燈時, 以手動方式壓下閃光燈。
- 9 麥克風
- 10 掛繩勾
- 11 控制環
- 12 Wi-Fi感應器 (內建)
- 13 鏡頭
- 14 光感應器
- 15 LCD螢幕
- 16 Fn (功能) 按鈕
- 17 MOVIE (動態影像) 按鈕
- 18 多功能端子
  - 支援微型USB相容裝置。
- 19 HDMI微型插孔
- 20 MENU按鈕
- 21 控制輪
- 22 (播放) 按鈕

**23** ?/⏻ (相機指南/刪除) 按鈕

**24** 電池插槽

**25** 電池退出桿


**26** 三腳架鎖孔

- 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。

**27** 存取指示燈

**28** 記憶卡插槽

**29** 電池/記憶卡蓋子

**30**  (N標記)

- 將相機連接到具有NFC功能的智慧型手機時觸碰此標記。
- NFC (Near Field Communication) 是一種短範圍無線通訊技術的國際標準。

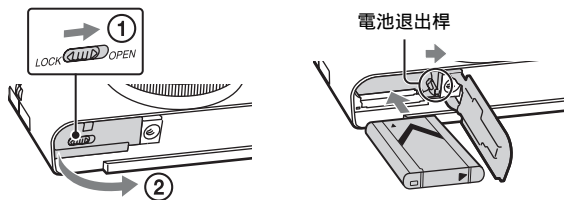
**31** 揚聲器

\* 關於多介面接座相容附件的詳情，請造訪Sony網站，或是洽詢Sony經銷商或當地授權的Sony服務機構。您也可以使用與配件接腳相容的附件。不保證能搭配其他製造商附件操作。

 Multi  
Interface Shoe

Accessory Shoe

## 插入電池



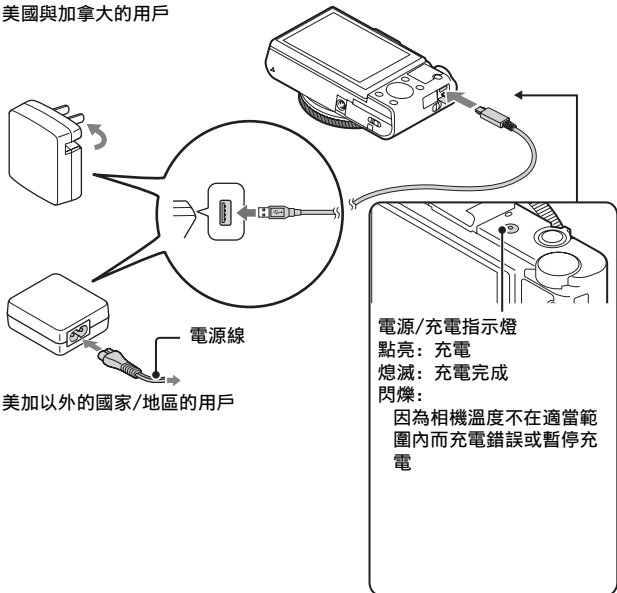
**1** 打開蓋子。

**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

美國與加拿大的用戶



**1** 用微型USB電纜（附件）將相機連接到電源供應器/電源適配器（附件）。

**2** 將電源供應器/電源適配器連接到牆上的電源插座。

電源/充電指示燈亮橘燈，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。
- 電源/充電指示燈閃爍而且充電未完成時，取出電池之後再插回去。

## 附註

- 電源供應器/電源適配器連接到牆上的電源插座時，如果相機上的電源/充電指示燈閃爍，表示因為溫度超出建議範圍外而暫停充電。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。
- 將電源供應器/電源適配器（附件）連接到最近的牆上電源插座。如果使用電源供應器/電源適配器時發生故障，請立即將插頭從牆上的電源插座拔掉以中斷電源。
- 充電完成時，將電源供應器/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、微型USB電纜（附件）以及電源供應器/電源適配器（附件）。
- 如果相機透過附件電源供應器/電源適配器連接到牆上的電源插座，拍攝/播放時無法供電。若要在拍攝/播放時為相機供電，使用AC-UD10（另售）或AC-UD11（另售）電源供應器/電源適配器。
- 某些國家/地區可能買不到電源供應器/電源適配器AC-UD11（另售）。

## ■ 充電時間（完全充電）

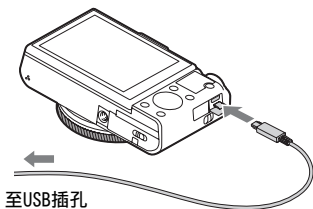
使用電源供應器/電源適配器（附件）時的充電時間大約230分鐘。

## 附註

- 上述充電時間適用於在溫度為25°C時對用盡的電池充電的情況。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

用微型USB電纜將相機連接到電腦，便可以為電池充電。



CT

### 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

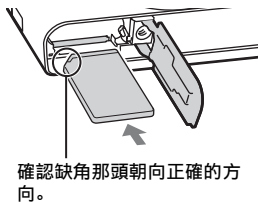
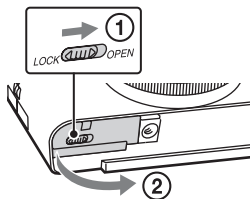
	電池使用時間	影像數目
拍攝（靜態影像）	約175分鐘	約350個影像
一般動態影像拍攝	約45分鐘	—
連續動態影像拍攝	約80分鐘	—
檢視（靜態影像）	約250分鐘	約5000個影像

### 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)
  - 在環境溫度為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)
  - DISP設定為[顯示所有資訊]。
  - 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。
- 動態影像拍攝分鐘數以CIPA標準為根據，在下列情況下進行拍攝：
  - 錄製設定：60i 17M(FH)/50i 17M(FH)
  - 一般動態影像拍攝：反覆開始/停止拍攝、變焦、開/關電源等條件下的電池使用時間
  - 連續動態影像拍攝：以不中斷拍攝直到達到上限（29分鐘）後再度按下MOVIE按鈕繼續拍攝為根據的電池使用時間。不操作其他功能，如縮放。



## 插入記憶卡（另售）



CT

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 XC-HG Duo	✓	✓
B	Memory Stick PRO Duo	✓	✓ (僅限Mark2)
	Memory Stick PRO-HG Duo	✓	✓
C	Memory Stick Micro (M2)	✓	✓ (僅限Mark2)
D	SD記憶卡	✓	✓ (等級4或者更快)
	SDHC記憶卡	✓	✓ (等級4或者更快)
	SDXC記憶卡	✓	✓ (等級4或者更快)
E	microSD記憶卡	✓	✓ (等級4或者更快)
	microSDHC記憶卡	✓	✓ (等級4或者更快)
	microSDXC記憶卡	✓	✓ (等級4或者更快)

- 在本說明書中，表中的產品統稱如下：

A: “Memory Stick XC Duo”  
B: “Memory Stick PRO Duo”  
C: “Memory Stick Micro”  
D: SD卡  
E: microSD記憶卡

### 附註

- 以本相機使用“Memory Stick Micro”或microSD記憶卡時，務必要使用適當的轉接卡。

## ■ 若要取出記憶卡/電池

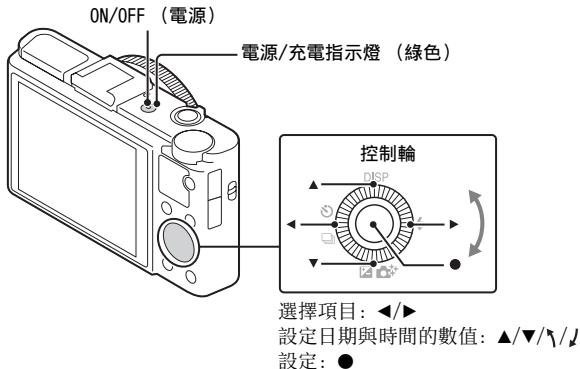
記憶卡：將記憶卡往裡壓一下以退出記憶卡。

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6頁）點亮時切勿取出記憶卡/電池。這樣可能會對記憶卡中的資料造成損壞。

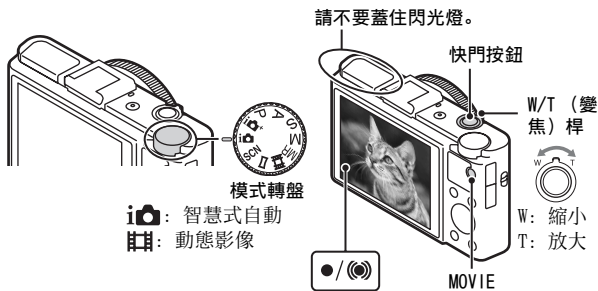
## 設定時鐘



CT

- 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 確認已在畫面上選擇[進入]，然後按控制輪上的 ●。
- 3 按照螢幕上的指示選擇一個您要的地理位置，然後按 ●。
- 4 設定[日光節約時間:]、日期和[日期格式:]，然後按 ●。
  - 午夜會顯示為12:00 AM，而正午則是12:00 PM。
- 5 確認已選擇[進入]，然後按 ●。

## 拍攝靜態影像/動態影像



### 拍攝靜態影像

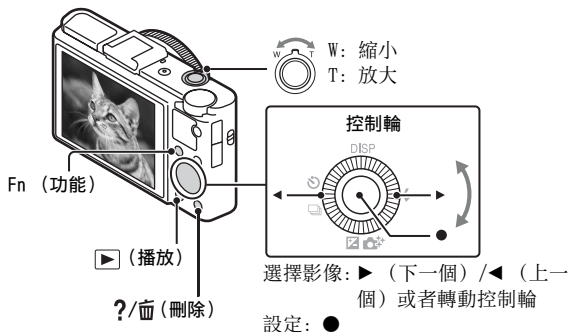
- 1 將快門按鈕按下一半以便對焦。  
影像合焦時，會發出嗶聲，而且 ● 或 (●) 指示會點亮。
- 2 將快門按鈕完全按下去以拍攝影像。

### 拍攝動態影像

- 1 按下MOVIE (動態影像) 按鈕開始記錄。
  - 用W/T (變焦) 桿變更變焦比率。
  - 繼續記錄動態影像的同時按快門按鈕拍攝靜態影像。
- 2 再度按下MOVIE按鈕停止記錄。

#### 附註

- 請勿以手動方式拉起閃光燈。這樣可能會導致故障。
- 拍攝動態影像時，相機的運作聲音會在使用變焦功能時被記錄下來。動態影像記錄完成時，MOVIE按鈕的運作聲音也可能會被記錄下來。
- 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MOVIE按鈕以重新開始記錄。視環境溫度而定，記錄可能會停止以保護相機。



### 1 按 ▶ (播放) 按鈕。

- 您可以選擇 MENU → ▶ 1 → [靜態/動態影像選擇] 以在靜態影像和動態影像之間切換顯示模式。

### ■ 選擇下一個/上一個影像

按控制輪上的 ▶ (下一個) / ◀ (上一個) 或者轉動控制輪，以選擇一個影像。按控制輪中央的 ● 以檢視動態影像。

### ■ 刪除影像

- ① 按 ?/⏏ (刪除) 按鈕。
- ② 用控制輪上的 ▲ 選擇 [刪除]，然後按 ●。

### ■ 旋轉影像

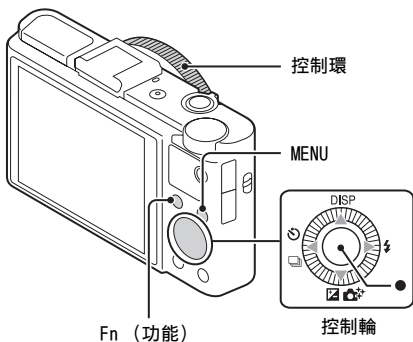
按 Fn (功能) 按鈕。

### ■ 恢復拍攝影像

將快門按鈕按下一半。

## 其他功能簡介

其他功能可以用控制輪、MENU按鈕等操作。



### ■ 控制輪

DISP (顯示內容)：讓您變更螢幕顯示。

⚡ (閃光燈模式)：讓您選擇靜態影像的閃光燈模式。

☒/☑/★ (曝光補償/相片創造)：讓您調整影像亮度。讓您在拍攝模式設定為[智慧式自動]或[高級自動]時，變更[背景離焦]、[亮度]、[色彩]、[鮮明]以及[相片效果]。

⌚/📷 (過片模式)：讓您使用自拍定時器和連拍模式。

● (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。

## ■ Fn（功能）按鈕

讓您註冊七個功能並可在拍攝時調用該些功能。

- ① 按Fn（功能）按鈕。
- ② 反覆按下Fn（功能）按鈕或用控制輪上的◀/▶選擇您要的功能。
- ③ 轉動控制輪或控制環以選擇設定值。

## ■ 控制環

喜好的功能可以指定至控制環；拍攝時，只要轉動控制輪就能變更已建立的設定。

## ■ 功能表項目

### 📷 靜態影像拍攝功能表

影像尺寸	選擇靜態影像的尺寸。
長寬比	選擇靜態影像的長寬比。
影像品質	設定靜態影像的畫質。
全景：影像尺寸	選擇全景影像的尺寸。
全景：方向	設定全景影像的拍攝方向。
使用智慧型手機控制	透過智慧型手機控制相機拍攝靜態影像和動態影像。
過片模式	設定用於連拍等的過片模式。
閃光燈模式	設定閃光燈設定值。
對焦模式	選擇對焦方法。
自動對焦區域	選擇對焦區域。
柔膚效果	設定美膚效果與效果的等級。
微笑/面孔偵測	選擇自動偵測面孔並調整各種設定。設定在偵測到微笑時自動釋放快門。
自動取景	在拍攝臉部、特寫或使用追蹤對焦功能追蹤的被攝體時分析場景，然後以更令人印象深刻的構圖自動裁剪並儲存為影像的另一個拷貝。
ISO	調整感光度。
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。
閃光補償	調整閃光燈的光線量。

白平衡	調整影像的色調。
DRO/自動 HDR	自動補正亮度和對比度。
風格設定	選擇所需的影像處理方法。
相片效果	選擇想要的效果濾鏡，以呈現更深刻的藝術效果。
清晰影像縮放	提供比數位變焦更高品質的變焦影像。
數位變焦	提供比清晰影像縮放更高放大率的變焦影像。
消除長曝雜訊	設定快門速度為1/3秒或更久時的雜訊消除處理。
高 ISO 雜訊消除	設定高感光度拍攝的雜訊消除處理。
AF 輔助照明	設定AF照明器，可在黑暗環境中提供光線幫助對焦物體。
SteadyShot	設定SteadyShot。
色彩空間	變更可再生色彩的範圍。
拍攝祕訣清單	存取所有的拍攝祕訣。
寫入日期	設定是否將拍攝日期記錄在靜態影像上。
場景選擇	選擇預設的設定以便與各種場景條件配合。
記憶回復	選擇模式轉盤設為[記憶回復]時要調用的設定。
記憶	註冊要使用的模式或相機設定。

## 目 動態影像拍攝功能表

檔案格式	選擇動態影像檔案格式。
錄製設定	選擇記錄動態影像幀的尺寸。
影像尺寸(Dual Rec)	設定記錄動態影像時靜態影像的拍攝尺寸。
SteadyShot	設定SteadyShot。
音訊錄製	設定在拍攝動態影像時是否錄音。
減少風噪音	在記錄動態影像時減少風噪音。
動態影像	根據被攝體或效果選擇曝光模式。



## ⚙ 自訂功能表

FINDER/LCD設定	使用電子觀景窗（另售）時，設定在電子觀景窗與螢幕之間切換的方法。
紅眼減弱	減弱使用閃光燈時的紅眼現象。
格線	設定格線顯示，以便對齊結構輪廓。
自動檢視	設定自動檢視以在拍攝後顯示拍攝影像。
DISP按鈕	設定透過按控制輪上的DISP可選擇的螢幕顯示模式。
峰值等級	在手動對焦時用特定顏色強調對焦範圍的輪廓。
峰值顏色	設定用於峰值功能的顏色。
控制環	指定所需的功能到控制環。
控制環的變焦功能	設定控制環的變焦功能。 選擇[級數]時，您可以將變焦位置移到固定級數的焦距。
控制環顯示	設定操作控制環時是否顯示動畫。
功能按鈕	自訂按下Fn（功能）按鈕時顯示的功能。
中央按鈕功能	指定所需的功能到中央按鈕。
左側按鈕功能	指定所需的功能到左側按鈕。
右側按鈕功能	指定所需的功能到右側按鈕。
MOVIE按鈕	設定是否永遠啟動MOVIE按鈕。
MF輔助	在手動對焦時顯示放大的影像。
對焦放大時間	設定以放大形式顯示影像的時間長度。
面孔優先追蹤	設定追蹤時是否優先追蹤某個面孔。
面孔登錄	註冊或變更要優先對焦的人臉。

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## ▶ 播放功能表

傳送至智慧型手機	傳送影像至智慧型手機以便顯示。
傳送至電腦	請將影像傳送到連接在網路的電腦上備份。
在TV上觀看	您可以在有網路功能的電視機上觀看影像。
靜態/動態影像選擇	在靜態影像/動態影像顯示之間切換。
刪除	刪除一個影像。

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循環播放	顯示循環播放。
影像索引	同時顯示多個影像。
保護	保護影像。
指定列印	為一個靜態影像添加列印預訂標記。
相片效果	在影像上添加各種紋理。
音量設定	調整音量。
播放顯示	設定如何播放縱向拍攝的影像。

### 記憶卡工具功能表

格式化	格式化記憶卡。
檔案編號	為靜態影像與動態影像設定指定檔案號碼的方法。
選擇REC資料夾	改變儲存影像的所選資料夾。
新資料夾	建立新資料夾以儲存靜態影像與動態影像（MP4）。
還原影像資料庫	還原影像資料庫檔案，並啟動錄製與播放。
顯示記憶卡空間	顯示記憶卡中可以記錄的動態影像時間和靜態影像的數目。

### 時鐘設定功能表

日期/時間設定	設定日期與時間以及日光節約。
區域設定	設定使用位置。

### 設定功能表

選單開始位置	將功能表的游標預設位置設定為最頂部的項目或上次選擇的項目。
模式轉盤指南	開啟或關閉模式轉盤指南（各個拍攝模式的說明）。
LCD亮度	設定螢幕亮度。
觀景窗亮度	使用電子觀景窗（另售）時，設定電子觀景窗的亮度。
省電	設定省電功能的等級。
省電開始時間	設定相機自動關閉之前的等待時間長度。

PAL/NTSC選擇器 (僅限1080 50i相 容機型)	藉由變更裝置的電視格式，即可以不同的動態影像格式來拍攝。
上傳的設定* <sup>1</sup>	設定使用Eye-Fi卡時相機的上傳功能。
HDMI解析度	設定相機連接至HDMI電視機時的解析度。
HDMI控制	從支援“BRAVIA” Sync的電視機操作相機。
USB連線	設定USB連線方法。
USB LUN設定	透過限制USB連線功能來改善相容性。
USB電源供給	設定是否透過USB連線供電。
音頻訊號	設定相機的運作聲音。
WPS按鍵	按一下WPS按鈕即可輕鬆在相機上註冊存取點。
存取點手動設定	您可以手動註冊存取點。
編輯裝置名稱	您可以變更Wi-Fi Direct等底下的裝置名稱。
顯示MAC地址	顯示相機的MAC位址。
SSID/密碼重設	重設智慧型手機連線的SSID和密碼。
飛航模式	您可以將此裝置設定為不進行無線通訊。
版本	顯示相機軟體版本。
語言	選擇語言。
跌落傳感器	設定[跌落傳感器]功能。
示範模式	設定開啟或關閉動態影像播放示範。
初始化	將設定還原成其預設值。

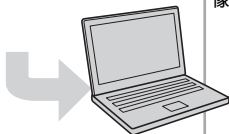
\*<sup>1</sup> 在相機中插入Eye-Fi卡（另售）時出現。

## “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。必須要有 “PlayMemories Home” 才能將AVCHD動態影像匯入電腦。



從相機匯入影像



### 組織



在日曆上觀看影像



創建動態影像光碟

### 分享影像



將影像上傳至網路服務



在 “PlayMemories Online” 分享影像

### 💡 下載 “PlayMemories Home” (僅限Windows)

您可以從以下URL下載 “PlayMemories Home”：

[www.sony.net/pm](http://www.sony.net/pm)

### 附註

- 必須連線至網際網路才能安裝 “PlayMemories Home”。
- 必須連線至網際網路才能使用 “PlayMemories Online” 或其他網路服務。有些國家或地區可能沒有提供 “PlayMemories Online” 或其他網路服務。
- “PlayMemories Home” 與Mac不相容。請使用Mac上安裝的應用程式。詳情請造訪以下URL：<http://www.sony.co.jp/imsoft/Mac/>

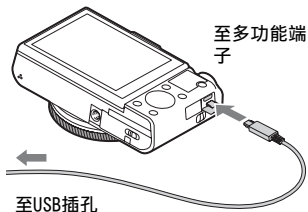
## ■ 在電腦上安裝 “PlayMemories Home”

1 使用電腦的網際網路瀏覽器，進入以下URL，然後按一下 [安裝] → [執行]。

[www.sony.net/pm](http://www.sony.net/pm)

2 按照畫面上的指示完成安裝。

- 顯示將相機連接到電腦的訊息時，用微型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” 的詳情，請參閱 “PlayMemories Home 說明指南”。

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

- 若要從開始功能表存取 “PlayMemories Home 說明指南”：按一下 [開始] → [所有程式] → [PlayMemories Home] → [PlayMemories Home 說明指南]。
- 如果使用Windows 8，在開始畫面上選擇 [PlayMemories Home] 圖示以啟動 [PlayMemories Home]，然後從 [說明] 功能表選擇 [PlayMemories Home 說明指南]。
- 關於 “PlayMemories Home” 的詳情，您也可以參閱 “Cyber-shot 使用者指南”（第2頁）或以下PlayMemories Home支援網頁（只有英文）：  
<http://www.sony.co.jp/pmh-se/>

## “Image Data Converter” 的功能

以下是使用 “Image Data Converter” 時的可用功能範例。

- 您可以用色調曲線或銳利度等多種校正功能編輯RAW影像。
- 您可以用白平衡、光圈和風格設定等調整影像。
- 您可以將顯示和編輯的靜態影像儲存到電腦上。  
有兩種儲存RAW影像的方式：保持RAW格式儲存影像資料，或儲存為一般檔案格式。
- 您可以顯示和對比本相機拍攝的RAW影像/JPEG影像。
- 您可以使用五種等級來分級影像。
- 您可以設定色彩標籤。

## ■ 安裝 “Image Data Converter”

### 1 從下列URL下載軟體並將其安裝在電腦上。

Windows: <http://www.sony.co.jp/imsoft/Win/>

Mac: <http://www.sony.co.jp/imsoft/Mac/>

## ■ 觀看 “Image Data Converter指南”

關於如何使用 “Image Data Converter” 的詳情，請參閱 “Image Data Converter指南”。

### 1 如果使用Windows:

按一下[開始] → [所有程式] → [Image Data Converter] → [說明] → [Image Data Converter Ver.4]。

如果使用Mac:

啟動Finder → [應用程式] → [Image Data Converter] → [Image Data Converter Ver.4] → 在功能表列中選擇“說明” → “Image Data Converter指南”。

- 如果使用Windows 8，啟動 “Image Data Converter Ver.4” → 在功能表列中選擇 “說明” → “Image Data Converter指南”。
- 關於 “Image Data Converter” 的詳情，您也可以參閱 “Cyber-shot 使用者指南”（第2頁）或以下 “Image Data Converter” 支援網頁（只有英文）：  
<http://www.sony.co.jp/ids-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

影像尺寸：L：20M

當[長寬比]設為[3:2]時\*

影像品質 \ 容量	2 GB
標準	295個影像
精細	170個影像
RAW與JPEG	58個影像
RAW	88個影像

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\* [長寬比]未設定為[3:2]時，可以記錄比上列更多的影像。（當[影像品質]設為[RAW]時除外。）

### ■ 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（產品規格限制）。MP4（12M）格式動態影像的最長連續記錄時間約15分鐘（受到2 GB檔案大小限制）。

(h (時), m (分))

錄製設定 \ 容量	2 GB
60i 24M(FX)/50i 24M(FX)	10 m
60i 17M(FH)/50i 17M(FH)	10 m
60p 28M(PS)/50p 28M(PS)	9 m
24p 24M(FX)/25p 24M(FX)	10 m
24p 17M(FH)/25p 17M(FH)	10 m
1440×1080 12M	15 m
VGA 3M	1 h 10 m

- 動態影像可以記錄的時間會因為相機配備有可以根據拍攝場景而自動調整畫質的VBR (Variable Bit-Rate) 而有所不同。記錄快速移動的被攝體時，影像會比較清晰，但是可以記錄的時間會比較短，因為需要更多記憶體來記錄。
- 可以記錄的時間也會因為拍攝條件、被攝體或者畫質/尺寸的設定而有所不同。

## 使用相機的注意事項

### 本相機內建的功能

- 本說明書描述1080 60i相容裝置與1080 50i相容裝置。  
若要查看您的相機是否是1080 60i相容裝置或1080 50i相容裝置，請查看相機底部的下列標誌。  
1080 60i相容裝置：60i  
1080 50i相容裝置：50i
- 本相機與1080 60p或50p格式動態影像相容。與到目前為止都是以隔行掃描法記錄的標準記錄模式不同的是，本相機是以逐行掃描法記錄。這樣可以增加解析度，提供更順暢、更真實的影像。

### 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。

### 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。
- 存放在陽光直射或者靠近發熱器的地方  
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。

## Carl Zeiss鏡頭

本相機配備有Carl Zeiss鏡頭，能以優越的對比再生清晰的影像。本相機的鏡頭是根據德國Carl Zeiss的品質標準，在經過Carl Zeiss認證的品質保證系統底下生產的。

## 關於螢幕的注意事項

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。

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## 關於閃光燈的注意事項

- 請不要以抓住閃光燈的方式拿相機，或者是對閃光燈施加太大的力量。
- 如果水、灰塵或沙子進入開啟的閃光燈，可能會造成故障。

## 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。

## 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。

## 保養螢幕

- 如果護手霜或保濕霜殘留在螢幕上，塗層可能會分解。如果沾染到螢幕，請立即擦掉。
- 用面紙或其他物品大力擦拭可能損壞塗層。
- 如果指印或碎屑黏在螢幕上，建議您輕輕去除碎屑，然後用軟布將螢幕擦拭乾淨。

## 關於無線LAN的注意事項

對於因為遺失或竊盜導致未經授權存取或未經授權使用相機載入的目的地而造成的任何損害，我們不承擔任何責任。

## 關於丟棄/轉讓相機的注意事項

為了保護個人資料，丟棄或轉讓相機時請執行以下操作。

- 執行[初始化]（第23頁）以重設所有相機設定。
- 刪除[面孔登錄]（第21頁）中所有已註冊的人臉。

## 規格

### 相機

#### [系統]

影像裝置: 13.2公釐×8.8公釐

(1.0型) Exmor R CMOS感應器

相機的總像素數:

約2090萬像素

相機的有效像素數:

約2020萬像素

鏡頭: Carl Zeiss Vario-Sonnar

T\* 3.6倍變焦鏡頭

f = 10.4公釐 - 37.1公釐 (28公釐 - 100公釐 (35公釐的底片機))

F1.8 (W) - F4.9 (T)

拍攝動態影像 (16:9) 時:

29公釐 - 105公釐\*<sup>1</sup>

拍攝動態影像 (4:3) 時:

36公釐 - 128公釐\*<sup>1</sup>

\*<sup>1</sup> 當[SteadyShot]設為[標準]時

SteadyShot: 光學

曝光控制: 自動曝光、光圈優先、

快門速度優先、手動曝光、場景選擇

白平衡: 自動、日光、陰影、陰天、

白熾燈、螢光燈 (暖白色/冷白色/白天白光/日光)、閃光燈、色溫/彩色濾鏡、自訂

檔案格式:

靜態影像: 符合JPEG (DCF、Exif、MPF Baseline) 標準、RAW (Sony ARW 2.3格式)、相容於DPOF

動態影像 (AVCHD格式):

相容於AVCHD格式Ver. 2.0

視訊: MPEG-4 AVC/H.264

音訊: Dolby Digital 2聲道、

配備Dolby Digital Stereo Creator

- 由Dolby Laboratories授權製造。

動態影像 (MP4格式):

視訊: MPEG-4 AVC/H.264

音訊: MPEG-4 AAC-LC 2聲道

記錄媒體: “Memory Stick XC Duo”、“Memory Stick PRO Duo”、“Memory Stick Micro”、SD卡、microSD記憶卡

閃光燈: 閃光範圍 (ISO感光度 (建議的曝光指數) 設定為自動):

約0.3公尺至15.0公尺 (W)

約0.55公尺至5.7公尺 (T)

#### [輸入和輸出接頭]

HDMI接頭: HDMI 微型插孔

多功能端子\*: USB通訊

USB通訊: Hi-Speed USB

(USB 2.0)

\* 支援微型USB相容裝置。

#### [螢幕]

LCD螢幕:

7.5公分 (3.0型) TFT驅動

總點數: 1 228 800點

#### [電源, 一般]

電源: 充電電池NP-BX1, 3.6 V

電源供應器/電源適配器

AC-UB10/UB10B/UB10C/UB10D, 5 V

電池消耗量 (進行拍攝時):

約1.5 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):

101.6公釐×58.1公釐×38.3公釐 (寬/高/長)

質量 (符合CIPA標準)

(包含NP-BX1電池、“Memory Stick Duo”): 約281公克

麥克風: 立體聲

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揚聲器：單聲

Exif Print：相容

PRINT Image Matching III：相容

## [無線LAN]

支援的標準：IEEE 802.11 b/g/n

頻率：2.4 GHz

支援的安全性通訊協定：

WEP/WPA-PSK/WPA2-PSK

設定方式：WPS (Wi-Fi Protected Setup) / 手動

存取方式：基礎架構模式

NFC：符合NFC Forum Type 3 Tag標準

## 電源供應器/電源適配器AC-UB10/ UB10B/UB10C/UB10D

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-BX1

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：1.89 A

容量：4.5 Wh (1 240 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 XC-HG Duo”、“Memory Stick PRO Duo”、“Memory Stick PRO-HG Duo”、“Memory Stick Duo”、“Memory Stick Micro”

• “AVCHD Progressive”和“AVCHD Progressive”標誌是Panasonic Corporation和Sony Corporation的商標。

• Dolby和雙D符號是Dolby Laboratories的商標。

• HDMI名稱、HDMI High-Definition Multimedia Interface名稱和HDMI標誌是HDMI Licensing LLC在美國和其他國家的商標或註冊商標。

• Windows是Microsoft Corporation在美國和/或其他國家的註冊商標。

• Mac、App Store是Apple Inc.的註冊商標。

• iOS是Cisco Systems, Inc.和/或其子公司在美國和其他國家的註冊商標或商標。


• SDXC標誌是SD-3C, LLC的商標。

• Android、Google Play是Google Inc.的商標。

• Wi-Fi、Wi-Fi標誌和Wi-Fi PROTECTED SET-UP是Wi-Fi Alliance的註冊商標。

• N字標示為NFC Forum, Inc.在美國和其他國家的商標或註冊商標。

• DLNA和DLNA CERTIFIED是Digital Living Network Alliance的商標。

• “”和“PlayStation”是Sony Computer Entertainment Inc.的註冊商標。

• Facebook和“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。
- Eye-Fi是Eye-Fi, Inc.的商標。
- 此外，在本說明書中所使用的系統和產品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。



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- 從PlayStation Store（在有這些店的地方）下載PlayStation 3的應用程式，可以用您的PlayStation 3增添更多樂趣。
- 若要使用PlayStation 3專用的應用程式，必須先下載PlayStation Network應用程式並且擁有帳號。在有PlayStation Store的地區可以取得。

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/>







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

