

# SONY®

4-465-973-11(1)

## Digital Still Camera

Instruction Manual

Cyber-shot



LITHIUM ION  TYPE



 **AVCHD**  
Progressive

 **HDMI™**  
REGISTERED TRADEMARK OF HDMI LICENSEE ASSOCIATION



DSC-RX100M2

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

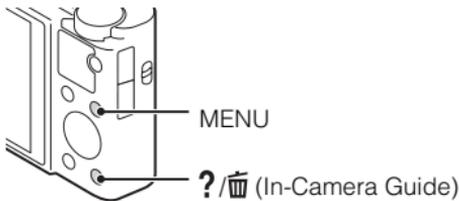


“Cyber-shot User Guide” is an on-line manual. Refer to it for in-depth instructions on the many functions of the camera.

- 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. \_\_\_\_\_

## 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.rbrcl.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.

### 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.

## **I 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.

## **I 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

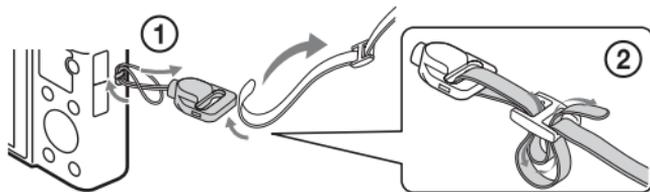
Complies with  
IDA Standards  
DB00353

## Checking the supplied items

The number in parentheses indicates the number of pieces.

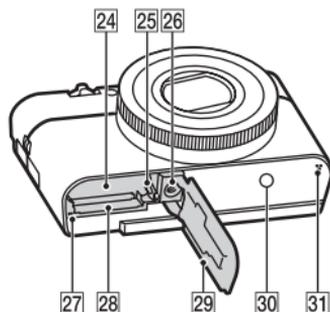
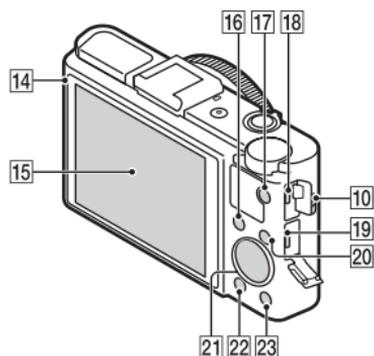
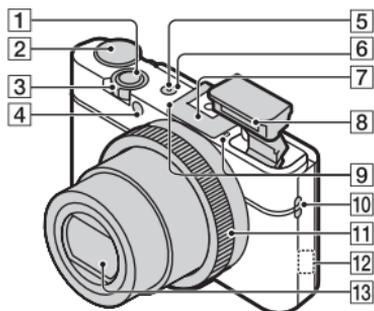
- Camera (1)
- Rechargeable battery pack NP-BX1 (1)
- Micro USB cable (1)
- AC Adaptor AC-UB10/UB10B/UB10C/UB10D (1)
- Power cord (mains lead) (not supplied in the USA and Canada) (1)
- Wrist strap (1)
- Strap adapter (2)

(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

- 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

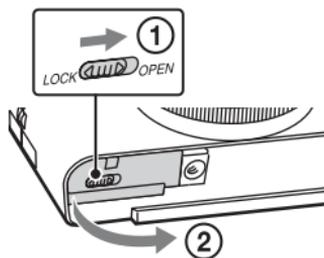
\* For details on compatible accessories for the multi interface shoe, visit the Sony web site, or consult your Sony dealer or local authorized Sony service facility. You can also use accessories that are compatible with the accessory shoe. Operations with

other manufacturers' accessories are not guaranteed.

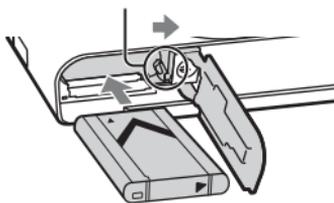
 Multi  
Interface Shoe

Accessory Shoe

## Inserting the battery pack



Battery eject lever



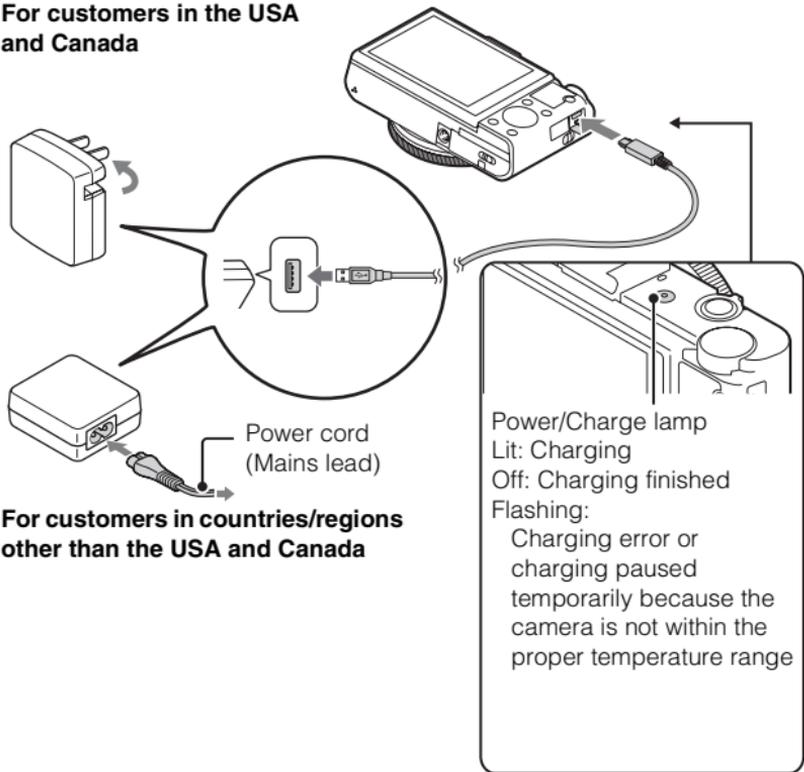
**1** Open the cover.

**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)

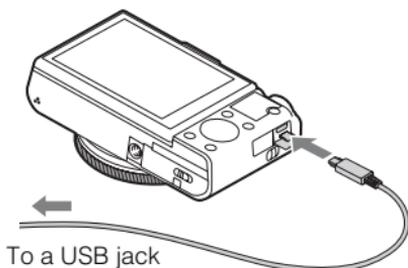
The charging time is approximately 230 min. using the AC Adaptor (supplied).

## 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.

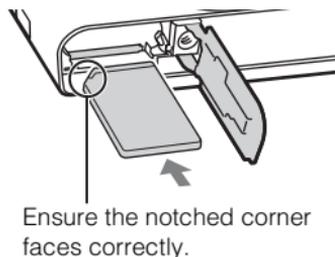
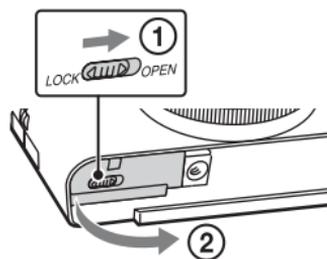
## Battery life and number of images that can be recorded and played back

	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

### 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)



- 
- 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
<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

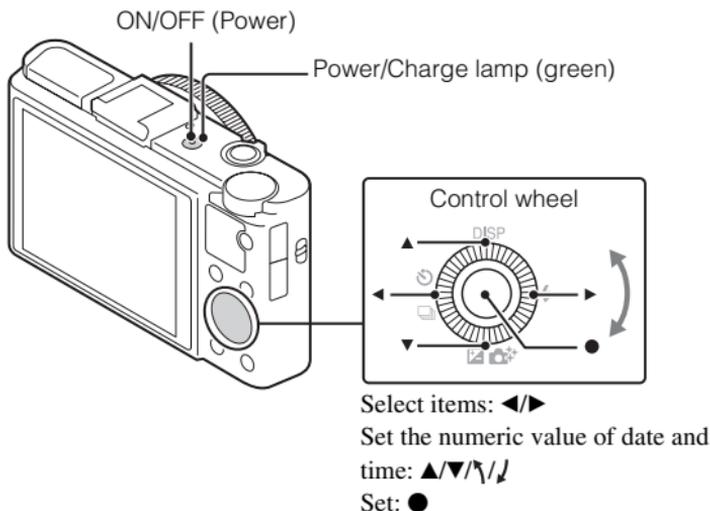
Memory card: Push the memory card in once to eject the memory card.

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

### Notes

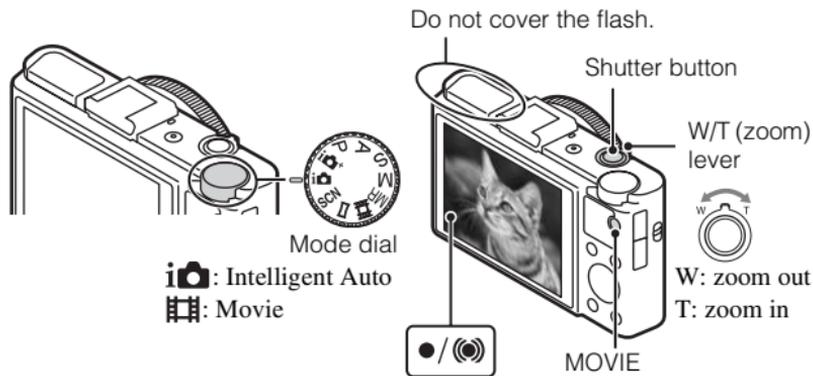
- Never remove the memory card/battery pack when the access lamp (page 9) is lit. This may cause damage to data in the memory card.

## 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.

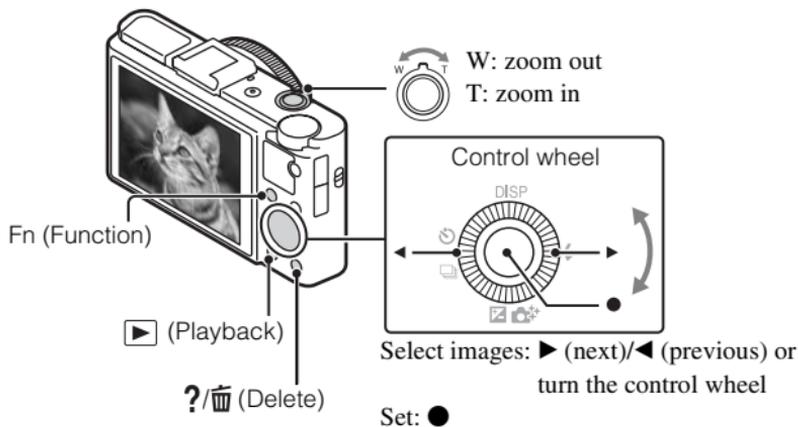
### Shooting movies

- 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

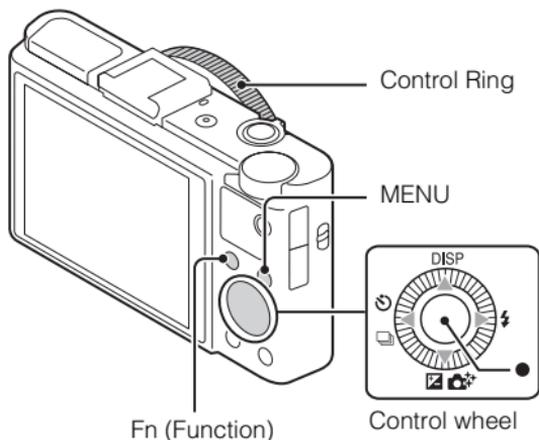
Press the Fn (Function) button.

### ■ 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.



### ■ 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 [Bkground 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.

#### **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.

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

## Features of “PlayMemories Home”

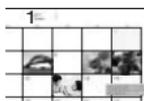
The software “PlayMemories Home” allows you to import still images and movies to your computer and use them. “PlayMemories Home” is required for importing AVCHD movies to your computer.



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

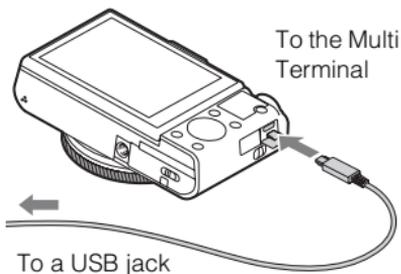
---

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).



## ■ 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**

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

Quality \ Capacity	2 GB
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))

Record Setting \ Capacity	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

- 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.

### **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

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### [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.

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### [Screen]

LCD screen:

7.5 cm (3.0 type) TFT drive

Total number of dots:

1 228 800 dots

---

**[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

---

**[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.

- “PS” 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.



- 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/>







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

