

SONY

4-437-511-11(1)

NEX-5R

Interchangeable Lens Digital Camera

Instruction Manual

E-mount

Preparing the camera	
Mastering the basic operation	
Using the recording functions	
Using the playback functions	
Checking the functions available	
Importing images to the computer	
Adding functions to the camera	
Connecting the camera to a network	
Others	

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

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

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NEX-5R
4-437-511-11(1)

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NEX-5R

NEX-5R
4-437-511-11(1)

English

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. NEX-5R

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.

GB
2

- 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.

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

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

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

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



For more information regarding recycling of rechargeable batteries, call toll free

1-800-822-8837, or visit <http://www.rbcc.org/>

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

Battery pack and lens (If lens supplied)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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.: NEX-5R
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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

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



Hereby, Sony Corporation, declares that this NEX-5R Interchangeable Lens Digital 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 R&TTE Directive for using connection cables shorter than 3 meters (9.8 feet).

Attention

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

Notice

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

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



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

please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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



This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. 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 ^{GB} fuse cover after you change the fuse. Never use the plug without the fuse cover. If you **6** should lose the fuse cover, please contact your nearest Sony service station.

Caution if using the camera in Italy

Use of the RLAN network is governed: - with respect to private use, by the Legislative Decree of 1.8.2003, no. 259 ("Code of Electronic Communications"). In particular Article 104 indicates when the prior obtainment of a general authorization is required and Art. 105 indicates when free use is permitted; - with respect to the supply to the public of the RLAN access to telecom networks and services, by the Ministerial Decree 28.5.2003, as amended, and Art. 25 (general authorization for electronic communications networks and services) of the Code of electronic communications.

Caution if using the camera in Norway

Use of this radio equipment is not allowed in the geographical area with in a radius of 20 km from the centre of Ny-Alesund, Svalbard.

For Customers in Singapore

Complies with
IDA Standards
DB00353

For customers who purchased their camera from a store in Japan that caters to tourists

Note

All Wireless function designated for the NEX-5R Interchangeable Lens Digital Camera are applicable in the U.S.A., Canada, Mexico, France, Sweden, Russia, Ukraine, Australia, Singapore, Korea, the Philippines, Thailand, Taiwan, India and China.

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This manual covers several models supplied with different lenses.
The model name varies depending on the supplied lens. The available model varies depending on the countries/regions.

Model name	Lens
NEX-5R	Not supplied
NEX-5RL	E16 – 50 mm
NEX-5RK	E18 – 55 mm
NEX-5RY	E55 – 210 mm and E16 – 50 mm

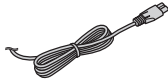
Checking the supplied items

First check the model name of your camera (page 10). The accessories supplied differ depending on the model.

The number in parentheses indicates the quantity.

■ Comes with all models

- Camera (1)
- Power cord (mains lead) (1)* (not supplied in the U.S.A. and Canada)

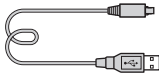


- * Multiple power cords may be supplied with your camera. Use the appropriate one that matches your country/region.

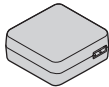
- Rechargeable battery pack NP-FW50 (1)



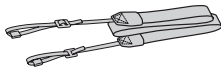
- Micro USB cable (1)



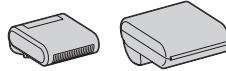
- AC adaptor AC-UB10/UB10B/UB10C/UB10D (1)



- Shoulder strap (1)



- Flash HVL-F7S (1)/Flash case (1)



- CD-ROM (1)
 - Application Software for α camera
 - α Handbook
- Instruction Manual (This manual) (1)

■ NEX-5R

- Body cap (1) (attached to the camera)

■ NEX-5RL

- E16 – 50 mm zoom lens (1)/Front lens cap (1) (attached to the camera)

■ NEX-5RK

- E18 – 55 mm zoom lens (1)/Front lens cap (1) (attached to the camera)/Lens hood (1)

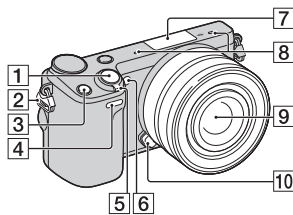
■ NEX-5RY

- E16 – 50 mm zoom lens (1)/Front lens cap (1) (attached to the camera)
- E55 – 210 mm zoom lens (1)/Front lens cap (1)/Rear lens cap (1)/Lens hood (1)

Preparing the camera

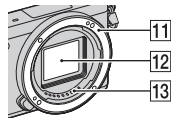
Identifying parts

See the pages in parentheses for details on operation for the parts.

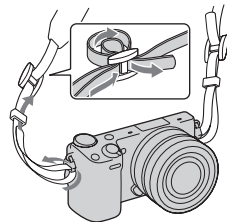


- 6** AF illuminator/Self-timer lamp/
Smile Shutter lamp
- 7** Smart Accessory Terminal 2¹⁾
- 8** Microphone²⁾
- 9** Lens (22)
- 10** Lens release button (23)
- 11** Mount
- 12** Image sensor³⁾
- 13** Lens contacts³⁾

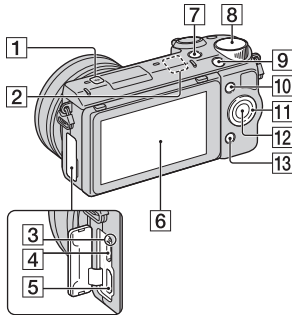
When the lens is removed



- 1** Shutter button (31)
- 2** Hook for shoulder strap
Attach the shoulder strap to prevent
damage caused by dropping the
camera.



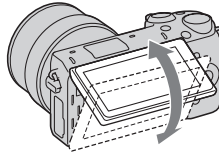
- 3** Fn (Function) button (55)
- 4** Remote sensor
- 5** ON/OFF (Power) switch (28)



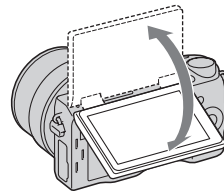
- 1 Image sensor position mark
- 2 Wi-Fi sensor (built-in)
- 3 Charge lamp
- 4 Micro USB terminal
- 5 HDMI terminal (58)
- 6 LCD screen/Touch panel⁴⁾ (38)
- 7 (Playback) button (33)
- 8 Control dial (37)
- 9 MOVIE button (32)
- 10 Soft key A (37)
- 11 Control wheel (36)
- 12 Soft key C (37)
- 13 Soft key B (37)

4)

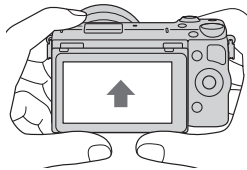
- You can adjust the LCD screen to an easily viewable angle and shoot from any position.



- Tilt the LCD screen upward about 180 degrees when you take a self-portrait. The 3-second delay self-timer is automatically selected in the default setting.

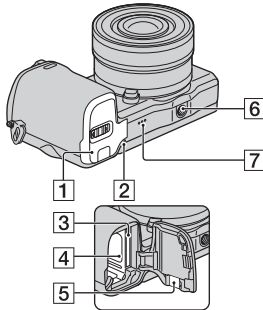


- When storing the LCD screen after Self-portrait shooting, lower the LCD screen completely until it fits against the camera body, then slide the LCD screen upward until both the bottoms of the LCD screen and the camera body are aligned.



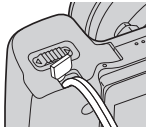
Preparing the camera

Preparing the camera



- 1 Battery/memory card cover (17, 24)
- 2 Access lamp (25)
- 3 Memory card insertion slot (24)
- 4 Battery compartment (17)
- 5 Connection plate cover

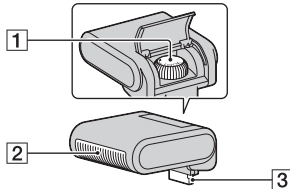
Use this when using an AC-PW20 AC Adaptor (sold separately). Insert the connection plate into the battery compartment, and then pass the cord through the connection plate cover as shown below.



- Make sure that the cord is not pinched when you close the cover.

- 6 Tripod socket hole
 - Use a tripod with a screw length of less than 5.5 mm (7/32 inch). You will be unable to firmly secure the camera to tripods using screws longer than 5.5 mm (7/32 inch), and may damage the camera.
- 7 Speaker

Flash HVL-F7S



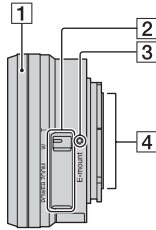
- 1 Screw
- 2 Flash¹⁾
- 3 Connector¹⁾

- 1) Do not touch this part directly. If it is dirty, wipe it off with a soft clean cloth.

■ Lens

See page 101 on the specifications of the lenses.

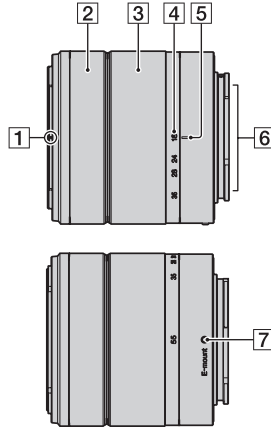
E PZ 16 – 50 mm F3.5-5.6 OSS (supplied with NEX-5RL/NEX-5RY)



- 1** Zooming/Focusing ring
- 2** Zooming lever
- 3** Mounting index
- 4** Lens contacts¹⁾

¹⁾ Do not touch this part directly.

E18 – 55 mm F3.5-5.6 OSS (supplied with NEX-5RK)



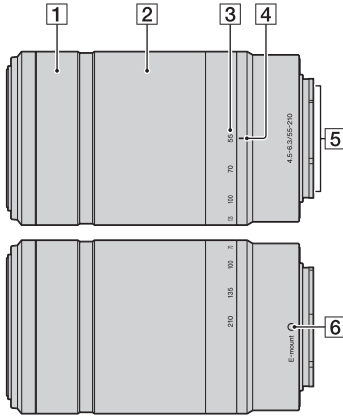
- 1** Hood index
- 2** Focusing ring
- 3** Zooming ring
- 4** Focal-length scale
- 5** Focal-length index
- 6** Lens contacts¹⁾
- 7** Mounting index

¹⁾ Do not touch this part directly.

Preparing the camera

E55 – 210 mm F4.5-6.3 OSS (supplied with NEX-5RY)

Preparing the camera



- 1 Focusing ring
- 2 Zooming ring
- 3 Focal-length scale
- 4 Focal-length index
- 5 Lens contacts¹⁾
- 6 Mounting index

¹⁾ Do not touch this part directly.

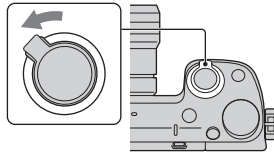
Charging the battery pack

When using the camera for the first time, be sure to charge the NP-FW50 “InfoLITHIUM” battery pack (supplied).

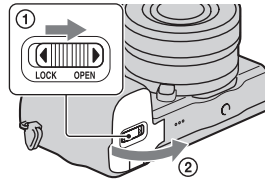
The “InfoLITHIUM” battery pack can be charged even when it has not been fully depleted. The battery pack can also be used when it has not been fully charged.

The charged battery pack is discharged little by little, even when you do not use it. To avoid missing an opportunity to shoot, charge the battery pack again before you shoot.

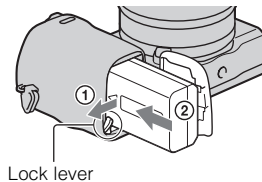
- 1 Set the power switch to OFF.



- 2 Open the cover by sliding the lever.

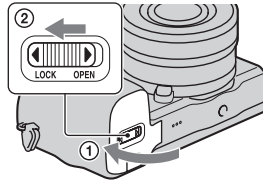


- 3 Insert the battery pack completely, using the tip of the battery to press the lock lever.

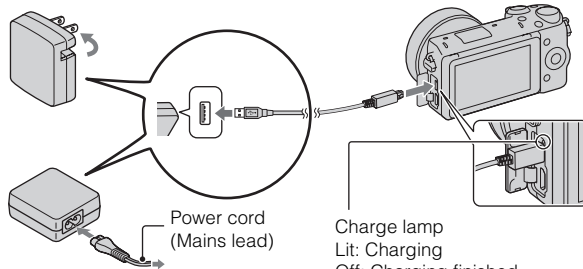


Preparing the camera

4 Close the cover.



5 Connect the camera to the AC Adaptor (supplied), using the micro USB cable (supplied). Connect the AC Adaptor to the wall outlet (wall socket).



Charge lamp
Lit: Charging
Off: Charging finished
Flashing: Charging error or
charging temporarily stopped
because the temperature is
outside the recommended
range

The charge lamp lights orange, and charging starts.

- Set the power switch to OFF while charging the battery. If the power switch is set to ON, the camera cannot charge the battery.
- When the charge lamp flashes, remove and re-insert the battery pack.

Notes

- If the charge lamp on the camera flashes when the AC Adaptor is connected to the wall outlet (wall socket), this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 °F and 86 °F).
- The charge lamp may flash quickly when the battery pack is used for the first time, or the battery pack has not been used for a long time. In such cases, remove the battery pack and re-insert it, and then charge the battery pack.
- Do not try to charge the battery pack again right after it has been charged, or when it has not been used after being charged. Doing so will affect the performance of the battery pack.
- 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).

Charging time

The charging time is approximately 280 min. using the AC Adaptor (supplied).

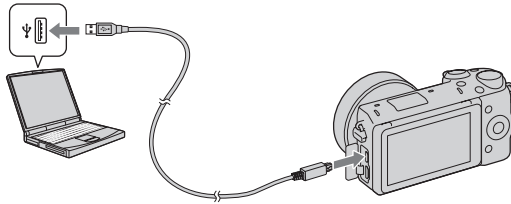
Notes

- 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.

Preparing the camera

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 leave the camera connected to a computer 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 from the computer.
 - We do not guarantee operation with all computers. No guarantees are made for charging using a custom-built computer, a modified computer, or charging via a USB hub. You may not be able to operate the camera properly, depending on the types of USB devices you are using at the same time.



Using your camera abroad — Power source

You can use your camera and AC Adaptor in any countries/regions where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

An electronic voltage transformer is unnecessary and its use may cause a malfunction.

■ Checking the remaining battery level

Check the level with the following indicators and percent figures displayed on the LCD screen.

Battery level						"Battery exhausted."
	High Low					You cannot shoot any more image.

Notes

- The displayed battery power level may not be correct under certain circumstances.

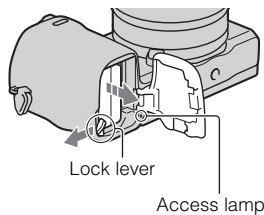


What is an "InfoLITHIUM" battery pack?

An "InfoLITHIUM" battery pack is a lithium-ion battery pack that has functions for exchanging information related to operating conditions with your camera. Using the "InfoLITHIUM" battery pack, the remaining battery time in percent figures is displayed according to the operating conditions of your camera.

■ Removing the battery pack

Turn off the camera, make sure that the access lamp is not lit, slide the lock lever in the direction of the arrow, and pull out the battery pack. Be careful not to drop the battery pack.



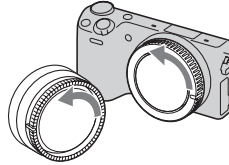
Preparing the camera

Attaching/removing the lens

Set the power switch of the camera to OFF before you attach or remove the lens.

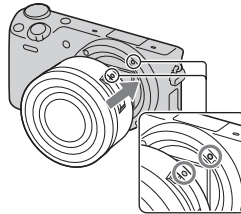
1 If the cap or the packaging lid is attached, remove it from the camera or the lens.

- Quickly change the lens somewhere away from dusty locations so as to keep dust or debris from getting inside the camera.



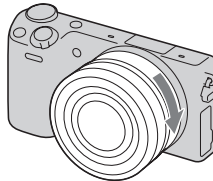
2 Mount the lens by aligning the white index marks on the lens and the camera.

- Hold the camera's face downward to prevent the dust from entering into the camera.



3 While pushing the lens lightly toward the camera, turn the lens clockwise until it clicks into the locked position.

- Be sure to put the lens on straight.

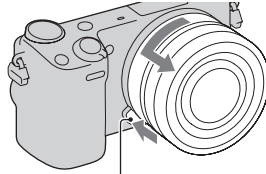


Notes

- When attaching a lens, do not press the lens release button.
- Do not use excessive force when attaching a lens.
- The Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). For details, refer to the operating manual supplied with the Mount Adaptor.
- When using a lens equipped with a tripod socket, attach the socket on the lens side to the tripod to maintain balance.

■ Removing the lens

- 1 Press the lens release button all the way in and turn the lens counterclockwise until it stops.



Lens release button

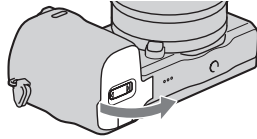
Notes

- If dust or debris gets inside the camera while you are changing the lens and adheres to the surface of the image sensor (the part that converts the light source to a digital signal), it may appear as dark spots on the image, depending on the shooting environment. The camera vibrates slightly when it is turned off, due to the anti-dust function, to prevent dust from adhering to the image sensor. However, attach or remove the lens quickly somewhere away from dusty locations.
- Do not leave the camera with the lens removed.
- When you want to use body caps or rear lens caps, please purchase ALC-B1EM (Body cap) or ALC-R1EM (Rear lens cap) (sold separately).
- When you use a lens with a power zoom, set the power switch of the camera to OFF and confirm that the lens is completely retracted before switching lenses. If the lens has not retracted, do not press the lens in by force.

Preparing the camera

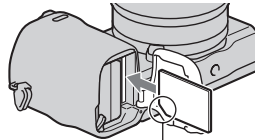
Inserting a memory card (sold separately)

1 Open the cover.



2 Insert a memory card.

- Insert the memory card until it clicks as illustrated.



Check on the direction of the notched corner.

3 Close the cover.

■ Memory cards that you can use

You can use following types of memory cards with this camera. However, proper operation cannot be guaranteed for all types of the memory cards.

Usable memory card	Still image	Movie	Term in this manual
“Memory Stick PRO Duo” media	✓	✓ (Mark2)	“Memory Stick PRO Duo” media
“Memory Stick PRO-HG Duo” media	✓	✓	
SD memory card	✓	✓ (Class 4 or more)	SD card
SDHC memory card	✓	✓ (Class 4 or more)	
SDXC memory card	✓	✓ (Class 4 or more)	

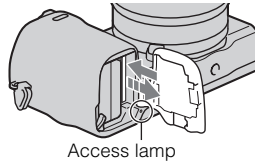
You cannot use MultiMediaCard.

Notes

- Images recorded on an SDXC memory card cannot be imported to or played on computers or AV devices that are not compatible with exFAT. Make sure that the device is compatible with exFAT before connecting it to the camera. If you connect your camera to an incompatible device, you may be prompted to format the card. Never format the card in response to this prompt, as doing so will erase all data on the card. (exFAT is the file system used on SDXC memory cards.)

■ Removing the memory card

Open the cover, make sure that the access lamp is not lit, and push the memory card once.



Notes

- When the access lamp is lit, do not remove the memory card or the battery pack, or turn off the power. The data may be corrupted.

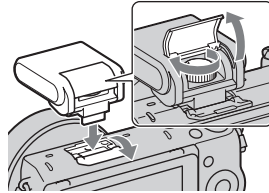
Attaching the flash

When you want to use a flash during shooting, attach the flash device (supplied).

The flash is enabled when it is raised, and disabled when lowered.

Set the power switch of the camera to OFF before you attach or remove the flash.

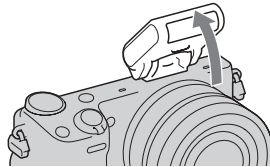
- 1 Attach the flash to the Smart Accessory Terminal 2 of the camera.




- 2 Fasten the screw to secure the flash.


- 3 Raise the flash first to fire the flash.

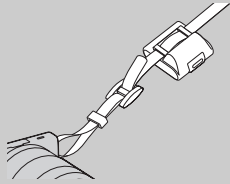
- Lower the flash when you do not intend to use it.
- The default setting is [Autoflash].
To change the setting, see page 54.



Notes

- The power for the flash is provided from the camera. When the camera is charging the flash,  blinks on the LCD screen. You cannot press the shutter button when this icon is blinking.
- Plug the flash fully into the Smart Accessory Terminal 2 of the camera, and fasten the screw securely. Make sure that the flash is attached to the camera securely.
- You cannot use the [Self-portrait Self-timer] function when a flash is attached to the camera.

 **Carrying the flash**



The flash case can be conveniently attached to the shoulder strap.
Store the flash in the case when you are not using it to protect it from harm.

Preparing the camera

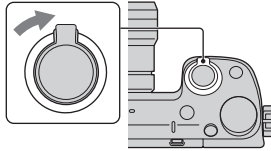
Setting the date and time

When you turn on the camera for the first time, the screen to set date and time appears.

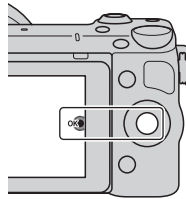
- 1 Set the power switch to ON to turn on the camera.

The screen to set date and time appears.

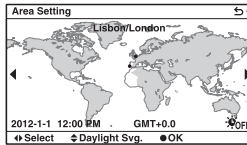
- To turn off the camera, set the power switch to OFF.



- 2 Press the center of the control wheel. Or, touch OK on the screen.



- 3 Select your area by pressing the right or left of the control wheel and press the center.

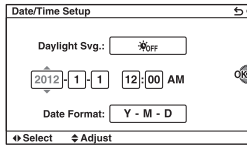


- 4 Press the left or right of the control wheel to select each item, and press the top or bottom, or turn it to select the numeric value.

Daylight Svg.: Turns on or off the daytime saving time setting.

Date Format: Selects the format to display date.

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



5 Repeat step 4 to set other items, and then press the center of the control wheel. Or, touch OK on the screen.

Notes

- You cannot set the date, time and area by touching the screen.
- You cannot superimpose the date on images on this camera. Using “PlayMemories Home” stored on the CD-ROM (supplied), you can save or print images with date. Refer to “PlayMemories Home Help Guide” for more details (page 73).

■ Resetting the date and time/Checking the current clock setting

Select MENU → [Setup] → [Date/Time Setup] (page 66).

■ Maintaining the date and time setting

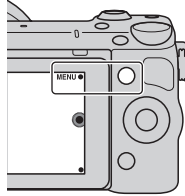
This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not. For details, see page 96.

Preparing the camera

Shooting still images

In the **i** (Intelligent Auto) mode, the camera analyzes the subject, and allows you to shoot with appropriate settings.

- 1 Select MENU → [Shoot Mode] → **i** (Intelligent Auto).



- 2 Point the camera to the subject.

When the camera recognizes the scene, the Scene Recognition icon and guide appear on the LCD screen:

- ☾ (Night Scene), 📵 (Tripod Night Scene), 🌙 (Night Portrait), 📷 (Backlight), 📷 (Backlight Portrait), 📷 (Portrait), 📷 (Landscape), 🌸 (Macro), 📷 (Spotlight), 📷 (Low Brightness), or 📷 (Baby).



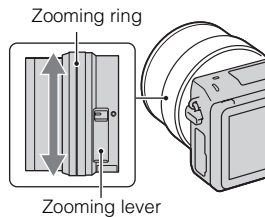
Scene Recognition icon and guide

- 3 Adjust the zoom scale.

Lens with zooming lever: Slide the zooming lever.

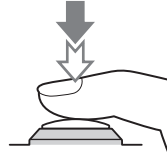
Lens with zooming ring: Rotate the zooming ring.

- Optical zooming is not available with a fixed focus lens.
- When you operate the lens with power zoom, the camera shifts automatically to the [Zoom] feature of the camera when the magnification scale is greater than that of the optical zoom (page 53).



4 Press the shutter button halfway down to focus.

When the focus is confirmed, beeps sound and ● lights up.




Focus indicator


5 Press the shutter button fully down.

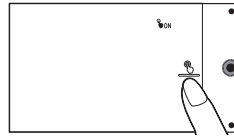
When the camera detects and shoots a face with [Auto Port. Framing] set to [Auto], the captured image is automatically trimmed into a suitable composition. Both the original and the trimmed images are saved.

■ Shooting still images using touch operation (Touch Shutter function)

The camera adjusts the focus and releases the shutter automatically when you simply touch the subject that you want to focus on the screen. You can use the Touch Shutter function when [Touch Shutter] is set to [On] in the MENU.


1 Touch  on the screen.

- The icon changes to , and the touch shutter shooting becomes available.



2 Point the camera to the subject, then touch the subject on the screen that you want to focus.

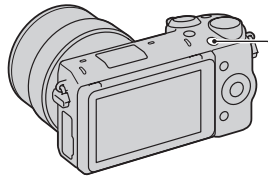
- The Auto Focus area is displayed on the screen where you touched it. When the focus is confirmed, the camera shoots an image automatically.

- 3 When you touch  on the screen, touch shutter shooting is canceled.

Recording movies

- 1 Point the camera to the subject.

- 2 Press the MOVIE button to start recording.
 - Focus and brightness are adjusted automatically.
 - If you press the shutter button halfway down during recording, you will be able to focus more quickly.



MOVIE button

- 3 Press the MOVIE button again to stop recording.

Notes

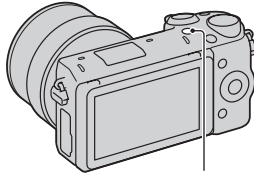
- The sound of the camera and the lens in operation might be recorded while recording a movie. You can disable the sound recording by selecting MENU → [Setup] → [Movie Audio Rec] → [Off] (page 66).
- The continuous recording time of a movie depends on the ambient temperature or the condition of the camera.
- When you are recording continuously for a long time, you may feel that the camera is warm. This is normal. Also, “Internal temp. high. Allow it to cool.” may appear. In such cases, turn the camera off and wait until the camera is ready to shoot again.


Playing back images

- 1 Press the  (Playback) button.

The last recorded image is displayed on the LCD screen.

- Press the center of the control wheel to enlarge the displayed image.



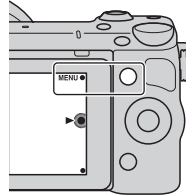
 (Playback) button

■ Selecting the image








Turn the control wheel. Or, slide your finger from left to right across the screen.

■ Playing back movies

- 1 Select MENU → [Playback] → [Still/Movie Select] → [Folder View(MP4)] or [AVCHD View].
 - To return to still image playback, select [Folder View(Still)].





- 2 Turn the control wheel to select the desired movie, and press the center. Or, touch the desired movie.

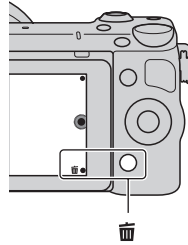
During movie playback	Control wheel operation	Touch panel operation
Pause/resume	Press the center.	Touch   .
Fast-forward	Press the right, or turn the control wheel clockwise.	Touch  .
Fast-rewind	Press the left, or turn the control wheel counterclockwise.	Touch  .
Forward slow playback	Turn clockwise during pause.	Touch  during pause.
Reverse slow playback*	Turn counterclockwise during pause.	Touch  during pause.
Adjust sound volume	Press the bottom  top/bottom.	–


* The movie is played back frame-by-frame.

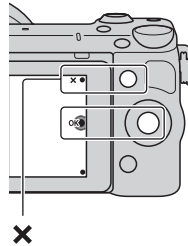
Deleting images

You can delete the image that is currently displayed.

- 1 Press  (Delete). Or, touch  on the screen.



- 2 Press the center of the control wheel. Or, touch OK on the screen.
 - Select  to quit the operation.



Mastering the basic operation





Deleting several images

Select MENU → [Playback] → [Delete] to select and delete several images at the same time.

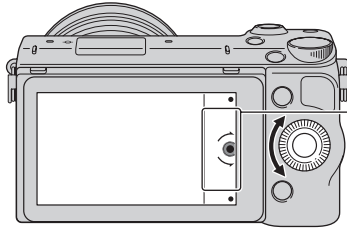
Operating the camera

The control wheel, control dial, soft keys and touch panel allow you to use various functions of the camera.

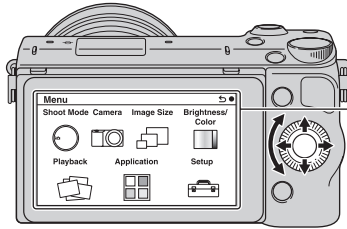
Control wheel

When shooting, DISP (Display Contents),  (Exposure Comp.),  /  (Drive Mode) and ISO (ISO) functions are assigned to the control wheel. When playing back, DISP (Display Contents) and  (Image Index) functions are assigned to the control wheel.

When you turn or press the top/bottom/right/left parts of the control wheel following the on-screen display, you can select setting items. Your selection is determined when you press the center of the control wheel.



The arrow means you can turn the control wheel.

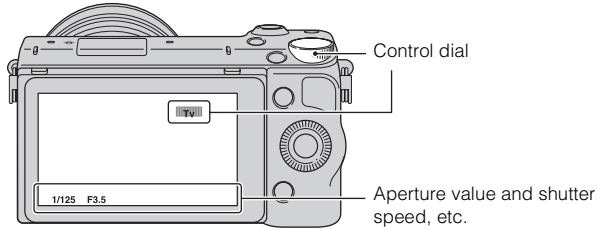


When options are displayed on the screen, you can browse through them by turning or pressing the top/bottom/left/right parts of the control wheel. Press the center to make your choice.

- The application downloading function may not be available in some countries/regions.

Control dial

You can set the aperture value and shutter speed, etc. by turning the control dial. The setting value assigned to the control dial changes for each shooting mode.



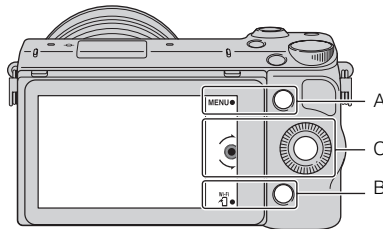
Soft keys


The soft keys have different roles, depending on the context.

The assigned role (function) of each soft key is shown on the screen.

To use the function shown at the upper right corner of the screen, press soft key A. To use the function shown at the lower right corner of the screen, press soft key B. To use the function shown at the center, press the center of the control wheel (soft key C).

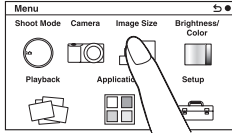
In this manual, the soft keys are indicated by the icon or the function shown on the screen.



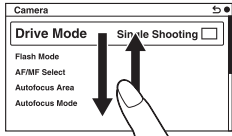
In this case, soft key A works as the MENU (Menu) button, and soft key B as the  (View on Smartphone) button.

■ Touch panel

You can operate the camera intuitively by touching the screen or sliding your finger across the screen. Touch the item on the screen to select it. Slide your finger across the screen to scroll down to hidden items.



Touch the item to select it.


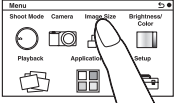
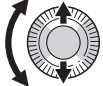
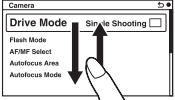
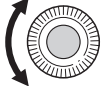





Sliding your finger across the screen scrolls the items. Items on the screen are replaced with items that were out of view.

Mastering the basic operation

■ Operations

You can select items and make settings in two ways: by one is using the control wheel, or by the other is touching and sliding your finger across the screen (Touch panel).

Operation	Control wheel	Touch panel
Selecting an item	Turn or press the top/bottom/left/right parts of the control wheel, and then press the center. 	Touch the desired item. 
Displaying a hidden item	Keep turning or pressing the top/bottom parts of the control wheel until the item scrolls onto the screen. 	Slide your finger up or down across the screen until the item scrolls into view. 
Setting a value or adjusting the defocusing level	Turn the control wheel. 	Slide the indicator with your finger. 
Playing the next or the previous image	Turn the control wheel or press the left/right parts of the control wheel. 	Slide your finger left or right across the playback screen. 

Mastering the basic operation

Notes

- You can perform most operations using both the control wheel/soft keys and the touch panel. However, some operations can be performed only using one or the other.
- Avoid the followings when using the touch panel:
 - Using a pointed object, such as a pencil, ball-point pen, or the tip of a finger nail.
 - Operating the touch panel while the hand holding the camera is also touching the screen elsewhere.

Using the guide function of the camera

The camera provides various “Help Guides” which explain the functions, and “Shooting tips” which introduce tips for better shooting. Use these guides to make better use of the camera.

■ Help Guides

The camera displays the Help Guides to explain the selected function, when you change the setting, etc.

You can hide the Help Guides by selecting MENU → [Setup] → [Help Guide Display] → [Off].



■ Shooting tips

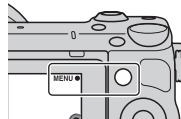
You can display shooting tips for better shooting from [Table of contents] by selecting MENU → [Camera] → [Shooting Tip List].


You can also assign [Shoot. Tips] to the soft key B.

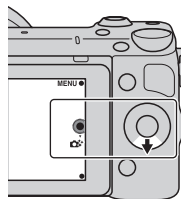
Setting the function using [Photo Creativity]

You can operate the camera intuitively using [Photo Creativity], since the [Photo Creativity] screen is designed for more intuitive operations than a normal screen. You can shoot a subject with easy operations and obtain creative photos easily.

- 1 Select MENU → [Shoot Mode] →  (Intelligent Auto) or  (Superior Auto).








- 2 Press the bottom of the control wheel. Or, touch  (Photo Creativity) on the screen.
The [Photo Creativity] screen appears.



Using the recording functions

- 3 Select the item you want to adjust by touching the screen or by pressing the right/left of the control wheel.


-  **(Bkground Defocus)**: Adjusts the blurring of the background.
-  **(Brightness)**: Adjusts the brightness.
-  **(Color)**: Adjusts the color.
-  **(Vividness)**: Adjusts the vividness.
-  **(Picture Effect)**: Selects the desired effect filter for shooting.

- 4 Select the desired setting by turning the control wheel. Or, select the desired setting by touching the indicator or the item on the screen.
 - Repeat Steps 3 – 4 to combine the various functions.


Notes


- [Photo Creativity] is only available when an E-mount lens is mounted.
- [Photo Creativity] is only available when [Intelligent Auto] or [Superior Auto] is selected.

Defocusing the background easily (Background Defocus Control)

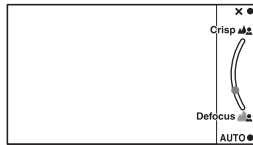
1 Select  (Bkground Defocus) (page 41).

2 Defocus the background by turning the control wheel. Or, slide your finger along the indicator on the screen.

: You can focus on both the subject and the background.

: You can defocus the background.

- Select AUTO to restore the original status.
- You can record a movie with a value adjusted with the defocusing effect.



Notes














- The defocusing effect may not be noticeable, depending on the distance from the subject or the lens used.



Tips for a better result of Background Defocus

- Move closer to the subject.
- Lengthen the distance between the subject and the background.


Picture Effect

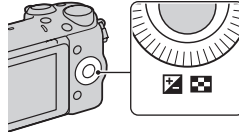
- 1 Select  (Picture Effect) (page 41).
- 2 Select the desired effect by turning the control wheel. Or, slide your finger across the screen upward or downward to select the desired effect.
 -  **(Off)**: Disables the Picture Effect function.
 -  **(Toy Camera)**: Creates the look of a Toy Camera photo with shaded corners and pronounced colors.
 -  **(Pop Color)**: Creates a vivid look by emphasizing color tones.
 -  **(Posterization: Color)**: Creates a high contrast, abstract look by heavily emphasizing primary colors.
 -  **(Posterization: B/W)**: Creates a high contrast, abstract look in black and white.
 -  **(Retro Photo)**: Creates the look of an aged photo with sepia color tones and faded contrast.
 -  **(Soft High-key)**: Creates an image with the indicated atmosphere: bright, transparent, ethereal, tender, soft.
 -     **(Partial Color)**: Creates an image which retains the specified color, but converts others to black and white.
 -  **(High Contrast Mono.)**: Creates an image with high contrast in black and white.
 - You can use more picture effects. Select MENU → [Brightness/ Color] → [Picture Effect].

Using the recording functions

Adjusting the brightness of still images (Exposure compensation)



You can adjust the exposure in 1/3 EV steps in a range of -3.0 EV to +3.0 EV.

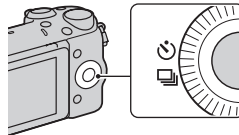
- 1 Press  (Exposure Comp.) on the control wheel.





- 2 Turn the control wheel or control dial to select the desired value, and press the center.
Or, select the desired value by sliding your finger along the indicator on the screen.
 - When the image is too bright, set [Exposure Comp.] toward -.
 - When the image is too dark, set [Exposure Comp.] toward +.

Using the self-timer

- 1 Press  /  (Drive Mode) on the control wheel.



- 2 Turn the control wheel to select  (Self-timer).
Or, slide your finger across the screen upward or downward to move  (Self-timer) to the center of the screen.

3 Press **OPTION**, and then turn the control wheel to select the desired mode and press the center.

Or, touch **OPTION** → desired mode on the screen.

☺₁₀ (Self-timer: 10 Sec): Sets the 10-second delay self-timer. Use this when you want to include yourself in the picture.

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

☺₂ (Self-timer: 2 Sec): Sets the 2-second delay self-timer. You can prevent blur caused by camera-shake that occurs when the shutter button is pressed.

- To cancel the timer, press **☺** / **☑** (Drive Mode) again.
- When using the touch shutter, a beep sounds if the subject that you touch on the screen is in focus, then the countdown begins.

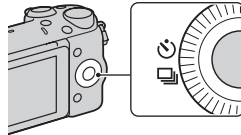
Shooting continuously using the self-timer

Select **☺** (Self-timer(Cont)) from **☺** / **☑** (Drive Mode). The camera starts continuous recording after 10 seconds.

Shooting still images continuously

The camera records images continuously while you are pressing and holding down the shutter button or while you are touching the screen.

1 Press **☺** / **☑** (Drive Mode) on the control wheel.






2 Turn the control wheel to select **☑** (Cont. Shooting), and press the center.

Or, slide your finger across the screen upward or downward to move **☑** (Cont. Shooting) to the center of the screen, then touch **☑** (Cont. Shooting).

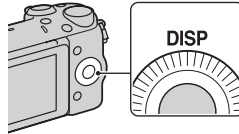


Shooting continuously at a higher speed

Select  (Spd Priority Cont.) from  /  (Drive Mode) to shoot continuously at higher speed (max. 10 images per second).

Changing the screen display (DISP)

- 1 Press DISP (Display Contents) on the control wheel.



- 2 Press DISP repeatedly to select the desired mode.

During shooting

Graphic Display: Shows basic shooting information. Graphically shows the shutter speed and aperture value, except for when [Shoot Mode] is set to [Sweep Panorama].

Display All Info.: Shows recording information.

Big Font Size Disp.: Shows only major items in a larger size.

No Disp. Info.: Does not show recording information.

Level: Displays an indicator guide showing the angle of inclination of the camera to the front, back, left or right side.

Histogram: Displays the luminance distribution graphically.

For viewfinder: Shows only shooting information on the screen (no image). Select this mode when you shoot using a viewfinder (sold separately).

During playback

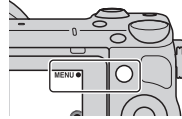
Display Info.: Shows recording information.

Histogram: Displays the luminance distribution graphically, in addition to recording information.

No Disp. Info.: Does not show recording information.

Shooting with various shooting modes

- 1 Select MENU → [Shoot Mode].



- 2 Turn the control wheel to select the desired mode, and press the center.

Or, slide your finger across the screen upward or downward to move the desired mode to the center of the screen, then touch the desired mode.

i (Intelligent Auto): The camera evaluates the subject and makes the proper settings.

SCN (Scene Selection): Shoots with preset settings according to the subject or condition.

Sweep Panorama: Shoots with panoramic size.

M (Manual Exposure): Adjusts the aperture and shutter speed.

S (Shutter Priority): Adjusts the shutter speed to express the movement of the subject.

A (Aperture Priority): Adjusts the range in focus, or defocuses the background.

P (Program Auto): Automatic shooting that allows you to customize settings, except for the exposure (shutter speed and aperture).

i+ (Superior Auto): Shoots images with a wider range of shooting functions than those of Intelligent Auto shooting. Recognizes and evaluates the shooting conditions automatically, performs Auto HDR, and chooses the best image.


Using the recording functions


■ Scene Selection


1 Select **SCN** (Scene Selection) (page 47).


2 Turn the control wheel to select the desired mode, and press the center.
Or, slide your finger across the screen upward or downward to move the desired mode to the center of the screen, then touch the desired mode.


- You can select another Scene Selection mode by turning the control dial.


 **(Portrait)**: Blurs away backgrounds and sharpens the subject. Accentuate skin tones softly.


 **(Landscape)**: Shoots the entire range of scenery in sharp focus with vivid colors.


 **(Macro)**: Shoots close-ups of the subjects such as flowers, insects, food, or small items.


 **(Sports Action)**: Shoots a moving subject at a fast shutter speed so that the subject looks as if it is standing still. The camera shoots images continuously while the shutter button is pressed. When using the touch shutter, the camera shoots images continuously while you are touching the screen.

 **(Sunset)**: Shoots the red of the sunset beautifully.

 **(Night Portrait)**: Shoots portraits in night scenes. Raise the flash to use this mode.

 **(Night Scene)***: Shoots night scenes without losing the dark atmosphere.



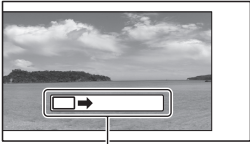
 **(Hand-held Twilight)**: Shoots night scenes with less noise and blur without using a tripod. A burst of shots are taken, and image processing is applied to reduce subject blur, camera-shake, and noise.

 **(Anti Motion Blur)**: Allows you to shoot indoor shots without using the flash and reduces subject blur. The camera shoots burst images and combines them to create the image, reducing subject blur and noise.

* You cannot record images when using touch shutter.

■ Sweep Panorama

While you pan the camera, the camera shoots several images and composes them into one panoramic image.

- 1 Set the shooting mode to  (Sweep Panorama) (page 47).
- 2 Select the shooting direction by turning the control dial.
- 3 Point the camera at the subject for which you want to set the brightness and focus, and then press the shutter button halfway down.

This part will not be taken.
- 4 Keep the shutter button pressed halfway down and point the camera at the edge of the subject, and then press the shutter button fully down.
- 5 Pan the camera to the end, following the guidance on the LCD screen.

Guidance bar


Using the recording functions

Notes

- The camera shoots continuously during [Sweep Panorama] recording, and the shutter continues to click until shooting is finished.
- You cannot record images when using touch shutter.



Playing back scrolling panoramic images

You can scroll panoramic images from the beginning to the end by pressing the center of the control wheel while panoramic images are being displayed. Press the center of the control wheel again to pause. You can scroll/pause by touching  on the screen.





This indicator shows the displayed area of the whole panoramic image.

- Panoramic images shot with other cameras may not be displayed or scrolled correctly.

Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.

- 1 Select **S** (Shutter Priority) (page 47).
- 2 Turn the control dial to select the desired value.
Or, touch / on the screen to select the desired value.