SONY Help Guide



Digital Still Camera

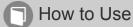
DSC-WX220

Cyber-shot



Use this manual if you encounter any problems, or have any questions about your product.

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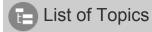


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If you have problems

• Troubleshooting

Troubleshooting

Battery pack and power

- You cannot insert the battery pack into the product.
- You cannot turn on the product.
- The power turns off suddenly.
- The remaining battery level indicator shows an incorrect level.
- The charge lamp on the product flashes when charging the battery pack.
- The battery pack has not been charged even if the charge lamp on the product has turned off.
- The battery pack is not charged.

Shooting still images/movies

• You cannot record images.

- Recording takes a long time.
- The image is out of focus.
- Zoom does not work.
- The flash does not work.
- Fuzzy white circular spots appear on images shot using the flash.
- The close-up shoot function (Macro) does not work.
- The recording date and time are not displayed on the screen.
- The date and time are recorded incorrectly.
- The image colors are not correct.
- Noise appears in the image when you view the screen in a dark place.
- Dark shadow appears on the image.
- The eyes of the subject come out red.
- Dots appear and remain on the screen.
- You cannot shoot images continuously.
- The image is blurred.
- The flash takes too long to recharge.

Viewing images

- Images cannot be played back.
- The date and time are not displayed.
- The image cannot be deleted.
- The image was deleted by mistake.

Wi-Fi

- You cannot find the wireless access point to be connected.
- [WPS Push] does not work.
- [Send to Computer] is canceled halfway.
- You cannot send movies to a smartphone.
- [Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.

- The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.
- You cannot use One-Touch connection (NFC).

Computers

- The computer does not recognize this product.
- You cannot import images.
- The image and sound are interrupted by noise when viewing a movie on a computer.
- Images exported from a computer cannot be viewed on this product.

Memory cards

• Formatted the memory card by mistake.

Printing

- Images are printed with both edges cut off.
- You cannot print images with the date.

Others

- The lens gets fogged.
- The product stops with the lens portion extended./The product turns off with the lens portion extended.
- The product becomes warm when you use it for a long time.
- The Clock Set screen appears when you turn on the product.
- The number of recordable images does not decrease, or decreases two images at a time.
- The product does not work properly.

Messages

Messages

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Situations this product has difficulty handling

Situations this product has difficulty handling

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Using the strap

Using the wrist strap

Attach the wrist strap and place your hand through the loop to prevent damage caused by dropping the product.

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In-Camera guide

About the [In-Camera Guide]

The [In-Camera Guide] displays descriptions of MENU items and settings, and if a function cannot be set, the reason why.

About the shooting advice

Displays the shooting advice according to the selected shooting mode.

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Confirming the operation method

Using the control wheel

Using MENU items

In this section, you learn how to change settings related to all camera operations and execute camera functions including shooting, playback, and operation methods.

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Shooting still images/movies

Shooting still images

Shoots still images.

Shooting movies

You can record movies by pressing the MOVIE button.

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Selecting a shooting mode

List of shooting modes

You can select a desired shooting mode.

Intelligent Auto

The product analyzes the subject, and allows you to shoot with appropriate settings.

Superior Auto

The product automatically recognizes and evaluates the shooting conditions, and the appropriate settings are set automatically.

About Scene Recognition

Scene Recognition operates in [Intelligent Auto] mode and [Superior Auto] mode.

The advantages of automatic shooting

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

iSweep Panorama

Allows you to create a single panoramic image from multiple images shot while panning the camera.

Scene Selection

Allows you to shoot with preset settings according to the scene.

Movie

You can change the shooting mode for recording movies.

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Using the zoom

Zoom

Enlarge images using the W/T (zoom) lever when shooting.

The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features.

Zoom Setting

You can select the zoom setting of the product.

About zoom scale

The zoom scale changes according to the settings of this product.

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Flash Mode

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Selecting a screen display mode

Switching the screen display (Shooting)

You can change the display contents on the screen.

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Selecting still image size/image quality

Image Size (still image)

The larger the image size, the more detail will be reproduced when the image is printed on largeformat paper. The smaller the image size, the more images can be recorded.

Aspect Ratio (still image)

Sets the aspect ratio of still images.

Quality (still image)

Selects the compression format of still images.

Panorama: Size

Sets the image size when shooting panoramic images.

Panorama: Direction

Sets the direction to pan the camera when shooting panoramic images.



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Adjusting the focus

Focus Area

Selects the focusing area. Use this function when it is difficult to get the proper focus in auto focus mode.

Focus-lock

Shoots images with the focus locked on the desired subject in auto focus mode.

Lock-on AF

Set up the tracking function to continue focusing on the subject.

Lock-on AF (On)

Maintains the focus on a moving subject automatically.

AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The red AF illuminator allows the product to focus easily when the shutter button is pressed halfway, until the focus is locked.



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Adjusting the exposure

Exposure Comp.

Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation).

Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

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Selecting a drive mode (Continuous shooting/Self-timer)

Drive Mode

You can set the drive mode, such as continuous or self-timer shooting.

Cont. Shooting

Shoots 10 images while you press the shutter button.

Self-timer

The product shoots an image using the self-timer with a 10-second or 2-second delay.

Self-portrait

Point the lens at yourself and shoot self-portrait images.

Self-timer(Cont)

Continuously shoots three images after 10 seconds. You can choose the best shot from the three shots taken.



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Selecting the ISO sensitivity

ISO

Sensitivity to light is expressed by the ISO number (recommended exposure index).

Multi Frame NR

The product automatically shoots multiple images continuously, combines them, reduces the noise, and records them as one image.

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Adjusting color tones

White Balance

Adjusts the color tones according to the ambient light conditions.

Capturing a basic white color in [Custom Setup] mode

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness.

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Selecting an effect mode

Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

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Recording movies

File Format (movie)

Selects the movie file format.

Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording.

SteadyShot (movie)

Sets [SteadyShot] effect when shooting movies.

Wind Noise Reduct.

Sets whether or not to reduce wind noise during movie recording.

Auto Slow Shut. (movie)

Sets whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.

MOVIE Button

Sets whether or not to activate the MOVIE button.

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Setting the other functions of this product

Photo Creativity

[Photo Creativity] is a mode that allows you to operate the camera intuitively with a different screen display.

Smile/Face Detect.

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

Soft Skin Effect (still image)

Sets the effect used for shooting the skin smoothly in the [Face Detection] function.

Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

Auto Obj. Framing (still image)

When this product detects and shoots faces, macro shooting subjects or subjects that are tracked by

[Lock-on AF], the product automatically trims the image into an appropriate composition, and then saves it.

Write Date (still image)

Sets whether to record a shooting date on the still image.

Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

Auto Review

You can check the recorded image on the screen right after the shooting.

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Viewing still images

Playing back images

Plays back the recorded images.

Playback zoom

Enlarges the image being played back.

Image Index

You can display multiple images at the same time in playback mode.

Switching the screen display (during playback)

Switches the screen display.

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Deleting images

Deleting a displayed image

You can delete an image displayed.

Deleting multiple selected images

You can delete multiple selected images.

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Playing back movies

Playing back movies

Plays back the recorded movies.

Motion Shot Video

You can see the tracking of the subject's motion in high-speed, like a stroboscopic image.

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Viewing panoramic images

Playing back panoramic images

The product automatically scrolls a panoramic image from end to end.

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Printing

Specify Printing

You can specify in advance on the memory card which still images you want to print out later.

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Using viewing functions

View Mode

Sets the View Mode (image display method).

Slide Show

Automatically plays back images continuously.

Rotate

Rotates a recorded still image counter-clockwise.

Protect

Protects recorded images against accidental erasure.

4K Still Image PB

Outputs still images in 4K resolution to an HDMI-connected TV that supports 4K.

Beauty Effect

Allows you to apply the Beauty Effect to retouch the still image of a person and make it look better, for example, by retouching it for smoother skin, larger eyes, and whiter teeth.

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Viewing images on a TV

Viewing images on an HD TV

To view images stored on this product using a TV, an HDMI cable (sold separately) and an HD TV equipped with an HDMI jack are required.

Viewing images on a "BRAVIA" Sync-compatible TV

By connecting this product to a TV that supports "BRAVIA" Sync using an HDMI cable (sold separately), you can operate this product with the TV Remote Control.

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Setup menu

Monitor Brightness

You can adjust the brightness of the screen.

Volume Settings

Adjusts the sound volume.

Audio signals

Selects whether the product produces a sound or not.

Upload Settings(Eye-Fi)

Sets whether to use the upload function when using an Eye-Fi card (commercially available).

Tile Menu

Selects whether to always display the first screen of the menu when you press the MENU button.

You can change the display quality.

Pwr Save Start Time

You can set the time by which the power goes off automatically.

PAL/NTSC Selector

Plays back movies recorded with the product on a PAL/NTSC system TV.

Demo Mode

The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time.

HDMI Resolution

When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

CTRL FOR HDMI

When connecting this product to a "BRAVIA" Sync-compatible TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

USB Connection

Selects the appropriate USB connection method for each computer or USB device connected to this product.

USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

USB Power Supply

Sets whether to supply power via the micro USB cable when the product is connected to a computer

or an USB device.

Language

Selects the language to be used in the menu items, warnings and messages.

Date/Time Setup

Sets the date and time again.

Area Setting

Sets the area where you are using the product.

Format

Formats (initializes) the memory card.

File Number

Selects how to assign file numbers to recorded images.

Select REC Folder

You can change the recording folder to which images are recorded.

New Folder

Creates a new folder in the memory card.

Folder Name

Still images you shoot are recorded in a folder that is automatically created under the DCIM folder on the memory card. You can change the way folder names are assigned.

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

Display Media Info.

Displays the recordable time of movies and the number of recordable still images for the inserted memory card.

Version

Displays the version of this product's software.

Setting Reset

Resets the product to the default settings.

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Connecting this product and a Smartphone

PlayMemories Mobile

To use [Ctrl w/ Smartphone] or [Send to Smartphone], etc., the application PlayMemories Mobile should be installed on your smartphone.

Connecting an Android smartphone to this product

Connecting the product to an iPhone or iPad

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Controlling this product using a Smartphone

Ctrl w/ Smartphone

You can use a smartphone as the remote controller for this product, and shoot still images/movies.

One-touch connection with an NFC-enabled Android smartphone (NFC One-touch remote)

You can connect this product and an NFC-enabled Android smartphone with one touch, without performing a complex setup operation.

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Transferring images to a Smartphone

Send to Smartphone

You can transfer still images/movies to a smartphone and view them.

Sending images to an Android smartphone (NFC One-touch Sharing)

With just one touch, you can connect this product and an NFC-enabled Android smartphone, and send an image displayed on the product screen directly to the smartphone.

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Transferring images to a computer

Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation.

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Transferring images to a TV

View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable.

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Changing the settings of Wi-Fi functions

Airplane Mode

When you board an airplane, etc., you can turn off all Wi-Fi functions temporarily.

WPS Push

If your access point has the WPS button, you can register the access point to this product easily by pushing the WPS button.

Access Point Set.

You can register your access point manually.

Edit Device Name

You can change the device name under Wi-Fi Direct.

Disp MAC Address

Displays the MAC address of this product.

SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [Ctrl w/ Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

Reset Network Set.

Resets all the network settings to default settings.

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Recommended computer environment

Recommended computer environment

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Installing PlayMemories Home	
Software for Mac computers	

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Connecting this product and a computer

Connecting the product to a computer

Importing images to the computer

PlayMemories Home allows you to easily import images.

Disconnecting the product from the computer

Disconnects the USB connection between this product and the computer.

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Creating a movie disc	

Disc type

Selecting the disc creation method

You can create a disc from an AVCHD format movie recorded using this product.

Creating a disc with a device other than a computer

You can also create discs using a Blu-ray recorder, etc.

Creating Blu-ray Discs

You can create Blu-ray Discs from AVCHD movies imported to a computer.

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Precautions	

Precautions

On the internal rechargeable battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or whether the battery pack is charged or discharged.

Notes on the battery pack

Charging the battery pack

Memory card

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Cleaning this product	

On cleaning

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Number of recordable still images and recordable time of movies

Number of still images

Recordable time of movies

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Using this product abroad

Plug adaptor

You can use the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

On TV color systems

To view movies shot using this product on a television, the product and television must use the same color television system.

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If you have problems

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Battery pack and power

You cannot insert the battery pack into the product.

You cannot turn on the product.

The power turns off suddenly.

The remaining battery level indicator shows an incorrect level.

The charge lamp on the product flashes when charging the battery pack.

The battery pack has not been charged even if the charge lamp on the product has turned off.

The battery pack is not charged.



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Shooting still images/movies

You cannot record images.

Recording takes a long time.

The image is out of focus.

Zoom does not work.

The flash does not work.

Fuzzy white circular spots appear on images shot using the flash.

The close-up shoot function (Macro) does not work.

The recording date and time are not displayed on the screen.

The date and time are recorded incorrectly.

The image colors are not correct.

Noise appears in the image when you view the screen in a dark place.

Dark shadow appears on the image.

The eyes of the subject come out red.

Dots appear and remain on the screen.

You cannot shoot images continuously.

The image is blurred.

The flash takes too long to recharge.

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Viewing images

Images cannot be played back.

The date and time are not displayed.

The image cannot be deleted.

The image was deleted by mistake.

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Wi-Fi

You cannot find the wireless access point to be connected.

[WPS Push] does not work.

[Send to Computer] is canceled halfway.

You cannot send movies to a smartphone.

[Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.

The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.

You cannot use One-Touch connection (NFC).



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Computers

The computer does not recognize this product.

You cannot import images.

The image and sound are interrupted by noise when viewing a movie on a computer.

Images exported from a computer cannot be viewed on this product.

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Memory cards

Formatted the memory card by mistake.

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Printing

Images are printed with both edges cut off.

You cannot print images with the date.

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Others

The lens gets fogged.

The product stops with the lens portion extended./The product turns off with the lens portion extended.

The product becomes warm when you use it for a long time.

The Clock Set screen appears when you turn on the product.

The number of recordable images does not decrease, or decreases two images at a time.

The product does not work properly.

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Messages

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on this product is working.

Warning messages

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Situations this product has difficulty handling

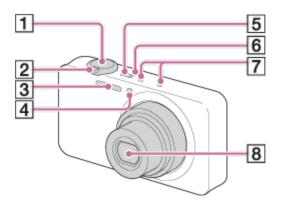
Situations this product has difficulty handling

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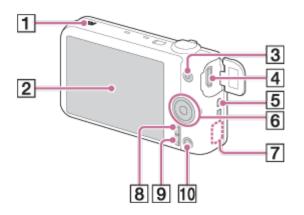
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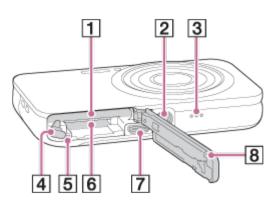
Identifying parts



- 1. Shutter button
- 3. Flash
- 4. Self-timer lamp/AF illuminator
- 5. ON/OFF (Power) button
- 6. Charge lamp
- 7. Microphone
- 8. Lens



- 1. N (N mark)
 - This mark indicates the touch point for connecting this product and an NFCenabled smartphone.
 - NFC (Near Field Communication) is an international standard of the short-range wireless communication technology.
- 2. LCD screen
- 3. MOVIE (Movie) button
- 4. Multi/Micro USB Terminal*
 - Supports Micro USB compatible device.
- 5. Hook for wrist strap
- 6. Control wheel
- 7. Wi-Fi sensor (built-in)
- 8. MENU button
- 9. ?/ 💼 (In-Camera Guide/Delete) button
- 10. (Playback) button



- 1. Battery insertion slot
- 2. Tripod socket hole

Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure this product, and damage to the product may occur.

- 3. Speaker
- 4. Battery eject lever
- 5. Access lamp
- 6. Memory card slot
- 7. HDMI micro jack
- 8. Battery/Memory card cover

^{*}For details on Multi/Micro USB Terminal, visit the Sony web site, or consult your Sony dealer or local authorized Sony service facility.

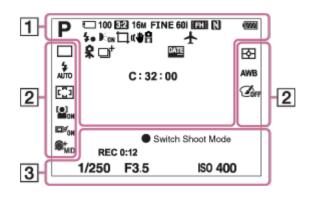
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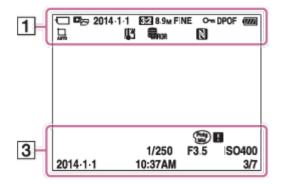
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List of icons on the screen

List of shooting mode icons



List of viewing mode icons



Shooting mode

Memory card/Uploading status

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Scene Recognition icon

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Scene Selection

100

Remaining number

3:2 4:3 16:9 1:1

Aspect ratio of still images

18M / 16M / 13M /10M / 8.9M / 7.5M / 5.0M / 4.5M / 3.7M / 2.1M / VGA

WIDE STD 360

Image size of still images

FINE STD

Image quality of still images

60p 50p 60i **50i**

Frame rate of movies

FX FH PS 1080 VGA

Recording settings of movies

N

NFC is activated

Remaining battery

Remaining battery warning

5 Flash charge in progress

€_{ON} AF Illuminator

«₩₽ SteadyShot

! Camera-shake warning

★ Airplane Mode

D⁺ Overlay icon

Wind Noise Reduction

Write Date

Second Se

Uverheating warning

s€ Smart zoom

cQ Clear Image Zoom

DQ Digital Zoom

C:32:00 Self-diagnosis display

View Mode

100-0003

Folder – file number

AVCHD MP4

Recording format of movies

Оп

Protect

DPOF

DPOF set

교 Auto Object Framing

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Drive Mode

AUTO 4 5 SLOW 4 Adv.

Flash mode/Red-eye reduction



Focus area

Smile/Face Detect.

D[€]ON D[€]OFF Lock-on AF

Soft Skin Effect

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Metering mode

AWB 💥 🛃 🔅 鴬0 鴬+1 鴬+2 🦞 🌄

White balance

Toy Pop (Pos (Pos (Rtro) (Rtro) (Part) (Part) (Part) (Part) (Part) (Rtro) (Rtro Picture Effect

Smile detection sensitivity indicator

3. Switch Shoot Mode

Guide display for switching the shooting mode

REC 0:12

Recording time of the movie (m:s)

Focus

1/250 Shutter speed

F3.5

Aperture value

±0.0 Exposure compensation

ISO400

ISO sensitivity



Histogram

Picture Effect error

2014-1-1 10:37AM

Date of recording

3/7

File number/Number of images in the view mode

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Attach the wrist strap and place your hand through the loop to prevent damage caused by dropping the product.

Using the wrist strap

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About the [In-Camera Guide]

The [In-Camera Guide] displays descriptions of MENU items and settings, and if a function cannot be set, the reason why.

- 1. Press the MENU button.
- 2. Select the desired MENU item using up/down/left/right side on the control wheel.
- Press the ? (In-Camera Guide) button.
 The operation guide for the MENU item you have selected in step 2 is displayed.
 - If you press the
 on the center of the control wheel after selecting an item shown in gray, the reason the item cannot be set is displayed.

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About the shooting advice

Displays the shooting advice according to the selected shooting mode.

- 1. Press the ? (In-Camera Guide) button while the shooting screen is displayed.
- 2. Press the top/bottom side of the control wheel to select the desired shooting advice, then press
 on the center.
 The shooting advice is displayed.
 - You can scroll the screen by pressing the up/down side of the control wheel.

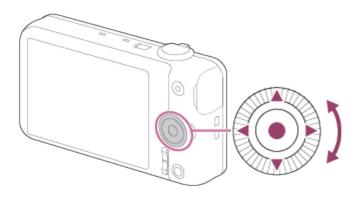
Hint

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Using the control wheel



You can select setting items by turning or pressing the top/bottom/right/left side of the control wheel. Your selection is determined when you press
on the center of the control wheel.

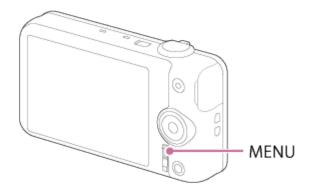
The DISP (Display Setting), A (Photo Creativity), (Drive Mode), (Flash Mode) functions are assigned to the top/bottom/left/right side of the control wheel. In addition, [Shoot Mode] is assigned to the () in the center.

During playback, you can display the next/previous image by pressing the right/left side of the control wheel or by turning the control wheel.

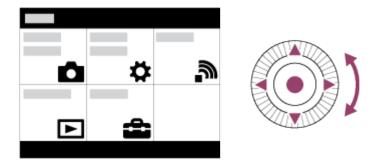
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Using MENU items	

In this section, you learn how to change settings related to all camera operations and execute camera functions including shooting, playback, and operation methods.

1. Press MENU button to display the Menu screen.



- 2. Select the desired MENU item using the up/down/left/right side of the control wheel or by turning the control wheel, and then press
 in the center of the control wheel.
 - The display may move directly from step 1 to step 3 depending on the [Tile Menu] setting.



- Select the desired setting item by pressing the up/down/left/right side on the control wheel or by turning the control wheel, and then press

 on the center of the control wheel.
 - Select an icon at the top of the screen and press the left/right side of the control wheel to move to another MENU item.

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4. Select the desired setting value, and press
to confirm.

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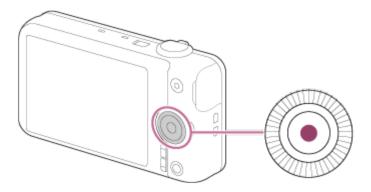
Related Topic			
Tile Menu			

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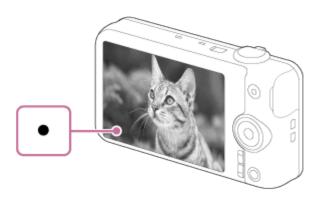
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Shooting still images	

Shoots still images.

1. Set the shooting mode to **intelligent** Auto).



- 2. Hold the camera steady, with your arms against your body, and compose your shot.
- 3. Press the shutter button halfway down to focus.When the image is in focus, a beep sounds and the indicator () lights.



- The shortest shooting distance is approximately 5 cm (0.16 ft) (W), 150 cm (4.92 ft) (T) (from the lens).
- 4. Press the shutter button fully down.

Focus indicator

lights:
 Image is in the focus.

flashes:

The focusing has failed.

Hint

- When the product cannot focus automatically, the focus indicator flashes and the beep does not sound. Either recompose the shot or change the focus setting.
- Focusing may be difficult in the following situations:
 - It is dark and the subject is distant.
 - The contrast between the subject and the background is poor.
 - The subject is seen through glass.
 - The subject is moving quickly.
 - There is reflective light or shiny surfaces.
 - There is a flashing light.
 - The subject is backlit.

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- Zoom
- Playing back images
- Intelligent Auto

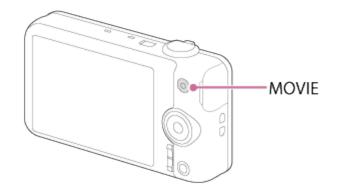
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Shooting movies	

You can record movies by pressing the MOVIE button.

1. Press the MOVIE button to start recording.



2. Press the MOVIE button again to stop recording.

Note

- If you use a function such as zoom while shooting a movie, the noise of the product operating will be recorded. The sound of the MOVIE button operating may also be recorded when you press the MOVIE button to stop recording.
- For the continuous shooting time of a movie recording, refer to "Recordable time of movies." When movie recording is finished, you can restart recording by pressing the

MOVIE button again. Recording may stop to protect the product depending on the ambient temperature.

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Related Topic
• Zoom
• Movie
File Format (movie)
Recordable time of movies

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List of shooting modes

You can select a desired shooting mode.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Shoot Mode] \rightarrow desired setting.

Available functions

in (Intelligent Auto):

Allows you to shoot still images with the settings adjusted automatically.

i + (Superior Auto):

Allows you to shoot still images in higher quality than with Intelligent Auto mode.

P (Program Auto):

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value (F value)). Also you can select various settings from the menu.

田 (Movie):

Allows you to change the settings for movie recording.

i 🗖 (iSweep Panorama):

Allows you to shoot a panoramic image by compositing the images.

SCN (Scene Selection):

Allows you to shoot with preset settings according to the subject and scene.

Related Topic

- Intelligent Auto
- Superior Auto
- Program Auto
- Movie
- iSweep Panorama
- Scene Selection

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Intelligent Auto	

The product analyzes the subject, and allows you to shoot with appropriate settings.

- 1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Shoot Mode] \rightarrow [Intelligent Auto].
- Point the camera to the subject.
 When the camera recognized the scene, the icon for the recognized scene appears on the screen.



3. Adjust the focus and shoot the image.

Note

• The product will not recognize the scene when you shoot images with zoom functions other than optical zoom.

• The product may not properly recognize these scenes under some shooting conditions.

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Related Topic

About Scene Recognition

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Superior Auto

The product automatically recognizes and evaluates the shooting conditions, and the appropriate settings are set automatically.

The product may shoot multiple images and create a composite image, etc., using more shooting settings than in Intelligent Auto mode to record higher quality images.

- 1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Shoot Mode] \rightarrow [Superior Auto].
- 2. Point the camera to the subject.

When the camera recognizes a scene, the scene recognition icon appears on the screen. If necessary, \Box (overlay icon) may appear.

Backlight	

3. Adjust the focus and shoot the image.

- When the product is used to create composite images, the recording process takes longer than usual.
- The product will not recognize the scene when you use zoom functions other than optical zoom.
- The product may not properly recognize a scene under some shooting conditions.

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About Scene Recognition

Scene Recognition operates in [Intelligent Auto] mode and [Superior Auto] mode. This function allows the product to automatically recognize the shooting conditions and shoot the image.

Scene Recognition:

If the product recognizes a scene, icons and guides such as 2 (Portrait), (Infant), (Night Portrait), (Night Scene), (Backlight Portrait), (Backlight), (Backlight), (Landscape), (Macro), (Spotlight), or (Low Light) are displayed on the first line. If the product recognizes a condition, icons such as (Tripod), (Move), (Move), (Move) (Bright)) or 2 (Move (Dark)) are displayed on the second line.

• When [Smile/Face Detect.] is set to [Off], the [Portrait], [Backlight Portrait], [Night Portrait], and [Infant] scenes are not recognized.

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- Intelligent Auto
- Superior Auto

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The advantages of automatic shooting

In [Superior Auto] mode, the product shoots with higher quality than [Intelligent Auto] mode and performs composite shooting as necessary.

In [Program Auto] mode, you can shoot after adjusting various functions, such as white balance, ISO, etc.

in (Intelligent Auto):

Select this mode when you want the camera automatically recognize the scene.

i + (Superior Auto):

Select this mode to shoot scenes under difficult circumstances, such as when it is dark or the subjects are back-lit. Select this mode to shoot a higher quality image than that provided by **inc** (Intelligent Auto).

P (Program Auto):

Select this mode to shoot with various functions other than the exposure (shutter speed and aperture) adjusted.

Note

- In [Intelligent Auto] mode, you may not be able to shoot dark scenes or back-lit subjects clearly.
- In [Superior Auto] mode, the recording process takes longer, since the product creates a composite image.

Related Topic

- Intelligent Auto
- Superior Auto
- Program Auto

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Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

You can set shooting functions such as [ISO].

- 1. MENU \rightarrow (Camera Settings) \rightarrow [Shoot Mode] \rightarrow [Program Auto].
- 2. Set the shooting functions to your desired settings.
- 3. Adjust the focus and shoot the subject.

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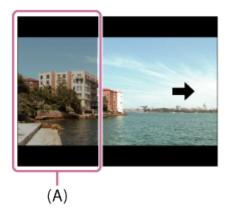
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iSweep Panorama	

Allows you to create a single panoramic image from multiple images shot while panning the camera.

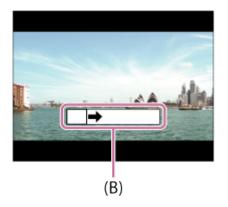


- 1. MENU \rightarrow **(**Camera Settings) \rightarrow [Shoot Mode] \rightarrow [iSweep Panorama].
- 2. Point the camera at the subject for which you want to set the focus and brightness.
- 3. While pressing the shutter button halfway down, aim the camera at one end of the desired panoramic composition.



(A) This part will not be shot.

- 4. Press the shutter button fully down.
- 5. Pan the camera to the end of the guide in the direction of the arrow on the monitor.



(B) Guidance bar

Note

- If the entire angle of the panoramic shot is not achieved within the set time, a gray area occurs in the composite image. If this happens, move the product faster to record the full panoramic image.
- When [Wide] is selected for [Panorama: Size], the entire angle of the panoramic shot may not be achieved within the given time. If this happens, try shooting after changing [Panorama: Size] to [Standard].
- Since several images are stitched together, the stitched part may not be recorded smoothly in some cases.
- The images may be blurred in dark scenes.
- When a light source such as a fluorescent light flickers, the brightness and color of a

stitched image may not be consistent.

- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness and focus, the shooting may not be successful. If this happens, change AE/AF locked angle and shoot again.
- The following situations are not suited for shooting Sweep Panorama:
 - Moving subjects.
 - Subjects that are too close to the product.
 - Subjects with continuously similar patterns, such as the sky, beach, or a lawn.
 - Subjects with constant change such as waves or water falls.
 - Subjects with brightness widely different from its surroundings such as the sun or a light bulb.
- The Sweep Panorama shooting may be interrupted in the following situations.
 - When the camera is panned too fast or too slow.
 - The subject is too blurry.

Hint

• You can turn the control wheel on the shooting screen to select the shooting direction.

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Related Topic

- Panorama: Size
- Panorama: Direction

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Scene Selection	

Allows you to shoot with preset settings according to the scene.

MENU →
 (Camera Settings) → [Shoot Mode]→[Scene Selection] → desired mode.

Menu item details

Portrait:

Blurs background and sharpens the subject. Accentuates the skin tones softly.



Landscape: Shoots the entire range of a scenery in sharp focus with vivid colors.



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.



Night Portrait:

Shoots night scene portraits using the flash.



(()) Anti Motion Blur:

Allows you to shoot indoor shots without using the flash and reduces subject blur. The product shoots burst images and combines them to create the image, reducing subject blur and noise.



Allows you to shoot three images using different exposures to create a single image with a greater range of gradation.



Pet:

Allows you to shoot images of your pet with the best settings.



Gourmet:

Allows you to shoot food arrangements in delicious and bright colors.



T Beach:

Allows you to shoot scenes on the beach in bright and vivid colors even under the sunlight.



Snow:

Allows you to shoot clear images, preventing sunken colors in snowy scenes or other places where the whole screen appears white.



🔅 Fireworks:

Allows you to shoot images of fireworks in all their splendor.



Soft Skin:

Allows you to shoot images of faces with a smoother look.



ISO High Sensitivity:

Allows you to shoot still images even in dark locations without using the flash, and reduces subject blur. Also allows you to shoot dark movie scenes more brightly.



Note

- In the [Night Scene], [Night Portrait] and [Fireworks] modes, the shutter speed is slower, so use of a tripod is recommended to prevent the image from blurring.
- In the [Hand-held Twilight] or [Anti Motion Blur] mode, the shutter clicks 4 times and an image is recorded.
- Reducing blur is less effective even in [Hand-held Twilight] or [Anti Motion Blur] when shooting the following subjects:
 - Subjects with erratic movement.
 - Subjects that are too close to the product.
 - Subjects with continuously similar patterns, such as the sky, a beach, or a lawn.
 - Subjects with constant change such as waves or water falls.
- In the case of [Hand-held Twilight] or [Anti Motion Blur], block noise may occur when using a light source that flickers, such as fluorescent lighting.

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Movie	

You can change the shooting mode for recording movies. You can also check the image angle before shooting.

- 1. MENU \rightarrow (Camera Settings) \rightarrow [Shoot Mode] \rightarrow [Movie].
- 2. Press the MOVIE button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

i Intelligent Auto:

Allows you to shoot with the automatic settings.

🖽 💊 Portrait:

Blurs the background and sharpens the subject. Accentuates the skin tones softly.

Landscape:

Allows you to shoot the entire range of a scenery in sharp focus with vivid colors.

ight Scene: ∫

Allows you to shoot night scenes without losing the dark atmosphere.

Elach:

Allows you to shoot scenes on the beach in bright and vivid colors even under the sunlight.

⊞∎ Snow:

Allows you to shoot clear images, preventing sunken colors in snowy scenes or other places where the whole screen appears white.

Ⅲ_@ Fireworks:

Allows you to shoot images of fireworks in all their splendor.

⊞_{so} High Sensitivity:

Allows you to shoot dark scenes more brightly.

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Related Topic

Shooting movies

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Zoom

Enlarge images using the W/T (zoom) lever when shooting.

- 1. Enlarge images with the W/T (zoom) lever when shooting.
 - Move the W/T (zoom) lever to the T side to zoom in and to the W side to zoom out.

Hint

• When you select other than [Optical zoom only] for [Zoom Setting], you can exceed the zoom range of the optical zoom to zoom images.

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Related Topic
 Setting

The zoom features available with this product

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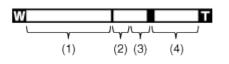
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The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features. The icon displayed on the screen changes, according to the selected zoom feature.



(1) Optical zoom range

Images are magnified within the optical zoom range of this product.

(2) Smart Zoom range (${}_{\mathbf{S}} \Theta$)

Zoom images without causing the original quality to deteriorate by partially cropping an image (only when the image size is [M], [S] or [VGA]).

(3) Clear Image Zoom range (cQ)

Zoom images using an image process with less deterioration. Set [Zoom Setting] to [On:ClearImage Zoom] or [On Digital Zoom] first.

(4) Digital Zoom range $(D \oplus Q)$

You can magnify images using an image process. When you select [On Digital Zoom] for [Zoom Setting], you can use this zoom function.

- The default setting for [Image Size] is [L]. To use the smart zoom change [Image Size] to [M], [S] or [VGA].
- Zoom functions other than the optical zoom are not available when shooting in the following situations:
 - [Smile/Face Detect.] is set to [Smile Shutter]
- You cannot use the Smart Zoom function with movies.
- When you use a zoom function other than the optical zoom, the [Focus Area] setting is disabled and the focus area frame is shown by the dotted line. The AF operates with priority on and around the center area. Also, [Metering Mode] is fixed to [Multi].

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• Zoom	
Zoom Setting	
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Zoom Setting

You can select the zoom setting of the product.

1. MENU \rightarrow \clubsuit (Custom Settings) \rightarrow [Zoom Setting] \rightarrow desired setting.

Menu item details

Optical zoom only:

Optical zoom is activated. You can use the Smart Zoom function if you set [A line of the set of th

On:ClearImage Zoom (default setting):

Even if the zoom range of the optical zoom is exceeded, the product magnifies images within the range in which image quality does not deteriorate significantly.

On Digital Zoom:

When the zoom range of the [Clear Image Zoom] is exceeded, the product magnifies images to the largest scale. However, the image quality will deteriorate.

Note

• Set [Optical zoom only] if you want to magnify images within the range in which image quality does not deteriorate.

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Related Topic

- The zoom features available with this product
- About zoom scale

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About zoom scale

The zoom scale changes according to the settings of this product. The zoom scale for each setting is as follows.

When [Aspect Ratio] is [4:3]

[Zoom Setting]: [Optical zoom only (including smart zoom)]

[[] Image Size]: L 10×, M 13×, S 18×, VGA 76×

[Zoom Setting]: [On:ClearImage Zoom]

[[] Image Size]: L 20×, M 26×, S 37×, VGA 153×

[Zoom Setting]: [On Digital Zoom]

[7 Image Size]: L 40×, M 53×, S 75×, VGA 153×

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Related Topic

• Zoom



Print

- The zoom features available with this product
- Image Size (still image)

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Notes on using the flash	

When using the flash, note the following points.

- You cannot use the flash when recording movies.
- While charging the flash, the \$\$\mu\$ indicator flashes. When the charging of the flash is finished, the indicator lights up.

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Related Topic

Flash Mode

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Flash Mode	

You can set the flash mode.

- 1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Flash Mode] \rightarrow desired setting.
 - You can also set the flash mode by pressing the \$ (Flash Mode) on the control wheel.

Menu item details

(f) Flash Off:

The flash does not operate.

Autoflash (default setting):

The flash works in dark environments or when shooting towards bright light.

Fill-flash:

The flash works every time you trigger the shutter.

Slow Sync.:

The flash works every time you trigger the shutter. Slow sync shooting allows you to shoot a clear image of both the subject and the background by slowing the shutter speed.

Advanced Flash:

The flash automatically operates in dark locations or when there is backlighting. In dark locations, the upper limit value of the ISO sensitivity increases in order to maximize the flash range.

Note

- The default setting depends on the shooting mode.
- Available flash mode depends on the shooting mode.

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Related Topic

Notes on using the flash

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Switching the screen display (Shooting)

You can change the display contents on the screen.

Press the DISP (Display Setting) button.
 Each time you press the DISP button, the recording information display changes as

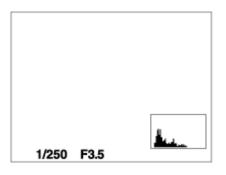
follows: Display All Info. \rightarrow No Disp. Info. \rightarrow Histogram \rightarrow Display All Info. Display All Info.

Ρ	
1/250 F3.5	

No Disp. I	nfo.
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1/250	F3.5

Histogram



Note

• Histogram is not displayed during panorama shooting.

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Image Size (still image)

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [\frown Image Size] \rightarrow desired setting.

Menu item details

Image size when [Aspect Ratio] is 3:2

L: 16M 4896×3264 pixels

M: 8.9M 3648×2432 pixels

S: 4.5M 2592×1728 pixels

Image size when [Aspect Ratio] is 4:3

L: 18M 4896×3672 pixels

M: 10M 3648×2736 pixels

S: 5.0M 2592×1944 pixels

VGA 640×480 pixels

Image size when [Aspect Ratio] is 16:9

L: 13M 4896×2752 pixels

M: 7.5M 3648×2056 pixels

S: 2.1M 1920×1080 pixels

Image size when [Aspect Ratio] is 1:1

L: 13M 3664×3664 pixels

M: 7.5M 2736×2736 pixels

S: 3.7M 1920×1920 pixels

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Related Topic

Aspect Ratio (still image)

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Aspect Ratio (still image)	

Sets the aspect ratio of still images.

1. MENU \rightarrow **(**Camera Settings) \rightarrow [\frown Aspect Ratio] \rightarrow desired setting.

Menu item details

3:2:

Suitable for standard prints.

4:3 (default setting):

Shoots in 4:3 aspect ratio.

16:9:

For viewing on a high-definition TV.

1:1:

For shooting in composition as a medium format camera.

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Quality (still image)	

Selects the compression format of still images.

1. MENU \rightarrow **(**Camera Settings) \rightarrow [\square Quality] \rightarrow desired setting.

Menu item details

Fine (default setting):

File format: JPEG

The image is compressed in the JPEG format when recorded.

Standard:

File format: JPEG

The image is compressed in the JPEG format when recorded. Since the compression rate of [Standard] is higher than that of [Fine], the file size of [Standard] is smaller than that of [Fine]. This will allow more files to be recorded on 1 memory card, but the image quality will be lower.

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Panorama: Size

Sets the image size when shooting panoramic images. The image size varies depending on the [Panorama: Direction] setting.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [Panorama: Size] \rightarrow desired setting.

Menu item details

When [Panorama: Direction] is [Up] or [Down] Standard: 3424×1920 Wide: 4912×1920

When [Panorama: Direction] is [Left] or [Right]
Standard: 4912×1080
Wide: 7152×1080
360°: Allows you to shoot in the size of 11520×1080, 360 degrees around.

• iSweep Panorama

• Panorama: Direction

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Panorama: Direction

Sets the direction to pan the camera when shooting panoramic images.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Panorama: Direction] \rightarrow desired setting.

Menu item details

Right (default setting):

Pan the camera from the left to the right.

Left:

Pan the camera from the right to the left.

Up:

Pan the camera from the bottom to the top.

Down:

Pan the camera from the top to the bottom.

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Focus Area

Selects the focusing area. Use this function when it is difficult to get the proper focus in auto focus mode.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Focus Area] \rightarrow desired setting.

Menu item details

נ<u>]</u> Wide:

Focuses automatically on a subject in all ranges of the image.

When you press the shutter button halfway down in still image shooting mode, a green frame is displayed around the area that is in focus.

[] Center:

Focuses automatically on a subject in the center of the image. When used together with the AF lock function, you can compose the image you want.



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Focus-lock

Shoots images with the focus locked on the desired subject in auto focus mode.

- 1. Place the subject within the AF area and press the shutter button halfway down. The focus is locked.
- 2. Keep pressing the shutter button halfway down, and place the subject back in the original position to re-compose the shot.
- 3. Press the shutter button down fully to take the picture.

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Lock-on AF	

Set up the tracking function to continue focusing on the subject.

1. MENU \rightarrow (Camera Settings) \rightarrow [Lock-on AF] \rightarrow desired setting.

Menu item details

©[€]0FF Off:

Does not track a subject to be focused on.

⊡[≢]ON On:

Tracks a subject to be focused on.

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Related Topic

• Lock-on AF (On)

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Lock-on AF (On)	

Maintains the focus on a moving subject automatically.

- 1. MENU \rightarrow (Camera Settings) \rightarrow [Lock-on AF] \rightarrow [On].
- 2. Align the target frame and the subject to be tracked, and press
 in the center.



Note

- The [Lock-on AF] function may not operate well in the following situations:
 - The subject is moving too quickly.
 - The subject is too small, or too large.
 - The contrast between the subject and the background is poor.
 - It is dark.
 - The ambient light changes.

Hint

• If you lose track of the subject, this product can detect the subject and resume the Lockon AF function when the subject reappears on the screen.

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Related Topic

Lock-on AF

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Print

AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The red AF illuminator allows the product to focus easily when the shutter button is pressed halfway, until the focus is locked.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [\frown AF Illuminator] \rightarrow desired setting.

Menu item details

Auto (default setting):

Uses the AF illuminator.

Off:

Does not use the AF illuminator.

Note

- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use [AF Illuminator] in the following situations:
 - In movie mode
 - In [iSweep Panorama] mode
 - When [Scene Selection] is set to [Landscape], [Night Scene], [Pet] or [Fireworks].

- When [Focus Area] is set to [Wide], the AF range finder frame is indicated by a dotted line.
- The AF illuminator emits a very bright light. Although there is no health hazard, do not look directly into the AF illuminator at close range.

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Exposure Comp.

Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation). Normally, exposure is set automatically (auto exposure).

1. MENU \rightarrow (Camera Settings) \rightarrow [Exposure Comp.] \rightarrow desired setting. You can adjust the exposure in a range of -2.0 EV to +2.0 EV.

Note

• If you shoot a subject in extremely bright or dark conditions, or when you use the flash, you may not be able to get a satisfactory effect.

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Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

1. MENU \rightarrow **(**Camera Settings) \rightarrow [Metering Mode] \rightarrow desired setting.

Menu item details

Multi (default setting):

Measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen (Multi-pattern metering).

O Center:

Measures the average brightness of the entire screen, while emphasizing the central area of the screen (Center-weighted metering).

Spot:

Measures only the central area (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background.

Note

- [Multi] is selected when using the following functions:
 - [Intelligent Auto]
 - [Superior Auto]

- [Scene Selection]
- Zoom functions other than optical zoom

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Drive Mode

You can set the drive mode, such as continuous or self-timer shooting.

- 1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Drive Mode] \rightarrow desired setting.
 - You can also set the drive mode by pressing 🖒 / 🛄 ([Drive Mode]) button of the control wheel.

Menu item details



Shoots one still image. Normal shooting mode.

Cont. Shooting:

Shoots images continuously while you press and hold down the shutter button.

Self-timer:

Shoots an image after 10 or 2 seconds.

Self-portrait:

When the product detects the number of faces you have selected, a beep will sound and the shooting starts after two seconds.

Self-timer(Cont):

Shoots images continuously after 10 seconds.

Related Topic

- Cont. Shooting
- Self-timer
- Self-portrait

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Cont. Shooting

Shoots 10 images while you press the shutter button.

- 1. MENU \rightarrow (Camera Settings) \rightarrow [Drive Mode] \rightarrow [Cont. Shooting].
- 2. Select the desired mode using the right/left side of the control wheel.

Menu Item Details

U_{Hi} Continuous Shooting: Hi (default setting):

Continuous shooting speed is set at a maximum of about 10 images per second.



Continuous shooting speed is set at a maximum of about 2 images per second.

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Self-timer	

The product shoots an image using the self-timer with a 10-second or 2-second delay.

- 1. MENU \rightarrow **(**Camera Settings) \rightarrow [Drive Mode] \rightarrow [Self-timer].
- 2. Select the desired mode using the right/left side of the control wheel.

Menu item details

Self-timer: 10 Sec (default setting):

Sets the 10-second delay self-timer.

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

𝔅₂ Self-timer: 2 Sec:

Sets the 2-second delay self-timer. This reduces the camera-shake caused by pressing the shutter button.

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Self-portrait

Point the lens at yourself and shoot self-portrait images.

- 1. MENU \rightarrow (Camera Settings) \rightarrow [Drive Mode] \rightarrow [Self-portrait].
- 2. Select the desired mode using the right/left side of the control wheel.
- Direct the lens toward yourself.
 When the product detects the faces of the specified number of persons, it starts shooting after a beep sounds.

Menu item details

Self-portrait: One Person (default setting):

The product starts shooting when it detects one person's face.

Self-portrait: Two People:

The product starts shooting when it detects two person's faces.

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Self-timer(Cont)	

Continuously shoots three images after 10 seconds. You can choose the best shot from the three shots taken.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [Drive Mode] \rightarrow [Self-timer(Cont.): 10 Sec. 3 Img.].

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ISO	

Sensitivity to light is expressed by the ISO number (recommended exposure index). The larger the number, the higher the sensitivity.

1. MENU \rightarrow **(**Camera Settings) \rightarrow [ISO] \rightarrow desired setting.

Menu item details

Multi Frame NR

Combines continuous shots to create an image with less noise.

ISO AUTO (default setting):

Sets the ISO sensitivity automatically.

100 / 200 / 400 / 800 / 1600 / 3200:

You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).

Note

- [ISO AUTO] is selected when using the following functions:
 - [Intelligent Auto]
 - [Superior Auto]
 - [Scene Selection]

- [iSweep Panorama]

- The higher the ISO value, the more noise will appear on the images.
- When you use [Multi Frame NR], it takes some time for the product to perform the overlay processing of images.

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Related Topic

Multi Frame NR

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Multi Frame NR

The product automatically shoots multiple images continuously, combines them, reduces the noise, and records them as one image. With multi frame noise reduction, you can select larger ISO numbers than the maximum ISO sensitivity. The image recorded is one combined image.

- 1. MENU \rightarrow (Camera Settings) \rightarrow [ISO] \rightarrow [Multi Frame NR].
- 2. Press the right side of the control wheel to display the setting screen, then select a desired value using the top/bottom side of the control wheel.

Note

• The flash cannot be used.

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White Balance

Adjusts the color tones according to the ambient light conditions. Use this feature when the color tones of the image did not come out as you expected, or when you want to change the color tones on purpose for photographic expression.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [White Balance] \rightarrow desired setting.

Menu item details

AWB Auto (default setting):

The product automatically detects the light source and adjusts the color tones.

The color tones are adjusted for the daylight.

Cloudy:

The color temperature is adjusted for a cloudy sky.

-O- Incandescent:

The color temperature is adjusted for places under an incandescent lamp, or under bright lighting, such as in a photo studio.

兴o Fluor.: Cool White:

The color temperature is adjusted for white fluorescent lighting.

尝+1 Fluor.: Day White:

The color temperature is adjusted for neutral white fluorescent lighting.

尝+2 Fluor.: Daylight:

The color temperature is adjusted for daylight fluorescent lighting.

WB Flash:

The color temperature is adjusted for flash light.

Custom:

Uses the white balance setting saved in [Custom Setup].

SET Custom Setup:

Memorizes the basic white color under the light conditions for the shooting environment.

Note

- [White Balance] is fixed to [Auto] in the following situations:
 - [Intelligent Auto]
 - [Superior Auto]
 - [Scene Selection]

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Related Topic

Capturing a basic white color in [Custom Setup] mode

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Capturing a basic white color in [Custom Setup] mode

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness.

- 1. MENU \rightarrow \frown (Camera Settings) \rightarrow [White Balance] \rightarrow [Custom Setup].
- Hold the product so that the white area fully covers the AF area located in the center, and then press

 on the center of the control wheel.
 The calibrated values (Color Temperature and Color Filter) are displayed and registered.

Note

The message [Custom WB Error] indicates that the value is higher than the expected range, when the flash is used on a subject with too bright colors in the frame. If you register this value, the indicator turns yellow on the recording information display. You can shoot at this point, but it is recommended that you set the white balance again to get a more accurate white balance value.

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Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Picture Effect] \rightarrow desired setting.

Menu item details

Coff (default setting):

Disables the [Picture Effect] function.

Toy Camera:

Creates a soft image with shaded corners and reduced sharpness.

(Pop Pop Color:

Creates a vivid look by emphasizing color tones.

Posterization:

Creates a high contrast, abstract look by heavily emphasizing primary colors, or 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 a specific color, but converts others to black and white.

() High Contrast Mono.:

Creates a high-contrast image in black and white.

Soft Focus:

Creates an image filled with a soft lighting effect.

HDR Painting:

Creates the look of a painting, enhancing the colors and details.

Rich-tone Mono.:

Creates an image in black and white with rich gradation and reproduction of details.

Miniature:

Creates an image which enhances the subject vividly, with the background defocused considerably. This effect may often be found in pictures of miniature models.

www. Watercolor:

Creates an image with ink bleed and blurring effects as if painted using watercolors.

(III) Illustration:

Creates an illustration-like image by emphasizing the outlines.

Hint

- You can perform detailed settings for the following [Picture Effect] modes using the left/right side of the control wheel.
 - [Toy Camera]
 - [Posterization]
 - [Partial Color]
 - [Soft Focus]
 - [HDR Painting]
 - [Miniature]
 - [Illustration]

Note

• When [Partial Color] is selected, images may not retain the selected color, depending

on the subject or shooting conditions.

- You cannot check the following effects on the shooting screen, because the product processes the image after the shot. Also, you cannot shoot another image until image processing is finished. You cannot use these effects with movies.
 - [Soft Focus]
 - [HDR Painting]
 - [Rich-tone Mono.]
 - [Miniature]
 - [Watercolor]
 - [Illustration]
- In the case of [HDR Painting] and [Rich-tone Mono.], the shutter is released three times for one shot. Be careful about the following:
 - Use this function when the subject is motionless or does not flash light.
 - Do not change the composition before shooting.

When the contrast of the scene is low or when significant camera-shake or subject blur has occurred, you may not be able to obtain good HDR images. If the product detects such a situation, () appear on the recorded image to inform you of this situation. If necessary, change the composition or otherwise adjust the settings, be careful of blurring, and shoot again.

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File Format (movie)

Selects the movie file format.

1. MENU \rightarrow **(**Camera Settings) \rightarrow [**]** File Format] \rightarrow desired setting.

Menu item details

AVCHD (default setting):

Records high-definition movies. This file format is suitable for viewing movies on a highdefinition TV.

You can create a Blu-ray Disc, an AVCHD recording disc, or a DVD-Video disc using the software PlayMemories Home.

MP4:

Records mp4 (AVC) movies. This format is suitable for WEB uploads, e-mail attachments, etc.

You cannot create a disc using the software PlayMemories Home with a movie that was recorded when [File Format] was set to [MP4].

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Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording. The higher the bit-rate, the higher the image quality.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [\blacksquare Record Setting] \rightarrow desired setting.

When [File Format] is set to [AVCHD]

60i/50i: Movies are recorded at approximately 60 fields/sec (for 1080 60i-compatible devices) or 50 fields/sec (for 1080 50i-compatible devices), in interlaced mode, with Dolby Digital audio, in AVCHD format.

60p/50p: Movies are recorded at approximately 60 frames/sec (for 1080 60i-compatible devices) or 50 frames/sec (for 1080 50i-compatible devices), in progressive mode, with Dolby Digital audio, in AVCHD format.

When [] File Format] is set to [MP4]

Movies shot are recorded in MPEG-4 format, at approximately 30 frames/sec (for 1080 60i-compatible devices) or approximately 25 frames/sec (for 1080 50i-compatible devices), in progressive mode, with AAC audio, mp4 format.

Menu items details

When [] File Format] is set to [AVCHD]

60i 24M(FX)*:

50i 24M(FX)**:

Records high image quality movies of 1920 × 1080 (60i/50i). Bit-rate: Maximum 24 Mbps

60i 17M(FH) (default setting)*: 50i 17M(FH) (default setting)**:

Records standard image quality movies of 1920 × 1080 (60i/50i). Bit-rate: Average 17 Mbps

60p 28M(PS)*: 50p 28M(PS)**:

Records the highest image quality movies of 1920 × 1080 (60p/50p). Bit-rate: Maximum 28 Mbps

[] File Format]: [MP4]

1440×1080 12M (default setting):

Records movies of 1440 × 1080. Bit-rate: Average 12 Mbps

VGA 3M:

Records movies of VGA size. Bit-rate: Average 3 Mbps

- * 1080 60i (NTSC) compatible device
- ** 1080 50i (PAL) compatible device

Note

- 60p/50p movies can be played back only on compatible devices.
- Movies recorded with the [60p 28M(PS)]/[50p 28M(PS)]/[60i 24M(FX)]/[50i 24M(FX)] setting in [H Record Setting] are converted by PlayMemories Home in order to create an AVCHD recording disc. This conversion can take a long time. Also, you cannot create a disc in the original image quality. If you want to keep the original image quality, store your movies on a Blu-ray Disc.

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SteadyShot (movie)

Sets [SteadyShot] effect when shooting movies.

1. MENU \rightarrow (Camera Settings) \rightarrow [**H** SteadyShot] \rightarrow desired setting.

Menu item details

Intelligent Active (default setting):

Provides the most powerful SteadyShot effect.

Active:

Provides a more powerful SteadyShot effect.

Standard:

Reduces camera shake under stable movie shooting conditions.

Note

• If you change the setting for [H SteadyShot], the angle of view will change.

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Wind Noise Reduct.	

Sets whether or not to reduce wind noise during movie recording.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Wind Noise Reduct.] \rightarrow desired setting.

Menu item details

On:

Reduces wind noise.

Off (default setting):

Does not reduce wind noise.

Note

• Setting this item to [On] where wind is not blowing sufficiently hard may cause normal sound to be recorded with too low volume.

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Auto Slow Shut. (movie)

Sets whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [\blacksquare Auto Slow Shut.] \rightarrow desired setting.

Menu item details

On (default setting):

Uses [H Auto Slow Shut.]. The shutter speed automatically slows when recording in dark locations. You can reduce noise in the movie by using a slow shutter speed when recording in dark locations.

Off:

Does not use [H Auto Slow Shut.]. The recorded movie will be darker than when [On] is selected, but you can record movies with smoother motion and less object blur.

Note

- [H Auto Slow Shut.] does not function in the following situations:
 - When [ISO] is set to other than [ISO AUTO].

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MOVIE Button

Sets whether or not to activate the MOVIE button.

1. MENU \rightarrow \bigstar (Custom Settings) \rightarrow [MOVIE Button] \rightarrow desired setting.

Menu item details

Always (default setting):

Starts movie recording when you press the MOVIE button in any mode.

Movie Mode Only:

Starts movie recording when you press the MOVIE button only if the shooting mode is set to [Movie] mode.

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Photo Creativity

[Photo Creativity] is a mode that allows you to operate the camera intuitively with a different screen display. When the shooting mode is set to **i** (Intelligent Auto) or **i** (Superior Auto), you can change the settings easily and shoot images.

- 1. Set the shooting mode to intelligent Auto) or intelligent Auto).
- 2. Press A (Photo Creativity) on the control wheel.
- 3. Select the item to be changed using the control wheel.

(Brightness):

Adjusts brightness.

(Color):

Adjusts color.

(Vividness):

Adjusts vividness.

(Picture Effect):

You can select a desired effect and shoot images with the specific texture.

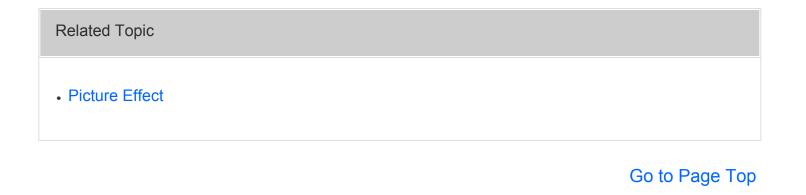
4. Select the desired settings.

- You can use some settings together by repeating steps 3 and 4.
- To reset the changed settings to the default settings, press the in (Delete) button.
 [Brightness), (Color) and (Vividness) are set to [AUTO], and (Original (Picture Effect) is set to (Correction).
- For shooting still images: Press the shutter button.
 When recording movies: Press the MOVIE button to start recording.

Note

- When you record movies using the [Photo Creativity] function, you cannot change any settings during the recording.
- If you switch the shooting mode to [Intelligent Auto] mode or [Superior Auto] mode, or turn off the product, the settings you have changed revert to the default settings.
- When the shooting mode is set to [Superior Auto], and you use [Photo Creativity], the product does not perform the overlay processing of images.

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Smile/Face Detect.

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Smile/Face Detect.] \rightarrow desired setting.

Menu item details

Does not use the [Face Detection] function.

D (default setting):

Automatically selects a face to be brought into focus.

Smile Shutter:

Automatically detects and shoots a smile.

Face Detection frame

• When the product detects a face, the gray face detection frame appears. When the product determines that autofocus is enabled, the face detection frame turns white. When you press the shutter button halfway down, the frame turns green.



Tips for capturing smiles more effectively

- Do not cover the eyes with front hair and keep the eyes narrowed.
- Do not obscure the face by a hat, masks, sunglasses, etc.
- Try to orient the face in front of the product and be as level as possible.
- Give a clear smile with an open mouth. The smile is easier to be detected when the teeth are shown.
- If you press the shutter button during Smile Shutter, the product shoots the image. After shooting, the product returns to Smile Shutter mode.

Hint

• When the [Smile/Face Detect.] is set to [Smile Shutter], you can select the Smile Detection Sensitivity from [On: Slight Smile], [On: Normal Smile] and [On: Big Smile].

Note

- You cannot use [Face Detection] with the following functions:
 - When using zoom functions other than the optical zoom
- Up to eight faces of your subjects can be detected.
- The product may not detect faces at all or may accidentally detect other objects as faces in some conditions.
- If the product cannot detect a face, set the Smile Detection Sensitivity.

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Soft Skin Effect (still image)

Sets the effect used for shooting the skin smoothly in the [Face Detection] function.

1. MENU \rightarrow \frown (Camera Settings) \rightarrow [\frown Soft Skin Effect] \rightarrow desired setting.

Menu item details

Does not use the [Soft Skin Effect] function.

⊛⁺_{MID} On:

Uses the [Soft Skin Effect].

Hint

• When [Soft Skin Effect] is set to [On], you can select the effect level.

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Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [Red Eye Reduction] \rightarrow desired setting.

Menu item details

On:

The flash is always fired to reduce the red-eye phenomenon.

Off (default setting):

Does not use Red Eye Reduction.

Note

 Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or whether the subject looks at the pre-strobe or not.



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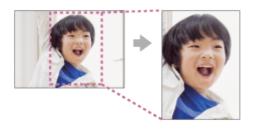
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Auto Obj. Framing (still image)

When this product detects and shoots faces, macro shooting subjects or subjects that are tracked by [Lock-on AF], the product automatically trims the image into an appropriate composition, and then saves it. Both the original and the trimmed images are saved. The trimmed image is recorded in the same size as the original image size.



- 1. MENU \rightarrow \bigcirc (Camera Settings) \rightarrow [\bigcirc Auto Obj. Framing] \rightarrow desired setting.
 - After the shot, a frame showing the trimmed area is displayed on the Auto Review screen.

Menu item details

Off (default setting):

Does not trim images.

Auto:

Automatically trims images into an appropriate composition.

Note

• The trimmed image may not be the best possible composition, depending on the shooting conditions.

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Write Date (still image)

Sets whether to record a shooting date on the still image.

1. MENU \rightarrow \clubsuit (Custom Settings) \rightarrow [\swarrow Write Date] \rightarrow desired setting.

Menu item details

On:

Records a shooting date.

When [On] is selected, the **DATE** mark will appear on the screen while shooting. However, in some shooting modes that cannot record dates on images, the **DATE** mark will disappear.

Off (default setting):

Does not record a shooting date.

Note

- If you shoot images with the date once, you cannot delete the date from the images later.
- The dates are doubly printed if you set the product to print dates when printing the images.
- The recorded time of the image cannot be superimposed on the image.

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Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

1. MENU \rightarrow \clubsuit (Custom Settings) \rightarrow [Grid Line] \rightarrow desired setting.

Menu item details

Off (default setting):

Does not display the grid line.

On:

Displays the grid line.

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Auto Review

You can check the recorded image on the screen right after the shooting. You can also set the display time for Auto Review.

1. MENU \rightarrow \clubsuit (Custom Settings) \rightarrow [Auto Review] \rightarrow desired setting.

Menu item details

10 Sec/5 Sec/2 Sec (default setting):

Displays the recorded image on the screen right after shooting for the selected duration of time. If you perform a magnifying operation during Auto Review, you can check that image using the magnified scale.

Off:

Does not display the Auto Review.

Note

- When the product is enlarging an image using image processing, it may temporarily display the original image prior to enlarging and then display the enlarged image.
- The DISP (Display Setting) settings are applied for the Auto Review display.

Related Topic

- Switching the screen display (during playback)
- Playback zoom

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Playing back images	
Plays back the recorded images.	

- 1. Press the **>** (Playback) button to switch to the playback mode.
- 2. Select the image with the control wheel.

Hint

 The product creates an image database file on a memory card to record and play back images. An image that is not registered in the image database file may not be played back correctly. To play back images shot using other devices, register those images to the image database file using MENU → [Setup] → [Recover Image DB].

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Related Topic

Recover Image DB

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Playback zoom

Enlarges the image being played back.

- 1. Display the image you want to enlarge, and slide the W/T (zoom) lever to the T side.
 - If the image is too large, slide the W/T (zoom) lever to the W side to adjust the zoom scale.
- 2. Select the portion you want to enlarge by pressing the top/bottom/right/left side of the control wheel.

Hint

• You can also enlarge an image being played back using MENU.

Note

• You cannot use the enlarged playback function with movies.

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Image Index

You can display multiple images at the same time in playback mode.

Slide the W/T (zoom) lever to the W side while the image is being played back.
 To change the number of images to be displayed
 MENU → ► (Playback) → [Image Index] → desired setting.

Menu item details

9 Images (default setting)/25 Images

To return to single-image playback

Select the desired image and press on the center of the control wheel.

Displaying a desired image quickly

Select the bar on the left of the image index screen using the control wheel, then press the top/bottom side of the control wheel. When the bar is being selected, you can display the calendar screen or folder selection screen by pressing
in the center. In addition, you can switch View Mode by selecting an icon. Related Topic

• View Mode

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Switching the screen display (during playback)

Switches the screen display.

- 1. Press the DISP (Display Setting) button.
 - The screen display switches in the order "Display Info. → Histogram → No Disp. Info. → Display Info." each time you press the DISP button.
 - The DISP (Display Setting) settings are applied for the Auto Review display.

Note

- The histogram is not displayed in the following situations:
 - During movie playback
 - During scrolling playback of panoramic images
 - During slideshows
 - During Folder View (MP4)
 - During AVCHD View

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Deleting a displayed image

You can delete an image displayed.

- 1. Display the image you want to delete.
- 2. Press the final (Delete) button.
- 3. Select [Delete] using the control wheel, then press
 on the center of the control wheel.

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Related Topic

• Deleting multiple selected images

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Deleting multiple selected images

You can delete multiple selected images.

1. MENU \rightarrow [Delete] \rightarrow desired setting.

Menu item details

Multiple Img.:

Deletes the selected images.

(1) Select the images to be deleted, then press on the center of the control wheel. The

✓ mark is displayed in the check box. To cancel the selection, press ● again to

remove the \checkmark mark.

(2) To delete other images, repeat step (1).

(3) MENU \rightarrow [OK] \rightarrow Press \bigcirc on the center.

All in this Folder:

Deletes all images in the selected folder.

All with this date:

Deletes all images in the selected date range.

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Related Topic

• Deleting a displayed image

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Playing back movies	

Plays back the recorded movies.

- 1. Press the **(**playback) button to switch to playback mode.
- 2. Select the movie to be played back using the control wheel.
- 3. To play back movies, press \bigcirc on the center.

Available operations during movie playback

You can perform slow playback and sound volume adjustment, etc. by pressing the bottom side of the control wheel.

- 🕨 : Playback
- Pause
- Fast-forward
- **I** : Fast-rewind
- **I** Forward slow playback
- •
- • Next movie file
- Previous movie file
- IDisplays the next frame

- I Displays the previous frame
- **()**: Sound volume adjustment
- **5** : Closes the operation panel

Hint

• "Forward slow playback," "Reverse slow playback," "Displays the next frame" and "Displays the previous frame" are available during pause.

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Related Topic
View Mode
Motion Shot Video

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Motion Shot Video

You can see the tracking of the subject's motion in high-speed, like a stroboscopic image.

- 1. Press the bottom side of the control wheel during movie playback, then select .
 - To exit [Motion Shot Video] playback, select
 - If you fail to make the trail, you can adjust the interval of the image tracking using
 .

Note

- You cannot save the images made with [Motion Shot Video] as a movie file.
- If the motion of the subject is too slow or the subject does not move enough, the product may fail to create the image.

Hint

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Playing back panoramic images

The product automatically scrolls a panoramic image from end to end.

- 1. Press the **>** (playback) button to switch to playback mode.
- 2. Select the panoramic image to be played back using the control wheel.
- 3. Press on the center to play back the image.



- To pause playback, press 🛑 on the center again.
- To return to the display of the entire image, press the MENU key.

Note

• Panoramic images shot using other product may be displayed in a different size from the actual size, or may not scroll correctly.



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Specify Printing

You can specify in advance on the memory card which still images you want to print out later.

The **DPOF** (print order) icon will appear on the specified images. DPOF refers to "Digital Print Order Format."

1. MENU \rightarrow [Specify Printing] \rightarrow desired setting.

Menu item details

Multiple Img.:

Selects images to order printing.

- (1) Select an image and press \bigcirc on the center of the control wheel. A \checkmark mark is displayed in the check box. To cancel the selection, press \bigcirc and delete the \checkmark mark.
- (2) Repeat step 1 to print other images.
- (3) MENU \rightarrow [OK] \rightarrow \bigcirc on the center.

Cancel All:

Clears all DPOF marks.

Print Setting:

You can set whether to print the date on images registered with DPOF marks. Select [On] or [Off] \rightarrow [Enter] in [Date Imprint].

Note

- You cannot add the DPOF mark to the following files:
 - Movies

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View Mode	

Sets the View Mode (image display method).

1. MENU \rightarrow \blacktriangleright (Playback) \rightarrow [View Mode] \rightarrow desired setting.

Menu item details

Date View:

Displays the images by date.

Folder View(Still):

Displays only still images.

►_{MP4} Folder View(MP4):

Displays only MP4-format movies.

AVCHD View:

Displays only AVCHD-format movies.

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Slide Show	

Automatically plays back images continuously.

- 1. MENU \rightarrow **(**Playback) \rightarrow [Slide Show] \rightarrow desired setting.
- 2. Select [Enter].

Menu item details

Repeat:

Select [On], in which images are played back in a continuous loop, or [Off] (default setting), in which the product exits the slideshow when all the images are played back once.

Interval:

Select the display interval for images from among [1 Sec], [3 Sec] (default setting), [5 Sec], [10 Sec] or [30 Sec].

To quit the slideshow in the middle of playback

• Press the MENU key to quit the slideshow. You cannot pause the slideshow.

Hint

• You can activate a slideshow only when [View Mode] is set to [Date View] or [Folder

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Rotate	

Rotates a recorded still image counter-clockwise.

- 1. MENU \rightarrow **[**Rotate].
- Press

 on the center of the control wheel.
 The image is rotated counter-clockwise. The image rotates as you press

 on the center. If you rotate the image once, the image remains rotated even after the product is turned off.

Note

- You cannot rotate the movies.
- You may not be able to rotate images shot using other products.
- When viewing rotated images on a computer, the images may be displayed in their original orientation depending on the software.

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Protect	

Protects recorded images against accidental erasure. The Om mark is displayed on protected images.

1. MENU \rightarrow **[**Protect] \rightarrow desired setting.

Menu item details

Multiple Img.:

Applies or cancels the protection of the selected multiple images.

(1) Select the image to be protected, then press
on the center of the control wheel.

The \checkmark mark is displayed in the check box. To cancel the selection, press \bigcirc again to remove the \checkmark mark.

(2) To protect other images, repeat step (1).

(3) MENU \rightarrow [OK] \rightarrow Press \bigcirc on the center.

All in this Folder:

Protects all still images in the selected folder.

All with this date:

Protects all still images in the selected date range.

Cancel All in this Folder:

Cancels the protection of all still images in the selected folder.

Cancel All with this date:

Cancels the protection of all still images in the selected date range.

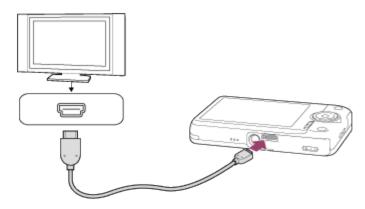
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4K Still Image PB	

Outputs still images in 4K resolution to an HDMI-connected TV that supports 4K.

- 1. Turn off this product and the TV.
- 2. Connect the HDMI micro terminal of this product to the HDMI jack of the TV using an HDMI cable (sold separately).



- 3. Turn on the TV and switch the input.
- 4. Turn on this product.
- 5. MENU \rightarrow [Playback) \rightarrow [4K Still Image PB] \rightarrow [OK].

Note

• This menu is only available with 4K-compatible TVs. For details, refer to the operating instructions of the TV.

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Related Topic

• Viewing images on an HD TV

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Beauty Effect

Allows you to apply the Beauty Effect to retouch the still image of a person and make it look better, for example, by retouching it for smoother skin, larger eyes, and whiter teeth. You can set the effects from level 1 to level 5. An image on which the Beauty Effect is used is saved as a new file. The original image is retained as it is.

- 1. MENU \rightarrow **[**Beauty Effect].
- 2. Select the face for which you want to use the Beauty Effect.
- 3. Select the desired effect and perform the retouching according to the operation method in each mode.

😍 (Skin Toning):

Adjusts the skin color as you like.

- 1. Select the base skin color using \blacktriangle / \blacktriangledown , then press
- 2. Increase or decrease the color tone using \blacktriangle / \blacktriangledown .

(Skin Smoothing):

Removes age spots and wrinkles from the skin.

Adjust the effect level using \blacktriangle / \blacktriangledown .

(Shine Removal):

•

Reduces the look of oily skin. Adjusts the skin color as you like.

Adjust the effect level using \blacktriangle / \blacktriangledown .

🚳 (Eye Widening):

Enlarges the eyes of the subject. Adjust the size of the eyes using \blacktriangle / \blacktriangledown .

(Teeth Whitening):

Whiten the teeth of the subject. You may not be able to whiten the teeth in some images.

Adjust the teeth whiteness using \blacktriangle / \blacktriangledown .

To use two or more effects with [Beauty Effect] one after another, first apply an effect to the image, then select another effect using $\triangleleft / \triangleright$.

Note

- You cannot use [Beauty Effect] for the following images:
 - Panoramic images
 - Movies
- You cannot use the Beauty Effect on an extremely small facial image.
- To use the Beauty Effect on two or more faces, select the same image again after the effect has been applied once, and then use the effect on another face.
- The [Beauty Effect] may not work properly for some images.

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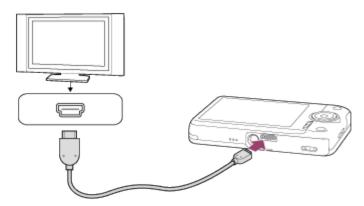
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Viewing images on an HD TV

To view images stored on this product using a TV, an HDMI cable (sold separately) and an HD TV equipped with an HDMI jack are required.

- 1. Turn off both this product and the TV.
- 2. Connect the HDMI micro terminal of this product to the HDMI jack of the TV using an HDMI cable (sold separately).



- 3. Turn on the TV and switch the input.
- 4. Turn on this product.

Images shot with the product appear on the TV screen.

Hint

- This product is compatible with the PhotoTV HD standard. If you connect Sony PhotoTV HD-compatible devices using an HDMI cable (sold separately), the TV is set to the image quality suitable for viewing still images, and a whole new world of photos can be enjoyed in breathtaking high quality.
- The PhotoTV HD allows for a highly-detailed, photo-like expression of subtle textures and colors.
- For details, refer to the operating instructions supplied with the compatible TV.

Note

- Do not connect this product and another device using the output terminals of both. Doing so may cause a malfunction.
- Some devices may not work properly when connected to this product. For example, they may not output video or audio.
- Use an HDMI cable with the HDMI logo or a genuine Sony cable.
- Use an HDMI cable that is compatible with the HDMI micro terminal of the product and the HDMI jack of the TV.

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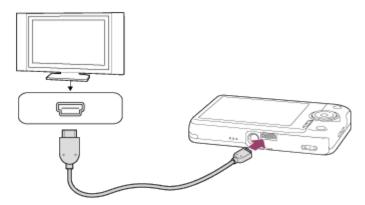
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Viewing images on a "BRAVIA" Sync-compatible TV

By connecting this product to a TV that supports "BRAVIA" Sync using an HDMI cable (sold separately), you can operate this product with the TV Remote Control.

- 1. Turn off both this product and the TV.
- Connect the HDMI micro terminal of the product to the HDMI jack of the TV using an HDMI cable (sold separately).



- 3. Turn on the TV and switch the input.
- 4. Turn on this product.
- 5. MENU \rightarrow (Setup) \rightarrow [CTRL FOR HDMI] \rightarrow [On].

6. Press the SYNC MENU button on the TV Remote Control, and select the desired mode.

Note

- Only TVs that support "BRAVIA" Sync can provide SYNC MENU operations. For details, refer to the operating instructions supplied with the TV.

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You can adjust the brightness of the screen.

1. MENU \rightarrow rightharpoonup desired setting.

Menu item details

Manual:

Adjusts the brightness within the range of -2 to +2.

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Volume Settings	

Adjusts the sound volume.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [Volume Settings] \rightarrow desired setting.

Adjusting the volume during playback

Press the bottom of the control wheel while playing back movies to display the operation panel, then adjust the volume. You can adjust the volume while listening to the actual sound.

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Audio signals

Selects whether the product produces a sound or not.

1. MENU \rightarrow \clubsuit (Setup) \rightarrow [Audio signals] \rightarrow desired setting.

Menu item details

On (default setting):

Produces sound when the focus is achieved or the self-timer is operated.

Shutter:

Produces the shutter sound only.

Off:

Does not produce sound.

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Upload Settings(Eye-Fi)

Sets whether to use the upload function when using an Eye-Fi card (commercially available). This item appears when an Eye-Fi card is inserted into the product's memory card slot.

- 1. MENU \rightarrow rightarrow (Setup) \rightarrow [Upload Settings] \rightarrow desired setting.
- Set your Wi-Fi network or destination on the Eye-Fi card.
 For details, refer to the manual supplied with the Eye-Fi card.
- 3. Insert the Eye-Fi card you have set up into the product, and shoot still images. Images are transferred to your computer, etc., automatically via the Wi-Fi network.

Menu item details

On (default setting):

Enables the upload function.

Off:

Disables the upload function

Communication status screen display

🛜 : Standby. No images are to be sent.

: Upload standby.

Strain Connecting.

膏 🕇 : Uploading.

🛜 👖 : Error

Note

- Eye-Fi cards are only sold in certain countries/regions.
- For more information on Eye-Fi cards, please contact the manufacturer or vendor directly.
- Eye-Fi cards can be used only in the countries/regions where they were purchased. Use Eye-Fi cards in accordance with the law of the countries/regions where you purchased the card.
- Eye-Fi cards are equipped with a wireless LAN function. Do not insert an Eye-Fi card into the product on an airplane. When an Eye-Fi card is inserted into the product, set [Upload Settings] to [Off]. When the upload function is set to [Off], the off, the off, indicator will be displayed on the product.
- Power save mode will not function during uploading.
- If and then on again. If the indicator appears again, the Eye-Fi card may be damaged.
- Wireless LAN communication may be influenced by other communication devices. If the communication status is poor, move closer to the access point to be connected.
- This product does not support Eye-Fi "Endless Memory Mode." Before using an Eye-Fi card, be sure that "Endless Memory Mode" is turned off.

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Tile Menu

Selects whether to always display the first screen of the menu when you press the MENU button.

1. MENU \rightarrow \bigoplus (Setup) \rightarrow [Tile Menu] \rightarrow desired setting.

Menu item details

On (default setting):

Always displays the first screen of the menu (Tile Menu).

Off:

Deactivates the Tile Menu display.

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Display Quality

You can change the display quality.

1. MENU $\rightarrow \bigoplus$ (Setup) \rightarrow [Display Quality] \rightarrow desired setting.

Menu item details

High:

Displays in high quality.

Standard:

Displays in standard quality.

Note

• When [High] is set, battery consumption will be higher than when [Standard] is set.

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Pwr Save Start Time	

You can set the time by which the power goes off automatically.

1. MENU $\rightarrow \bigoplus$ (Setup) \rightarrow [Pwr Save Start Time] \rightarrow desired setting.

Menu item details

30 Min/5 Min/2 Min (default setting)/1 Min

Note

• The power save function is not activated during playing back slideshow or recording movies, or when connected to a computer.

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Plays back movies recorded with the product on a PAL/NTSC system TV.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [PAL/NTSC Selector] \rightarrow [Enter]

Note

PAL/NTSC Selector

- This function is provided with 1080 50i-compatible devices only. It is not provided with 1080 60i-compatible devices. The 1080 50i-compatible devices have a "50i" mark on the bottom of the product.
- If you insert a memory card that has previously been formatted with the PAL system, a message telling you that you must re-format the card appears. When you record using the NTSC system, re-format the memory card or use another memory card.
- When the NTSC mode is selected, the "Running on NTSC." message always appears on the start-up screen each time you turn the product on.

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Demo Mode

The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time. Normally select [Off].

1. MENU \rightarrow rightarrow (Setup) \rightarrow [Demo Mode] \rightarrow desired setting.

Menu item details

On:

The movie playback demonstration starts automatically if the product is not operated for about one minute. Only protected AVCHD movies are played back.

Set the view mode to [AVCHD View], and protect the movie file with the oldest recorded date and time.

Off (default setting):

Does not show the demonstration.

Note

- You can set this item only when the product is powered by the AC-UD10/AC-UD11 AC Adaptor (sold separately).
- Even if [On] is selected, the product does not start a demonstration if there is no movie file on the memory card.

• When [On] is selected, the product does not switch to power save mode.

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HDMI Resolution

When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [HDMI Resolution] \rightarrow desired setting.

Menu item details

Auto (default setting):

The product automatically recognizes an HD TV and sets the output resolution.

1080p:

Outputs signals in HD picture quality (1080p).

1080i:

Outputs signals in HD picture quality (1080i).

Note

 If the images are not displayed properly using the [Auto] setting, select either [1080i] or [1080p], based on which TV is to be connected.

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CTRL FOR HDMI

When connecting this product to a "BRAVIA" Sync-compatible TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [CTRL FOR HDMI] \rightarrow desired setting.

Menu item details

On (default setting):

You can operate this product with a TV's remote control.

Off:

You cannot operate this product with a TV's remote control.

Note

• [CTRL FOR HDMI] is available only with a "BRAVIA" Sync-compatible TV.

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USB Connection

Selects the appropriate USB connection method for each computer or USB device connected to this product.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [USB Connection] \rightarrow desired setting.

Menu item details

Auto (default setting):

Establishes a Mass Storage or MTP connection automatically, depending on the computer or other USB devices to be connected. Windows 7 or Windows 8 computers are connected in MTP, and their unique functions are enabled for use.

Mass Storage:

Establishes a Mass Storage connection between this product, a computer, and other USB devices.

MTP:

Establishes an MTP connection between this product, a computer, and other USB devices. Windows 7 or Windows 8 computers are connected in MTP, and their unique functions are enabled for use.

Note

• If Device Stage* is not displayed with Windows 7 or Windows 8, set [USB Connection]



to [Auto].

* Device Stage is a menu screen used to manage connected devices, such as a camera (Function of Windows 7 or Windows 8).

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USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [USB LUN Setting] \rightarrow desired setting.

Menu item details

Multi (default setting):

Normally, use [Multi].

Single:

Set [USB LUN Setting] to [Single] only if you cannot make a connection.

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USB Power Supply

Sets whether to supply power via the micro USB cable when the product is connected to a computer or an USB device.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [USB Power Supply] \rightarrow desired setting.

Menu item details

On (default setting):

Power is supplied to the product via a micro USB cable when the product is connected to a computer, etc.

Off:

Power is not supplied to the product via a micro USB cable when the product is connected to a computer, etc.

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Language	

Selects the language to be used in the menu items, warnings and messages.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [ightarrow Language] \rightarrow desired language.

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Date/Time Setup

Sets the date and time again.

1. MENU \rightarrow rightarrow [Date/Time Setup] \rightarrow desired setting.

Menu item details

Daylight Savings:

Selects Daylight Savings [On]/[Off].

Date/Time:

Sets the date and time.

Date Format:

Selects the date and time display format.

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Area Setting	

Sets the area where you are using the product.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [Area Setting] \rightarrow desired area.

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Format	

Formats (initializes) the memory card. When you use a memory card with this product for the first time, it is recommended that you format the card using the product for stable performance of the memory card. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save valuable data on a computer, etc.

1. MENU $\rightarrow \bigoplus$ (Setup) \rightarrow [Format].

Note

• Formatting permanently erases all data including even protected images.

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File Number

Selects how to assign file numbers to recorded images.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [File Number] \rightarrow desired setting.

Menu item details

Series (default setting):

Even if you change the recording destination folder or change the memory card, the product continues to assign numbers to files in sequence.

(If there is a larger file number on the new memory card than the latest image file, a number one higher than the largest number is assigned.)

Reset:

The product resets numbers when a file is recorded in a new folder and assigns numbers to files starting with "0001."

(When the recording folder contains a file, a number one higher than the largest number is assigned.)

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Select REC Folder	
You can change the recording folder to which images are recorded.	
1. MENU \rightarrow \bigoplus (Setup) \rightarrow [Select REC Folder] \rightarrow desired folder.	

Note

• You cannot select the folder when you select the [Date Form] setting.

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New Folder

Creates a new folder in the memory card. A new folder is created with a folder number one greater than the largest folder number currently used. Images are recorded in the newly created folder. A folder for still images and a folder for MP4 movies that have the same number are created at the same time.

Note

- When you insert a memory card that was used with other equipment into this product and shoot images, a new folder may be automatically created.
- Up to 4,000 images in total can be stored in one folder. When the folder capacity is exceeded, a new folder may be automatically created.

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^{1.} MENU \rightarrow rightarrow (Setup) \rightarrow [New Folder].

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Folder Name

Still images you shoot are recorded in a folder that is automatically created under the DCIM folder on the memory card. You can change the way folder names are assigned.

1. MENU \rightarrow $rac{1}{2}$ (Setup) \rightarrow [Folder Name] \rightarrow desired setting.

Menu item details

Standard Form (default setting):

The folder name form is as follows: folder number + MSDCF.

Example: 100MSDCF

Date Form:

The folder name form is as follows: folder number + Y (the last digit)/MM/DD. Example: 10040405 (Folder number: 100, date: 04/05/2014)

Note

• The MP4 movie folder form is fixed as "folder number + ANV01".

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Recover Image DB

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

1. MENU $\rightarrow \bigoplus$ (Setup) \rightarrow [Recover Image DB] \rightarrow [Enter].

Note

• Use a sufficiently charged battery pack. Low battery power during repairing can cause damage to data.

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Displays the recordable time of movies and the number of recordable still images for the inserted memory card.

1. MENU \rightarrow rightarrow (Setup) \rightarrow [Display Media Info.].

Display Media Info.

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Version	

Displays the version of this product's software.

1. MENU \rightarrow **(Setup)** \rightarrow [Version].

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Setting Reset

Resets the product to the default settings. Even if you perform [Setting Reset], the recorded images are retained.

1. MENU \rightarrow rightarrow [Setting Reset] \rightarrow desired setting.

Menu item details

Camera Settings Reset:

Initializes the main shooting settings to the default settings.

Initialize:

Initializes all the settings to the default settings.

Note

• Be sure not to eject the battery pack while resetting.

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PlayMemories Mobile

To use [Ctrl w/ Smartphone] or [Send to Smartphone], etc., the application PlayMemories Mobile should be installed on your smartphone.

Download and install the application PlayMemories Mobile from your smartphone's application store. If PlayMemories Mobile is already installed on your smartphone, be sure to update it to the latest version.

For details on PlayMemories Mobile, refer to the support page (http://www.sony.net/pmm/).

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Connecting an Android smartphone to this product

- 1. Launch PlayMemories Mobile on your smartphone.
- 2. Select the model name of this product (DIRECT-xxxx: xxxx).

DIRECT-soos: sos-sos	J

3. Input the password that is displayed on this product.



The smartphone is connected to the product.

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Connecting the product to an iPhone or iPad

1. Select the model name of this product (DIRECT-xxxx: xxxx) on the Wi-Fi setting screen of your iPhone or iPad.

WI-FI	
Wi-Fi	
DIRECT-XXXX XXX-X	**

2. Input the password displayed on this product.



The iPhone or iPad is connected to the product.

3. Confirm that your iPhone or iPad was connected to the "SSID" shown on this product.



4. Return to the "Home" screen and launch PlayMemories Mobile.



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Ctrl w/ Smartphone

You can use a smartphone as the remote controller for this product, and shoot still images/movies. Still images/movies shot via remote control are sent to the smartphone from the product.

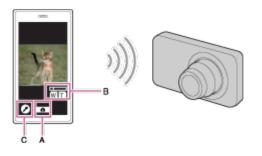
The application PlayMemories Mobile must be installed on your smartphone.

- 1. MENU \rightarrow \Im (Wireless) \rightarrow [Ctrl w/ Smartphone].
- When the product is ready for the connection, an information screen appears on the product. Connect the smartphone and the product using that information. The setting procedure varies depending on your smartphone.

SSID				
Passwo	brd			
Device	Name			

- 3. Check the composition of the image on the smartphone screen, and then press the shutter button (A) on the smartphone to shoot an image.
 - Use the zoom button (B) to zoom in/out.

• Use button (C) to change the [Flash] and [Self-Timer] settings. You can also change the image saving settings.



Note

- Depending on future version upgrades, the operational procedures or screen displays are subject to change without notice.

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Related Topic

- Connecting an Android smartphone to this product
- Connecting the product to an iPhone or iPad
- PlayMemories Mobile

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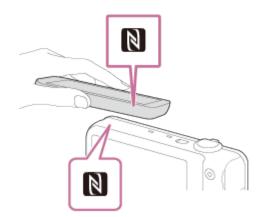
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One-touch connection with an NFC-enabled Android smartphone (NFC One-touch remote)

You can connect this product and an NFC-enabled Android smartphone with one touch, without performing a complex setup operation.

- 1. Activate the NFC function of the smartphone.
- 2. Switch this product to shooting mode.
 - The NFC function is available only when the N (N mark) is displayed on the screen.
- 3. Touch the product to the smartphone.



The smartphone and the product are connected, and PlayMemories Mobile launches

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on the smartphone.

• Touch the smartphone to the product for 1-2 seconds until PlayMemories Mobile launches.

About "NFC"

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a touch on the designated touch-point.

• NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

Note

- If you cannot make a connection, do as the following:
 - Launch PlayMemories Mobile on your smartphone, and then move the smartphone slowly toward the N (N mark) of this product.
 - If the smartphone is in a case, remove it.
 - If the product is in a case, remove it.
 - Check whether the NFC function is activated on your smartphone.
- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].
- If this product and the smartphone are connected when the product is in playback mode, the displayed image is sent to the smartphone.

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Related Topic

- Airplane Mode
- Ctrl w/ Smartphone

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Send to Smartphone

You can transfer still images/movies to a smartphone and view them. The application PlayMemories Mobile must be installed on your smartphone.

- 1. MENU \rightarrow \clubsuit (Wireless) \rightarrow [Send to Smartphone] \rightarrow desired setting.
- If the product is ready for the transfer, the information screen appears on the product. Connect the smartphone and the product using that information.

The setting method for connecting the smartphone and the product varies depending on the smartphone.

SSID
Password
Device Name
Cancel

Menu item details

Select on This Device:

Selects an image on the product to be transferred to the smartphone.

(1) Select from among [This Image], [All Still Images on Date]/[All Movie(MP4) on Date], [All Images on This Date] or [Multiple Images].

(2) If you select [Multiple Images], select the desired images using \bigcirc on the control wheel, then press MENU \rightarrow [Enter].

Select on Smartphone:

Displays all images recorded on the product's memory card on the smartphone.

Note

• You can select an image size to be sent to the smartphone from [Original], [2M] or [VGA].

To change the image size, refer to the following steps.

- For Android smartphone
 - Start PlayMemories Mobile, and change the image size by [Settings] \rightarrow [Copy Image Size].
- For iPhone/iPad

Select PlayMemories Mobile in the setting menu, and change the image size by [Copy Image Size].

- Some images may not be displayed on the smartphone depending on the recording format.
- You cannot send AVCHD format movies.
- This product shares the connection information for [Send to Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect to the product, reset the connection information by following these steps.
 MENU → [Wireless] → [SSID/PW Reset]. After resetting the connection information, you must register the smartphone again.
- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].

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Related Topic

- Connecting an Android smartphone to this product
- Connecting the product to an iPhone or iPad

PlayMemories Mobile

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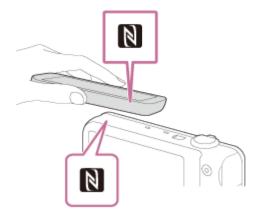
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Sending images to an Android smartphone (NFC One-touch Sharing)

With just one touch, you can connect this product and an NFC-enabled Android smartphone, and send an image displayed on the product screen directly to the smartphone.

- 1. Activate the NFC function of the smartphone.
- 2. Display a single image on the product.
- 3. Touch the smartphone to the product.



The product and the smartphone are connected, and PlayMemories Mobile automatically launches on the smartphone, and then the displayed image is sent to the smartphone. Before you touch the smartphone, cancel the sleep and lock-screen functions of the smartphone.

- The NFC function is available only when the **N** (N mark) is displayed on the product.
- Touch the smartphone to the product for 1-2 seconds until PlayMemories Mobile launches.

About "NFC"

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a touch on the designated touch-point.

• NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

Note

• You can select an image size to be sent to the smartphone from [Original], [2M], or [VGA].

To change the image size, refer to the following steps.

- For Android smartphone

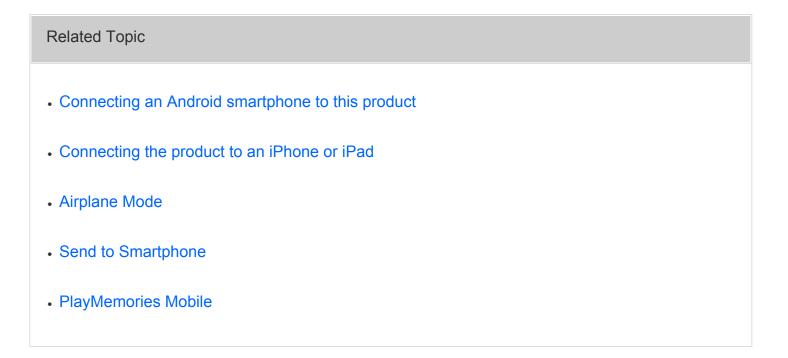
Start PlayMemories Mobile, and change the image size by [Settings] \rightarrow [Copy Image Size].

- For iPhone/iPad Select PlayMemories Mobile in the setting menu, and change the image size by [Copy Image Size].
- If the Image Index is displayed on the product, you cannot transfer images using the NFC function.
- If you cannot make a connection, perform the following:
 - Launch PlayMemories Mobile on your smartphone, and then move the smartphone slowly toward the N (N mark) of this product.
 - If the smartphone is in a case, remove it.
 - If the product is in a case, remove it.
 - Confirm that the NFC function is activated on the smartphone.
- When [Airplane Mode] is set to [On], you cannot connect the product and the

smartphone. Set [Airplane Mode] to [Off].

• You cannot send AVCHD format movies.

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Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation. Before starting this operation, install PlayMemories Home on your computer and register the access point on the product.

- 1. Start your computer.
- 2. MENU \rightarrow \Im (Wireless) \rightarrow [Send to Computer].

Note

- Depending on the application settings of your computer, the product will turn off after saving the images to your computer.
- You can transfer images from the product to only one computer at a time.
- If you want to transfer images to another computer, connect the product and the computer via a USB connection and follow the instructions in PlayMemories Home.

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Related Topic

- Installing PlayMemories Home
- WPS Push
- Access Point Set.

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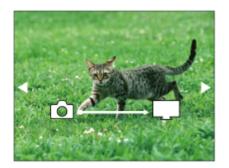
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View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable. For some TVs, you may need to perform operations on the TV. For details, refer to the operating instructions supplied with the TV.

- 1. MENU \rightarrow \Im (Wireless) \rightarrow [View on TV] \rightarrow desired device to be connected.
- 2. When you want to play back images using slideshow, press
 on the center of the control wheel.



- To display the next/previous image manually, press the right/left side of the control wheel.
- To change the device to be connected, press the bottom side of the control wheel, then select [Device list].

Slideshow settings

You can change the slideshow settings by pressing the bottom side of the control wheel.

Playback Selection:

Selects the group of images to be shown.

Folder View(Still):

Selects from [All] and [All in Folder].

Date View:

Selects from [All] and [All in Date Rng.].

Interval:

Selects from [Short] and [Long].

Effects*:

Select from [On] and [Off].

Playback Image Size:

Select from [HD] and [4K].

^{*}The settings are effective only for BRAVIA TV which is compatible with the functions.

Note

- You can use this function on a TV that supports DLNA renderer.
- You can view images on a Wi-Fi Direct-enabled TV or network-enabled TV (including cable TV).
- If you connect TV and this product and do not use Wi-Fi Direct, you need to register your access point first.
- Displaying the images on the TV may take time.
- Movies cannot be shown on a TV via Wi-Fi. Use an HDMI cable (sold separately).

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Related Topic

- WPS Push
- Access Point Set.

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Airplane Mode	

When you board an airplane, etc., you can turn off all Wi-Fi functions temporarily.

MENU → A (Wireless) → [Airplane Mode] → desired setting.
 If you set [Airplane Mode] to [On], an airplane mark will be displayed on the screen.

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WPS Push

If your access point has the WPS button, you can register the access point to this product easily by pushing the WPS button.

- 1. MENU \rightarrow (Wireless) \rightarrow [WPS Push].
- 2. Press the WPS button on the access point you want to register.

Note

- [WPS Push] works only if the security setting of your access point is set to WPA or WPA2 and your access point supports the WPS button method. If the security setting is set to WEP or your access point does not support the WPS button method, perform [Access Point Set.].
- For details about the available functions and settings of your access point, see the access point operating instructions or contact the administrator of the access point.
- A connection may not be enabled depending on the surrounding conditions, such as the type of wall material or if there is an obstruction or poor wireless signal between the product and access point. If that happens, change the location of the product or move the product closer to the access point.



Related Topic

Access Point Set.

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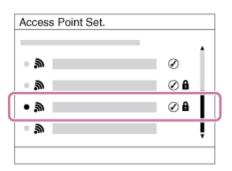
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Access Point Set.

You can register your access point manually. Before starting the procedure, check the SSID name of the access point, security system, and password. The password may be preset in some devices. For details, see the access point operating instructions, or consult the access point administrator.

- 1. MENU \rightarrow (Wireless) \rightarrow [Access Point Set.].
- 2. Select the access point you want to register.



When the desired access point is displayed on the screen: Select the desired access point.

When the desired access point is not displayed on the screen: Select [Manual Setting] and set the access point.

*For the input method, refer to "How to use the keyboard."

• If you select [Manual Setting], input the SSID name of the access point, then select

the security system.

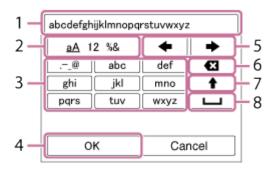
3. Input the password, and select [OK].

Access Point Set.	
	OK
	ОК
	Cancel

- Access points without the f mark do not require a password.
- 4. Select [OK].

How to use the keyboard

When manual character entry is required, a keyboard is displayed on the screen.



- 1. **Input box** The characters you entered are displayed.
- 2. Switch character types Each time you press
 on the center of the control wheel, the character type switches among alphabet letters, numerals and symbols.
- 3. **Keyboard** Each time you press on the center, the character that you enter will be displayed.

For example: If you want to enter "abd"

Select the key for "abc" and press \bigcirc once to display "a" \rightarrow select " \rightarrow "((5) Move cursor) and press \bigcirc \rightarrow select the key for "abc" and press \bigcirc twice to display "b" \rightarrow select the key for "def" and press \bigcirc once to display "d".

- 4. Finalize Finalizes the entered characters.
- 5. Move cursor Moves the cursor in the input box to the right or left.

- 6. **Delete** Deletes the character preceding the cursor.
- 7. Switches the next character to a capital or small letter.
- 8. **L** Enters a space.
- To cancel the input, select [Cancel].

Other setting items

Depending on the status or the setting method of your access point, you may want to set more items.

WPS PIN:

Displays the PIN code you enter into the connected device.

Priority Connection:

Select [On] or [Off].

IP Address Setting:

Select [Auto] or [Manual].

IP Address:

If you are entering the IP address manually, enter the set address.

Subnet Mask/Default Gateway:

When you set [IP Address Setting] to [Manual], enter the IP address to match your network environment.

Note

• To give the registered access point priority, set [Priority Connection] to [On].

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Related Topic

• WPS Push

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Edit Device Name

You can change the device name under Wi-Fi Direct.

- 1. MENU \rightarrow \Im (Wireless) \rightarrow [Edit Device Name].
- 2. Select the input box, then input the device name \rightarrow [OK].
 - For input method, refer to "How to use the keyboard."

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Related Topic

• WPS Push

Access Point Set.

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Disp MAC Address	

Displays the MAC address of this product.

1. MENU \rightarrow \Im (Wireless) \rightarrow [Disp MAC Address].

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SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [Ctrl w/ Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

1. MENU \rightarrow \Im (Wireless) \rightarrow [SSID/PW Reset] \rightarrow [OK].

Note

• After resetting the connection information, and if you connect this product to the smartphone, you must register the smartphone again.

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Related Topic

- Ctrl w/ Smartphone
- Send to Smartphone

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Reset Network Set.	

Resets all the network settings to default settings.

1. MENU \rightarrow \Im (Wireless) \rightarrow [Reset Network Set.] \rightarrow [OK].

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Recommended computer environment

You can confirm the operating computer environment of the software from the following URL:

www.sony.net/pcenv/

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PlayMemories Home

With PlayMemories Home, you can do the following:

- You can import images shot with this product to your computer.
- You can play back the images imported to your computer.
- You can share your images using PlayMemories Online.

Also for Windows, you can do the following:

- You can organize images on the computer on a calendar by shooting date to view them.
- You can edit and correct images, such as by trimming and resizing.
- You can create a Blu-ray Disc, AVCHD disc or DVD-Video disc from AVCHD movies imported to a computer.
- You can upload images to a network service. (An internet connection is required.)
- For other details, please refer to the Help of PlayMemories Home.

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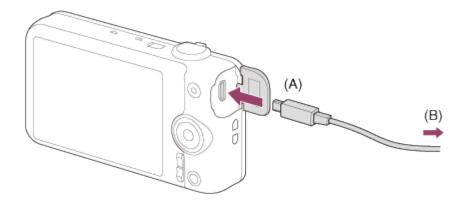
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Installing PlayMemories Home

1. Using the Internet browser on your computer, go to the following URL and install PlayMemories Home.

www.sony.net/pm/

- Proceed the installation by following the instructions on the screen.
- When installation is completed, PlayMemories Home starts up.
- If PMB (Picture Motion Browser) supplied with a product that was purchased before 2011 has already been installed on the computer, PMB will be overwritten by PlayMemories Home. Please use PlayMemories Home.
- 2. Connect the product and your computer using the supplied micro USB cable.
 - New functions may be added to PlayMemories Home. Even if PlayMemories Home has already been installed on your computer, connect this product and your computer again.



- A: To the Multi/Micro USB Terminal
- **B:** To the USB jack of the computer

Note

- Log on as Administrator.
- It may be necessary to restart your computer. When the restart confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on your computer's system environment.

Hint

• For details on PlayMemories Home, refer to the Help of PlayMemories Home or the PlayMemories Home support page (http://www.sony.co.jp/pmh-se/) (English only).

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Software for Mac computers

For details on software for Mac computers, access the following URL: http://www.sony.co.jp/imsoft/Mac/

Wireless Auto Import

"Wireless Auto Import" is required if you are using a Mac computer and want to import images to the computer using Wi-Fi function. Download "Wireless Auto Import" from the URL above, and install it on your Mac computer. For details, see Help for "Wireless Auto Import."

Note

• The software that can be used varies depending on the region.

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Related Topic

Send to Computer

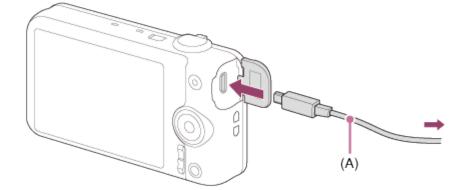


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Connecting the product to a computer

- 1. Insert a sufficiently charged battery pack into the product.
- 2. Turn on the product and the computer.
- 3. Connect the product and your computer using the micro USB cable (A) (supplied).



 If you connect the product to your computer using the micro USB cable when [USB Power Supply] is set to [On], power is supplied from your computer. (Default setting: [On])

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- USB Connection
- USB LUN Setting

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Importing images to the computer

PlayMemories Home allows you to easily import images. For details on PlayMemories Home functions, see the Help of PlayMemories Home.

Importing images to the computer without using PlayMemories Home (For Windows)

When the AutoPlay Wizard appears after making a USB connection between this product and a computer, click [Open folder to view files] \rightarrow [OK] \rightarrow [DCIM] or [MP_ROOT]. Then copy the desired images to the computer.

If Device Stage appears on a Windows 7 or Windows 8 computer, double-click [Browse Files] → media icon → folder in which the images you want to import are stored.

Importing images to the computer without using PlayMemories Home (For Mac)

Connect the product to your Mac computer. Double-click the newly recognized icon on the desktop \rightarrow the folder in which the image you want to import is stored. Then drag and drop the image file on to the hard disk icon.

Note

• For operations such as importing AVCHD movies to the computer, use PlayMemories Home.

Do not edit or otherwise process AVCHD movie files/folders from the connected computer. Movie files may be damaged or become unplayable. Do not delete or copy AVCHD movies on the memory card from the computer. Sony is not held liable for consequences resulting from such operations via the computer.

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Disconnecting the product from the computer

Disconnects the USB connection between this product and the computer.

Perform the procedures from step 1 to 2 below before performing the following operations:

- Disconnecting the cable.
- Removing a memory card.
- Turning off the product.
 - 1. Click 🔄 on the taskbar and then click the 👦 (disconnect icon).
 - For Windows Vista, click 👦 on the taskbar.
 - 2. Click the displayed message.

Note

- For Mac computers, drag and drop the icon of the memory card or the drive icon in the "Trash" icon. The product is disconnected from the computer.
- For Windows 7/Windows 8 computers, the disconnect icon may not appear. In that case, you can skip steps 1 and 2 above.

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Disc type	



High-definition image quality (HD)

A Blu-ray Disc enables you to record longer duration of high definition image quality (HD) movies than DVD discs.



High-definition image quality (HD) (AVCHD recording disc)

High definition image quality (HD) movie can be recorded on DVD media, such as DVD-R discs, and a high definition image quality (HD) disc is created.

 You can play a high definition image quality (HD) disc on AVCHD format playback devices, such as a Sony Blu-ray Disc player and a PlayStation®3. You cannot play the disc on ordinary DVD players.



Standard definition image quality (STD)

Standard definition image quality (STD) movie converted from high definition image quality (HD) movie can be recorded on DVD media, such as DVD-R discs, and a standard

image quality (STD) disc is created.

Hint

You can use the following types of 12 cm discs with PlayMemories Home. For Blu-ray discs, see "Creating Blu-ray Discs".

DVD-R/DVD+R/DVD+R DL: Non-rewritable

DVD-RW/DVD+RW: Rewritable

- Always maintain your "PlayStation 3" to use the latest version of the "PlayStation 3" system software.
- "PlayStation 3" may not be available in some countries/regions.

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Related Topic

Creating Blu-ray Discs

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Selecting the disc creation method

You can create a disc from an AVCHD format movie recorded using this product.

Depending on the disc type, playable devices may vary. Select a method suitable for your disc player.

For details on creating a disc using PlayMemories Home, see the Help of PlayMemories Home. (Only for Windows)



Creates a disc with high-definition image quality (HD)

Writable movie format: PS, FX, FH

Player: Blu-ray Disc playback devices (Sony Blu-ray Disc player, PlayStation®3, etc.)



Creates a disc with high-definition image quality (HD) (AVCHD recording disc)

Writable movie format: PS*, FX*, FH

Player: AVCHD format playback devices (Sony Blu-ray Disc player, PlayStation®3, etc.)



Creates a disc with standard definition image quality (STD)

Writable movie format: PS*, FX*, FH* Player: Ordinary DVD playback devices (DVD player, computer that can play back DVD discs, etc.)

*You can create a disc with movies recorded in these formats using PlayMemories Home by downconverting the image quality.

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Creating a disc with a device other than a computer

You can also create discs using a Blu-ray recorder, etc. Depending on which device you use, the types of disc that can be created vary.

Blu-ray recorder:



High-definition image quality (HD)



Standard definition image quality (STD) **HDD recorder, etc:**



Standard definition image quality (STD)

Note

When creating AVCHD discs using PlayMemories Home from movies recorded with the
 [H] Record Setting] of [60p 28M(PS)]/[50p 28M(PS)], [60i 24M(FX)]/[50i 24M(FX)], the
 image quality is converted and it is not possible to create discs that have the original

image quality. Converting the image quality takes time. To record movies with the original image quality, use Blu-ray Discs.

- To create a Blu-ray Disc from movies recorded in [60p 28M(PS)]/[50p 28M(PS)], you need to use a device that is compliant with AVCHD format Ver. 2.0. The created Blu-ray Disc can be played back only on a device that is compliant with AVCHD format Ver. 2.0.
- For details on how to create a disc, refer to the operating instructions of the device you use.

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Creating Blu-ray Discs

You can create Blu-ray Discs from AVCHD movies imported to a computer. The computer must be capable of creating Blu-ray Discs. BD-R (not re-writable) or BD-RE (rewritable) discs can be used. Multi-session recordings cannot be made. To create Blu-ray Discs using PlayMemories Home, be sure to install the dedicated add-on software. For details, see the following URL:

http://support.d-imaging.sony.co.jp/BDUW/

To install, your computer must be connected to the Internet. For detailed operations, see the Help of PlayMemories Home.

Note

 To play back a Blu-ray Disc that was created using movies recorded in [60p 28M(PS)]/[50p 28M(PS)], you must use a device that is compliant with AVCHD format Ver. 2.0.

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Precautions

Backing up memory cards

Data may be corrupted in the following cases. Be sure to back up the data for protection.

- When the memory card is removed or the product is turned off during a read or write operation.
- When the memory card is used in locations subject to static electricity or electrical noise.

Creating an image database file

If you insert a memory card that does not contain an image database file into the product and turn on the power, the product automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the product until the process is completed.

If a database file error occurs, export all images to your computer using PlayMemories Home, and then format the memory card using this product.

Do not use/store the product 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 strong magnetic place
- In sandy or dusty places

Be careful not to let sand or dust get into the product. This may cause the product 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 product in the back pocket of your trousers or skirt, as this may cause a malfunction or damage the product.

On operating temperatures

Your product is designed for use under the temperatures between 0°C and 40 °C (32 °F and 104 °F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

- If the product is brought directly from a cold to a warm location, moisture may condense inside or outside the product. This moisture condensation may cause a malfunction of the product.
- If moisture condensation occurs, turn off the product and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

On the functions available with the product

This manual describes the functions of 1080 60i-compatible devices and 1080 50icompatible devices. To check whether this product is a 1080 60i-compatible device or 1080 50i-compatible device, look for the following marks on the bottom of the product.

- 1080 60i-compatible device: 60i
- 1080 50i-compatible device: 50i

This camera is compatible with 1080 60p or 1080 50p-format movies. Unlike traditional standard recording modes, which record using an interlacing method, this product records

movies using a progressive method. This increases the resolution, and provides a smoother, more realistic image.

Notes for when on board an airplane

• In an airplane, set [Airplane Mode] to [On].

On image data compatibility

This product conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).

• Playback of images recorded with your product on other equipment and playback of images recorded or edited with other equipment on your product are not guaranteed.

Notes on playing movies on other devices

- This product uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. For this reason, movies recorded in AVCHD format with this product cannot be played by the following devices.
 - Other devices compatible with AVCHD format that does not support High Profile
 - Devices incompatible with the AVCHD format

This product also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, play back movies recorded in MP4 format with this product on MPEG-4 AVC/H.264 supported devices.

 Discs recorded with HD (high definition) image quality can be played back only on AVCHD format-compatible devices.

DVD-based players or recorders cannot play back HD image quality discs, as they are incompatible with the AVCHD format. Also, DVD-based players or recorders may fail to eject HD image quality discs that are recorded using the AVCHD format.

 Movies recorded in 1080 60p/1080 50p format can be played back only on 1080 60p/1080 50p supported devices.

On the monitor and lens

The monitor is manufactured using extremely high-precision technology so over 99.99
 % of the pixels are operational for effective use. However, there may be some tiny

black points and/or bright points (white, red, blue or green in color) that constantly appear on the monitor. These points are normal in the manufacturing process and do not affect the images in any way.

- Exposing the monitor or lens to direct sunlight for long periods may cause a malfunction. Exercise caution when placing the product near a window or outdoors.
- Do not press against the monitor. The monitor may be discolored and that may cause a malfunction.
- Images may trail across on the monitor in a cold location. This is not a malfunction.
- If the monitor has drops of water or other liquids on it, wipe it with a soft cloth. If the monitor stays wet, the surface of the monitor may change or deteriorate. This may cause a malfunction.
- When the battery pack is discharged, the product may shut off while the lens is still extended. Insert a charged battery pack, then turn the product on again.
- Make sure not to bump the lens or subject it to force.

Notes on discarding or transferring this product to others

When discarding or transferring this product to others, make sure to perform the following operation to protect private information.

• Perform [Setting Reset] to reset all the settings.

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On the internal rechargeable battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or whether the battery pack is charged or discharged. This rechargeable battery is continually charged as long as you are using the product. However, if you use the product for only short periods, it gradually discharges. If you do not use the product at all for about 1 month(s) it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the product. However, even if this rechargeable battery is not charged, you can still use the product as long as you do not record the date and time.

Charging method of the internal rechargeable battery

Insert a charged battery pack into the product, or connect the product to a wall outlet (wall socket) using the AC Adaptor (supplied), and leave the product for 24 hours or more with the power off.

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Notes on the battery pack

Charging the battery pack

- Charge the battery pack (supplied) before using the product for the first time.
- The charged battery pack will discharge little by little even if you do not use it. Charge the battery pack each time before you use the product so that you do not miss any opportunities to shoot images.
- You can charge the battery pack even if it is not completely discharged. You can use a partially charged battery pack.
- If the Charge lamp flashes and charging is canceled halfway, remove the battery pack once then reinsert it.
- We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 °F and 86 °F). The battery pack may not be effectively charged in temperatures outside this range.
- When you connect this product and a laptop computer that is not connected to a power source, the laptop's battery charge may decrease. Do not charge this product using the laptop computer for too long.
- Do not turn on/restart a computer, wake a computer from sleep mode, or turn off a computer while this product is connected to the computer via USB cable. Doing so may cause a malfunction of this product. Disconnect the product and the computer before performing the above operations.



We do not guarantee charging if you are using a self-built or modified computer.

Charging time (Full charge)

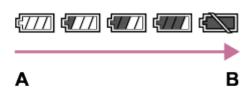
The charging time is approximately 115 minutes using the AC adaptor (supplied). The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

Effective use of the battery pack

- Battery performance decreases in low temperature environments. So in cold places, the operational time of the battery pack is shorter. To ensure longer battery pack use, we recommend putting the battery pack in your pocket close to your body to warm it up, and insert it in the product immediately before you start shooting. If there are any metal objects such as keys in your pocket, be careful of causing a short-circuit.
- The battery pack will run down quickly if you use the flash or zoom frequently.
- We recommend preparing spare battery packs and taking trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- If the battery terminal is dirty, you may not be able to turn on the product or the battery pack may not be properly charged. In that case, clean the battery by lightly wiping off any dust using a soft cloth or a cotton swab.

Remaining battery indicator

• The remaining battery indicator appears on the screen.



- A: Battery level high
- **B:** Battery exhausted
- It takes about one minute for the correct remaining battery indicator to appear.
- The correct remaining battery indicator may not be displayed under some operating or

environmental conditions.

- If you do not operate the product for a certain period of time while the power is on, the product turns off automatically (Auto power-off function).
- If the remaining battery time does not appear on the screen, press the DISP (Display Setting) button to display it.

How to store the battery pack

- To maintain the battery pack's function, charge the battery pack and then fully discharge it in the product at least once a year before storing it. Store the battery pack in a cool, dry place.
- To use the battery pack up, leave the product in slide show playback mode until the power goes off.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a plastic bag to keep away from metal materials when carrying or storing the battery pack.

On battery life

- The battery life is limited. If you use the same battery repeatedly, or use the same battery for a long period, the battery capacity decreases gradually. If the available time of the battery is shortened significantly, it is probably time to replace the battery pack with a new one.
- The battery life varies according to how the battery pack is stored and the operating conditions and environment in which each battery pack is used.

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Charging the battery pack

- The supplied AC Adaptor is dedicated to this product. Do not connect with other electronic devices. Doing so may cause a malfunction.
- Make sure to use a genuine Sony AC Adaptor.
- If the product's Charge lamp flashes while charging, remove the battery pack being charged, and then insert the same battery pack firmly back into the product. If the Charge lamp flashes again, this may indicate a faulty battery or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type.

If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the newly inserted battery is charging correctly. If the newly inserted battery is charging correctly, the previously inserted battery may be faulty.

If the Charge lamp flashes even if the AC Adaptor is connected to the product and the wall outlet (wall socket), this indicates that charging has stopped temporarily and is on standby. Charging stops and enters standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature returns to the appropriate range, charging resumes and the Charge lamp lights up again. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).



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 Even if the supplied AC Adaptor is used with the product when you shoot or play back images, power is not supplied from the wall outlet (wall socket). If you use the AC-UD10/AC-UD11 AC Adaptor (sold separately), you will be able to shoot or play back images while power is supplied from the wall outlet (wall socket).

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Memory card

Memory card

Card Type Indications in Help Guide

"Memory Stick PRO Duo" media

("Memory Stick XC-HG Duo" media/"Memory Stick PRO Duo" media/"Memory Stick PRO-HG Duo" media)

"Memory Stick Micro" media

("Memory Stick Micro" (M2) media/"Memory Stick Micro" (Mark2) media)

SD card

(SD memory card/SDHC memory card/SDXC memory card)

microSD memory card

(microSD memory card/microSDHC memory card/microSDXC memory card)

- "Memory Stick PRO Duo" media, "Memory Stick XC-HG Duo" media and SD cards up to 64 GB have been tested and proven to operate with this product.
- "Memory Stick Micro" media up to 16 GB and microSD memory cards up to 64 GB have been tested and proven to operate with this product.
- When recording movies, the following memory cards are recommended:
 - MEMORY STICK PRO DUD (Mark2) ("Memory Stick PRO Duo" media (Mark2))
 - MEMORY STICK XC-HG DUD ("Memory Stick XC-HG Duo" media (Mark2))
 - MEMORY STICK PRO-HG DUD ("Memory Stick PRO-HG Duo" media)



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- MEMORY STICK MICRO (Mark2) ("Memory Stick Micro" media (Mark2))
- Class 4 SD card or faster, Class 4 microSD memory card or faster

Note

 When you use a memory card with this product for the first time, it is recommended that you format the card using the product for stable performance of the memory card before shooting.

Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.

- If you repeatedly shoot and delete images for a long time, fragmentation of data in a file in the memory card may occur, and movie recording may be interrupted in the middle of shooting. If this happens, save your images to a computer or other storage location, then execute [Format].
- Memory card formatted with a computer is not guaranteed to operate with the product.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- We recommend backing up important data, such as to a hard disk of a computer.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.
- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- The memory card may be hot just after it has been used for a long time. Be careful when you handle it.
- Do not insert a memory card that does not fit the memory card slot. Doing so will cause a malfunction.
- Do not use or store the memory card under the following conditions:
 - High temperature locations such as in a car parked under the sun
 - Locations exposed to direct sunlight
 - Humid locations or locations with corrosive substances present
- Images recorded on "Memory Stick XC-HG Duo" media, SDXC memory cards and micro SDXC memory cards cannot be imported to or played on computers or AV devices that are not compatible with exFAT when connected using a micro USB cable.

Make sure that the device is compatible with exFAT before connecting it to the product. If you connect your product 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 "Memory Stick XC-HG Duo" media, SDXC memory cards and micro SDXC memory cards.)

Notes on using the memory card adaptor (sold separately)

- When inserting a memory card into a memory card adaptor, be sure that the memory card is inserted in the correct direction and then insert it as far as it will go. If the card is not inserted properly, it may result in a malfunction.
- When you use "Memory Stick Micro" media or a microSD memory card with this product, be sure to insert it into a dedicated memory card adaptor first.

"Memory Stick" media

The types of "Memory Stick" media that can be used with the product are as follows. However, proper operation cannot be guaranteed for all "Memory Stick" media functions.

- "Memory Stick PRO Duo" media: *1*2*3
- "Memory Stick PRO-HG Duo" media: *1*2
- "Memory Stick XC-HG Duo" media: *1*2
- "Memory Stick Micro (M2)" media: *1
- "Memory Stick Micro (Mark2)" media: *1

^{*1}This "Memory Stick" is equipped with MagicGate function. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with this product.

^{*2}High-speed data transfer using a parallel interface is supported.

^{*3}When recording movies, only media marked with Mark2 can be used.

Notes on using "Memory Stick Micro" media (sold separately)

- This product is compatible with "Memory Stick Micro" media ("M2"). "M2" is an abbreviation for "Memory Stick Micro" media.
- To use a "Memory Stick Micro" media with this product, be sure to insert the "Memory Stick Micro" media into an "M2" Adaptor as large as Duo size. If you insert a "Memory Stick Micro" media into the product without an "M2" Adaptor as large as Duo size, you might not be able to remove it from the product.
- Do not leave the "Memory Stick Micro" media within the reach of small children. They

might accidentally swallow it.

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On cleaning

Cleaning the lens and flash

Wipe the lens and flash with a soft cloth to remove fingerprints, dust, etc.

Cleaning the lens

- Do not use a cleaning solution containing organic solvents, such as thinner, or benzine.
- When cleaning the lens surface, remove dust with a commercially available blower. In case of dust that sticks to the surface, wipe it off with a soft cloth or tissue paper slightly moistened with lens cleaning solution. Wipe in a spiral pattern from the center to the outside. Do not spray lens cleaning solution directly onto the lens surface.

Cleaning the flash

Clean the flash surface before use. The heat of the flash emission may cause dirt on the flash surface to start smoking or burning. Wipe the flash surface with a soft cloth to remove dirt or dust, etc.

Cleaning the product surface

Clean the product 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:



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Do not expose the product to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.

- Do not touch the product with any of the above on your hand.
- Do not leave the product in contact with rubber or vinyl for a long time.

Cleaning the monitor

- If oil from your hand or hand cream, etc., remain on the monitor, the original coating may become easily removable. Wipe oil or hand cream off as soon as possible.
- If you wipe the monitor firmly using tissue paper, etc., the coating may be scratched.
- If the monitor becomes dirty with fingerprints or dust, gently remove the dust from the surface, and then clean the monitor using soft cloth, etc.

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Number of still images

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

[[] Image Size]: [L: 18M] When [Aspect Ratio] is set to [4:3]* Standard 2GB: 295 images 4GB: 590 images 8GB: 1200 images 16GB: 2400 images 32GB: 4800 images 64GB: 9600 images Fine 2GB: 220 images 4GB: 445 images 8GB: 900 images 16GB: 1800 images 32GB: 3650 images 64GB: 7200 images

When the [Aspect Ratio] is set to other than [4:3], you can record more pictures than shown above.

Note

- Even if the number of remaining shootable images is greater than 9,999, the "9999" indicator appears.
- When an image shot with other products is played back on this product, the image may not appear in the actual image size.

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Recordable time of movies

The table below shows the approximate maximum recording times which can be recorded on the memory card that is formatted with this product. These numbers are the total times of all movie files on the memory card. The recordable time may vary depending on the shooting conditions and the memory card.

(h (hour), m (minute))

```
60i 24M(FX)
50i 24M(FX)
2GB: 10 m
4GB: 20 m
8GB: 40 m
16GB: 1 h 30 m
32GB: 3 h
64GB: 6 h
60i 17M(FH)
50i 17M(FH)
2GB: 10 m
4GB: 30 m
8GB: 1 h
16GB: 2 h
```

32GB: 4 h 5 m 64GB: 8 h 15 m 60p 28M(PS) 50p 28M(PS) 2GB: 9 m 4GB: 15 m 8GB: 35 m 16GB: 1 h 15 m 32GB: 2 h 30 m 64GB: 5 h 5 m 1440×1080 12M 2GB: 15 m 4GB: 40 m 8GB: 1 h 20 m 16GB: 2 h 45 m 32GB: 5 h 30 m 64GB: 11 h 5 m VGA 3M 2GB: 1 h 10 m 4GB: 2 h 25 m 8GB: 4 h 55 m 16GB: 9 h 55 m 32GB: 20 h 64GB: 40 h 10 m

Continuous shooting is possible for approximately 29 minutes for each shooting (limited by product specifications). For [MP4 12M] size movies, continuous shooting is possible for approximately 15 minutes (limited by 2 GB file size).

Note

• The recordable time of movies varies because the product 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.

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Plug adaptor

You can use the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

Note

• Do not use an electronic voltage transformer as doing so may cause a malfunction.

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On TV color systems

To view movies shot using this product on a television, the product and television must use the same color television system. Check the TV color system for the country or region where you are using the product.

• NTSC system:

Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

• PAL system:

Australia, Austria, Belgium, China, Croatia, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Indonesia, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Rumania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.

• PAL-M system:

Brazil

• PAL-N system:

Argentina, Paraguay, Uruguay

• SECAM system:

Bulgaria, France, Greece, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.



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AVCHD format

The AVCHD format was developed for high-definition digital video cameras when recording an HD (High-Definition) signal using high-efficiency compression coding technology. The MPEG-4 AVC/H.264 format is used to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data. The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.

• As the AVCHD format uses compression coding technology, the picture may be unstable in scenes where the screen, angle of view, or brightness, etc. change drastically, but this is not a malfunction.

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Use the following URL to download it.

http://www.sony.net/Products/Linux/

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 MEMORY STICK VC-HG DUD, Memory Stick VC-HG Duo,
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Troubleshooting

If you experience trouble with the product, try the following solutions.

- Check the items under "Troubleshooting", then check the product. If a message such as "C/E:
 appears on the screen, refer to the self-diagnosis display.
- 2. Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.
- 3. Initialize the settings.
- Consult your dealer or local authorized service facility. 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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- Self-diagnosis display
- Setting Reset

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You cannot insert the battery pack into the product.

• Make sure the direction of the battery pack is correct, and insert it until the lock lever is locked.

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You cannot turn on the product.

- After inserting the battery pack into the product, it may take a few moments for the product to power up.
- Make sure that the battery pack is inserted correctly.
- The battery pack will discharge by itself even if you do not use it. Charge the battery pack before use.
- Make sure that the battery is NP-BN/BN1.

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The power turns off suddenly.

- Depending on the product and battery pack temperature, the product may turn off automatically to protect itself. In this case, a message is displayed on the product screen before the product turns off.
- If you do not operate the product for a certain period of time, it turns off automatically to prevent wearing down the battery pack. Turn on the product again.

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The remaining battery level indicator shows an incorrect level.

- This phenomenon occurs when you use the product in an extremely hot or cold location.
- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.

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The charge lamp on the product flashes when charging the battery pack.

 This phenomenon occurs when you charge the battery pack in an extremely hot or cold location. The optimum temperature for charging the battery pack is between 10 °C and 30 °C (50 °F and 86 °F).

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Related Topic

- Notes on the battery pack
- Charging the battery pack

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The battery pack has not been charged even if the charge lamp on the product has turned off.

- Make sure that the battery is NP-BN/BN1.
- Batteries which have not been used for more than a year may have deteriorated.

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The battery pack is not charged.

• When the battery pack is not charged (the charge lamp does not light) even if you follow the proper charging procedure, remove the battery pack and re-insert the same battery pack securely, or disconnect and reconnect the USB cable.

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You cannot record images.

- You are using a memory card with a write-protect switch, and the switch is set to the LOCK position. Set the switch to the record position.
- Check the free capacity of the memory card.
- You cannot record images while charging the flash.

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Recording takes a long time.

- The noise reduction function is processing an image. This is not a malfunction.
- The product is compiling images.

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Related Topic

- Superior Auto
- Multi Frame NR

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The image is out of focus.

- The subject is too close. Shoot from the shortest shooting distance (W side: Approx. 5 cm (0.16 ft), T side: Approx. 150 cm (4.92 ft (from the lens)).
- Press the shutter button halfway down, then shoot images.
- Ambient light is insufficient.

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Related Topic

Focus Area

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Zoom does not work.

- You cannot use zoom functions during Sweep Panorama shooting.
- You can use only the optical zoom in the following situations:
 - When using Smile Shutter function.
 - [Drive Mode] is set to [Self-portrait].

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The flash does not work.

- You cannot use a flash in the following situations:
 - [Anti Motion Blur], [Night Scene], [Hand-held Twilight], [Fireworks] or [High Sensitivity] in Scene Selection is selected.
 - During Sweep Panorama shooting.
 - During movie recording.

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Fuzzy white circular spots appear on images shot using the flash.

• Particles (dust, pollen, etc.) in the air reflected the flash light and appeared on the image. This is not a malfunction.

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The close-up shoot function (Macro) does not work.

- The product automatically adjusts the focus. Press and hold the shutter button halfway down. Focus adjustment may take some time when shooting a close subject.
- The close-up shoot function does not work when [Fireworks] in Scene Selection is selected.

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The recording date and time are not displayed on the screen.

• While shooting, the date and time are not displayed. They are displayed only during playback.

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The date and time are recorded incorrectly.

- Set the correct date and time.
- The area selected using [Area Setting] differs from the actual area. Select the actual area.

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Related Topic

Date/Time Setup

Area Setting

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The image colors are not correct.

- Adjust [White Balance].
- [Picture Effect] is set. Set [Picture Effect] to [Off].
- To reset settings to default, perform [Setting Reset].

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Related Topic

• White Balance

• Picture Effect

• Setting Reset

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Noise appears in the image when you view the screen in a dark place.

• The product is attempting to increase the visibility of the screen by temporarily brightening the monitor under conditions of low illumination. There is no effect on the recorded image.

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Dark shadow appears on the image.

• Depending on the brightness of the subject, you may see a dark shadow when you change the aperture. This is not a malfunction.

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The eyes of the subject come out red.

- Set [Red Eye Reduction] to [On].
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.

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Related Topic

Red Eye Reduction

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Dots appear and remain on the screen.

• This is not a malfunction. These dots are not recorded.

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You cannot shoot images continuously.

- The memory card is full. Delete unnecessary images.
- The battery level is low. Insert a charged battery pack.

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The image is blurred.

- Activate the SteadyShot function by pressing the shutter button halfway down and then shoot images.
- The picture was taken in a dark location without the flash, resulting in product-shake. The use of a tripod or the flash is recommended. [Hand-held Twilight] and [Anti Motion Blur] in [Scene Selection] are also effective in reducing blur.

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Related Topic

Scene Selection

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The flash takes too long to recharge.

• The flash has been fired in succession in a short period. When the flash has been fired in succession, the recharging process may take longer than usual to avoid overheating of the camera.

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Images cannot be played back.

- Make sure that the memory card is fully inserted into the product.
- The folder/file name has been changed on your computer.
- When an image file has been processed by a computer or when the image file was recorded using a model other than this product, playback on this product is not guaranteed.
- The product is in USB mode. Disconnect the product from the computer.
- Use PlayMemories Home to play back on this product images that are stored on your computer.

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Related Topic

Disconnecting the product from the computer

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The date and time are not displayed.

• The screen display is set to display images only. Press DISP (Display Setting) on the control wheel to display the information.

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The image cannot be deleted.	
Cancel the protection.	
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Related Topic	
• Protect	
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The image was deleted by mistake.

• Once you have deleted an image, you cannot restore it. We recommend that you protect images that you do not want to delete.

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Related Topic

Protect

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You cannot find the wireless access point to be connected.

- Wireless access points may not be displayed on the product due to signal conditions. Place the product closer to the wireless access point.
- Wireless access points may not be displayed on the product depending on the access point settings. Refer to the instruction manual of the wireless access point.

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[WPS Push] does not work.

• [WPS Push] may not work depending on the access point settings. Check the SSID and password of the wireless access point, and perform [Access Point Set.].

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[Send to Computer] is canceled halfway.

• When the battery remaining level is low, [Send to Computer] may be canceled halfway. Charge the battery pack and try again.

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You cannot send movies to a smartphone.

• You cannot send AVCHD movies to a smartphone. Set [] File Format] to [MP4] to record movies.

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Related Topic

• File Format (movie)

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[Ctrl w/ Smartphone] or [Send to Smartphone] is canceled halfway.

• When the remaining battery level is low, [Ctrl w/ Smartphone] or [Send to Smartphone] may be canceled halfway. Charge the battery pack and try again.

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The shooting screen for [Ctrl w/ Smartphone] is not displayed smoothly./The connection between this product and the smartphone is disconnected.

• Data communication between this product and the smartphone may fail due to signal conditions. Place this product closer to the smartphone.

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You cannot use One-Touch connection (NFC).

- Place the N (N mark) on the smartphone and the N (N mark) on the product as close together as possible. If there is no response, move the smartphone a few millimeters or move the smartphone away from this product, wait more than 10 seconds, and then touch them together again.
- [Airplane Mode] is set to [On]. Set [Airplane Mode] to [Off].
- Check whether the NFC function is activated on your smartphone. For details, refer to the instruction manual of the smartphone.
- Do not place any metal objects other than a smartphone near the **N** (N mark).
- Do not contact two or more smartphones to this product at the same time.
- If another NFC-based application is running on your smartphone, terminate that application.

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Related Topic

Airplane Mode

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The computer does not recognize this product.

- Set [USB Connection] to [Mass Storage].
- Use the micro USB cable (supplied) to connect the devices.
- Disconnect the USB cable, and connect it again firmly.
- Disconnect all equipment other than this product, the keyboard and the mouse from the USB terminals of your computer.
- Connect this product directly to your computer without passing through a USB hub or other device.
- If you set [USB Power Supply] to [Off], the computer may be able to recognize this product.

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Related Topic

USB Connection

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You cannot import images.

- Connect this product and your computer correctly making a USB connection.
- When you shoot images with a memory card formatted by a computer, you may not be able to import the images to a computer. Shoot using a memory card formatted by this product.

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Related Topic
Connecting the product to a computer
• Format

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The image and sound are interrupted by noise when viewing a movie on a computer.

• You are playing back the movie directly from the memory card. Import the movie to your computer using PlayMemories Home and play it back.

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Images exported from a computer cannot be viewed on this product.

• Use PlayMemories Home to copy images that are stored on a computer onto a memory card inserted into this product and view them on this product.

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Formatted the memory card by mistake.

• All the data on the memory card is deleted by formatting. You cannot restore the data.

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Images are printed with both edges cut off.

- Depending on your printer, the left, right, top, and bottom edges of the image may be cut off. Especially when you print an image shot with [Aspect Ratio] set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings of the printer. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When you print images at a shop, ask the shop whether they can print the images without cutting off both edges.

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Related Topic

Aspect Ratio (still image)

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You cannot print images with the date.

- If you set [Write Date] to [On], you can print still images with the date. Note that you cannot delete the date from the image on the camera.
- If you want to print images with the date, use [Print Setting] under [Specify Printing].
- You can print images with the date superimposed if the printer or the software can recognize Exif information. For compatibility with Exif information, consult the manufacturer of the printer or the software.
- Using PlayMemories Home, you can print images with the date without recording the date.
- When you print images at a shop, images can be printed with the date if you ask them to do so.

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Related Topic

- Write Date (still image)
- Specify Printing

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Print

The lens gets fogged.

• Moisture condensation has occurred. Turn off the product and leave it for about an hour before using it.

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The product stops with the lens portion extended./The product turns off with the lens portion extended.

- Do not attempt to force lens that has stopped moving.
- Insert a charged battery pack, then turn the product on again.

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The product becomes warm when you use it for a long time.

• This is not a malfunction. Turn off the product and do not use it for a while.

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Related Topic

• Date/Time Setup

The Clock Set screen appears when you turn on the product.

- Set the date and time again.
- The internal rechargeable backup battery has discharged. Insert a charged battery, and set aside for 24 hours or more with the power left off.

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The number of recordable images does not decrease, or decreases two images at a time.

• This is because the compression rate and the image size after compression change depending on the image when you shoot a JPEG image.

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The product does not work properly.

- Turn off the product. Remove the battery pack and insert it again. If the product is hot, remove the battery pack, and allow it to cool down before trying this corrective procedure.
- If an AC-UD10/AC-UD11 AC Adaptor (sold separately) is used, disconnect the power cord. Connect the power cord and turn on the product again. If the product repeats the same error often or still does not work after trying these solutions, consult your Sony dealer or local authorized Sony service facility.

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Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on this product is working. The last two digits (indicated by $\Box\Box$) will differ depending on the state of this product.

If you cannot solve the problem even after trying the following corrective actions a few times, this product may need repair. Contact your Sony dealer or local authorized Sony service facility.

C:32:00

• There is trouble with the product's hardware. Turn the power off and on again.

C:13:00

- This product cannot read or write data on the memory card. Try turning off and on this product again, or taking out and inserting the memory card several times.
- An unformatted memory card is inserted. Format the memory card.
- The inserted memory card cannot be used with this product, or the data is damaged. Insert a new memory card.

E:61:00

E:62:00

E:91:00

• A product malfunction has occurred. Initialize this product, then turn the power on again.

E:94:□□

 There is a malfunction when writing or deleting data. Repair is required. Contact your Sony dealer or local authorized Sony service facility. Be prepared to give all numbers in the error code beginning from the E.

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Warning messages

Set Area/Date/Time.

• Set the area, date and time. If you have not used the product for a long time, charge the internal rechargeable backup battery.

Unable to use memory card. Format?

 The memory card was formatted on a computer and the file format was modified. Select [Enter], and then format the memory card. You can use the memory card again, however, all previous data in the memory card is erased. It may take some time to complete the format. If the message still appears, change the memory card.

Memory Card Error

- An incompatible memory card is inserted.
- Formatting has failed. Format the memory card again.

Unable to read memory card. Reinsert memory card.

- An incompatible memory card is inserted.
- The memory card is damaged.
- The terminal section of the memory card is dirty.

This memory card may not be capable of recording and playing normally.



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• An incompatible memory card is inserted.

Processing...

• When performing noise reduction, the reduction process takes place. You cannot do any further shooting during this reduction process.

Unable to display.

• Images recorded with other products or images modified with a computer may not be displayed.

Internal temp. high. Allow it to cool.

• The product has become hot because you have been shooting continuously. Turn the power off. Cool the product and wait until the product is ready to shoot again.

[]•

• You have been recording images for a long time, the product temperature has risen. Stop recording images until the product cools.

Recording is unavailable in this movie format.

• Set [] File Format] to [MP4].

FULL

• The number of images exceeds that for which date management in a database file by the product is possible.

ERROR

• Unable to register to the database file. Import all the images to a computer and recover the memory card.

Image DataBase File error

 There is something wrong in the Image Database File. Select [Setup] → [Recover Image DB].

System Error

Camera Error. Turn power off then on.

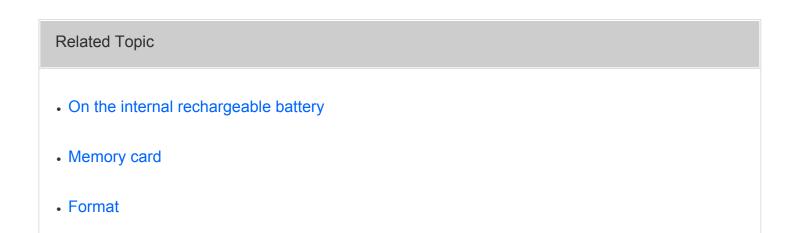
• Remove the battery pack, and then re-insert it. If the message appears frequently, consult your Sony dealer or local authorized Sony service facility.

Unable to magnify.

Unable to rotate image.

• Images recorded with other products may not be enlarged or rotated.

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Situations this product has difficulty handling

The product cannot take full advantage of some features under certain circumstances. When shooting under the following conditions, either recompose the shot or change the shooting mode, then shoot the images again.

Low light conditions

- iSweep Panorama
- Lock-on AF

Overly bright conditions

• Lock-on AF

Varying levels of brightness

Lock-on AF

Flickering lights

• iSweep Panorama

Subjects too close to the product

• iSweep Panorama

Large moving subjects or subjects that move too quickly



- Superior Auto
- iSweep Panorama
- Lock-on AF

Subjects too small or too large

- iSweep Panorama
- Lock-on AF

Scenes with little contrast, such as the sky or a sandy beach

- iSweep Panorama
- Superior Auto

Scenes changing constantly, such as a waterfall

- iSweep Panorama
- Superior Auto

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Related Topic

• iSweep Panorama

• Lock-on AF

• Superior Auto

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