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DSC-H70

User Guide

Use this manual if you encounter any problems, or have any questions about the camera.

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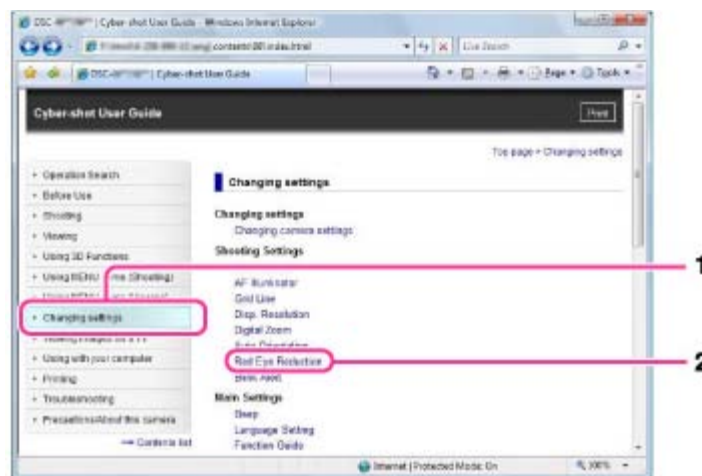
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This User Guide explains how to use each function of the camera, how to change settings, and how to troubleshoot a problem.

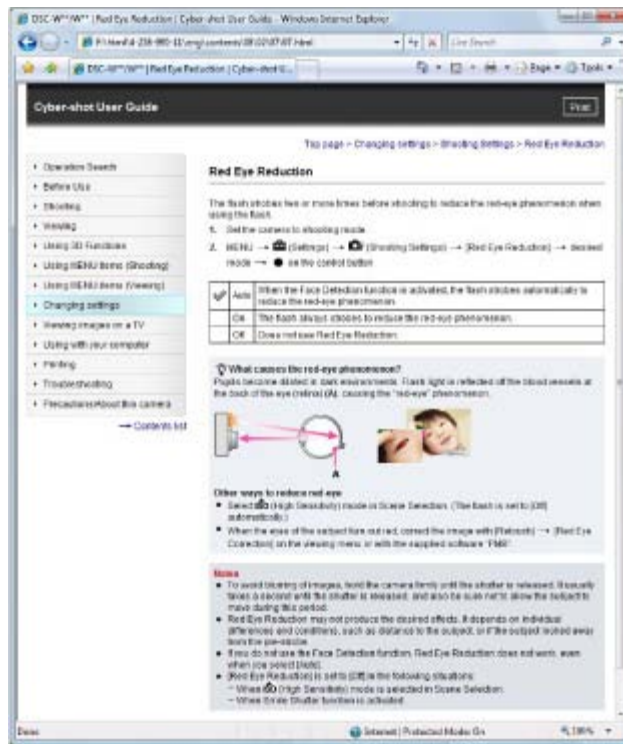
Selecting a topic to display

The following illustrations take Internet Explorer 7 as an example.

1. Click a title in the side bar on the left of the browser window.
The title's topic list appears in the right pane.
2. Click a topic title in the list.



Descriptions appear in the right pane.

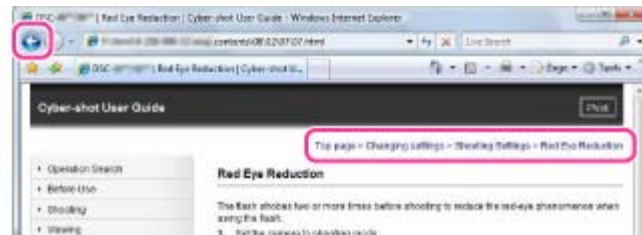


Changing the font size

Change the font size by changing the setting of your web browser. For how to change the font size setting, refer to the Help of your web browser.

Returning to a previous page

Use the back button of your web browser or the breadcrumb trail navigation to return to a page you previously viewed.



Printing out a page

Click the [Print] button to print out a page you are viewing.



Marks and notations used in this User Guide

In this User Guide, the sequence of operations is shown by arrows (→) (A). Operate the camera in the order indicated.



- Icons in the operating procedure sentences appear when the camera is in its default settings.
- The default setting is indicated by ✓.
- ⓘ indicates information that is useful to know.

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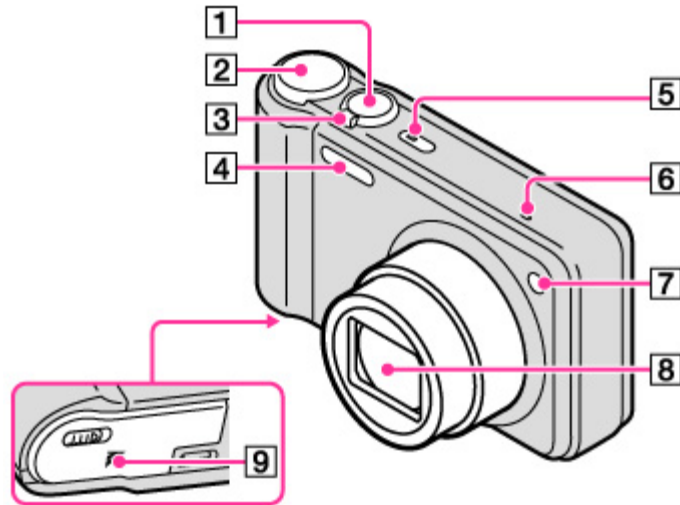
- The images used as examples in this User Guide are reproduced images, and are not actual images shot using this camera.

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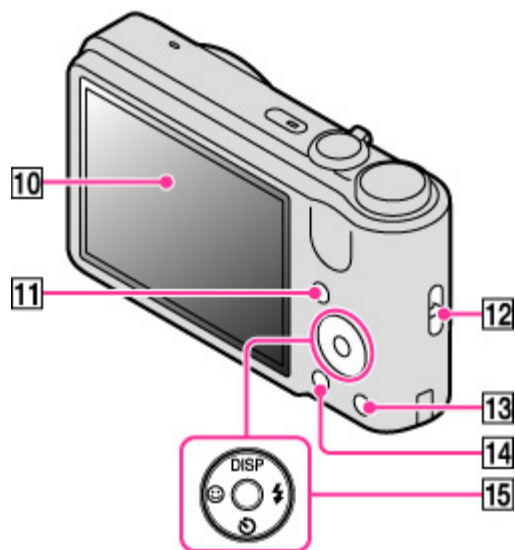
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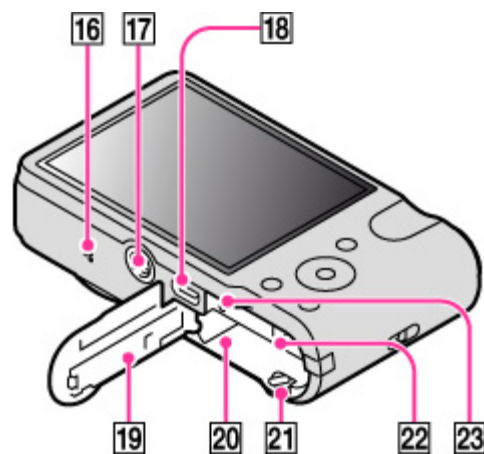


- 1** Shutter button
- 2** Mode dial
- 3** For shooting: W/T (zoom) lever
For viewing: (Playback zoom) lever/ (Index) lever
- 4** Flash
- 5** ON/OFF (Power) button/Power lamp
- 6** Microphone
- 7** Self-timer lamp/Smile Shutter lamp/AF illuminator
- 8** Lens
- 9** (TransferJet™) mark

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- Menu on: / / / /
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- 16 Speaker
- 17 Tripod receptacle
- 18 Multi connector (Type3a)
- 19 Battery/Memory card cover
- 20 Battery insertion slot
- 21 Battery eject lever
- 22 Memory card slot
- 23 Access lamp

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▼ List of viewing mode icons

You can change the screen display using DISP (Screen Display Settings) on the control button.

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	Burst Settings
BRK	Bracket Shooting
± 0.3 ± 0.7 ± 1.0 BRK EV EV EV WB	Bracket Setting
DRO DRO STD Plus	DRO
	Soft Skin Effect
	Smile Detection Sensitivity indicator
$\times 1.4$ S Q P Q	Zoom scaling

2

Display	Indication
	AE/AF lock
ISO400	ISO number
NR	NR slow shutter
125	Shutter speed
F3.5	Aperture value
+2.0EV	Exposure value
	Focus

3

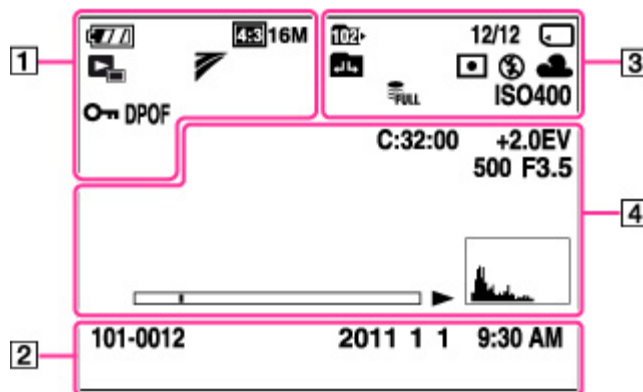
Display	Indication
102	Recording folder
96	Number of recordable images
100Min	Recordable time
	Recording Media (Memory card, internal memory)
	Eye-Fi Mode display
ON	AF Illuminator
SL	Flash mode
	Red-eye reduction
	Flash charging

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Display	Indication
	Self-timer

C:32:00	Self-diagnosis display
	Face detection
	Database file full/Database file error warning
	Destination
	Overheating warning
	AF range finder frame
	Spot metering cross-hairs
	Histogram
REC Standby	Recording a movie/Movie standby
0:12	Recording time (m:s)

List of viewing mode icons



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Display	Indication
	Battery remaining
	Low battery warning
	Image size/Panorama image size
	Protect
	Print order (DPOF)
	Playback zoom
	View Mode
	TransferJet settings

2






Display	Indication
---------	------------

101-0012	Folder-file number
2011 1 1 9:30 AM	Recorded date/time of the playback image

3

Display	Indication
	Playback folder
12/12	Image number/Number of images recorded in date range, selected folder
	Playback Media (Memory card, internal memory)
	Eye-Fi Mode display
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ISO400	ISO number
	Database file full/Database file error warning

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C:32:00	Self-diagnosis display
+2.0EV	Exposure value
500	Shutter speed
F3.5	Aperture value
	Playback
	Playback bar
00:00:12	Counter
	Histogram •  appears when histogram display is disabled.
	Volume

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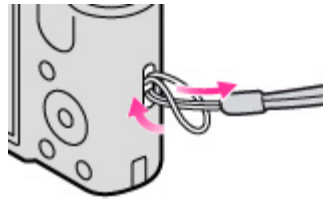
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Using the wrist strap

Attach the strap and place your hand through the loop to prevent the camera from damage by being dropped.

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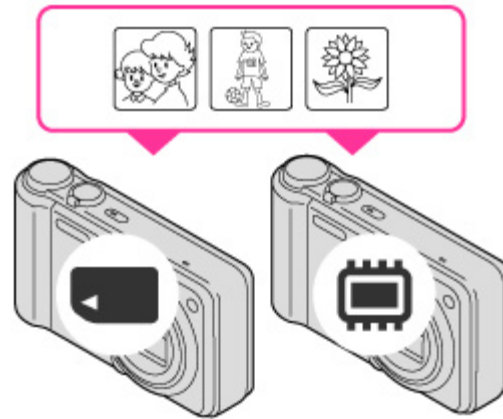
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Using the internal memory

▼ On image data stored in the internal memory

The camera has approximately 27 MB of internal memory. This memory is not removable. You can record images on the internal memory when there is no memory card inserted in the camera.



When a memory card is inserted

[Recording]: Images are recorded on the memory card.

[Playback]: Images on the memory card are played back.

[Menu, Settings, etc.]: Various functions can be performed on images on the memory card.

When there is no memory card inserted

[Recording]: Images are recorded using the internal memory.

- You cannot record movies to the internal memory when the movie image size is [1280x720(Fine)] or [1280x720(Standard)].

[Playback]: Images stored in the internal memory are played back.

[Menu, Settings, etc.]: Various functions can be performed on images in the internal memory.

■ On image data stored in the internal memory

We recommend that you copy (back up) data using one of the following methods.

To copy (back up) data on a hard disk of your computer

Without a memory card inserted in the camera, import the images into a computer. [\[Details\]](#)
[\[Details\]](#)

To copy (back up) data on a memory card

Prepare a memory card with sufficient free capacity, then copy the images in the internal memory to the memory card. [\[Details\]](#)

Notes


- You cannot transfer image data on a memory card to the internal memory.
- By making a USB connection between the camera and a computer with a cable for multi-use terminal, you can transfer data stored in the internal memory to a computer. However you cannot transfer data on a computer to the internal memory.

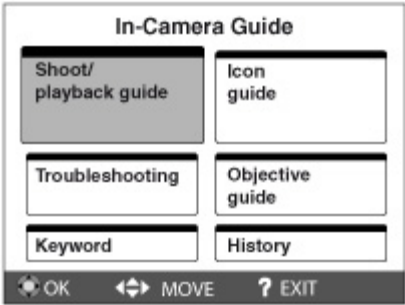
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In-Camera Guide

This camera contains an internal function guide. This allows you to search the camera's functions according to your needs.
You can use the selected function after reading the guide.

1. Press the  (In-Camera Guide) button.
When shooting images:
[In-Camera Guide] search methods are displayed.
When viewing images:
[Delete/In-Camera Guide] is displayed.
Select [In-Camera Guide].
2. Select a search method.



Search method	Description
Shoot/playback guide	Search for various operation functions in shooting/viewing mode.
Icon guide	Search the function and meaning of displayed icons.
Troubleshooting	Search common problems and their solution.
Objective guide	Search functions according to your needs.
Keyword	Search functions by key words.
History	Display the last 12 items displayed in [In-Camera Guide].

An operation guide is displayed so that you can operate the camera following the instructions on the screen.
This is explained in [Shoot/playback guide].

3. Select the desired mode.



Functions available in the selected function is displayed.

4. Select the desired function, then press **OK** on the control button.
The operation guide for the selected function is displayed.



5. Use **◀ / ▶** to switch the display from summary to operation to details.
 - The operation guide and details may not be displayed, depending on the selected function.
 - When you select [Use this function], the camera switches to the selected mode automatically.
6. To end [In-Camera Guide], press **?/❌** (In-Camera Guide) button.


Notes

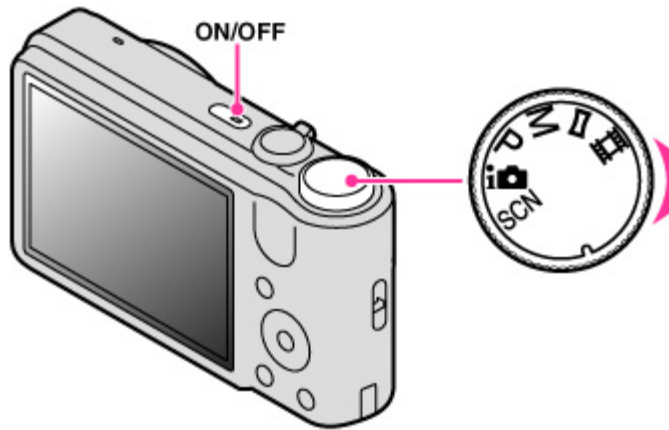
- **?/❌** (In-Camera Guide) button is not available in Easy Mode.
- [Use this function] may not be available, depending on the selected functions.

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Shooting still images

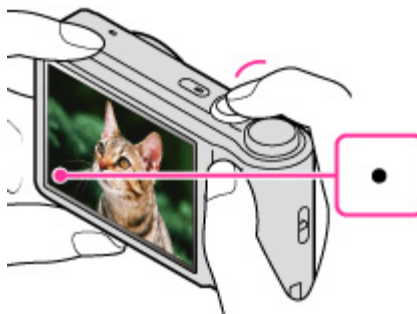
1. Set the mode dial to  (Intelligent Auto), then press the ON/OFF (Power) button.



2. Hold the camera steady as illustrated.



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 (2 inches) (W), 100 cm (3 ft 3 3/8 inches) (T) (from the lens).

4. Press the shutter button fully down.



- 💡 If you shoot a still image of a subject that is difficult to focus on
- When the camera cannot focus on the subject automatically, the AE/AF lock indicator changes to slowly flashing and the beep does not sound. Either recompose the shot or change the focus setting. [\[Details\]](#)
 - 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.
 - The subject is backlit or there is a flashing light.

Related Topic

[Viewing still images](#)

[Image Size/Panorama Image Size](#)

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Zoom

You can enlarge the image when shooting. The camera's optical zoom function can enlarge images up to 10×.

1. Turn the W/T (zoom) lever.

Turn the W/T (zoom) lever to T side to zoom in, W side to zoom out.



- Turn the W/T (zoom) lever lightly for a slower zoom. Move it further for a faster zoom.
- When the zoom scale exceeds 10×, set [Digital Zoom]. [\[Details\]](#)


Notes

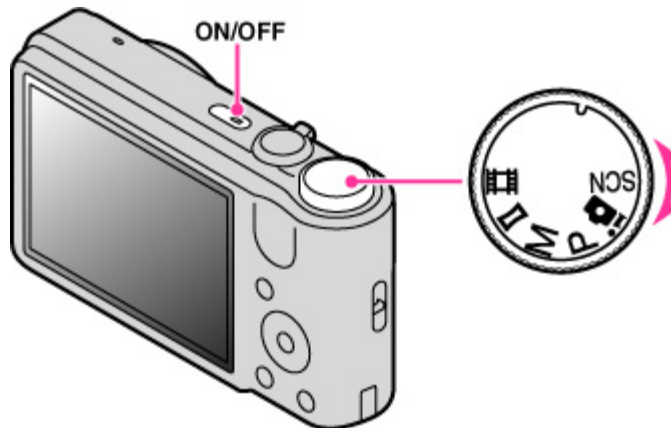
- Zoom is locked to the W side in Sweep Panorama mode.
- The operating sound of the lens is recorded when the zoom function operates while shooting a movie.

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Shooting movies

1. Set the mode dial to  (Movie Mode), then press the ON/OFF (Power) button.



2. Press the shutter button to start recording.



3. Press the shutter button again to stop recording.

Notes

- The operating sound of the lens is recorded when the zoom function operates while shooting a movie.
- You can shoot continuously for approximately 29 minutes at a time when the temperature is 25°C (77°F) and camera is set to the factory settings. When shooting stops, you can press the shutter button again to restart shooting. Depending on the temperature when shooting, recording may automatically stop to protect the camera.

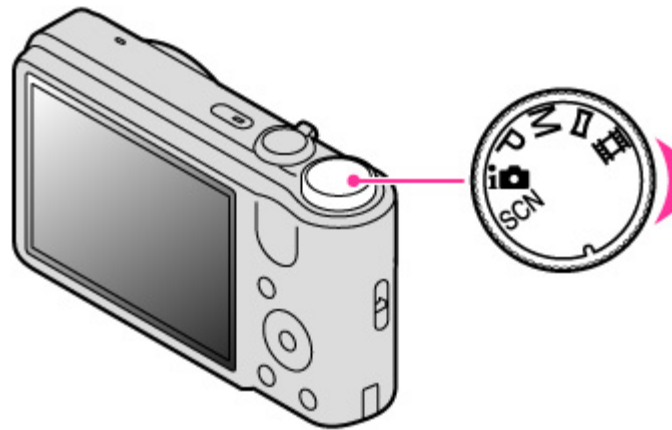
Related Topic




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List of mode dial functions

Set the mode dial to the desired function.



 (Intelligent Auto)	Allows you to shoot still images with the settings adjusted automatically.
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 using the menu.
SCN (Scene Selection)	Allows you to shoot with preset settings according to the scene.
M (Manual Exposure Shooting)	Allows you to shoot after adjusting the exposure manually (both the shutter speed and the aperture (F value)).
 (Sweep Panorama)	Allows you to shoot a panorama image after composing images.
 (Movie Mode)	Allows you to change the settings for movie recording.

Related Topic


[Intelligent Auto](#)[Program Auto](#)[Scene Selection](#)[Manual Exposure Shooting](#)[Sweep Panorama](#)[Movie Mode](#)

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Intelligent Auto

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

1. Set the mode dial to  (Intelligent Auto).
2. Shoot with the shutter button.








Note

- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

On Scene Recognition

Scene Recognition operates in Intelligent Auto mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.



When the camera recognizes  (Twilight),  (Twilight Portrait),  (Twilight using a tripod),  (Backlight),  (Backlight Portrait),  (Landscape),  (Macro) or  (Portrait), the corresponding Scene Recognition icon and guide is displayed on the LCD screen. For details, see “Scene Recognition”. [\[Details\]](#)

Related Topic

[Scene Recognition](#)

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Program Auto

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

1. Set the mode dial to **P** (Program Auto).
2. Shoot with the shutter button.

Note

- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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Scene Selection

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




1. Set the mode dial to **SCN** (Scene Selection).
2. Select the desired mode → ● on the control button.
 - If you want to select the other Scene Selection mode, select from MENU.

 (Soft Skin)	<p>Allows you to shoot faces for smoothness.</p> 
 (Soft Snap)	<p>Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.</p> 
 (Landscape)	<p>Allows easy shooting of distant scenes by focusing in the distance. Shoots vivid blue sky and flora colors.</p> 
 (Twilight Portrait)	<p>Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.</p> 
	<p>Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.</p>

 (Twilight)	
 (High Sensitivity)	<p>Allows you to shoot images without a flash under low light conditions, reducing blur.</p> 
 (Gourmet)	<p>Shifts to Macro mode, allowing you to shoot food arrangements in delicious and bright color.</p> 
 (Pet)	<p>Allows you to shoot images of your pet with the best settings.</p> 
 (Beach)	<p>Allows you to record the blue of the water clearly when shooting seaside or lakeside scenes.</p> 
 (Snow)	<p>Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.</p> 
 (Fireworks)	<p>Allows you to record fireworks in all their splendor.</p>

	
 (Advanced Sports Shooting)	<p>Allows you to shoot subjects with fast movements such as sports. While the shutter is pressed halfway, the movement of the subject is predicted and the focus will be adjusted.</p> 

Notes

- When you shoot images using  (Twilight Portrait),  (Twilight) or  (Fireworks) mode, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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Manual Exposure Shooting

You can shoot at your favorite exposure by manually setting the shutter speed and aperture value.

1. Set the mode dial to **M** (Manual Exposure Shooting).
2. Press **●** on the control button.
3. Select the shutter speed and aperture (F value) using control button.

Control button	Feature
●	Return
▲ ▼	Shutter speed
◀ ▶	Aperture (F value)

- Select a shutter speed from 1/1600 seconds to 30 seconds.
- When zoom is set fully to W, you can select an aperture of F3.5 or F8 (when used with the Internal ND (Neutral Density) Filter).
When zoom is set fully to T, you can select an aperture of F5.5 or F13 (when used with the Internal ND (Neutral Density) Filter).
- 4. Press the shutter button to shoot the image.



Setting the shutter speed and aperture (F value)

The difference between the settings (A) and proper exposure judged by the camera appears as an EV value (B) on screen.



- 0EV is the value judged as the most suitable by the camera.
- When the shutter speed is one second or slower, the shutter speed is indicated by ["], for example, [1"].
- When you set the shutter speed slower, using a tripod is recommended to prevent the effects of vibration.
- When the shutter speed becomes slower than a certain speed, the NR slow shutter function is activated automatically to reduce image noise, and **NR** appears on the screen.
- If you select slow shutter speeds, it takes time to process the data.

Notes

- If proper exposure is not obtained by your settings, the setting value indicators on the screen will flash when the shutter button is pressed halfway down. You can shoot in this condition,

but exposure readjustment is recommended.

- The flash is set to [On] or [Off].
- You cannot select the shutter speed and aperture (F value) when the self-timer is set to [Self-portrait One Person] or [Self-portrait Two People].
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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Sweep Panorama

Allows you to create a panorama image from composite images.

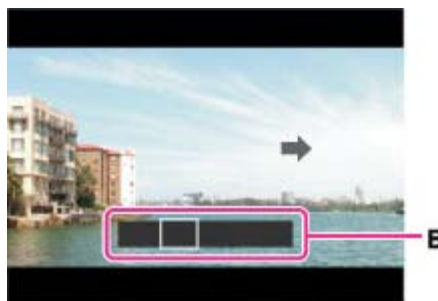


1. Set the mode dial to  (Sweep Panorama).
2. Align the camera with the end of the subject to be shot and press the shutter button fully.



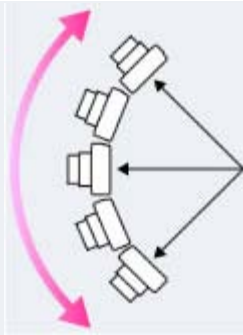
- A black, translucent portion (A) appears before shooting. That part will not be recorded.

3. Pan the camera to the end of the guide (B), following the indication on the LCD screen.

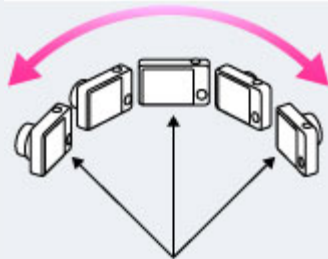


Tips for shooting a panorama image

Pan the camera in an arc at a constant velocity in the direction indicated on the LCD screen. Subjects at rest are more suited for panorama shots than moving subjects. Radius as short as possible.



Vertical direction



Horizontal direction

- First, press the shutter button halfway so that you can lock the focus, exposure and white balance. Then, press the shutter button fully down and pan or tilt the camera.
- If a section with greatly varied shapes or scenery is concentrated along a screen edge, the image composition may fail. In such case, adjust the frame composition so that the section is in the center of the image, then shoot again.

Notes

- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full panorama image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, panorama images may be blurred or the shooting may not be successful.
- Under lights that flicker, such as fluorescent lights, the brightness or color of the combined image will not always be the same.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness, color and focus, the shooting will not be successful. If this happens, change AE/AF locked angle and shoot again.
- Sweep Panorama is not suitable for the following situations:
 - Moving subjects
 - Subjects are too close to the camera
 - Images with little contrast, such as sky, sandy beach or lawn
 - Images with constant changes, such as waves or waterfalls
- You cannot create panorama images in the following situations:
 - You pan the camera too quickly or too slowly.
 - There is too much camera shake.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)


Related Topic

[Scrolling the panorama images for display](#)

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Movie Mode

Allows you to record movies with their audio.

1. Set the mode dial to  (Movie Mode).
2. Press the shutter button.
3. To stop recording, press the shutter button again.

Note

- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

Related Topic

[Shooting movies](#)[Image Size/Panorama Image Size](#)[▲ Back to top](#)

Functions not available in some REC modes

In the table below, ✓ indicates a user-changeable function, while — indicates an unchangeable one. The icons below [Self-Timer] and [Flash] indicate the available modes.

	Self-Timer	Flash	Face Detection/Smile Shutter	Burst Settings/Bracket Setting
 (Intelligent Auto)	✓		✓	✓*2
P (Program Auto)	✓	✓	✓	✓
M (Manual Exposure Shooting)	✓		✓	✓
 (Sweep Panorama)	—		—	—
 (Movie Mode)	 		—	—
 (Soft Skin)	✓	✓	✓*1	✓*3
 (Soft Snap)	✓	✓	✓*1	✓*3
 (Landscape)	 		—	✓*3
 (Twilight Portrait)	✓		✓	—
 (Twilight)	 		—	—
ISO (High Sensitivity)	✓		✓	—
 (Gourmet)	 		—	—
 (Pet)	 		—	—
 (Beach)	✓		✓	✓*3
 (Snow)	✓		✓	✓*3
 (Fireworks)	 		—	—
 (Advanced Sports Shooting)	—		—	✓*3

*1 [Off] for [Face Detection] cannot be selected.

*2 [Bracket Setting] cannot be selected.

*3 [White Balance] for [Bracket Setting] cannot be selected.











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DISP (Screen Display Settings)

▼ Histogram

- 1. Press DISP (Screen Display Settings) on the control button.
- 2. Select the desired mode with the control button.

	 (Image Only)	<p>In Movie Mode, sets screen to standard brightness and displays only images.</p> 
	 (Bright + Image Only)	<p>Sets screen brighter and displays only images.</p> 
	 (Bright + Exposure Data)	<p>Sets screen brighter and displays the information. Exif data and a histogram for the recorded image are also displayed.</p> 
	 (Bright)	<p>Sets screen brighter and displays the information.</p> 
	  (Normal)	<p>Sets screen to standard brightness and displays the information.</p>

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Note

- If you view images in bright outside light, adjust the screen brightness up. However, the battery power may decrease faster under such condition.

Histogram

A histogram is a graph showing the brightness of an image. The graph display indicates a bright image when skewed to the right side (A), and a dark image when skewed to the left side (B).



1. Press DISP (Screen Display Settings) on the control button, then select [Bright + Exposure Data].

Notes


- The histogram also appears when playing back a single image, but you cannot adjust the exposure.
- The histogram does not appear when:
 - Recording/playing back movies
 - Viewing vertical orientation images
 - Rotating still images
 - Shooting with Sweep Panorama mode
 - Viewing images shot with Sweep Panorama
- A large difference in the histogram displayed during shooting and playback may occur when:
 - The flash strobes.
 - The shutter speed is slow or fast.
- The histogram may not appear for images recorded using other cameras.






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Flash

1. Press  (Flash) on the control button.
2. Select the desired mode with the control button.

	 AUTO (Auto)	Flash automatically operates in dark locations or when there is backlight.
	 (On)	Flash always operates.
	 SL (Slow Synchro)	Flash always operates. The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.
	 (Off)	Flash does not operate.



When the “White circular spots” appears in flash photos


This is caused by particles (dust, pollen, etc.) floating close to the lens. When they are accentuated by the camera’s flash, they appear as white circular spots.



How can the “White circular spots” be reduced?

- Light the room and shoot the subject without a flash.
- Select **ISO** (High Sensitivity) mode in Scene Selection. ([Off] is automatically selected.)

Notes

- The flash strobes twice. The first flash adjusts the light quantity.
- While charging the flash,  is displayed.
- You cannot use the flash during burst or bracket shooting.
- You may not be able to set some functions depending on the selected REC mode. For details, see “Functions not available in some REC modes.” [\[Details\]](#)

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Smile Shutter

When the camera detects a smile, the shutter is released automatically.

1. Press ☺ (Smile) on the control button.
2. Wait for a smile to be detected.
When a smile is detected and the smile level exceeds the ◀ point on the indicator, the camera records images automatically.



- If you press the shutter button during Smile Shutter, the camera shoots the image, and then returns to Smile Shutter mode.
3. To stop shooting, press ☺ (Smile) again.

💡 Tips for better capturing of smiles



- 1 Do not cover the eyes with the bangs. Do not obscure the face by hat, masks, sunglasses, etc.
- 2 Try to orient the face in front of the camera and be as level as possible. Keep the eyes narrowed.
- 3 Give a clear smile with an open mouth. The smile is easier to detect when the teeth are shown.
 - The shutter operates when any person whose face is being detected smiles.
 - You can select the priority subject for face detection with [Face Detection]. To perform smile detection for a different face, change the priority face using ● on the control button. [\[Details\]](#)
 - If a smile is not detected, select MENU → [Smile Detection Sensitivity], then set the

value to [Slight Smile].

Notes

- Shooting using the Smile Shutter ends automatically when either the memory card or internal memory becomes full.
- Smiles may not be detected correctly depending on the conditions.
- You cannot use the digital zoom function.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

Related Topic

[Smile Detection Sensitivity](#)

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



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Self-Timer

Automatic shooting with Self-portrait timer

1. Press  (Self-Timer) on the control button.
2. Select the desired mode with the control button.

	 OFF (Off)	Does not use the self-timer.
	 (10sec)	Sets the self-timer to a 10-second delay. When you press the shutter button, the self-timer lamp flashes and a beep sounds until the shutter operates. To cancel, press  again.
	 (2sec)	Sets the self-timer to a 2-second delay.
	 (Self-portrait One Person)	Sets the self-timer to Self-portrait timer. When the camera detects the specified number of faces, a beep sounds, and the shutter operates 2 seconds later.
	 (Self-portrait Two People)	

Tips for preventing blur

If your hands or body moves while holding the camera and pressing the shutter button, “Camera shake” occurs.



Camera shake occurs frequently under low-light or slow shutter speed conditions, such as those encountered in  (Twilight Portrait) or  (Twilight) mode.

In such a case, shoot with the below tips in mind.

- Shoot with a 2-second delay self-timer and stabilize the camera by holding your arms firmly at your side after pressing the shutter button.
- Use a tripod or place the camera on a flat surface to hold the camera steady.

Note

- You may not be able to set some functions depending on the selected REC mode. For details, see “Functions not available in some REC modes.” [\[Details\]](#)

Automatic shooting with Self-portrait timer

Point the lens at yourself so your face is reflected in the LCD screen. The camera detects the subjects, and then the shutter operates. The camera determines the optimal composition and prevents faces from being cut out of the LCD screen. Do not move your camera after the beep sounds.



- You can also shoot an image by pressing the shutter button during this operation.


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Viewing still images

1. Press the  (Playback) button to switch to playback mode.
2. Select an image with the control button.



Viewing images taken with a different camera

This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message "Files found which were not recognized Import files" will be displayed. To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to register all of the data or the data may be corrupted if the battery charge runs out.

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Playback zoom

Enlarges the image being played back.

1. Turn the W/T (zoom) lever to T side (Q) during still image playback.
The image is enlarged to twice the previous size, at the center of the image.
2. Adjust the position with the control button.
The frame in the lower left of the image shows which part of the total image is being displayed.



3. Change the zoom scale with the W/T (zoom) lever.
Turn the W/T (zoom) lever to T side (Q) to zoom in, W side (Q) to zoom out.
Press ● on the control button to cancel playback zoom.

To save enlarged images

You can save an enlarged image by using the trimming function.

Press MENU → [Retouch] → [Trimming (Resize)].




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Image Index

Displays multiple images at the same time.


1. Press the  (Playback) button to switch to playback mode.
2. Turn the W/T (zoom) lever to W side () to display the image index screen.
Turn the lever again to display an index screen with more images. Turn the lever yet again to view images with the Calendar while playing back in [Date View].
3. To return to the single-image screen, select an image with the control button, then press .

Displaying images of the desired date/folder






Select the left side bar with the control button, then select the desired folder with  / .



Viewing images with the Calendar

When [View Mode] is set to [Date View], turn W/T (zoom) lever to W side () to view images with the Calendar, while the index displays more images.






- To select the month you want to display, select  /  with the control button, then the desired month.
- To view images in selected date in index mode, select the date with the control button and press .
- To exit the Calendar, select  with the control button, then press .






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Delete button

Allows you to select unwanted images for deletion.
You can also delete images from the MENU button. [\[Details\]](#)

1. Press the  (Playback) button to switch to playback mode.
2.  (Delete) button → desired mode →  on the control button

All Images on This Date All in This Folder	Deletes all images in the selected date range or folder at once. Press [OK] →  after step 2.
Multiple Images	Allows you to select and delete multiple images. Do as the following after step 2. ① Select an image then press  . Repeat the above steps until there are no more images to be deleted. Select an image with a  mark again to release the  mark. ② MENU → [OK] → 
This Image	Deletes the currently displayed image in single-image mode.
Cancel	Cancels the deletion.

 You can switch between index and single-image mode when selecting images

Turn the W/T (zoom) lever to T side () in index mode to return to single-image mode, and turn the lever to W side () in single-image mode to return to index mode.

- You can also switch between index and single-image mode in [Protect] or [DPOF].



Notes

- In Easy Mode, you can delete only the currently displayed image.
- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

Related Topic



[Delete](#)

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Viewing movies

1. Press the  (Playback) button to switch to playback mode.
2. Select a movie with the control button.
3. Press  .
The playback bar appears, and a movie playback starts.



Control button	Playback feature
	Stop
	Fast forward
	Fast rewind
	Displays the volume control screen. Adjust the volume with  /  on the control button, then press  .

Note

- You may not be able to play back some images shot using other cameras.

Related Topic

[View Mode](#)

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Scrolling the panorama images for display

You can scroll panorama images by pressing ● on the control button while panorama images are being displayed. Turn the W/T (zoom) lever to W side to display the whole image again.



A: Shows the displayed area of the whole panorama image

Control button	Action
● on the control button	Scrolling playback/pauses scrolling images
▲ / ▼ / ◀ / ▶ on the control button	Scrolls images
W side of W/T (zoom) lever	Displays the whole image

- Panorama images can also be played back using the supplied software “PMB”. [\[Details\]](#)
- Panorama images recorded using another camera may not scroll correctly when played.

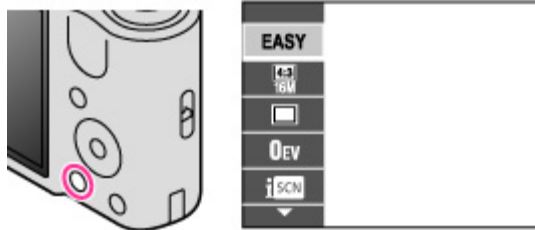
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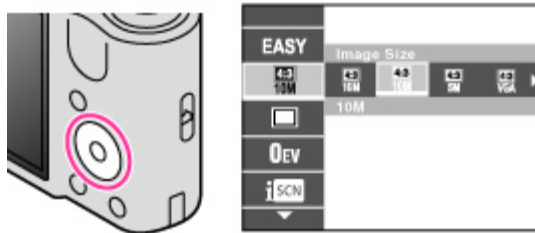
Using MENU items (Shooting)

You can select the various shooting functions easily from the MENU button.

1. Press the ON/OFF (Power) button and set the camera to shooting mode.
2. Press the MENU button to display the Menu screen.



3. Select the desired menu item with ▲ / ▼ / ◀ / ▶ on the control button.



4. Press the MENU button to turn off the Menu screen.










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Scene Selection

When the mode dial is set to **SCN** (Scene Selection) and if you want to select another scene, follow the steps below.




1. MENU → **SCN** (Scene Selection) → desired mode

 (Soft Skin)	Allows you to shoot faces for smoothness. 
 (Soft Snap)	Allows you to shoot images with a softer atmosphere for portraits and flowers, etc. 
 (Landscape)	Allows easy shooting of distant scenes by focusing in the distance. Shoots the clear sky and trees and flowers in vivid colors. 
 (Twilight Portrait)	Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere. 
 (Twilight)	Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.

	
 (High Sensitivity)	<p>Allows you to shoot images without a flash under low light conditions, reducing blur.</p> 
 (Gourmet)	<p>Allows you to shoot food arrangements in delicious and bright colors using Macro mode.</p> 
 (Pet)	<p>Allows you to shoot images of your pet with the best settings.</p> 
 (Beach)	<p>Allows you to shoot images with the proper settings for seaside or lakeside scenes.</p> 
 (Snow)	<p>Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.</p> 
 (Fireworks)	<p>Allows you to record fireworks in all their splendor.</p>

	
 (Advanced Sports Shooting)	<p>Allows you to shoot subjects with fast movements such as sports. While the shutter is pressed halfway, the movement of the subject is predicted and the focus will be adjusted.</p> 

Notes

- When you shoot images using  (Twilight Portrait),  (Twilight) or  (Fireworks) mode, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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Easy Mode

▼ On Scene Recognition

▼ Shooting functions available in Easy Mode (Shooting)

Allows you to shoot still images using the minimum necessary functions. The text size increases and indicators become easier to see.

1. Set the mode dial to  (Intelligent Auto).
2. MENU → **EASY** (Easy Mode) → ● on the control button.
3. [OK] → ●
4. Shoot with the shutter button.
 - To end Easy Mode, MENU → [Exit Easy Mode]


Note

- The battery power may decrease faster because the screen brightness increases automatically.


On Scene Recognition



Scene Recognition operates in Easy Mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.




The camera recognizes  (Twilight),  (Twilight Portrait),  (Twilight using a tripod),  (Backlight),  (Backlight Portrait),  (Landscape),  (Macro) or  (Portrait), and displays an icon on the LCD screen when the scene is recognized. For details, see “Scene Recognition.” [\[Details\]](#)

Shooting functions available in Easy Mode (Shooting)


Image Size	MENU → [Image Size] → ● on the control button → desired mode → ● Select between [Large] or [Small] size.
	 on the control button desired mode

Self-Timer	→ Select between [10sec] or [Off] mode.
Flash	 on the control button → desired mode Select between [Auto] or [Off] mode.
Smile Shutter	 on the control button

Viewing in Easy Mode

When you press the  (Playback) button in Easy Mode, the playback screen text becomes larger and easier to see. In addition, only the deletion function becomes available.

For deleting currently displayed image:

 (Delete) button → [OK] → ● on the control button

For selecting the deletion method between [1 image] or [All]:

MENU → [Delete] → ● on the control button → desired mode → ●

You can delete the currently displayed image using [1 image] and delete all images in the selected date range or internal memory (if selected) using [All].

- When a memory card is inserted in the camera, [View Mode] is set to [Date View].

Related Topic

[Scene Recognition](#)

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Shooting Direction

Set the direction in which the camera will be panned when shooting in Sweep Panorama mode.

1. MENU →  (Shooting Direction) → desired direction

	 (Right)	Pan from left to right.
	 (Left)	Pan from right to left.
	 (Up)	Pan from down to up.
	 (Down)	Pan from up to down.

Related Topic

[Sweep Panorama](#)

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Image Size

Image Size/Panorama Image Size

- ▼ Image size when shooting still images
- ▼ Image size in Easy Mode
- ▼ Image size when shooting Sweep Panorama
- ▼ Image size when shooting movies

The image size determines the size of the image file that is recorded when you take an 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.

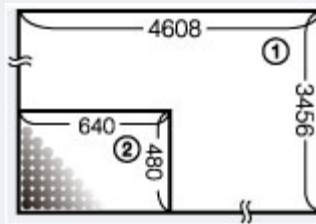
1. MENU →  (Image Size)/ (Panorama Image Size) → desired size

 On “image quality” and “image size”

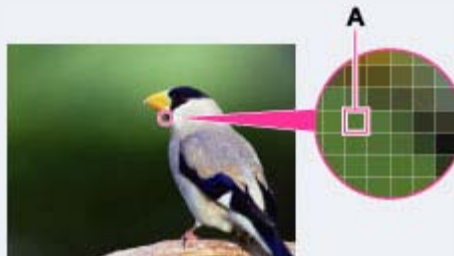
A digital image is made up of a collection of small dots called pixels.

If it contains a large number of pixels (A), the image becomes large, it takes up more memory, and the image is displayed in fine detail. “Image size” is shown by the number of pixels.

Although you cannot see the differences on the screen of the camera, the fine detail and data processing time differ when the image is printed or displayed on a computer screen.



- ① Image size: 16M
4608 pixels × 3456 pixels = 15,925,248 pixels
- ② Image size: VGA
640 pixels × 480 pixels = 307,200 pixels



Many pixels











(Fine image quality and large file size)



Few pixels

(Rough image quality but small file size)

Image size when shooting still images

	Image size	Usage guidelines	No. of images	Printing
✓	 (4608×3456)	For prints up to A3+ size	Less 	Fine 
	 (3648×2736)			
	 (2592×1944)	For prints from 10×15 cm up to A4 size	↑ ↓ 	↑ ↓ 
	 (640×480)	For e-mail attachments		
	 (4608×2592)	For viewing on a high-definition TV and printing up to A3 size	Less ↑ ↓ More	Fine ↑ ↓ Rough
	 (1920×1080)	For viewing on a high-definition TV		

Note

- When you print still images recorded at a 16:9 aspect ratio or panorama images, both edges may be cut off.

Image size in Easy Mode

✓	Large	Shoots images in [16M] size.
	Small	Shoots images in [5M] size.

Image size when shooting Sweep Panorama






✓	 (Standard) (Horizontal: 4912 × 1080) (Vertical: 3424 × 1920)	Shoots images using standard size.
	 (Wide) (Horizontal: 7152 × 1080) (Vertical: 4912 × 1920)	Shoots images using wide size.

Image size when shooting movies

The larger the size of the movie image, the higher the image quality. The higher the amount of data used per second (average bit-rate), the smoother the playback image.

Movies shot with this camera are recorded in MPEG-4 format, at approximately 30 frames/sec, in progressive mode, with AAC audio, mp4 format.

	Movie image size	Average bit-rate	Usage guidelines
✓	 1280x720(Fine)	9 Mbps	Shoots highest quality movies for display on High Definition TV.
	 1280x720(Standard)	6 Mbps	Shoots standard quality movies for display on High Definition TV.
	 VGA	3 Mbps	Shoots an image size suitable for WEB upload.

Note

- A telephoto image results if [VGA] image size is selected when shooting movies.

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Burst Settings

You can select Single (single-image) or Burst as the shooting mode.

1. MENU →  (Burst Settings) → desired mode

	 (Single)	The camera shoots a single image.
	 (Burst)	The camera shoots up to 100 continuous frames in one burst when you hold down the shutter button. 

Notes

- [Flash] is set to [Off].
- When recording with the self-timer, only a single image is recorded.
- The recording interval becomes longer, depending on the setting for the image size.
- [Focus], [White Balance], and [EV] are adjusted for the first image, and these settings are also used for the other images.
- When the battery level is low, or when the internal memory or a memory card is full, the burst stops.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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

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Bracket Setting

You can set the type of the bracket shooting. In the bracket shooting mode, you can record a series of 3 images with the setting changed. You can select the most suitable image afterwards.

1. MENU →  (Bracket Setting) → desired mode

	 (Off)	Does not use the bracket shooting.
	 (EXP ±0.3)	
	 (EXP ±0.7)	Records a series of 3 images with the exposure shifted in the following order: bright, standard, and dark. The larger the bracket step value, the larger the shift of the exposure value.
	 (EXP ±1.0)	
	 (White Balance)	Records a series of 3 images with the white balance shifted in the following order: current color tone, toward blue, and toward red. <ul style="list-style-type: none">When you set [White Balance] to other than [Auto], the color tone is shifted based on the selected white balance.

Notes

- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [\[Details\]](#) and “MENU items not available in some REC modes.” [\[Details\]](#)

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EV

You can adjust the exposure manually in 1/3 EV steps in a range of -2.0 EV to +2.0 EV.

1. MENU → **0EV** (EV) → desired EV setting

💡 Adjusting the exposure for better looking images



A: Overexposure (too much light)

B: Correct exposure

C: Underexposure (too little light)

Notes


- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, the exposure adjustment may not be effective.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see "MENU items not available in some REC modes." [\[Details\]](#)


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ISO

Adjusts the luminous sensitivity when the camera is set to Program Auto, Manual Exposure Shooting or  (Advanced Sports Shooting) in Scene Selection.

1. MENU →  AUTO (ISO) → desired mode

	ISO AUTO (Auto)	Sets the ISO sensitivity automatically.
	ISO 80/100/200/400/800/1600/3200	You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).



Adjusting ISO Sensitivity (Recommended Exposure Index)

ISO sensitivity is a speed rating for recording media that incorporates an image sensor that receives light. Even when the exposure is the same, images differ depending on the ISO sensitivity.

High ISO sensitivity



Records a bright image even in dark locations while increasing shutter speed to reduce blur. However, the image tends to become noisy.

Low ISO sensitivity



Records a smoother image. However, when the exposure is insufficient, the image may become darker.




Hints for preventing blur

Even though the camera is steady, the subject moves during the exposure and is captured blurred when the shutter button is pressed. Camera shake is reduced automatically, however, the function does not effectively reduce subject blur. Subject blur occurs frequently under low-


light or slow shutter speed conditions.

In such case, shoot with the below tips in mind.

- Select a higher ISO sensitivity so that the shutter speed is faster.
- Select  (High Sensitivity) mode in Scene Selection.



Notes

- You cannot select [ISO AUTO] in Manual Exposure Shooting mode.
- You cannot select ISO settings other than [ISO AUTO], [ISO 80] to [ISO 800] in the following cases:
 - When Burst/Bracket mode is selected
 - When Scene Selection is set to  (Advanced Sports Shooting)
 - When [DRO] is set to [DRO plus].

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





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White Balance

▼ To capture the basic white color in [One Push Set] mode

Adjusts color tones according to the surrounding light conditions. Use this function if image color appears unnatural.

1. MENU →  AUTO (White Balance) → desired mode

	 (Auto)	Adjusts the white balance automatically so that the colors appear natural.
	 (Daylight)	Adjusts for outdoors conditions on a fine day, evening views, night scenes, neon signs, fireworks, etc.
	 (Cloudy)	Adjusts for a cloudy sky or a shady location.
	 (Fluorescent White Balance 1)  (Fluorescent White Balance 2)  (Fluorescent White Balance 3)	[Fluorescent White Balance 1]: Adjusts for white fluorescent lighting. [Fluorescent White Balance 2]: Adjusts for natural white fluorescent lighting. [Fluorescent White Balance 3]: Adjusts for day white fluorescent lighting.
	 (Incandescent)	Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.
	 (Flash)	Adjusts for the flash conditions.
	 (One Push)	Adjusts the white balance depending on the light source. The white color memorized in [One Push Set] mode becomes the basic white color. Use this mode when [Auto] and other settings don't provide accurate colors.
	 (One Push Set)	Memorizes the basic white color which will be used in [One Push] mode. [Details]



Effects of lighting conditions

The apparent color of the subject is affected by the lighting conditions.

The color tones are adjusted automatically, but you can adjust color tones manually using the White Balance function.



Daylight (White as Standard)



Cloudy (Bluish)



Fluorescent (Green-tinged)





Incandescent (Reddish)


Notes

- Under fluorescent lights that flicker, the white balance function may not work correctly even though you select [Fluorescent White Balance 1], [Fluorescent White Balance 2] or [Fluorescent White Balance 3].
- When shooting with a flash in other than [Flash] mode, [White Balance] is set to [Auto].
- When [Flash] is [On] or [Slow Synchro], the white balance can only be adjusted to [Auto], [Flash], [One Push] or [One Push Set].
- [One Push Set] cannot be selected while charging the flash.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

To capture the basic white color in [One Push Set] mode

1. Frame a white object such as a piece of paper filling the screen under the same lighting conditions as you will shoot the subject.
 2. MENU →  (White Balance) → [One Push Set] →  on the control button
- The screen momentarily turns black, and when the white balance has been adjusted and stored in the memory, the recording screen is displayed again.

Notes

- If the  indicator flashes while shooting, the white balance is either not set or cannot be set. Use automatic white balance.
- Do not shake or strike the camera while [One Push Set] is in progress.
- When flash mode is set to [On] or [Slow Synchro], the white balance is adjusted to the condition with the flash emitting.


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FOCUS

▼ [Focusing on subjects near the edge of the screen](#)

You can change the focus method. Use the menu when it is difficult to get the proper focus in auto focus mode.
AF stands for “Auto Focus,” a function that adjusts the focus automatically.
The selected AF range finder frame appears on the screen.

1. MENU →  (Focus) → desired mode

	 (Multi AF)	<p>Focuses on a subject in all ranges of the finder frame automatically. 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.</p>  <ul style="list-style-type: none">• When the Face Detection function is active, AF operates with priority on faces.
	 (Center AF)	<p>Focuses on a subject in the center of the finder frame automatically. Using the AF lock function together, you can compose the image the way you want.</p> 
	 (Spot AF)	<p>Focuses on an extremely small subject or a narrow area automatically. Using the AF lock function together, you can compose the image the way you want.</p>  <ul style="list-style-type: none">• Hold the camera steady so as not to misalign the subject and the AF range finder frame.

Notes

- When you use [Digital Zoom] or [AF Illuminator], the AF range finder frame is disabled and appears in a dotted line. In this case, the camera works to focus on the subjects at the center of the screen.
- When the focus mode is set to other than [Multi AF], you cannot use the Face Detection function.

- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

| Focusing on subjects near the edge of the screen

If the subject is out of focus, do as follows:



1. Recompose the shot so that the subject is centered in the AF range finder (A), and press the shutter button halfway to focus on the subject (AF lock).
2. When the AE/AF lock indicator (B) stops flashing and remains on, return to the fully composed shot, and press the shutter button fully down.
 - As long as you do not press the shutter button fully down, you can retry the procedure as many times as necessary.

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Metering Mode

Selects the metering mode that sets which part of the subject to measure to determine the exposure.

1. MENU →  (Metering Mode) → desired mode

	 (Multi)	Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).
	 (Center)	Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).
	 (Spot)	Align the spot metering cross hairs on the subject to meter one part of the subject (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background. 

Notes

- In Movie Mode, [Spot] cannot be selected.
- If you set [Metering Mode] to other than [Multi], the Face Detection function cannot be used.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

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Scene Recognition

▼ Advanced mode

The camera automatically detects shooting conditions, and then takes the shot. When a motion is detected, the ISO sensitivity is increased according to the movement to reduce subject blur (Motion Detection).



The camera recognizes the following types of scenes. When the camera determines the optimal scene, it displays the corresponding icon and guide.

☾ (Twilight), 👤 (Twilight Portrait), 📷 (Twilight using a tripod), 🌅 (Backlight), 🌅👤 (Backlight Portrait), 🏞️ (Landscape), 🌸 (Macro), 🧑 (Portrait)






- 1. Set the mode dial to 📷 (Intelligent Auto).
- 2. MENU → iSCN (Scene Recognition) → desired mode






✓	iSCN (Auto)	When the camera recognizes the scene, it switches to the optimal settings and shoots the image.
	iSCN+ (Advanced)	<p>When the camera recognizes the scene, it switches to the optimal settings. When the camera recognizes ☾ (Twilight), 👤 (Twilight Portrait), 📷 (Twilight using a tripod), 🌅 (Backlight) or 🌅👤 (Backlight Portrait), it automatically changes the setting and shoots another image.</p> <ul style="list-style-type: none">• When you shoot two images consecutively, the + mark on the iSCN+ icon will turn green.• When two frames are shot, the two images are displayed side by side immediately after shooting.• When [Anti Blink] is displayed, 2 images are taken automatically and the image with the eyes open is selected automatically. [Details]

Notes

- Scene Recognition function does not operate when you shoot images using digital zoom.
- The available flash settings are [Auto] and [Off].
- 📷 (Twilight using a tripod) scenes sometimes cannot be recognized in an environment where vibrations are transferred to the camera even though it is fixed on a tripod.
- Sometimes a slow shutter results when a scene is recognized as a 📷 (Twilight using a tripod). Keep the camera still during shooting.
- These scenes may not be recognized depending on the situation.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

Advanced mode


In [Advanced] mode, the camera shoots two images consecutively with the settings differing as follows when it recognizes  (Twilight),  (Twilight Portrait),  (Twilight using a tripod),  (Backlight) or  (Backlight Portrait) scenes, which tends to blur. You can select the desired image from the two images shot.

	First Image*	Second Image
	Shoots in Slow Synchro	Shoots with sensitivity increased and shake reduced
	Shoots in Slow Synchro	Shoots with even slower shutter speed without increasing sensitivity
	Shoots in Slow Synchro with the face which the flash strobes on as guide	Shoots with sensitivity increased with the face as guide and shake reduced
	Shoots with the flash	Shoots with the brightness and contrast of the background adjusted (DRO plus)
	Shoots with the face which the flash strobes on as guide	Shoots with the brightness and contrast of the face and the background adjusted (DRO plus)

* When [Flash] is set to [Auto].



What is the Anti Blink function?

When set to [Advanced], the camera automatically shoots two images consecutively* when it recognizes  (Portrait). The camera will select, display, and record the image which the eyes are not blinked automatically. If the eyes are closed in both images, the message "Blinked eye detected" is displayed.

* except when the flash strobes/when the shutter speed is slow

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Soft Skin Effect

When the Face Detection function is activated, sets whether to use the Soft Skin effect, and the effect level.

1. MENU →  (Soft Skin Effect) → desired mode

	 (Off)	Does not use the Soft Skin Effect.
	 (Low)	Adds light Soft Skin Effect.
	 (Mid)	Adds moderate Soft Skin Effect.
	 (High)	Adds strong Soft Skin Effect.

Notes

- The [Soft Skin Effect] may not be visible depending on the subject.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

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Smile Detection Sensitivity

Sets the sensitivity of the Smile Shutter function for detecting smiles.

1. MENU →  (Smile Detection Sensitivity) → desired mode

	 (Big Smile)	Detects a big smile.
	 (Normal Smile)	Detects a normal smile.
	 (Slight Smile)	Detects even a slight smile.

Notes

- Smiles may not be detected correctly depending on the conditions.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [\[Details\]](#)

Related Topic

[Smile Shutter](#)

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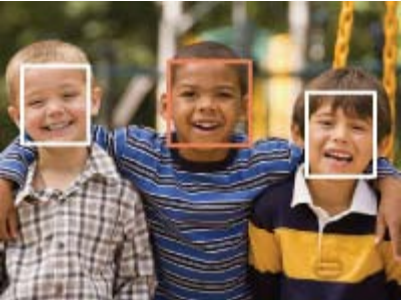
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Face Detection





▼ Selecting the priority face (Tracking focus)

When the Face Detection function is used, the camera detects the faces of your subjects and adjusts the focus, flash, exposure, white balance and red-eye reduction settings automatically.



When the camera detects more than one subject, the camera will judge which is the main subject and set focus by priority. The Face Detection frame for the main subject will turn orange. The frame for which the focus is set will turn green by pressing the shutter button halfway down.

1. MENU →  (Face Detection) → desired mode

	[OFF] (Off)	Cannot use Face Detection.
	[AUTO] (Auto)	Selects the face the camera is to automatically focus on.
	[Child Priority]	Detects and shoots with priority on child's face.
	[Adult Priority]	Detects and shoots with priority on adult's face.


Notes

- [Off] is not available when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- You can select [Face Detection] only when the focus mode is set to [Multi AF] and the [Metering Mode] is set to [Multi].
- The Face Detection function does not work when using the digital zoom.
- Up to 8 faces of your subjects can be detected.
- Adults and children may not be recognized correctly depending on the conditions.
- During Smile Shutter shooting, [Face Detection] is automatically set to [Auto] even if it is set to [Off].
- You may not be able to set some MENU items depending on the selected REC mode. For details, see "MENU items not available in some REC modes." [\[Details\]](#)

Selecting the priority face (Tracking focus)

Normally the camera automatically selects the face to focus on according to the [Face Detection] setting, but you can also select a face to be given priority.



1. Press ● on the control button during Face Detection.
The target frame appears.
 2. Place the target frame over the detected face, and press ● .
The frame changes to an orange-colored .
 3. To cancel face priority, press ● again.
- It may not be possible to detect the selected face correctly depending on the surrounding brightness, the subject's hairstyle, etc. In this case, select the face again under the conditions where the image will be shot.
 - When the Smile Shutter function is used with the Face Detection frame selected, Smile Detection is performed only on the selected face.
 - In Easy Mode or when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People], you cannot select a priority face.

Related Topic

[Anti Blink](#)

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DRO

In Program Auto or Manual Exposure Shooting mode, the camera analyzes the shooting scene and automatically corrects the brightness and contrast to improve the image quality. DRO stands for “Dynamic Range Optimizer,” a function that automatically optimizes the difference between light and dark parts of an image.

1. MENU →  (DRO) → desired mode

	(Off)	Does not adjust.
	(DRO standard)	Adjusts the brightness and contrast of the images automatically.
	(DRO plus)	Adjusts image brightness and contrast automatically and strongly.

Notes



- Depending on shooting conditions, it may not be possible to obtain correction effects.
- Only [ISO AUTO] or values from [ISO 80] to [ISO 800] can be set for the ISO value when [DRO plus] is set.

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Anti Blink

When Scene Selection is set to  (Soft Skin) or  (Soft Snap) and the subject blinks while you are shooting an image, the camera automatically shoots two images consecutively. The camera will select, display and record the image which the eyes are not blinked automatically.

1. MENU →  (Anti Blink) → desired mode

	 (Auto)	When Face Detection is active, the Anti Blink function operates so that images with the subject's eyes open are recorded.
	 (Off)	Does not use the Anti Blink function.

Notes

- Anti Blink does not function in the following situations:
 - When using the flash
 - During burst shooting
 - When the Face Detection function does not work
 - When the Smile Shutter function is activated
- Sometimes the Anti Blink function does not work depending on the situation.
- When the Anti Blink function is set to [Auto] but only images with the subject's eyes closed are recorded, the message "Blinked eye detected" is displayed on the LCD screen. Shoot again as necessary.

Related Topic

[Scene Selection](#)



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SteadyShot

In Movie Mode, you can vary the strength of SteadyShot.

1. Set the mode dial to  (Movie Mode).
2. MENU →  (SteadyShot) → desired mode

	 (Standard)	Provides the SteadyShot effect under stable recording conditions.
	 (Active)	Provides a more powerful SteadyShot effect.

Related Topic

[Shooting movies](#)

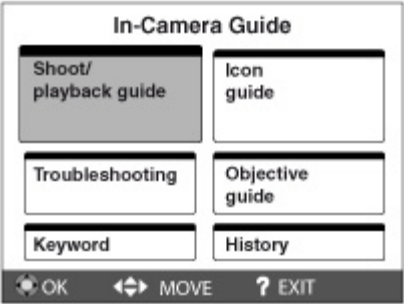
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In-Camera Guide

This camera contains an internal function guide. This allows you to search the camera's functions according to your needs.
You can use the selected function after reading the guide.



1. MENU → ? (In-Camera Guide)
2. Select a search method from [In-Camera Guide].




Search method	Description
Shoot/playback guide	Search for various operation functions in shooting/viewing mode.
Icon guide	Search the function and meaning of displayed icons.
Troubleshooting	Search common problems and their solution.
Objective guide	Search functions according to your needs.
Keyword	Search functions by key words.
History	Display the last 12 items displayed in [In-Camera Guide].


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MENU items not available in some REC modes

In the table below, ✓ indicates settings that can be changed, while — indicates settings that cannot be changed. The icons below **SCN** indicate the available modes. A setting may be fixed or restricted depending on the shooting mode. For details, see each topic.

Mode dial	i	P	SCN	M		
Menu items						
Scene Selection	—	—	✓	—	—	—
Easy Mode	✓	—	—	—	—	—
Shooting Direction	—	—	—	—	✓	—
Image Size/Panorama Image Size	✓	✓	✓	✓	✓	✓
Burst Settings	✓	✓	     	✓	—	—
Bracket Setting	—	✓	     	✓	—	—
EV	✓	✓	✓	—	✓	✓
ISO	—	✓		✓	—	—
White Balance* ¹	—	✓	   	✓	✓	✓
Focus	—	✓	—	✓	✓	—
Metering Mode	—	✓	—	✓	✓	✓
Scene Recognition	✓	—	—	—	—	—
Soft Skin Effect* ²	—	—	  	—	—	—
Smile Detection Sensitivity	✓	✓	    	✓	—	—
Face Detection* ³	✓	✓	    	✓	—	—
DRO	—	✓	—	✓	—	—
Anti Blink	—	—	 	—	—	—
SteadyShot	—	—	—	—	—	✓
In-Camera Guide	✓	✓	✓	✓	✓	✓
 (Settings)	✓	✓	✓	✓	✓	✓

*¹ [Flash] for [White Balance] cannot be selected when Scene Selection is set to  (High Sensitivity) mode.

*² [Off] for [Soft Skin Effect] cannot be selected when Scene Selection is set to  (Soft Skin) mode.

*³ [Off] for [Face Detection] cannot be selected when Scene Selection is set to  (Soft Skin) or  (Soft Skin).

Snap) mode.

Note

- Only the items that are available for each mode are displayed on the screen.


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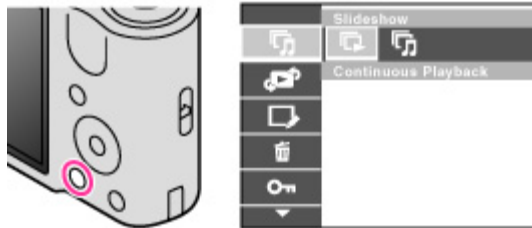
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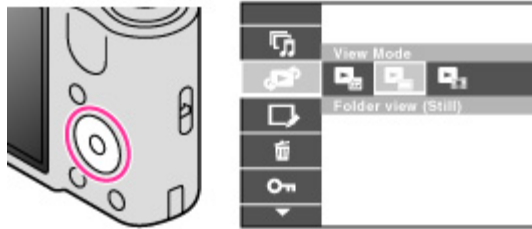
Using MENU items (Viewing)


You can select the various viewing functions easily from the MENU button.

1. Press the  (Playback) button to switch to playback mode.
2. Press the MENU button to display the Menu screen.



3. Select the desired menu item with  /  /  /  on the control button.



4. Press  on the control button.

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Slideshow

▼ Continuous Playback


▼ Slideshow with music

Images are automatically played back in succession.

1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (Slideshow) → desired slideshow → ● on the control button

 (Continuous Playback)	Plays back all the images in succession from the displayed image to the very last image.
 (Slideshow with music)	Plays back still images in succession along with effects and music.

Continuous Playback

1. Select the desired image for playing with the control button.
2. MENU →  (Slideshow) → [Continuous Playback] → ●

Control button	Action
●	Stop
▲	Sets the display settings.
▼	Displays the volume control screen. • Adjust the volume with ▲ / ▼ on the control button, then press ●.
◀	Rewinds image.
▶	Forwards image.





Viewing panoramic images during continuous playback

The whole panoramic image is displayed for 3 seconds.

You can scroll a panoramic image by pressing ●.


Slideshow with music

1. MENU →  (Slideshow) → [Slideshow with music] → ●
Displays the setting screen.
2. Select a desired setting.
3. [Start] → ●

4. Press  to end the slideshow.


Note





- [Slideshow with music] is not available for movies and panorama images.


Image Selects the group of images to be shown.		
	All	Plays a slideshow of all the images in order.
	This Date	Plays a slideshow of images with the currently selected date range when [View Mode] is [Date View].
	Folder	Plays a slideshow of images in the currently selected folder in Folder View.

Note

- The setting is fixed to [Folder] when the internal memory is used to record images.

Effects Selects the playback speed and mood for slideshows.		
	Simple	A simple slideshow switching images at a preset interval. The playback interval is adjustable in [Interval] and you can thoroughly enjoy your images.
	Nostalgic	A moody slideshow reproducing the atmosphere of a movie scene.
	Stylish	A stylish slideshow proceeding at a middle tempo.
	Active	A high-tempo slideshow suitable for active scene.

Music Specifies the music to be played during slideshows. You can select more than one background music track. Press  on the control button to display the volume control screen, then press  /  to adjust the volume.		
	Music1	The default setting for a [Simple] slideshow.
	Music2	The default setting for a [Nostalgic] slideshow.
	Music3	The default setting for a [Stylish] slideshow.
	Music4	The default setting for a [Active] slideshow.
	Mute	Does not use BGM.

Interval Sets the screen switching interval. The setting is fixed to [Auto] when [Simple] is not selected as the [Effects].		
	1 sec	Sets the display interval of images for a [Simple] slideshow.
	3 sec	
	5 sec	

	10 sec	
	Auto	The interval is set to suit the selected [Effects] item.

Repeat Turns slideshow repeat on or off.		
<input checked="" type="checkbox"/>	On	Plays back images in a continuous loop.
<input type="checkbox"/>	Off	After all the images have been played back, the slideshow ends.

Selecting background music

You can transfer a desired music file from your CDs or MP3 files to the camera to play back during slideshow. To transfer music, install the “Music Transfer” software (supplied) to your computer. [\[Details\]](#)

- You can record up to four pieces of music on the camera. (The 4 preset pieces (Music1 – Music4) can be replaced with the ones you transferred.)
- The maximum length of each music file for music playback of the camera is about 5 minutes.
- If you cannot play back a music file due to damage or other malfunctions of the file, execute [Empty Music] [\[Details\]](#) and transfer the music again.

Related Topic

[“Music Transfer”](#)

[Installing “PMB” and “Music Transfer” \(Windows\)](#)

[Installing “Music Transfer” \(Macintosh\)](#)

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Send by TransferJet

▼ Receiving images using TransferJet





▼ Using TransferJet-compatible devices (sold separately)

TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other.







To find out whether your camera is equipped with the TransferJet function, check for the  (TransferJet) mark on the bottom of the camera.

Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.




For more details on TransferJet, see the operating instructions supplied with Memory Stick with TransferJet.

1. Insert a Memory Stick with TransferJet into the camera.
2. Press the  (Playback) button.
3. MENU →  (Send by TransferJet) → desired mode →  on the control button
4. Transfer images by closely aligning the  (TransferJet) marks on the camera and other device.



A notification sound is emitted when connection is made.

 (This Image)	Sends the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and send multiple images.</p> <p>After step 2, perform the following.</p> <p>① Select an image then press  .</p> <p>Repeat the above step until there are no more images to be sent. Select an image with a  mark to release the  mark.</p> <p>② MENU → [OK] → </p>


Notes

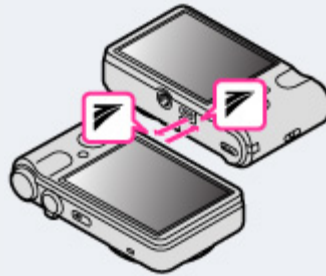
- Only still images can be transferred.
- Up to 10 images can be transferred at once.
- Set [TransferJet] to [On] in  (Settings). [\[Details\]](#)
- On an airplane, set [TransferJet] to [Off] in  (Settings) [\[Details\]](#). In addition, follow the rules of the place where you use.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and realign the two  (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some countries and regions due to local laws and regulations.
- Set the [TransferJet] function to [Off] in countries and regions other than where you purchased your camera. Depending on the country or region, if you use the TransferJet function, you may be liable due to local restrictions on transmission of electromagnetic waves.



Receiving images using TransferJet

1. Press the  (Playback) button to switch to playback mode.
2. Closely align the  (TransferJet) marks on the camera and sending device to receive images.
A notification sound is emitted when connection is made.

 Tips for sending and receiving data successfully

Closely align the  (TransferJet) mark on the camera and other device.



- The transfer rate and range differ depending on the angle at which the  (TransferJet) marks are aligned.
- It may be necessary to alter the position/angle of the camera until communication can be obtained.
- Sending and receiving data is easier if the  (TransferJet) marks are aligned with both cameras parallel to each other as shown in the figure.



Notes

- Only images that can be played back on the camera can be sent or received.
- If an Image Database File error occurs during saving, a Recover Image Database File screen will appear.
- Play images that cannot be registered in the Image Database File using [Folder view (Still)].

Using TransferJet-compatible devices (sold separately)

Using TransferJet-compatible devices (sold separately) allows you to transfer images to a PC and can broaden your enjoyment of transferring data.

For details, see the operating instructions supplied with your TransferJet-compatible device.

- Note the following points when using TransferJet-compatible devices.
 - Before use, set the camera to playback mode.
 - If no image is displayed, press MENU →  (Settings) →  (Main Settings) → [LUN Setting] → [Single].
 - While connected, data cannot be written to or deleted from the camera.
 - Do not disconnect while importing images to “PMB”.

Related Topic

[TransferJet](#)

[TransferJet standard](#)



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View Mode

Allows you to select the display format for images.




1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (View Mode) → desired mode → ● on the control button

	 (Date View)	Displays images by date.
	 (Folder view (Still))	Displays still images.
	 (Folder view (Movie))	Displays movies.

Note

- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

Displaying the Calendar

1. MENU →  (View Mode) → [Date View] → ●
2. Turn the W/T (zoom) lever to W side () repeatedly until the Calendar is displayed.
Use the control button to select , then select the month you want to display. Select the date and press ● to view images of the selected date in index mode.

Viewing images taken with a different camera

This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message “Files found which were not recognized Import files” will be displayed.

To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to transfer all of the data or the data may be corrupted if the battery charge runs out.



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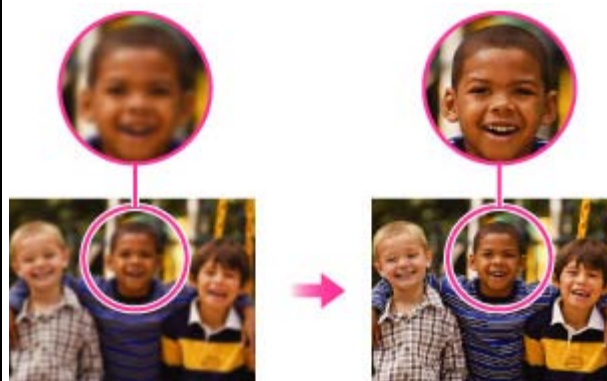
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Retouch

Retouches a recorded image and saves it as a new file. The original image is retained.

1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (Retouch) → desired mode → ● on the control button
3. Perform retouching according to the operation method in each mode.

 (Trimming (Resize))	<p>Records the zoomed playback image.</p>  <ol style="list-style-type: none">① Turn the W/T (zoom) lever to the T side () to zoom in and to the W side () to zoom out.② Set the zoom point with the control button.③ MENU → select an image size to save → ●④ [OK] → ● <ul style="list-style-type: none">• The quality of trimmed images may deteriorate.• The image size that you can trim may vary depending on the image.
 (Red Eye Correction)	<p>Corrects the red-eye phenomenon caused by flash.</p>  <p>Select [OK] with the control button → ● .</p> <ul style="list-style-type: none">• You may not be able to correct the red-eye phenomenon depending on the image.
 (Unsharp masking)	<p>Sharpens the image within a chosen frame.</p>



① Select the area (frame) of the desired image to retouch with the control button → MENU.

② [OK] → ●

- Depending on the image, sufficient correction may not be applied and the image quality may deteriorate.

Note


- You cannot retouch the panorama images or movies.



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Delete

Allows you to select unwanted images for deletion. You can also delete images using the  (Delete) button. [\[Details\]](#)

1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (Delete) → desired mode → ● on the control button
3. [OK] → ●

 (This Image)	Deletes the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and delete multiple images. Do as the following after step 2.</p> <p>① Select an image then press ● . Repeat the above steps until there are no more images to be deleted. Select an image with a ✓ mark to release the ✓ mark.</p> <p>② MENU → [OK] → ●</p>
 (All Images on This Date)  (All in This Folder)	Deletes all images in the selected date range or folder at once.

Notes

- In Easy Mode, you can select from [1 image] or [All].
- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.


Related Topic




[Delete button](#)[▲ Back to top](#)







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Protect

Protects recorded images against accidental erasure.
The  mark is displayed for registered images.



1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (Protect) → desired mode →  on the control button

 (This Image)	Protects the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and protect multiple images. Do as the following after step 2.</p> <p>① Select an image then press  . Repeat the above steps until there are no more images to be protected. Select an image with a  mark to release the  mark.</p> <p>② MENU → [OK] → </p>

Note

- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

To cancel the protection

Select the image for which you want to cancel protection, and unlock it by pressing  on the control button as the same procedure to protect it.
The  indicator disappears, and the protection is released.

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DPOF

▼ Clearing the DPOF mark

DPOF (Digital Print Order Format) is a function that allows you to specify the images of the memory card that you want to print out later.

The **DPOF** (Print order) mark is displayed for registered images.


1. Press the  (Playback) button to switch to playback mode.
2. MENU → **DPOF** → desired mode →  on the control button

 (This Image)	Orders printing the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and order printing multiple images. Do as the following, after step 2.</p> <p>① Select an image then press  . Repeat the above steps until there are no more images to be printed. Select an image with a  mark to release the  mark.</p> <p>② MENU → [OK] → </p>

Notes

- The **DPOF** (Print order) mark cannot be added to the following images:
 - Movies
 - Images in the internal memory
- You can add a **DPOF** (Print order) mark to a maximum 999 images.

Clearing the DPOF mark

Select the image to clear the DPOF registration, then press  on the control button in the same procedure as when making a **DPOF** mark.

The **DPOF** mark disappears and the DPOF registration is cleared.

Related Topic
[Printing still images](#)

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



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Rotate

Rotates a still image. Use this to display a horizontal orientation image in vertical orientation.



1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (Rotate) →  on the control button
3. Rotate the image with [ / ] →  / .
4. [OK] → 

Notes

- You cannot rotate the following images:
 - Movies
 - Protected still images
- You may not be able to rotate images shot with other cameras.
- When viewing images on a computer, the image rotation information may not be reflected depending on the software.




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Select Folder

When multiple folders are created in a memory card, this selects the folder containing the image you want to play back.

1. Press the  (Playback) button to switch to playback mode.
2. MENU →  (View Mode) → [Folder view (Still)] or [Folder view (Movie)] → ● on the control button
3. MENU →  (Select Folder) → ● on the control button
4. Select the folder with ◀ / ▶ .
5. [OK] → ●



Viewing images across multiple folders

When multiple folders are created, the following indicators appear on the first and last images in the folder.



: Moves to the previous folder



: Moves to the next folder



: Moves to either the previous or next folders

Note

- This item is not displayed when the internal memory is used to record images.

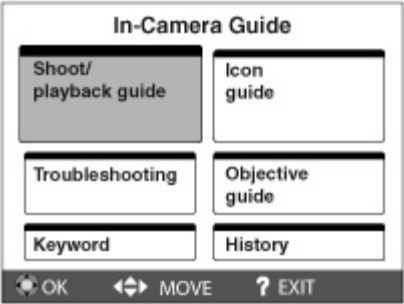
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In-Camera Guide

This camera contains an internal function guide. This allows you to search the camera's functions according to your needs.
You can use the selected function after reading the guide.



1. MENU → ? (In-Camera Guide)
2. Select a search method from [In-Camera Guide].














Search method	Description
Shoot/playback guide	Search for various operation functions in shooting/viewing mode.
Icon guide	Search the function and meaning of displayed icons.
Troubleshooting	Search common problems and their solution.
Objective guide	Search functions according to your needs.
Keyword	Search functions by key words.
History	Display the last 12 items displayed in [In-Camera Guide].

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MENU items that cannot be set according to recording media

In the table below, ✓ indicates a user-changeable function, while — indicates an unchangeable one.


View Mode	Memory card			Internal Memory
Menu items	 Date View	 Folder view (Still)	 Folder view (Movie)	Folder View
 (Slideshow)	✓	✓	—	✓
 (Send by TransferJet)	✓	✓	—	—
 (View Mode)	✓	✓	✓	—
 (Retouch)	✓	✓	—	✓
 (Delete)	✓	✓	✓	✓
 (Protect)	✓	✓	✓	✓
DPOF	✓	✓	—	—
 (Rotate)	✓	✓	—	✓
 (Select Folder)	—	✓	✓	—
 (In-Camera Guide)	✓	✓	✓	✓
 (Settings)	✓	✓	✓	✓

Note

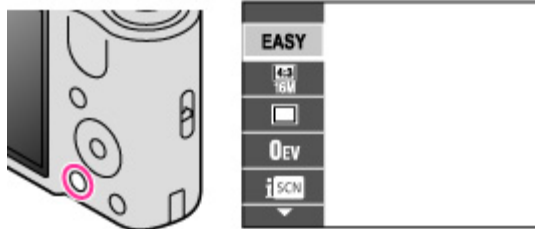
- Only the items that are available for each mode are displayed on the screen.




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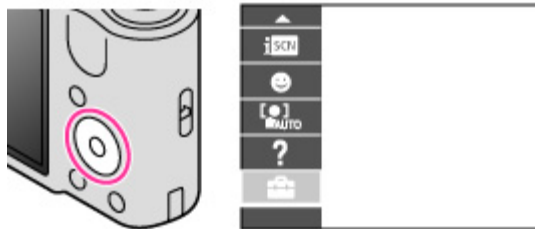
Changing camera settings

You can change the settings on the  (Settings) screen.

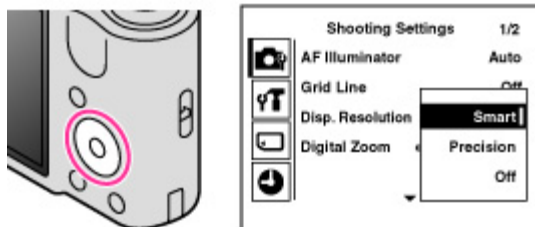
1. Press the MENU button to display the Menu screen.




2. Select  (Settings) with  on the control button, then press  on the control button to display the setup screen.



3. Select the desired category using  /  /  /  , then press  to display the setup screen.



4. Select the desired setting, then press .

Notes

- [Shooting Settings] appears only when settings have been entered from shooting mode.
- [Memory Card Tool] appears only when a memory card is inserted in the camera, while [Internal Memory Tool] appears only when a memory card is not inserted.


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




AF Illuminator

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The AF illuminator emits red light allowing the camera to focus easily when the shutter button is pressed halfway, until the focus is locked. The ON indicator appears at this time.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [AF Illuminator] → desired mode
→ ●

	Auto	Uses the AF illuminator.
	Off	Does not use the AF illuminator.

Notes

- 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 the AF illuminator in the following situations:
 - In Sweep Panorama mode
 - When  (Landscape),  (Twilight),  (Pet),  (Fireworks) or  (Advanced Sports Shooting) mode is selected in Scene Selection.
 - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- When you use the AF illuminator, the normal AF range finder frame is disabled and a new AF range finder frame is displayed by a dotted line. AF operates with priority on subjects located near the center of the frame.
- The AF illuminator emits very bright light. Although there is no health hazard, do not look directly into the AF illuminator emitter at close range.



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Grid Line

With reference to the grid lines, you can easily set a subject in a horizontal/vertical position.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Grid Line] → desired mode →



<input type="checkbox"/>	On	Displays the grid lines. The grid lines are not recorded.
<input checked="" type="checkbox"/>	Off	Does not display the grid lines.




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Disp. Resolution

Selects the display quality on the LCD screen for shooting.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Disp. Resolution] → desired mode → 

	High	Displays a high-quality image for shooting.
	Standard	Displays a standard-quality image for shooting.

Notes

- The battery charge is used up more quickly when [Disp. Resolution] is set to [High].
- In Sweep Panorama and Movie Mode, [Disp. Resolution] is set to [High].



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Digital Zoom

▼ Total zoom scale when using Smart zoom (including optical zoom 10×)

Selects the digital zoom mode. The camera enlarges the image using optical zoom (up to 10×). When the zoom scale is exceeded, the camera uses either smart or precision digital zoom.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Digital Zoom] → desired mode
→ ●

	Smart (S _Q)	Enlarges the image digitally within the range where the image will not be distorted, according to the image size (Smart zoom).
	Precision (P _Q)	Enlarges all image sizes by the total zoom scale of approximately 20×, including the optical zoom 10×. However, note that the image quality deteriorates when the optical zoom scale is exceeded (Precision digital zoom).
	Off	Does not use the digital zoom.

Notes

- The Digital Zoom function does not operate in the following situations:
 - In Sweep Panorama mode
 - When Scene Selection is set to  (Advanced Sports Shooting)
 - In Movie Mode
 - When the Smile Shutter function is activated.
 - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- The smart zoom is not available when the image size is set to [16M] or [16:9(12M)].
- The Face Detection function does not work when using the digital zoom.

Total zoom scale when using Smart zoom (including optical zoom 10×)

The supported zoom ratio differs depending on the image size.




Size	Total zoom scale
10M	Approx. 12×
5M	Approx. 17×
VGA	Approx. 72×
16:9(2M)	Approx. 24×


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Auto Orientation

When the camera is rotated to shoot a portrait (vertical) image, the camera records its position change and displays the image in the portrait position.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Auto Orientation] → desired mode → 

	On	Records the image with the correct orientation.
	Off	Does not use Auto Orientation.



Rotating images after recording

If the orientation of an image is incorrect, you can use the [Rotate] on the Menu screen to display the image in portrait position.

Notes

- Black is displayed to the left and right of vertical orientation images.
- Depending on the shooting angle of the camera, the orientation of the image may not be recorded correctly.
- You cannot use [Auto Orientation] in Movie Mode.



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Red Eye Reduction

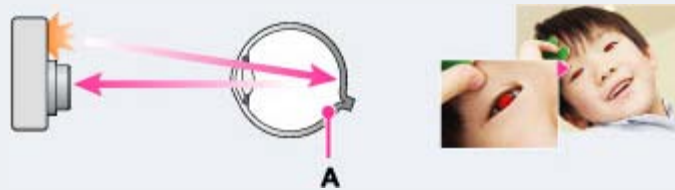
The flash strobos two or more times before shooting to reduce the red-eye phenomenon when using the flash.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Red Eye Reduction] → desired mode → ●


	Auto	When the Face Detection function is activated, the flash strobos automatically to reduce the red-eye phenomenon.
	On	The flash always strobos to reduce the red-eye phenomenon.
	Off	Does not use Red Eye Reduction.

What causes the red-eye phenomenon?


Pupils become dilated in dark environments. Flash light is reflected off the blood vessels at the back of the eye (retina) (A), causing the “red-eye” phenomenon.



Other ways to reduce red-eye

- Select  (High Sensitivity) mode in Scene Selection. (The flash is set to [Off] automatically.)
- When the eyes of the subject turn out red, correct the image with [Retouch] → [Red Eye Correction] on the viewing menu or with the supplied software “PMB”.

Notes




- To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second until the shutter is released, and also be sure not to allow the subject to move during this period.
- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or if the subject looked away from the pre-strobe.
- If you do not use the Face Detection function, Red Eye Reduction does not work, even when you select [Auto].
- [Red Eye Reduction] is set to [Off] in the following situations:
 - When  (High Sensitivity) mode is selected in Scene Selection.
 - When Smile Shutter function is activated.

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Blink Alert

When an image with the subject's eyes closed is recorded while Face Detection is activated, the message "Blinked eye detected" is displayed.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Blink Alert] → desired mode → 

<input checked="" type="checkbox"/>	Auto	Displays the "Blinked eye detected" message.
<input type="checkbox"/>	Off	Does not display the message.


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Beep

Selects the sound produced when you operate the camera.

1. MENU →  (Settings) →  (Main Settings) → [Beep] → desired mode → ●



	Shutter	Turns on the shutter sound when you press the shutter button.
	High	Turns on the beep/shutter sound when you press the control/shutter button. If you want to lower the beep volume, select [Low].
	Low	
	Off	Turns off the beep/shutter sound.

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Language Setting

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

1. MENU →  (Settings) →  (Main Settings) → [Language Setting] → desired mode
→ ●



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Function Guide

You can select whether or not the function guide is displayed when you operate the camera.

1 . MENU →  (Settings) →  (Main Settings) → [Function Guide] → desired mode
→ ●

<input checked="" type="checkbox"/>	On	Displays the function guide.
<input type="checkbox"/>	Off	Does not display the function guide.




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Display color

Sets the color of the screen display.

1 . MENU →  (Settings) →  (Main Settings) → [Display color] → desired mode → 

<input checked="" type="checkbox"/>	Black	Sets the background color of the LCD screen.
<input type="checkbox"/>	White	
<input type="checkbox"/>	Pink	




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Demo Mode

You can set whether to use a demonstration of Smile Shutter or other functions. When there is no need to view a demonstration, set to [Off].

1. MENU →  (Settings) →  (Main Settings) → [Demo Mode] → desired mode →  on the control button

	Demo Mode1	A demonstration of the shooting functions will be performed.
	Demo Mode2	Automatically starts the Smile Shutter demonstration when no operation is performed for 15 seconds.
	Off	Does not perform a demonstration.

Notes

- Pressing the shutter button during the Smile Shutter demonstration operates the shutter, but no image is recorded.
- During a demonstration, if the number of images saved in the internal memory increases, the camera may automatically delete the images.




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Initialize

Initializes the setting to the default setting.

Even if you execute this function, the images are retained.

1. MENU →  (Settings) →  (Main Settings) → [Initialize] → [OK] → 

Note

- Be sure not to turn off the camera while initializing.




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COMPONENT

Selects the video signal output type from either SD or HD (1080i) in accordance with the type of TV you connect to the camera using an HD Output Adaptor Cable (sold separately).
Use a Type3a-compliant HD Output Adaptor Cable (sold separately).

1. MENU →  (Settings) →  (Main Settings) → [COMPONENT] → desired mode → 

	HD(1080i)	Select this item to connect the camera to a 1080i-capable High Definition TV.
	SD	Select this item to connect the camera to a TV that is not compatible with an HD(1080i) signal.

Note

- When you shoot movies while the camera and a TV are connected using an HD Output Adaptor Cable (sold separately), the image being shot is not displayed on the TV.

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Video Out

Sets the video signal output according to the TV color system of the connected video equipment. The TV color systems differ depending on the country and region.

To view images on a TV screen, check the TV color system of the country or region of use.

[\[Details\]](#)

1. MENU →  (Settings) →  (Main Settings) → [Video Out] → desired mode → 

NTSC	Sets the video output signal to NTSC mode (e.g., for the USA, Japan).
PAL	Sets the video output signal to PAL mode (e.g., for Europe, China).




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USB Connect

Selects the USB mode when connecting the camera to a computer or a USB device using the Cable for multi-use terminal.

1. MENU →  (Settings) →  (Main Settings) → [USB Connect] → desired mode → 

	Mass Storage	Establishes a Mass Storage connection between the camera and a computer or other USB device.
	PTP/MTP	When you connect the camera to a computer, the AutoPlay Wizard appears, and the still images in the recording folder on the camera are imported to the computer. (with Windows 7/Vista/XP, Mac OS X)

Note

- When [USB Connect] is set to [PTP/MTP], you cannot export movies to a computer. To export movies to a computer, set [USB Connect] to [Mass Storage].




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LUN Setting

Sets the display method for the recording media displayed on a computer screen or other monitor when the camera is connected with a computer or AV component using a USB connection.

1. MENU →  (Settings) →  (Main Settings) → [LUN Setting] → desired mode → 

	Multi	The images both on the memory card and in the internal memory are displayed. Select this setting when you connect the camera to a computer.
	Single	When the memory card is inserted into the camera, the images on the memory card are displayed; when it is not inserted, the images in the internal memory are displayed. Select this setting in cases where the images of both the memory card and the internal memory are not displayed when the camera is connected to a device other than a computer.

Note

- Set [LUN Setting] to [Multi] when uploading images to a media service using “PMB Portable”.

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Download Music

You can use “Music Transfer” in the CD-ROM (supplied) to change background music tracks.

1. MENU →  (Settings) →  (Main Settings) → [Download Music] → ●

The message “Connect to PC” is displayed.

2. Make a USB connection between the camera and a computer, then start “Music Transfer”.

3. Follow the instructions on the screen to change music files.

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Empty Music

You can delete all the background music files stored in the camera. It can be used in cases such as when the background music files are damaged and cannot be played.

1. MENU →  (Settings) →  (Main Settings) → [Empty Music] → [OK] → ●

Restoring the music preset at the factory to the camera

You can use “Music Transfer” in the CD-ROM (supplied) to reset music files to the preset ones. For details on using “Music Transfer”, see the help in “Music Transfer”.

1. Execute [Download Music], then make a USB connection between the camera and a computer.
2. Start “Music Transfer”, then restore the default music.




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Power Save

Sets the length of time until the LCD screen goes dark and the time until the camera turns off. If you do not operate the camera for a certain period of time while the power is on using the battery pack, the screen goes dark and the camera later turns off automatically to prevent wearing down the battery pack (Auto power-off function).

1. MENU →  (Settings) →  (Main Settings) → [Power Save] → desired mode → 

	Stamina	Proactively saves the battery power. If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the LCD screen automatically goes dark before the power turns off.
	Standard	If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the LCD screen automatically goes dark before the power turns off. It takes longer before the power turns off than when set to [Stamina].
	Off	Does not use the Auto power-off function.

Note


- The camera does not turn off automatically in the following situations:
 - During slideshow
 - During playing back movies
 - During Eye-Fi connection

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TransferJet

You can select TransferJet communication settings. TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other. To find out whether your camera is equipped with the TransferJet function, check for the  (TransferJet) mark on the bottom of the camera.


Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.

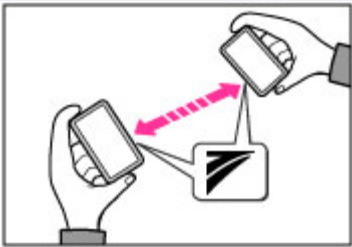
For more details on TransferJet, see the Operating Instructions supplied with Memory Stick with TransferJet.

1. MENU →  (Settings) →  (Main Settings) → [TransferJet] → desired mode →

<input checked="" type="checkbox"/>	On	Communicates using TransferJet.
<input type="checkbox"/>	Off	Does not communicate using TransferJet.


What is TransferJet?

TransferJet allows you to share images by sending and receiving image data. Insert a Memory Stick with TransferJet in your camera and align two  (TransferJet) marks of the camera and another device that supports this function.



For details on image transfer, see [\[Details\]](#).

Notes

- In Easy Mode, [TransferJet] is fixed to [Off].
- While aboard an airplane, set [TransferJet] to [Off]. In addition, always follow all regulations governing the location in which the camera is being used.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and again align two  (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some countries and regions due to local laws and regulations.
- Set the [TransferJet] function to [Off] in countries and regions other than where you purchased your camera. Depending on the country or region, if you use the TransferJet function, you may be liable due to local restrictions on transmission of electromagnetic waves.

Related Topic
[Send by TransferJet](#)
[TransferJet standard](#)

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
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Eye-Fi


▼ Transferring image data using the Eye-Fi card

Sets whether to use the upload function of an Eye-Fi card (commercially available), when you use the Eye-Fi card with this camera. [Eye-Fi] is displayed only when the Eye-Fi card is inserted in the camera.

1. MENU →  (Settings) →  (Main Settings) → [Eye-Fi] → desired mode → ●

	On	Uses the upload function. The Eye-Fi mode display icon on the LCD screen will change depending on the communication mode of the Eye-Fi card.  Eye-Fi card is in standby mode. There is no image to be sent.  Eye-Fi card is in upload standby mode.  Eye-Fi card is in connecting mode.  Eye-Fi card is uploading images.  An error has occurred.
	Off	Does not use the upload function.


Notes


- As of December 2010, Eye-Fi cards are sold in the U.S.A., Canada, Japan and some countries in the European Union.
- For more information on the Eye-Fi card, contact the manufacturer or seller of Eye-Fi cards directly.
- Eye-Fi cards are permitted only in the countries and regions in which they were purchased. You may be held liable due to local restrictions.
- The Eye-Fi card has a wireless LAN function. Do not insert the Eye-Fi card where wireless LAN is prohibited, such as while aboard an airplane. If the Eye-Fi card is inserted, set [Eye-Fi] to [Off]. When the uploading function of the Eye-Fi card is set to [Off],  OFF is displayed on the LCD screen.

Transferring image data using the Eye-Fi card

1. Set the wireless LAN access point settings or the transferring direction settings of the Eye-Fi card.
For details, refer to the operating instructions supplied with the Eye-Fi card.
2. After the settings are finished, insert the Eye-Fi card into the camera, and shoot the images. The recorded images are automatically transferred via the wireless LAN to the PC, etc.

Notes

- When you use a new Eye-Fi card for the first time, copy the install file of the PC application written in the Eye-Fi card first, then format the card.
- Before using the Eye-Fi card, upgrade the firmware of the Eye-Fi card to the latest version. For details on version upgrades, refer to the operating instructions supplied with the Eye-Fi card.
- When uploading image data, [Power Save] is not available.
- If the  (error) icon is displayed, eject and re-insert the Eye-Fi card, or turn the power of

the camera off and on again. If the  (error) icon is still displayed, the Eye-Fi card may be corrupted. For details, contact Eye-Fi, Inc.

- Wireless LAN communication may be interrupted by the other communication devices. If data reception is insufficient, move the camera closer to the access point.
- For details on content that can be uploaded, refer to the operating instructions supplied with the Eye-Fi card.
- Some Eye-Fi cards have an “Endless Memory Mode.” This product does not support “Endless Memory Mode.” Make sure that Eye-Fi cards that you insert into this product have “Endless Memory Mode” turned off. For details on setting “Endless Memory Mode”, refer to the operating instructions supplied with the Eye-Fi card.




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Format

Formats the memory card or the internal memory. When you use a memory card with this camera for the first time, it is recommended to format the card using the camera 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.

1. MENU →  (Settings) →  (Memory Card Tool) or  (Internal Memory Tool) → [Format] → [OK] → ●

Note

- Note that formatting permanently erases all data including even protected images.



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Create REC. Folder

Creates a folder in a memory card for recording images.

Images are recorded in the newly created folder until you create another folder or select another recording folder.

1. MENU →  (Settings) →  (Memory Card Tool) → [Create REC. Folder] → [OK]
→ ●

On the folders

After a new folder is created, you can change the storage destination folder [\[Details\]](#) and select the folder for viewing images. [\[Details\]](#)

Notes

- This item is not displayed when the internal memory is used to record images.
- When you insert a memory card that was used with other equipment into the camera and shoot images, a new folder may be automatically created.
- Up to 4,000 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.

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





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Change REC. Folder

Changes the folder in the memory card that is currently used for recording images.

1. MENU →  (Settings) →  (Memory Card Tool) → [Change REC. Folder]
2. Select a folder with ◀ / ▶ on the control button.
3. [OK] → ●

Notes

- This item is not displayed when the internal memory is used to record images.
- You cannot select the following folder as a recording folder.
 - “100” folder
 - A folder with a number that has either “   MSDCF” or “   MNV01” only
- You cannot move recorded images to another folder.

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Delete REC. Folder

Deletes a folder for recording images in a memory card.

1. MENU →  (Settings) →  (Memory Card Tool) → [Delete REC. Folder]
2. Select a folder with ◀ / ▶ on the control button.
3. [OK] → ●

Notes

- This item is not displayed when the internal memory is used to record images.
- If you delete the folder set as the recording folder using [Delete REC. Folder], the folder that has the largest folder number is selected as the next recording folder.
- You can delete only empty folders. If a folder contains images, or files that cannot be played back by the camera, first delete these images and files using a computer, and then delete the folder.

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Copy

Copies all images in the internal memory to a memory card.

1. Insert a memory card with sufficient free capacity into the camera.
2. MENU →  (Settings) →  (Memory Card Tool) → [Copy] → [OK] → 

Notes

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- Images cannot be copied individually.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the memory card after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
- A new folder is created on the memory card and all the data will be copied to it. You cannot choose a specific folder and copy images to it.




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File Number

Selects the method used to assign file numbers to images.

- 1 . MENU →  (Settings) →  (Memory Card Tool) or  (Internal Memory Tool) →
[File Number] → desired mode → ●

	Series	Assigns numbers to files in sequence even if the recording folder or the memory card is changed. (When the replaced memory card contains a file with a number higher than the last assigned number, a number one higher than the largest number is assigned.)
	Reset	Starts from 0001 each time the folder is changed. (When the recording folder contains a file, a number one higher than the largest number is assigned.)




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Area Setting


Adjusts the time to the local time of a selected area.

1. MENU →  (Settings) →  (Clock Settings) → [Area Setting] → desired setting → 

<input checked="" type="checkbox"/>	Home	You use the camera in your area. When the currently set area differs from your home area, you must make the Area Setting.
<input type="checkbox"/>	Destination	You use the camera set to the time at your destination. Set the destination area.

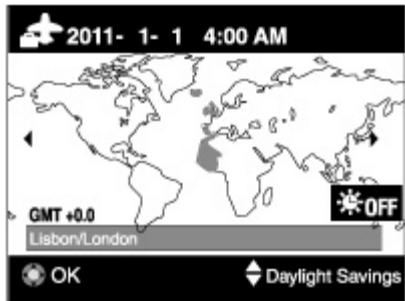
Changing Area Setting

Setting a frequently visited destination lets you easily adjust the time when you visit that destination.

1. Select the area part for [Destination], then press .



2. Select an area with ◀ / ▶ on the control button, and select Daylight Savings time with ▲ / ▼.











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Date & Time Setting

Sets the date and time again.

1. MENU →  (Settings) →  (Clock Settings) → [Date & Time Setting] → desired setting → 
2. Set the numeric value and desired setting with  /  /  /  on the control button.
3. [OK] → 

Date & Time Format	You can select the date and time display format.
Daylight Savings	You can select Daylight Savings [On]/[Off].
Date & Time	You can set the date and time.

Note

- The camera does not have a feature for superimposing dates on images. By using “PMB” in the CD-ROM (supplied), you can print or save images with the date.

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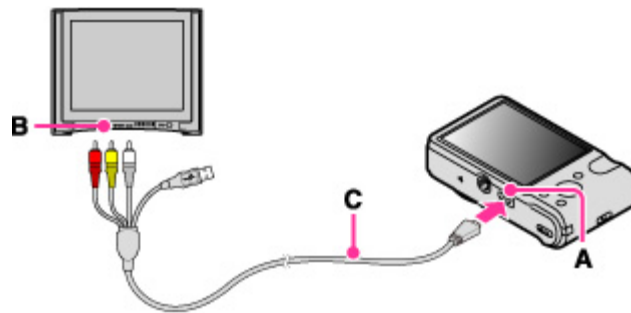
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Viewing an image on a Standard Definition (SD) TV

You can view images recorded on the camera in standard picture quality by connecting the camera to a Standard Definition (SD) TV. Refer also to the operating instructions supplied with the TV.

1. Turn off both the camera and the TV.
2. Connect the multi connector of the camera (A) and the audio/video input jacks on the TV (B) using the Cable for multi-use terminal (C).



3. Turn on the TV and set the input.
4. Press  (Playback) button to turn on the camera. Images shot with the camera appear on the TV. Select the desired image with the control button.

Notes

- When using the camera abroad, it may be necessary to switch [Video Out]. [\[Details\]](#)
- When you shoot movies while the camera and a TV are connected, the image being shot is not displayed on the TV.
- During output to TV, [Easy Mode] is invalid.

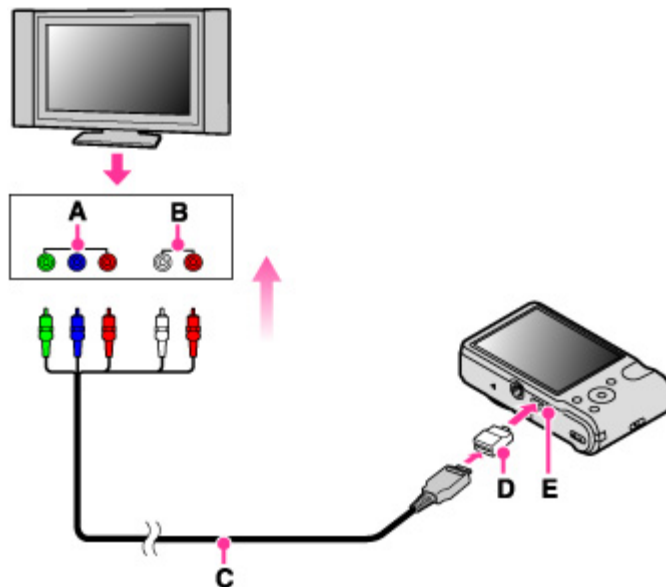
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Viewing an image on an HD TV using the HD Output Adaptor Cable (sold separately)

Connect the camera to an HD (High Definition) TV using the HD Output Adaptor Cable (sold separately). Use a Type3a-compliant HD Output Adaptor Cable (sold separately).

1. Turn off both the camera and the TV.
2. Attach a conversion adaptor (D) to an HD Output Adaptor Cable (C) (sold separately) and connect the camera to a High Definition (HD) TV with the appropriate cable.




A: COMPONENT VIDEO IN

B: AUDIO

C: HD Output Adaptor Cable (sold separately)

D: Conversion adaptor (The conversion adaptor is supplied with a Type3a-compliant HD Output Adaptor Cable (sold separately)).

E: Multi connector

3. Turn on the TV and set the input.
4. Press the  (Playback) button to turn on the camera. Images shot with the camera appear on the TV. Select the desired image with the control button.

"PhotoTV HD"

This camera is compatible with the "PhotoTV HD" standard.



By connecting a Sony TV compatible with "PhotoTV HD" using an HD Output Adaptor Cable (sold separately) to output video signal in HD(1080i), a whole new world of photos can be comfortably enjoyed in breathtaking Full HD quality.

- "PhotoTV HD" allows for a highly-detailed, photo-like expression of subtle textures and

colors.

- You must change the setting of TV. For details, see the operating instructions of the TV.

Notes

- You cannot play back images in Easy Mode during TV output.
- Images shot in [VGA] image size cannot be played back in the HD format.
- When you shoot movies while the camera and a TV are connected using an HD Output Adaptor Cable (sold separately), the image being shot is not displayed on the TV.
- Before you use this function, select MENU →  (Settings) →  (Main Settings) to select [HD(1080i)] for [COMPONENT].
- When using the camera abroad, it may be necessary to switch the video signal output to match that of your TV system. [\[Details\]](#)

Related Topic

[COMPONENT](#)

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Recommended computer environment (Windows)

The following computer environment is recommended when using the supplied software “PMB”, “Music Transfer” and “PMB Portable”, and importing images via a USB connection.

OS (pre-installed)	Microsoft Windows XP* ¹ SP3/Windows Vista* ² SP2/Windows 7
Others	CPU: Intel Pentium III 800 MHz or faster (For playing/editing the High Definition movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.20 GHz or faster) Memory: 512 MB or more (For playing/editing the High Definition movies: 1 GB or more) Hard Disk: Disk space required for installation—approximately 500 MB Display: Screen resolution: 1,024 × 768 dots or more

*¹ 64-bit editions and Starter (Edition) are not supported.

*² Starter (Edition) is not supported.

Notes

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.

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Recommended computer environment (Macintosh)

The following computer environment is recommended when using the supplied software “Music Transfer” and “PMB Portable” and when importing images via a USB connection.

OS (pre-installed)	USB Connection: Mac OS X (v10.3 to v10.6) Music Transfer/PMB Portable: Mac OS X* (v10.4 to v10.6)
--------------------	--

* Equipped with Intel Processor

Notes

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.


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“PMB (Picture Motion Browser)”

- “PMB” allows you to import images shot with the camera to a computer for display. Make a USB connection between the camera and your computer, and click [Import].
- Images on a computer can be exported to a memory card, and displayed on the camera. Make a USB connection between the camera and your computer, click [Export] → [Easy Export (PC Sync)] in the [Manipulate] menu, and click [Export].
- You can save and print images with the date.
- You can display images stored on a computer by shooting date in a calendar display.
- You can correct (Red Eye Correction, etc.) still images, and change the shooting date and time.
- You can upload images to a network service. (An internet connection environment is required.)
- For other details, see  (PMB Help).

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“Music Transfer”

“Music Transfer” allows you to replace the Music files provided in the camera at the factory with your favorite tracks, and to delete and add Music files.

You can also restore the tracks stored at the factory to your camera.

- The following track types can be imported using “Music Transfer”.
 - MP3 files stored on the hard disk of your computer
 - Music CD tracks
 - Preset-music saved on the camera
- Before starting up “Music Transfer” perform MENU →  (Settings) →  (Main Settings) → [Download Music], and connect the camera to the computer.

For other details, see the help in “Music Transfer”.

Related Topic






[Download Music](#)

[Empty Music](#)


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Installing “PMB” and “Music Transfer” (Windows)


1. Turn on your computer and insert the CD-ROM (supplied) into the CD-ROM drive.
The installation menu screen appears.
 - If it does not appear, double-click [Computer] (in Windows XP, [My Computer]) →  (SONYPMB).
 - If the AutoPlay screen appears, select “Run Install.exe” and follow the instructions that appear on the screen to proceed with the installation.
2. Click [Install].
The “Choose Setup Language” screen appears.
3. Select the desired language, then proceed to the following screen.
The “License Agreement” screen appears.
4. Carefully read the agreement, click the radio button (☐ → ☒) to accept the terms of the agreement, and then click [Next].
5. Follow the instructions on the screen to complete the installation.
 - Restarting the computer may be necessary. When the restarting confirmation message appears, restart the computer following the instructions on the screen.
 - DirectX may be installed depending on the system environment of your computer.
6. Connect the camera to your computer when the connecting confirmation message appears.
 - When the camera is not connected to your computer, some functions cannot be used, such as importing images.
7. Remove the CD-ROM after the installation is complete.
8. Start up the software.
 - To start up “PMB,” click  (PMB) on the desktop.
For the detailed operation method, see the following PMB support page (English only):
<http://www.sony.co.jp/pmb-se/>
or click  (PMB Help).
 - To start up “PMB” from the Start menu, select [Start] → [All Programs] →  (PMB).
 - If “PMB” was installed on your computer and if you re-install “PMB” using the supplied CD-ROM, you can start up all the applications from “PMB Launcher.” To start up “PMB Launcher,” double-click  (PMB Launcher) on the desktop.

Notes

- Log on as Administrator.
- When “PMB” is started up for the first time, the confirmation message of the Information tool appears on the screen. Select [Start].
- If “PMB” has been already installed on your computer and that “PMB” version number is lower than that of the supplied CD-ROM, re-install “PMB” using the supplied CD-ROM.
- If the version number is higher than that of the supplied CD-ROM, you do not need to re-install “PMB”. When you connect the camera and the computer via USB cable, the available “PMB” function is activated.
- If “PMB” has already been installed on your computer and that “PMB” version number is lower than 5.0, some functions may become invalid after you install “PMB” using the supplied CD-ROM. Also, you can start up “PMB” or other various software from “PMB Launcher” installed at the same time. To start up “PMB Launcher” double-click  (PMB Launcher) on the desktop.

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Installing “Music Transfer” (Macintosh)

1. Turn on your Macintosh computer, and insert the CD-ROM (supplied) into the CD-ROM drive.
2. Double-click  (SONYPMB).
3. Double-click the [MusicTransfer.pkg] file in the [Mac] folder.
The installation of the software starts.

Notes

- “PMB” is not compatible with Macintosh computers.
- Shut down all other application software before you install “Music Transfer”.
- For installation, you need to log on as Administrator.

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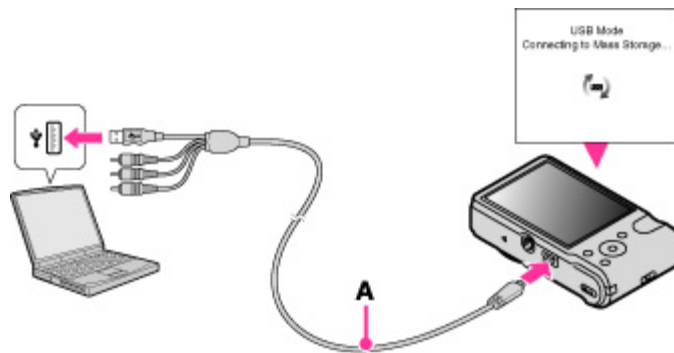
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Connecting the camera to the computer

1. Insert a sufficiently charged battery pack into the camera, or connect the camera to a wall outlet (wall socket) using the AC-LS5 AC Adaptor (sold separately) and the USB/AV/DC IN Cable for multi-use terminal (sold separately).
 - Use a Type3a-compliant USB/AV/DC IN Cable (sold separately).
2. Turn on the computer, then press  (Playback) button.
3. Connect the camera to your computer using a Cable for multi-use terminal (A).
 - When a USB connection is established for the first time, your computer automatically runs a program to recognize the camera. Wait for a while.



Related Topic

[USB Connect](#)

[LUN Setting](#)

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Importing images to a computer (Windows)

“PMB” allows you to easily import images.
For details on “PMB” functions, see the “PMB Help”.

Importing images to a computer without using “PMB”

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

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Importing images to a computer (Macintosh)

1. Connect the camera to your Macintosh computer first. Double-click the newly recognized icon on the desktop → the folder where the images you want to import are stored.
2. Drag and drop the image files to the hard disk icon.
The image files are copied to the hard disk.
3. Double-click the hard disk icon → the desired image file in the folder containing the copied files.
The image is displayed.

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Deleting the USB connection

Perform the procedures from step 1 to 3 below before:

- Disconnecting the cable.
- Removing a memory card.
- Inserting a memory card into the camera after copying images from the internal memory.
- Turning off the camera.


1. Double-click the disconnect icon () on the tasktray.

Windows Vista



Windows XP



2. Click  (USB Mass Storage Device) → [Stop].
3. Confirm the device on the confirmation window, then click [OK].

Note

- Drag and drop the icon of the memory card or the drive icon to the “Trash” icon beforehand when you use a Macintosh computer, and the camera is disconnected from the computer.

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"PMB Portable"

This camera has a built-in application "PMB Portable".

You can use this application to do the following:

- You can easily upload images to a blog or other media service.
- You can upload images from a computer connected to the Internet even when you are away from home or the office.
- You can easily register the media services (such as blogs) you use frequently.

For details on "PMB Portable", see the "PMB Portable" help.

Notes on "PMB Portable"

"PMB Portable" makes it possible to download the URLs of a number of websites from the server administered by Sony (the "Sony server").

In order to use "PMB Portable" to enjoy the benefits of the image uploading service or other services (the "services") provided by these and other websites, you must consent to the following.

- Some websites require registration procedures and/or fees to use their services. In using such services, you must comply with the terms and conditions established by the websites concerned.
- Services may be terminated or changed in accordance with the convenience of the website operators. Sony will not be held responsible for any trouble occurring between the users and third parties or any inconvenience caused to users relating to the utilization of the services inclusive of the termination of or changes to such services.
- To view a website, you will be redirected to it by the Sony server. There may be times when you cannot access the website because of server maintenance or for other reasons.
- If the operation of the Sony server is to be terminated, you will be notified of the termination ahead of time on Sony's website, etc.
- The URLs to which you are redirected by the Sony server and other information may be recorded for the purposes of improving Sony's future products and services. However, no personal data will be recorded on such occasions.

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Starting up “PMB Portable” (Windows)

For Windows, when using “PMB Portable” for the first time, you must select the language. Follow the procedure below to make the selection. Once the language selection has been made, steps 3 to 5 are unnecessary the next time you use “PMB Portable”.

1. Make a USB connection between the camera and a computer.
When you connect the camera and your computer, the AutoPlay Wizard appears.
Click [x] to close any unnecessary drives.
 - If the desired AutoPlay Wizard does not appear, click [Computer] (in Windows XP, [My Computer]) → [PMBPORTABLE], then double-click [PMBP_Win.exe].
2. Click [PMB Portable].
(In Windows XP, click [PMB Portable] → [OK].)
 - If [PMB Portable] is not displayed within the AutoPlay Wizard, click [Computer] → [PMBPORTABLE], then double-click [PMBP_Win.exe].
 The Language Selection screen appears.
3. Select the desired language, then click [OK].
The Region Selection screen appears.
4. Select the appropriate [Region] and [Country/Area], and then click [OK].
The User Agreement screen appears.
5. Read the agreement carefully. If you accept the terms of the agreement, click [I Agree].
“PMB Portable” starts up.

Notes

- Set [LUN Setting] in [Main Settings] to [Multi].
- Always connect to a network when using “PMB Portable”.
- When uploading images over the Internet, the cache may remain in the computer being used depending on the service provider. This is also true when this camera is used for this purpose.
- When a bug occurs in “PMB Portable” or you delete “PMB Portable” by mistake, you can repair “PMB Portable” by downloading the PMB Portable installer from the website.

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Starting up “PMB Portable” (Macintosh)

When using with a Macintosh computer, it is necessary to set the region the first time. Perform the setting as explained below. After setting the region, steps 3-4 are unnecessary when used after that.

1. Make a USB connection between the camera and a Macintosh computer.
When you connect the camera and your computer, [PMBPORTABLE] appears on the desktop.
Click [x] to close any unnecessary drives.
2. Click [PMBP_Mac] in the [PMBPORTABLE] folder.
The Region Selection screen appears.
3. Select the appropriate [Region] and [Country/Area], and then click [OK].
The User Agreement screen appears.
4. Read the agreement carefully. If you accept the terms of the agreement, click [I Agree].
“PMB Portable” starts up.

Notes

- Set [LUN Setting] in [Main Settings] to [Multi].
- Always connect to a network when using “PMB Portable”.
- When uploading images over the Internet, the cache may remain in the computer being used depending on the service provider. This is also true when this camera is used for this purpose.
- When a bug occurs in “PMB Portable” or you delete “PMB Portable” by mistake, you can repair “PMB Portable” by downloading the PMB Portable installer from the website.

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Printing still images

You can print still images using the following methods.

- Printing directly using a printer which supports your memory card type.
For details, see the operating instructions supplied with the printer.
- Printing using a computer
You can import images to a computer using the supplied "PMB" software and print the images. You can insert the date on the image and print it.
For details, see the "PMB Help".
- Printing at a shop [\[Details\]](#)

Notes

- When you print still images shot in [16:9] mode, both edges may be cut off.
- You cannot print panorama images depending on the printer.

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Printing at a shop

You can take a memory card containing images shot with the camera to a photo printing service shop. As long as the shop supports photo printing services conforming to DPOF, you can make a **DPOF** (Print order) mark on images in advance in the playback mode so that you do not have to reselect them when you print them out at the shop.

Notes

- You cannot print images stored in the internal memory at a print shop directly from the camera. Copy the images to a memory card, then take the memory card to the print shop. [\[Details\]](#)
- Consult your photo printing service shop as to what types of memory card they handle.
- A memory card adaptor (sold separately) may be necessary. Consult your photo printing service shop.
- Before you take image data to a shop, always copy (back up) your data to a disk.
- You cannot set the number of prints.
- If you want to superimpose dates on images, consult your photo printing service shop.

Related Topic

[DPOF](#)[▲ Back to top](#)

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If you have problems

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

1. Check the items under “Troubleshooting”, then check your camera.
If a code such as “C/E: □ □ : □ □ ” appears on the screen, see “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. [\[Details\]](#)
4. Consult your Sony dealer or local authorized Sony service facility.
 - Be aware that by sending the camera for repair, you give consent that the contents of the internal memory, music files may be checked.
 - 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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Battery pack and power

Cannot insert the battery pack into the camera.

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

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Make sure that the battery pack is inserted correctly.
- The battery pack is discharged. Insert a charged battery pack.
- The battery pack terminals are dirty. Gently wipe away any dirt with a soft cloth or a swab.
- Check that the battery pack type is NP-BG1 or NP-FG1.

The power turns off suddenly.

- Depending on the camera and battery temperature, the power may turn off automatically to protect the camera. In this case, a message is displayed on the LCD screen before the power turns off.
- If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Standard] or [Stamina], the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again.

The remaining charge indicator is incorrect.

- This is caused when you use the camera in an extremely hot or cold location.
- A discrepancy arose between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication. The remaining charge indicator may not be correct under certain circumstances.
- 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.

Cannot charge the battery pack while it is inserted in the camera.

- You cannot charge the battery pack using the AC Adaptor (sold separately). Use the battery charger to charge the battery.

The CHARGE lamp flashes while charging the battery.

- Check that the battery pack type is NP-BG1 or NP-FG1.
- The CHARGE lamp flashes infrequently when you use a battery pack that has not been used for a long time.

- The CHARGE lamp (on the supplied battery charger) has two flash patterns, fast flash (approx. 0.15-second intervals) and slow flash (approx. 1.5-seconds intervals). If the lamp flashes quickly, remove the battery pack being charged, and then insert the same battery pack into the battery charger again (until it clicks). If the lamp flashes quickly again, this may indicate a battery pack problem.
If the lamp flashes slowly, the charger is in standby mode and charging has temporarily stopped. Charging stops temporarily and standby mode results when the temperature is outside the range suitable for charging. Charging resumes and the CHARGE lamp lights when the temperature returns to the range suitable for charging.
Charge the battery pack within the proper charging temperature range between 10°C to 30°C (50°F to 86°F).
- For details, see [\[Details\]](#).

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Shooting still images/movies

Cannot record images.

- If images are recorded on the internal memory even when a memory card is inserted into the camera, make sure that the memory card is fully inserted into the camera.
- Check the free capacity of the internal memory or memory card. If it is full, do one of the following:
 - Delete unnecessary images. [\[Details\]](#) [\[Details\]](#)
 - Change the memory card.
- You cannot record images while charging the flash.
- When recording movies, it is recommended that you use the following memory cards:
 - “Memory Stick PRO Duo” (Mark2) media, “Memory Stick PRO-HG Duo” media
 - SD memory card, SDHC memory card or SDXC memory card (Class 4 or faster)
- Set [Demo Mode] to [Off]. [\[Details\]](#)

Smile Shutter function does not work.

- No image is shot if a smiling face is not detected. [\[Details\]](#)
- Set [Demo Mode] to [Off]. [\[Details\]](#)





Anti-blur function does not work.

- The anti-blur function may not work properly when shooting night scenes.
- Shoot after pressing the shutter button halfway down.
- If camera shake is excessive, the anti-blur function may not be effective even when [SteadyShot] is activated.


Recording takes a long time.

- When the shutter speed becomes slower than a certain speed, for example, when you shoot images in dark locations, the camera automatically reduces the image noise. This function is called NR (noise reduction) slow shutter and the shooting time takes longer.

The image is out of focus.

- The subject is too close. When shooting, make sure to position the lens farther away from the subject than the shortest shooting distance (approximately 5 cm (2 inches) (W)/100 cm (3 ft 3 3/8 inches) (T) from the lens).
-  (Twilight),  (Landscape),  (Fireworks) or  (Advanced Sports Shooting) mode is selected in the Scene Selection when shooting still images.











Zoom does not work.

- You cannot use the optical zoom in Sweep Panorama mode.
- You cannot use the Smart zoom depending on the image size. [\[Details\]](#)
- You cannot use the digital zoom when:
 - Shooting movies.
 - When  (Advanced Sports Shooting) mode is selected in Scene Selection.
 - The Smile Shutter is working.
 - [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].

Cannot select the Face Detection function.

- You can select Face Detection only when the focus mode is set to [Multi AF] and the [Metering Mode] is set to [Multi].





The flash does not work.

- You cannot use the flash when:
 - Burst mode is selected. [\[Details\]](#)
 -  (Twilight),  (High Sensitivity),  (Fireworks) or  (Advanced Sports Shooting) mode is selected in Scene Selection.
 - Shooting in Sweep Panorama mode.
 - Shooting in Movie Mode.
- Set the flash to  (On) when the Scene Selection mode is set to  (Landscape),  (Gourmet),  (Pet),  (Beach) or  (Snow) mode. [\[Details\]](#)

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

- Particles (dust, pollen, etc.) in the air reflected the flash light and appeared in the image. This is not a malfunction. [\[Details\]](#)

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

- The camera automatically adjusts the focus. Press and hold the shutter button halfway down. Focus adjustment may take some time when shooting a close subject.
-  (Landscape),  (Twilight),  (Fireworks) or  (Advanced Sports Shooting) mode is selected in the Scene Selection.

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

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

Cannot insert dates on images.

- This camera does not have a feature for superimposing dates on images. By using “PMB”, you can print or save images with the date. [\[Details\]](#)

The F value and shutter speed flash when you press and hold the shutter button halfway down.

- The exposure is incorrect. Correct the exposure. [\[Details\]](#)

The image colors are not correct.

- Adjust the White Balance. [\[Details\]](#)

White or purple streaks appear in bright areas of the subject, or the whole screen of the image becomes reddish.

- This phenomenon is called smearing. This is not a malfunction. Smearing is not recorded on still images, but is recorded as streaks or uneven colors on Sweep Panorama images or movies.
("Bright areas" refers to the sun or electric lights which are much brighter than surroundings.)

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

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

The eyes of the subject come out red.

- Set [Red Eye Reduction] to [Auto] or [On]. [\[Details\]](#)
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.
- Retouch the image using [Retouch] → [Red Eye Correction] in viewing menu [\[Details\]](#), or correct using "PMB". [\[Details\]](#)

Dots appear and remain on the screen.

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

Cannot shoot images in succession.

- The internal memory or memory card is full. Delete unnecessary images. [\[Details\]](#) [\[Details\]](#)
- The battery level is low. Insert a charged battery pack.

The same image is shot several times.

- Set [Burst Settings] to [Single]. [\[Details\]](#)
- Set [Bracket Setting] to [Off]. [\[Details\]](#)
- [Scene Recognition] is set to [Advanced]. [\[Details\]](#)

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Viewing images

Cannot play back images.

- Make sure that the memory card is fully inserted into the camera.
- The folder/file name has been changed on your computer.
- No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
- The camera is in USB mode. Delete the USB connection. [\[Details\]](#)
- This is caused by copying images on your computer to a memory card without using “PMB” software. Register the unregistered images following the Image Database registration screen [\[Details\]](#), or play back the images in Folder View [\[Details\]](#).

The date and time are not displayed.

- The screen display is set to display images only. Press the DISP (Screen Display Settings) button to display information. [\[Details\]](#)

Left and right sides of the screen are shown in black.

- [Auto Orientation] is set to [On]. [\[Details\]](#)

Cannot display images in index mode.

- The camera is set to Easy Mode. Cancel Easy Mode.

Cannot hear music during slideshow.

- Transfer music files to the camera with “Music Transfer”. [\[Details\]](#) [\[Details\]](#)
- Confirm that the volume setting and slideshow setting are correct. [\[Details\]](#)
- Slideshow is played back with [Continuous Playback]. Select [Slideshow with music] and play back.

The image does not appear on the TV.

- Check [Video Out] to see if the video output signal of the camera is set to the color system of your TV. [\[Details\]](#)
- Check whether the connection is correct. [\[Details\]](#)
- If the USB connector of the Cable for multi-use terminal is connected to another device, disconnect it. [\[Details\]](#)
- When you shoot movies while the camera and a TV are connected, the image being shot is not displayed on the TV.

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Deleting

Cannot delete an image.

- Cancel the protection. [\[Details\]](#)

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Computers

“Memory Stick PRO Duo” media is not recognized by a computer with a “Memory Stick” media slot.

- Check that the computer and the “Memory Stick” media Reader/Writer support “Memory Stick PRO Duo” media. Users of computers and “Memory Stick” media Readers/Writers made by manufacturers other than Sony should contact those manufacturers.
- If “Memory Stick PRO Duo” media is not supported, connect the camera to the computer. The computer recognizes the “Memory Stick PRO Duo” media. [\[Details\]](#)

Your computer does not recognize the camera.

- When the battery level is low, insert the charged battery pack or use the AC adaptor (sold separately).
- Set [USB Connect] to [Mass Storage]. [\[Details\]](#)
- Use the Cable for multi-use terminal (supplied).
- Disconnect the Cable for multi-use terminal from both the computer and the camera, and connect it again firmly.
- Disconnect all equipment other than the camera, the keyboard and the mouse from the USB connectors of your computer.
- Connect the camera directly to your computer without passing through a USB hub or other device.

Cannot import images.

- Connect the camera and your computer correctly making a USB connection. [\[Details\]](#)
- 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 the camera. [\[Details\]](#)

After making a USB connection, “PMB” does not start automatically.

- Make the USB connection after the computer is turned on.

After making a USB connection, “PMB Portable” does not start.

- Set [LUN Setting] to [Multi]. [\[Details\]](#)
- Set [USB Connect] to [Mass Storage]. [\[Details\]](#)
- Connect the computer to the network.

Cannot play back images on your computer.

•

- If you are using “PMB”, refer to “PMB Help”. [\[Details\]](#)
- Consult the computer or software manufacturer.

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

- You are playing back the movie directly from the internal memory or the memory card. Import the movie to your computer using “PMB” and play it back. [\[Details\]](#)

Images once exported to a computer cannot be viewed on the camera.

- Export them to a folder recognized by the camera, such as “101MSDCF”, then play back in Folder View. [\[Details\]](#)
- Register the image in the Image Database File and play in [Date View]. [\[Details\]](#)
- Event View is not available on this camera.

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Memory card

Cannot insert a memory card.

- Insert the memory card in the correct direction.

You have formatted a memory card by mistake.

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

Images are recorded on the internal memory even when a memory card is inserted into the camera.

- Make sure that the memory card is fully inserted into the camera.

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Internal memory

Cannot play back or record images using the internal memory.

- There is a memory card inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a memory card.

- The memory card is full. Copy to a memory card with sufficient capacity.

Cannot copy the data on the memory card or the computer to the internal memory.

- This feature is not available.

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Printing

Cannot print an image.

- Refer to the operation manual of the printer.

Images are printed with both edges cut off.

- Depending on your printer, all the edges of the image may be cut off. Especially when you print an image shot with the image size 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. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When having images printed at a digital print shop, ask the shop whether they can print the images without cutting off both edges.

Cannot print images with the date.

- Using "PMB", you can print images with date. [\[Details\]](#)
- The camera does not have a feature for superimposing dates on images. However, because the images shot with the camera include information on the recording date, 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.
- If you use a photo printing service, ask them to superimpose the dates on images.

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Others

The lens gets fogged.

- Moisture condensation has occurred. Turn off the camera and leave it for about an hour before using it.

The camera turns off with the lens portion extended.

- The battery pack is discharged. Replace it with a charged battery pack, then turn the camera on again.
- Do not attempt to force the lens that has stopped moving.


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

- This is not a malfunction.

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

- Set the date and time again. [\[Details\]](#)
- The internal rechargeable backup battery has discharged. Insert a charged battery, and set aside for 24 hours or more with the power left off.

The date or time is incorrect.

- The Area Setting is set to a different location than your current location. Change the setting by MENU →  (Settings) → [Clock Settings] → [Area Setting].

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Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on the camera is working. The last two digits (indicated by ☐ ☐) will differ depending on the state of the camera.

If you cannot solve the problem even after trying the following corrective actions a few times, the camera may need repair.

Contact your Sony dealer or local authorized Sony service facility.

C:32: ☐ ☐

- There is trouble with the camera's hardware. Turn the power off and on again.

C:13: ☐ ☐

- The camera cannot read or write data on the memory card. Try turning off and on the camera again, or taking out and inserting the memory card several times.
- The internal memory has experienced a format error, or an unformatted memory card is inserted. Format the internal memory or the memory card. [\[Details\]](#)
- The inserted memory card cannot be used with the camera, or the data is damaged. Insert a new memory card.

E:61: ☐ ☐

E:62: ☐ ☐

E:91: ☐ ☐

- A camera malfunction has occurred. Initialize the camera, then turn the power on again. [\[Details\]](#)

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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Messages

If the following messages appear, follow the instructions.



- The battery level is low. Charge the battery pack immediately. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there are still 5 minutes to 10 minutes of remaining battery time left.

For use with compatible battery only

- The battery inserted is not an NP-BG1 (supplied) or NP-FG1 (sold separately) battery pack.

System error

- Turn the power off and then on again.

Camera overheating

Allow it to cool

- The camera temperature has risen. The power may turn off automatically, or you may be unable to record movies. Leave the camera in a cool location until the temperature goes down.

Internal memory error

- Turn the power off and then on again.

Reinsert the memory card

- The inserted memory card cannot be used in the camera. [\[Details\]](#)
- The terminal section of the memory card is dirty.
- The memory card is damaged.

Memory card type error

- The inserted memory card cannot be used in the camera. [\[Details\]](#)

This memory card may not record or play

- The inserted memory card cannot be used in the camera. [\[Details\]](#)

Error formatting internal memory

Error formatting memory card

- Format the media again. [\[Details\]](#)
-

Memory card locked

- You are using the memory card with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.
-

Read only memory card

- The camera cannot record or delete images on this memory card.
-

No images

- No images that can be played back have been recorded in the internal memory.
 - No images that can be played back have been recorded in this folder of the memory card.
-

No still images

- The selected folder or date does not contain a file that can be played back in a slideshow.
-

File found which was not recognized

- You tried to delete a folder containing a file that cannot be played on this camera. Delete the file on a computer and then delete the folder.
-

Folder error

- A folder with the same first three digit number already exists on the memory card (for example: 123MSDCF and 123ABCDE). Select another folder [\[Details\]](#), or create a new folder [\[Details\]](#).
-

Cannot create more folders

- The folder with a name beginning with "999" exists on the memory card. You cannot create any folders if this is the case.
-

Empty folder contents

- You tried to delete a folder containing one or more files. Delete all of the files and then delete the folder.
-

Folder protected

- You tried to delete a folder that is protected as read only on a computer.
-

Cannot display file

- An error occurred while the image was playing back.
No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
-

Read only folder

- You have selected a folder that cannot be set as a recording folder on the camera. Select another folder. [\[Details\]](#)

File protected

- Release the protection. [\[Details\]](#)

Image size over limit

- You are playing back an image with size that cannot be played back on the camera.

Unable to detect face for retouch

- You may not be able to retouch the image depending on the image.

(Vibration warning indicator)

- Camera shake may occur due to insufficient light. Use the flash, or mount the camera on a tripod to secure the camera.

1280x720 (Fine) is not supported with this memory card 1280x720 (Standard) is not supported with this memory card

- For recording movies, it is recommended that you use a “Memory Stick PRO Duo” (Mark2) media, a “Memory Stick PRO-HG Duo” media or an SD memory card (Class 4 or faster).

Turn the power off and on again

- The lens malfunction.

Maximum number of images already selected

- Up to 10 files can be selected when using [TransferJet].
- Up to 100 files can be selected when using [Multiple Images].
- You can add **DPOF** (Print order) marks to up to 999 files.

Error Playing Music

- Delete the Music file, or replace it with a normal Music file.
- Execute [Empty Music], then download a new Music file.

Error Formatting Music

- Execute [Empty Music].

Operation cannot be executed in unsupported files

- Processing and other editing functions of the camera cannot be performed on image files that have been processed using a computer or images that were recorded with other cameras.

Preparing Image Database File Please wait

- The camera restores the date information, etc., in cases where images have been deleted on a PC, etc.
- The necessary Image Database File is created after the memory card is formatted.



- The number of images exceeds that for which date management in a database file by the camera is possible. To register additional images in the Image Database File, delete images in [Date View].



- It is not possible to record to the camera's Image Database File or play back using [Date View]. Use "PMB" to back up all images to a PC and use it to restore a memory card or internal memory.

Image Database File error Cannot recover

- Import all of the images to the computer with "PMB", and format the memory card or the internal memory. [\[Details\]](#)
To view the images again with the camera, export the imported images to the camera with "PMB".

Recording function unavailable due to high internal temperature

- The camera temperature has risen. You cannot record images until the temperature has gone down.

Recording has stopped due to increased camera temperature

- Recording has stopped due to a rise in temperature while recording a movie. Please wait until the temperature goes down.



- When you record movies for a long time, the camera temperature rises. In this case, stop recording movies.

Connection failed

- Check the TransferJet reception port and transfer data correctly. [\[Details\]](#)

Some files were not sent Some files were not received

- Either communication was cut off during image transfer, or transfer was cut off because device memory is full. Check the available memory capacity and try transferring data using TransferJet again.
- You may not be able to receive the image depending on the image.



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Internal memory and memory card back up

Do not turn off the camera, remove the battery pack, or remove the memory card while the access lamp is lit. Otherwise, the internal memory data or the memory card may be damaged. Be sure to make a backup copy to protect your data.

On database files

When you insert a memory card without a database file into the camera and turn on the power, part of the memory card capacity is used to automatically create a database file. It may take some time until you can perform the next operation.

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- 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 camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

- Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On operating temperatures


- Your camera 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 camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.
- If moisture condensation occurs, turn off the camera 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.

Functions built into this camera

- This manual describes the functions of TransferJet-compatible/incompatible devices. To check if your camera supports the TransferJet function, check for the following mark on the bottom of the camera.

TransferJet-compatible device:  (TransferJet)

On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that the camera will play back images recorded or edited with other equipment, or that other equipment will play back images recorded with the camera.

Notes on the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process and do not affect the recording.
- Exposing the LCD screen or the lens to direct sunlight for long periods may cause malfunctions. Be careful when placing the camera near a window or outdoors.
- Do not press against the LCD screen. The screen may be discolored and that may cause a malfunction.
- Images may trail across on the LCD screen in a cold location. This is not a malfunction.
- Be careful not to bump the movable lens, and be careful not to apply force to it.

Grip

- If dark materials or leather rub against the grip, in some cases the color of the grip may change.

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On the internal rechargeable backup 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.

This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.

However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery

Insert charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.

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On charging the battery pack

- Charge the battery pack (supplied) before using the camera for the first time.
- You can charge the battery pack even if it is not completely discharged. In addition, even if the battery pack is not fully charged, you can use the partially charged capacity of the battery pack as is.
- We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F). The battery pack may not be effectively charged in temperatures outside this range.

Effective use of the battery pack

- Battery performance decreases in low temperature surroundings. So in cold places, the operational time of the battery pack is shorter. We recommend the following to ensure longer battery pack use:
 - Put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting.
(if there are any metal objects such as a key in your pocket, be aware of short-circuiting.)
- The battery pack will run out quickly if you use the flash or zoom frequently.
- We recommend having spare battery packs handy for two times or three times the expected shooting time, and making 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.
- You may not be able to turn on the camera or the battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the battery.

About the remaining battery charge

- A remaining charge indicator appears on the LCD screen.



A: High

B: Low

- It takes about one minute until the correct remaining charge indicator appears.

- The remaining charge indicator may not be correct under certain circumstances.
- When [Power Save] is set to [Standard] or [Stamina], if you do not operate the camera for a certain period of time while the power is on, the LCD screen becomes dark, then the camera turns off automatically (Auto power-off function).


How to store the battery pack

- Fully discharge the battery pack before storing and store it in a cool, dry place. To maintain the battery pack's function, fully charge the battery pack and then fully discharge it on the camera at least once a year while storing.
- To use the battery pack up, leave the camera in slideshow playback mode until the power goes off.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a supplied battery case when carrying or storing.

On battery life

- The battery life is limited. 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.
- The battery life varies according to how it is stored and the operating conditions and environment in which each battery pack is used.

Compatible battery pack

- The NP-BG1 (supplied) can be used only in G type compatible Cyber-shot models.
- If you use the NP-FG1 battery pack (sold separately), the minutes also appear after the battery remaining indicator ( 60 Min).

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Battery charger

- NP-BG1 type, NP-FG1 type battery packs (and no others) can be charged in the battery charger (supplied). Batteries other than the specified kind may leak, overheat, or explode if you attempt to charge them, posing a risk of injury from electrocution and burns.
- Remove the charged battery pack from the battery charger. If you leave the charged battery pack in the charger, battery life may be shortened.
- The CHARGE lamp of the supplied battery charger flashes in either way:
 - Fast flashing: Turns the light on and off repeatedly at the interval of approximately 0.15 seconds.
 - Slow flashing: Turns the light on and off repeatedly at the interval of approximately 1.5 seconds.
- When the CHARGE lamp flashes fast, remove the battery pack being charged, and then insert the same battery pack into the battery charger securely again. When the CHARGE lamp flashes fast again, this may indicate a battery error 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 one or another one and check if the battery charger operates correctly. If the battery charger operates correctly, a battery error may have occurred.
- When the CHARGE lamp flashes slowly, it indicates that the battery charger stops charging temporarily on standby. The battery charger stops charging and enters the standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature gets back within the appropriate range, the battery charger resumes charging 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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Memory card

The types of memory cards that can be used with the camera are “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media, “Memory Stick Duo” media, SD memory card, SDHC memory card and SDXC memory card.

MultiMediaCard cannot be used.

In this User Guide, “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media and “Memory Stick Duo” media are called “Memory Stick Duo” media and SD memory cards, SDHC memory cards and SDXC memory cards are called SD memory cards.

- “Memory Stick Duo” media of up to 32 GB and SD memory cards of up to 64 GB have been tested and proven to operate with your camera.
- When recording movies, it is recommended that you use the following memory cards:
 - **MEMORY STICK PRO DUO** (Mark2) (“Memory Stick PRO Duo” (Mark2) media)
 - **MEMORY STICK PRO-HG DUO** (“Memory Stick PRO-HG Duo” media)
 - SD memory card (Class 4 or faster)

Notes

- To ensure stable operations of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to backup any important data to a PC or other storage location.
- A memory card formatted with a computer is not guaranteed to operate with the camera.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Data may be corrupted in the following cases:
 - When the memory card is removed or the camera is turned off during a read or write operation
 - When the memory card is used in locations subject to static electricity or electrical noise
- We recommend backing up important data.
- 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.
- Insert a memory card that fits the memory card slot size. Otherwise, it will cause a malfunction.
- Do not use or store the memory card under the following conditions:
 - High temperature locations such as the hot interior of a car parked in direct sunlight
 - Locations exposed to direct sunlight
 - Humid locations or locations with corrosive substances present

Note on using the memory card adaptor (sold separately)

- When inserting a memory card into a memory card adaptor, make sure the memory card is inserted facing in the correct direction, then insert it all the way in. Incorrect insertion may result in a malfunction.

“Memory Stick” media

The types of “Memory Stick Duo” media that can be used with the camera are listed in the table below. However, proper operation cannot be guaranteed for all “Memory Stick Duo” media functions.

“Memory Stick” media type	Recording/Playback
Memory Stick Duo (without MagicGate)	○ *1
Memory Stick Duo (with MagicGate)	○ *2
MagicGate Memory Stick Duo	○ *1*2
Memory Stick PRO Duo	○ *2*3
Memory Stick PRO-HG Duo	○ *2*3*4

*1 High-speed data transfer using a parallel interface is not supported.

*2 “Memory Stick Duo” media, “MagicGate Memory Stick Duo” media, “Memory Stick PRO Duo” media and “Memory Stick PRO-HG Duo” media are equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.

*3 [1280×720] size movies can be recorded.

*4 This camera does not support 8-bit parallel data transfer. It performs the same 4-bit parallel data transfer as the “Memory Stick PRO Duo” media.

When using a “Memory Stick Duo” media with standard sized “Memory Stick” media slot

You can use the “Memory Stick Duo” media by inserting it into the “Memory Stick Duo” media Adaptor (sold separately).



“Memory Stick Duo” media Adaptor

Notes on using a “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 the camera, be sure to insert the “Memory Stick Micro” media into an “M2” Adaptor as large as of Duo size. If you insert a “Memory Stick Micro” media into the camera without an “M2” Adaptor as large as of Duo size, you might not be able to remove it from the camera.
- 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 LCD screen

Wipe the screen surface with an LCD cleaning kit (sold separately) to remove fingerprints, dust, etc.

Cleaning the lens

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

Cleaning the flash

Clean the flash surface before use. The heat of flash emission may cause dirt on the flash surface to become discolored or to stick to the flash surface, resulting in insufficient light emission.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzene, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

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Number of still images

(Units: Images)

Size	Internal memory	Memory card formatted with this camera				
	Approx. 27 MB	2 GB	4 GB	8 GB	16 GB	32 GB
16M	3	265	530	1050	2100	4250
10M	5	395	790	1600	3200	6400
5M	8	570	1100	2300	4650	9300
VGA	165	11500	23000	46500	94000	188000
16:9(12M)	4	325	650	1300	2600	5200
16:9(2M)	26	1800	3600	7300	14500	29000

Notes

- When the number of remaining shootable images is greater than 99,999, the ">99999" indicator appears.
- When an image shot with other cameras is played back on this camera, 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. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes at one time. The maximum size of a movie file is up to approximately 2 GB.

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

Quality/Size	Internal memory	Memory card formatted with this camera				
	Approx. 27 MB	2 GB	4 GB	8 GB	16 GB	32 GB
1280x720(Fine)	—	25 m (20 m)	55 m (40 m)	1 h 50 m (1 h 20 m)	3 h 40 m (2 h 45 m)	7 h 25 m (5 h 30 m)
1280x720(Standard)	—	40 m (25 m)	1 h 20 m (55 m)	2 h 40 m (1 h 50 m)	5 h 25 m (3 h 40 m)	10 h 50 m (7 h 25 m)
VGA	1 m (45 s)	1 h 20 m (1 h)	2 h 40 m (2 h)	5 h 25 m (4 h)	10 h 50 m (8 h 5 m)	21 h 45 m (16 h 20 m)

The number in () is the minimum recordable time.

Note

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

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Using the camera abroad

You can use the battery charger (supplied), and the AC-LS5 AC Adaptor (sold separately) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz.

Note

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

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On TV color systems

If you want to view images on a TV screen, you need a TV with a video input jack and the cable for multi-use terminal. The color system of the TV must match that of the digital still camera. Check the following lists for the TV color system of the country or region where the camera is used.

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, Romania, 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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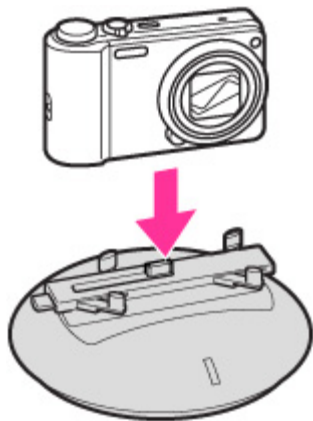
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Intelligent Pantilter

Intelligent Pantilter (sold separately) allows you to take pictures automatically, by having the camera detect people's faces.

For details, see the operating instructions supplied with Intelligent Pantilter.

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TransferJet standard

TransferJet communications conform to the standard given below.

TransferJet standard:
Conforms to PCL Spec. Rev. 1.0

Protocol Class Name (communication type):

SCSI Block Device Target

OBEX Push Server

OBEX Push Client

- Use the “SCSI” communication protocol above when connecting to a TransferJet-compatible device (sold separately). Or, use the “OBEX” communication protocol when sharing data between cameras.

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License

Notes on the License

“C Library”, “Expat”, “zlib”, “dtoa”, “pcre” and “libjpeg” software are provided in the camera. We provide this software based on license agreements with their owners of copyright. Based on requests by the owners of copyright of these software applications, we have an obligation to inform you of the following. Please read the following sections.

Read “license1.pdf” in the “License” folder on the CD-ROM. You will find licenses (in English) of “C Library”, “Expat”, “zlib”, “dtoa”, “pcre” and “libjpeg” software.

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[HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM)

On GNU GPL/LGPL applied software

The software that is eligible for the following GNU General Public License (hereinafter referred to as “GPL”) or GNU Lesser General Public License (hereinafter referred to as “LGPL”) are included in the camera.

This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL.

Source code is provided on the web. Use the following URL to download it.

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

We would prefer you do not contact us about the contents of source code.

Read “license2.pdf” in the “License” folder on the CD-ROM. You will find licenses (in English) of “GPL”, and “LGPL” software.

To view the PDF, Adobe Reader is needed. If it is not installed on your computer, you can download it from the Adobe Systems web page:

<http://www.adobe.com/>

On the license of “Music Transfer” included on the CD-ROM (supplied)


MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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