Top page

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

DSC-S3000

User Guide

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

Cyber-shot

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Operation Search

Operation Search

Search by Operation

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Before Use

How to use this User Guide

How to use this User Guide

The images used in this User Guide

Names of parts and list of icons displayed on the screen

Names of parts

List of icons displayed on the screen

Using the wrist strap

Using the wrist strap

Using the internal memory

Using the internal memory

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Shooting

Shooting still images

Shooting still images

Zoom

Shooting movies

Shooting movies

Setting REC mode

List of mode switch functions

Intelligent Auto

Program Auto

Scene Selection

Sweep Panorama

Movie Mode

Functions not available in some REC modes

Using shooting functions

DISP (Screen Display Settings)

Flash

Smile Shutter

Self-Timer

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Viewing

Viewing still images

Viewing still images

Playback zoom

Image Index

Deleting images

Delete button

Viewing movies

Viewing movies

Viewing panorama images

Scrolling the panorama images for display

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Using MENU items (Shooting)

Using MENU items (Shooting)

Using MENU items (Shooting)

MENU items (Shooting)

REC Mode

Scene Selection

Easy Mode

Shooting Direction

Image Size

SteadyShot

Burst Settings

EV

ISO

White Balance

Focus

Metering Mode

Smile Detection Sensitivity

Face Detection

DRO

Shooting MENU list

MENU items not available in some REC modes

▲ Back to top

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Using MENU items (Viewing)

Using MENU items (Viewing)

Using MENU items (Viewing)

MENU items (Viewing)

Easy Mode

Slideshow

Retouch

Delete

Protect

DPOF

Rotate

Select Folder

Playback MENU list

MENU items that cannot be set according to recording media

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Changing settings

Changing settings
Changing camera settings

Shooting Settings
Grid Line
Disp. Resolution
Digital Zoom
Red Eye Reduction

Main Settings
Beep
Language Setting
Function Guide
Display color
Power Save
Initialize
Video Out
USB Connect
LUN Setting

Memory Card Tool / Internal Memory Tool
Format
Create REC. Folder
Change REC. Folder
Delete REC. Folder
Copy
File Number

Clock Settings
Area Setting
Date & Time Setting

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Viewing images on a TV

Viewing an image on a Standard Definition (SD) TV

Viewing an image on a Standard Definition (SD) TV

▲ Back to top

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➡ Contents list

Using with your computer

Recommended computer environment

Recommended computer environment (Windows)

Recommended computer environment (Macintosh)

Using the software

"PMB (Picture Motion Browser)"

Installing "PMB" (Windows)

Connecting the camera to the computer

Connecting the camera to the computer

Importing images to a computer (Windows)

Importing images to a computer (Macintosh)

Deleting the USB connection

Uploading images to a media service

"PMB Portable"

Starting up "PMB Portable" (Windows)

Starting up "PMB Portable" (Macintosh)

▲ Back to top

Copyright 2011 Sony Corporation

10

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Printing

Printing still images

Printing still images

Printing at a shop

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Troubleshooting

If you have problems

If you have problems

Troubleshooting

Batteries and power

Shooting still images / movies

Viewing images

Deleting

Computers

Memory card

Internal memory

Printing

Others

Warning indicators and messages

Messages

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➡ Contents list

Precautions / About this camera

Precautions

Precautions
On the internal rechargeable backup battery
Batteries
Memory card

On cleaning

On cleaning

Number of still images and recordable time of movies

Number of still images
Recordable time of movies

Using the camera abroad

On TV color systems

Trademarks

Trademarks

▲ Back to top

Copyright 2011 Sony Corporation

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Contents list

Operation Search

Operation Search

Search by Operation

▲ Back to top

Before Use

How to use this User Guide

How to use this User Guide

The images used in this User Guide

Names of parts and list of icons displayed on the screen

Names of parts

List of icons displayed on the screen

Using the wrist strap

Using the wrist strap

Using the internal memory

Using the internal memory

▲ Back to top

Shooting

Shooting still images

Shooting still images

Zoom

Shooting movies

Shooting movies

Setting REC mode

List of mode switch functions

Intelligent Auto

Program Auto

Scene Selection

Sweep Panorama

Movie Mode

Functions not available in some REC modes

Using shooting functions

DISP (Screen Display Settings)

Flash

Smile Shutter

Viewing

Viewing still images

Deleting images

Viewing movies

Viewing panorama images

Using MENU items (Shooting)

Using MENU items (Shooting)

MENU items (Shooting)

Shooting MENU list

Using MENU items (Viewing)

Using MENU items (Viewing)

MENU items (Viewing)

Changing settings

Changing settings

Shooting Settings

Main Settings

Memory Card Tool / Internal Memory Tool

Clock Settings

Viewing images on a TV

Viewing an image on a Standard Definition (SD) TV

Using with your computer

Recommended computer environment

Using the software

Connecting the camera to the computer

Uploading images to a media service

▲ Back to top

Printing

Printing still images

▲ Back to top

Troubleshooting

If you have problems

Troubleshooting

Warning indicators and messages

▲ Back to top

Precautions / About this camera

Precautions

On cleaning

Number of still images and recordable time of movies

Using the camera abroad

Trademarks

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Search by Operation

Leaving the settings to the camera
Intelligent Auto
Scene Selection

Shooting portraits
Scene Selection(Soft Snap)
Scene Selection(Twilight Portrait)
Smile Shutter
Face Detection
Red Eye Reduction

Shooting panoramic images
Sweep Panorama

Shooting moving objects
Movie Mode
Burst Settings

Shooting without blur
Scene Selection(High Sensitivity)
Self-Timer(2sec)
ISO
SteadyShot

Shooting with backlight
Flash
On Scene Recognition
DRO

Shooting in dark places
Scene Selection(High Sensitivity)
Flash(Slow Synchro)
ISO

Changing focus position
Focus

Changing image size
Image Size

Changing screen display
DISP (Screen Display Settings)
Function Guide
Display color

Deleting images
Delete
Delete button
Format

Displaying enlarged images

Playback zoom
Retouch(Trimming (Resize))

Editing images

Retouch

Playing back a series of images in order

Slideshow

Printing images with the date

"PMB (Picture Motion Browser)"

Changing clock settings

Date & Time Setting

Initializing settings

Initialize

Printing images

Printing still images

Viewing on TVs

Viewing an image on a Standard Definition (SD) TV

▲ Back to top

Cyber-shot User Guide   Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

How to use this User Guide

▼ Selecting a topic to display
▼ Returning to a previous page
▼ Printing out a page
▼ Marks and notations used in this User Guide

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.
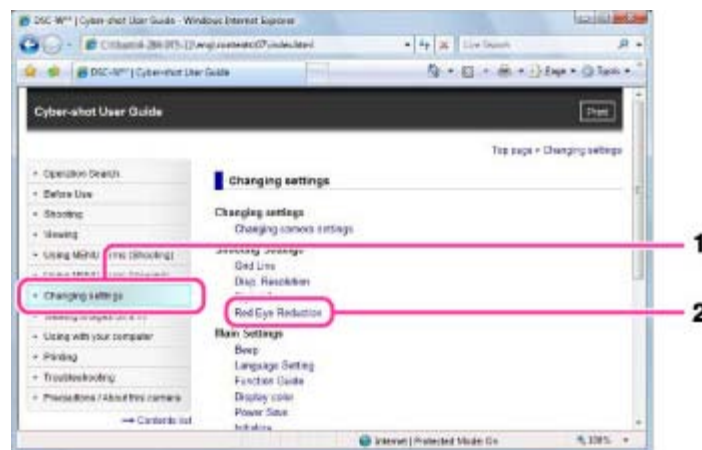
Descriptions appear in the right pane.
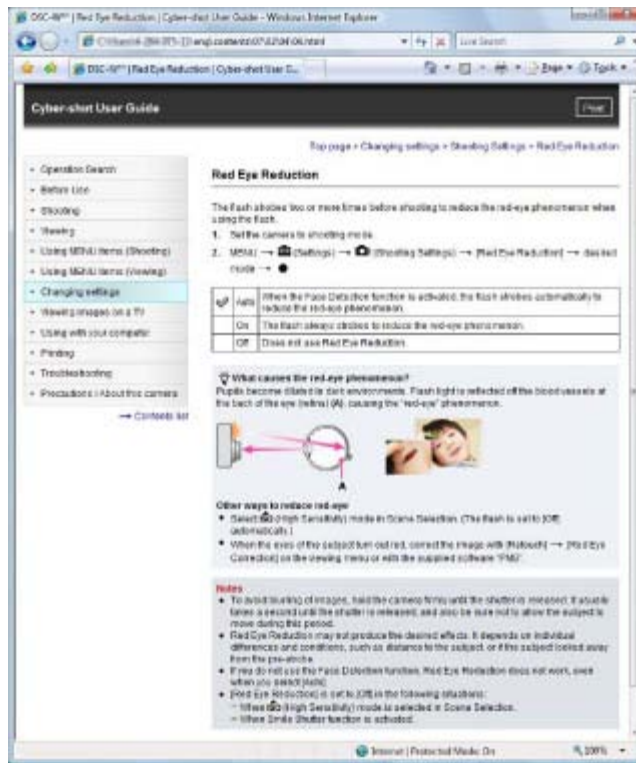
Changing the font size

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.
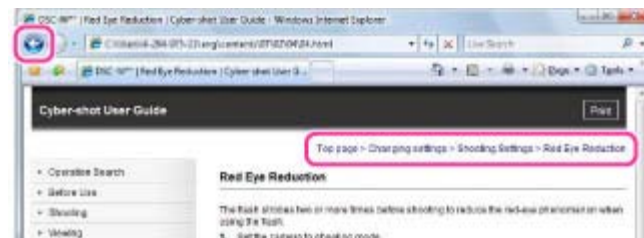
Printing out a page

Click the [Print] button to print out a page you are viewing.
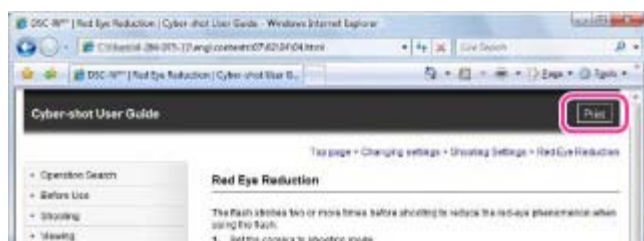
Marks and notations used in this User Guide

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.

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

The images used in this User Guide

Images used in this User Guide

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

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Names of parts
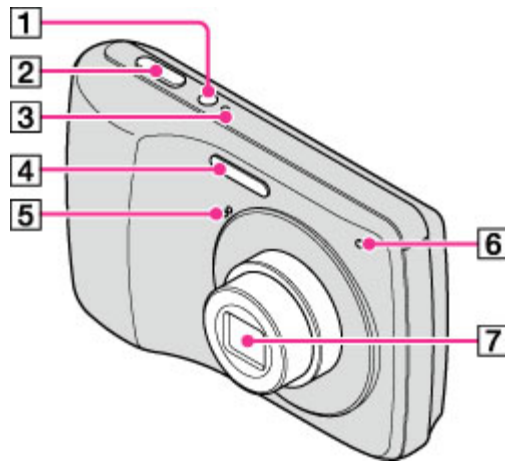
1. **ON/OFF (Power) button**
2. **Shutter button**
3. **ON/OFF (Power) lamp**
4. **Flash**
5. **Microphone**
6. **Self-timer lamp / Smile Shutter lamp**
7. **Lens**
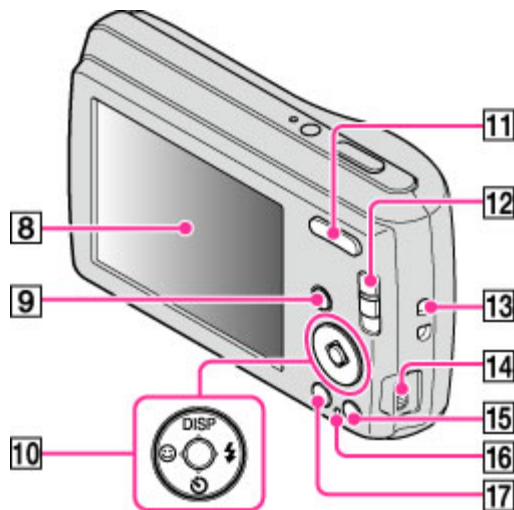
8. **LCD screen**
9. ▶ **(Playback) button**

10   **Control button**

Menu on: ▲ / ▼ / ◄ / ► / ●

Menu off: **DISP**/↻/☺/⚡

11   **For shooting: W/T (zoom) button**

For viewing: 🔍 (Playback zoom) button / ▦ (Index) button

12   **Mode switch**

13   **Hook for wrist strap**

14   **⟜ (USB) / A/V OUT jack**

15   **🗑 (Delete) button**

16   **Access lamp**

17   **MENU button**
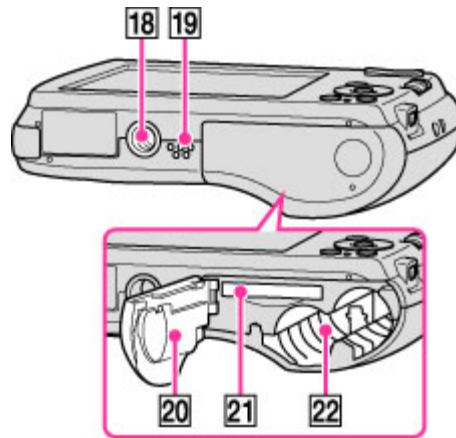
18   **Tripod receptacle**

19   **Speaker**

20   **Battery / Memory card cover**

21   **Memory card slot**

22   **Battery insertion slot**

Cyber-shot User Guide

Print

- Operation Search
- **Before Use**
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

List of icons displayed on the screen
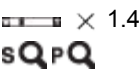
▼ List of shooting mode icons
▼ List of viewing mode icons

Icons are displayed on the screen to indicate the camera status.
You can change the screen display using DISP (Screen Display Settings) on the control button.

List of shooting mode icons

1
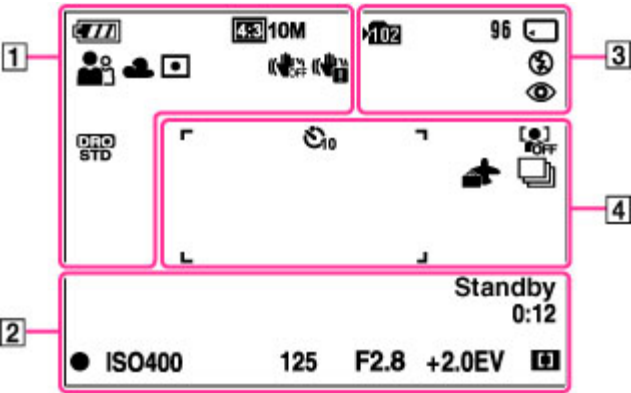
Display	Indication
🔋	Battery remaining
🔲	Low battery warning
10M 5M VGA 7M 2M STD WIDE VGA QVGA	Image size
ISO 🏠 🖼 🌄 🌙 🍴 🐱 🏖 ☃	Scene Selection
i🔲 P ▭ 🎬	Shooting mode (Intelligent Auto, Program Auto, Sweep Panorama, Movie Mode)
🌙 🌄 🔲 🔲 🖼 🌷 🏠	Scene Recognition icon
☀ ☁ 🔲 🔲 🔲 ❄ ⚡WB	White balance
🔲 🔲	Metering Mode
🔲	SteadyShot
🔲	Vibration warning
DRO DRO STD Plus	DRO

27

Display	Indication
[smile icon with slider]	Smile Detection Sensitivity indicator
× 1.4 sQ PQ	Zoom scaling

2

Display	Indication
●	AE/AF lock
ISO400	ISO number
125	Shutter speed
F2.8	Aperture value
+2.0EV	Exposure value
[ ]	AF range finder frame indicator
REC Standby	Recording a movie / Movie standby
0:12	Recording time (m:s)

3

Display	Indication
102	Recording folder
96	Number of recordable images
100Min	Recordable time
[card][memory]	Recording Media (Memory card, internal memory)
⚡⚡SL⊛	Flash mode
👁	Red-eye reduction
⚡■	Flash charging

4

Display	Indication
⏱₁₀⏱₂⏱	Self-timer
[face OFF]	Face detection
✈	Destination
▱	Burst Settings
[AF range finder frame marks]	AF range finder frame
✛	Spot metering cross-hairs

28

List of viewing mode icons

1

Display	Indication
(battery icon)	Battery remaining
(low battery icon)	Low battery warning
10M 5M VGA 7M 2M STD WIDE VGA QVGA	Image size
O—	Protect
DPOF	Print order (DPOF)
Q×2.0	Playback zoom

2

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

3

Display	Indication
102	Playback folder
12/12	Image number / Number of images recorded in selected folder
(media icons)	Playback Media (Memory card, internal memory)
(folder icons)	Changing folder
(metering icons)	Metering Mode
(flash icons) SL	Flash mode
AWB (white balance icons) WB	White balance

ISO400	ISO number

4

Display	Indication
+2.0EV	Exposure value
500	Shutter speed
F2.8	Aperture value
▶	Playback
▭▬▭	Playback bar
00:00:12	Counter
▤	Volume

Cyber-shot User Guide

Print

- Operation Search
- **Before Use**
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Using the wrist strap

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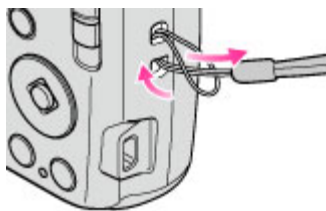
▲ Back to top

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- Operation Search
- **Before Use**
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Using the internal memory

The camera has approximately 6 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.
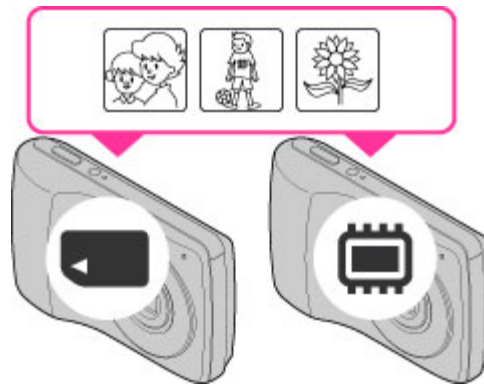
When a memory card is inserted
[Recording]: Images are recorded on the memory card.
[Playback]: Images on the memory card are played back.
[Menu, Settings, etc.]: Various functions can be performed on images on the memory card.
When there is no memory card inserted
[Recording]: Images are recorded using the internal memory.
[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 the dedicated USB cable, you can transfer data stored in the internal memory to a computer. However you cannot transfer data on a computer to the internal memory.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list
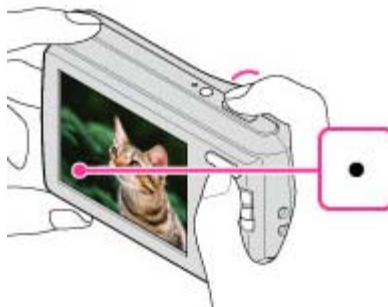
Shooting still images

1. Set the mode switch to ◻ (Still Image), then press the ON/OFF (Power) button.
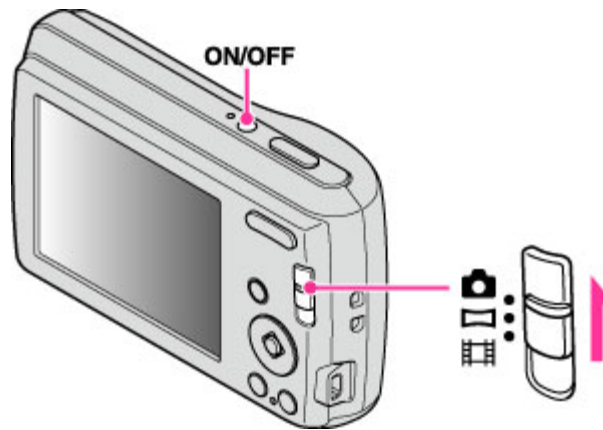
2. Hold the camera steady as illustrated.

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), 50 cm (1 ft 7 3/4 inches) (T) (from the lens).

4. Press the shutter button fully down.

33

🔆 If you shoot a still image of a subject that is difficult to focus on

- If the camera cannot focus on a subject automatically, the AE/AF lock indicator changes to slowly flashing and the beep will 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 behind 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

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Zoom

You can enlarge an image when shooting. The camera's optical zoom function can enlarge images up to 4×.

1. Press the W/T (zoom) button.
   Press the T button to zoom in, and the W button to zoom out.

   - When the zoom scale exceeds 4×, set [Digital Zoom].

   Notes
   - Zoom is locked to the W side in Sweep Panorama mode.
   - You cannot change the zoom scale while shooting a movie.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Shooting movies

1. Set the mode switch to ▦ (Movie), then press the ON/OFF (Power) button.
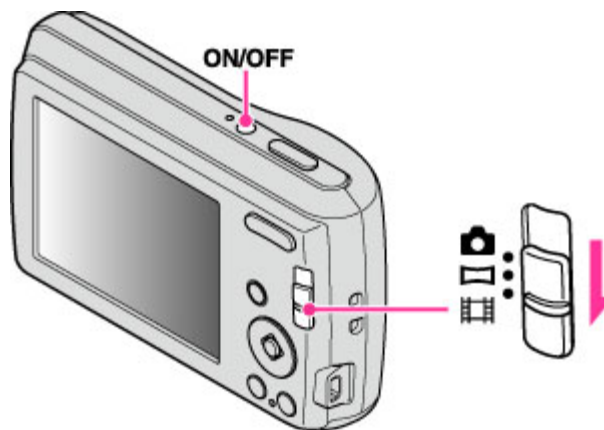
2. Press the shutter button to start recording.

**3.** Press the shutter button again to stop recording.

Related Topic
Zoom
Image Size

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

List of mode switch functions

Set the mode switch to the desired function.
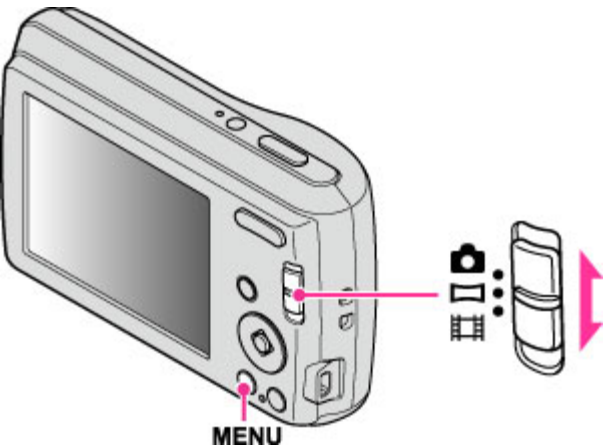
▢ (Still Image)	Allows you to shoot still images. You can set the desired still image shooting mode with MENU ➝ [REC Mode].
▭ (Sweep Panorama)	Allows you to shoot a panorama image after composing images.
▦ (Movie)	Allows you to record movies. Press the shutter button fully down to start recording, and then press the shutter button again to end the recording.

Related Topic

Intelligent Auto
Program Auto
Scene Selection
Sweep Panorama
Movie Mode

▲ Back to top

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Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Intelligent Auto

Allows you to shoot still images with settings adjusted automatically.

1. Set the mode switch to ■ (Still Image).

2. MENU → i■ (REC Mode) → i■ (Intelligent Auto) → ● on the control button

3. Shoot with the shutter button.

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] 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), 🌅 (Backlight), 🌅 (Backlight Portrait), ⛰ (Landscape), 🌷 (Macro) or 👤 (Portrait), the corresponding Scene Recognition icon and guide is displayed on the LCD screen.

▲ Back to top

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38

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Program Auto

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

1. Set the mode switch to ◘ (Still Image).

2. MENU → i◘ (REC Mode) → P (Program Auto) → ● on the control button

3. 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]

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Scene Selection

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

1. Set the mode switch to ◘ (Still Image).
2. MENU → ⅰ◘ (REC Mode) → SCN (Scene Selection) → ● on the control button → desired mode
   - If you want to select the other Scene Selection mode, select from MENU.

ISO (High Sensitivity)	Allows you to shoot images without a flash under low light conditions, reducing blur.
(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 vivid blue sky and flora colors.
(Twilight Portrait)	Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.
	Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.

40

◗ (Twilight)	
◗◗ (Gourmet)	Shifts to Macro mode, allowing you to shoot food arrangements in delicious and bright color.
🐱 (Pet)	Allows you to shoot images of your pet with the best settings.
🌴 (Beach)	Allows you to record the blue of the water clearly when shooting seaside or lakeside scenes.
☃ (Snow)	Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.

Notes

- When you shoot images using 📷 (Twilight Portrait) or ◗ (Twilight) 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]

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Sweep Panorama

Allows you to create a panorama image from composite images.

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

3. Pan the camera to the end of the guide **(A)**, 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.
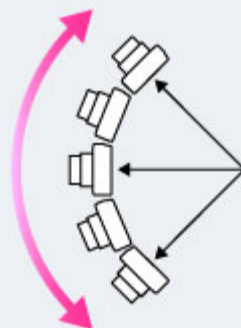
Vertical direction
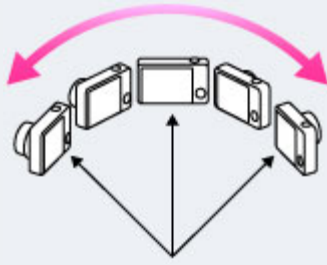
Horizontal direction

- 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 in Panorama shooting excessive camera shake occurs shooting stops, and a gray area will appear in the composite image. Be sure to shoot without blur.
- 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.
  - 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
Shooting Direction
Image Size

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Movie Mode

Allows you to record movies with audio.

1. Set the mode switch 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

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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 flash modes.

	Self-Timer	Flash	Face Detection / Smile Shutter	Burst Settings
(Intelligent Auto)	✔	⚡AUTO⊘	✔	✔
(Program Auto)	✔	✔	✔	✔
(Sweep Panorama)	—	⊘	—	—
(Movie Mode)	⏱₁₀⏱₂	⊘	—	—
(High Sensitivity)	✔	⊘	✔	—
(Soft Snap)	✔	✔	✔*	✔
(Landscape)	⏱₁₀⏱₂	⚡⊘	—	✔
(Twilight Portrait)	✔	⚡SL	✔	—
(Twilight)	⏱₁₀⏱₂	⊘	—	—
(Gourmet)	⏱₁₀⏱₂	⚡⊘	—	—
(Pet)	⏱₁₀⏱₂	⚡⊘	—	—
(Beach)	✔	⚡⊘	✔	✔
(Snow)	✔	⚡⊘	✔	✔

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

▲ Back to top

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Cyber-shot User Guide

Print

DISP (Screen Display Settings)

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

	(Bright + Image Only)	Sets screen brighter and displays only images.
	(Bright + Exposure Data) (In playback mode only)	Sets screen brighter and displays the information. Exif data for the recorded image are also displayed.
	(Bright)	Sets screen brighter and displays the information.
✓	(Normal)	Sets screen to standard brightness and displays the information.

Note

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

46

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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 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]

▲ Back to top

Copyright 2011 Sony Corporation

➡ Contents list

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.
   - If a smile is not detected, press 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

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide　　　　　　　　　　　　　　　　　　　　　　　　　　Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

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.
	⏱10 (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.
	⏱2 (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.

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

→ Contents list

Viewing still images

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

▲ Back to top

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

Playback zoom

Enlarges the image being played back.

1. Press the 🔍 (Playback zoom) button 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 indication in the lower left of the screen shows which part of the total image is being displayed.

3. Change the zoom scale with the W/T (zoom) button.
   Press the 🔍 button (T) to zoom in, W side to zoom out.
   Press ● to cancel playback zoom.

To save enlarged images

You can save an enlarged image by using the trimming function.
Press MENU → [Retouch] → [Trimming (Resize)].

▲ Back to top

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

→ Contents list

Image Index

Displays multiple images at the same time.

1. Press the ▶ (Playback) button to switch to playback mode.

2. Press the ▦ (Index) button to display the image index screen.
   Press the button again to display an index screen with more images.

3. To return to the single-image screen, select an image with the control button, then press ●
   .

Displaying images of the desired folder

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

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

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 in This Folder	Deletes all images in the selected 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**
Press the 🔍 button (T) of the W/T (zoom) button in index mode to return to single-image mode, and press the ▦ (Index) button (W) in single-image mode to return to index mode.
- You can also switch between index and single-image mode in [Protect] or [DPOF].

Note
- In Easy Mode, you can delete only the currently displayed image.

Related Topic
Delete

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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, then movie playback starts.

Control button	Playback feature
●	Pause
▶	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.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Scrolling the panorama images for display

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

A: Shows the displayed area of the whole panorama image

Operation button	Action
● on the control button	Scrolling playback / pauses scrolling images
▲ / ▼ / ◀ / ▶ on the control button	Scrolls images
W (zoom) button	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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➥ Contents list

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.
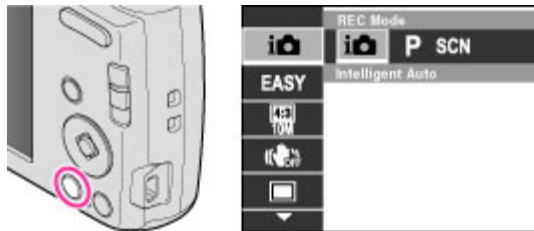
3. Select the desired menu item with ▲ / ▼ / ◄ / ► on the control button.

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

▲ Back to top

Copyright 2011 Sony Corporation

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

REC Mode

1. MENU → (REC Mode) → desired mode

✓	**i⬤** (Intelligent Auto)	Allows you to shoot with the setting adjusted automatically. [Details]
	P (Program Auto)	Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). [Details] Also you can select various settings using the menu.
	SCN (Scene Selection)	Allows you to shoot with preset settings according to the scene. [Details]

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Scene Selection

When you want to select another scene, follow the steps below.

1. MENU → ▮🖸 (REC Mode) → SCN (Scene Selection) → ● on the control button → desired mode

ISO (High Sensitivity)	Allows you to shoot images without a flash under low light conditions, reducing blur.
📷 (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.

61

(Gourmet)	Allows you to shoot food arrangements in delicious and bright colors using Macro mode.
(Pet)	Allows you to shoot images of your pet with the best settings.
(Beach)	Allows you to shoot images with the proper settings for seaside or lakeside scenes.
(Snow)	Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.

Notes

- When you shoot images using (Twilight Portrait) or (Twilight) 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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- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Easy Mode

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

1. MENU → **EASY** (Easy Mode) → ● on the control button.

2. [OK] → ●

3. Shoot with the shutter button.
   - To exit Easy mode, press the MENU button, then select [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), 🔆 (Backlight), 🔆 (Backlight Portrait), 🏔 (Landscape), 🌷 (Macro) or 👥 (Portrait), and displays an icon on the LCD screen when the scene is recognized.

Shooting functions available in Easy Mode (Shooting)

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

▲ Back to top

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➡ Contents list

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

▲ Back to top

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) → 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.
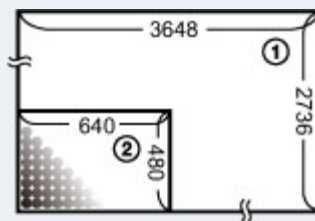
① Image size: 10M
3648 pixels × 2736 pixels = 9,980,928 pixels

② Image size: VGA
640 pixels × 480 pixels = 307,200 pixels
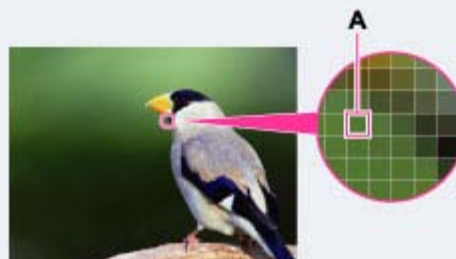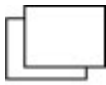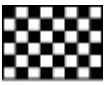
Many pixels
(Fine image quality and large file size)

66
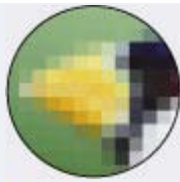
Few pixels
(Rough image quality but small file size)

Image size when shooting still images

	Image size	Usage guidelines	No. of images	Printing
✓	▦ (3648×2736)	For prints up to A3+ size	Less	Fine
	▦ (2592×1944)	For prints from 10×15 cm up to A4 size		
	▦ VGA (640×480)	For e-mail attachments	More	Rough
	▦ (3648×2056)	For viewing on a high-definition TV and printing up to A4 size	Less	Fine
	▦ (1920×1080)	For viewing on a high-definition TV	More	Rough

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

Image size in Easy Mode

✓	Large	Shoots images in [10M] size.
	Small	Shoots images in [5M] size.

Image size when shooting Sweep Panorama

✓	▦ STD (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 image size, the higher the image quality.
The movies shot with this camera will be recorded in AVI (Motion JPEG), Approx. 30fps format.

	Movie image size	Usage guidelines
✓	VGA (640×480)	For viewing on a TV screen
	QVGA (320×240)	For sending as an e-mail attachment

Cyber-shot User Guide   Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

SteadyShot

Selects the anti-blur mode.

1. MENU → (SteadyShot) → desired mode

✓	(Off)	Does not use anti-blur mode.
	(Auto)	Activates the anti-blur function automatically when shooting conditions are likely to cause camera shake. You can stabilize images even when zooming up on a far subject.

҉ Tips for preventing blur

The camera moved accidentally when you took the image. This is called "Camera shake." On the other hand, if the subject moved when you took the image, it is called "subject blur." Besides, camera shake and subject blur occur frequently under low-light or slow shutter speed conditions, such as those encountered in (Twilight Portrait) or (Twilight) mode. In such case, shoot with the below tips in mind.

Camera shake
Your hands or body shake while you hold the camera and press the shutter button, and the entire screen is blurred.

- Use a tripod or place the camera on a flat surface to hold the camera steady.
- 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.

Subject blur
Even though the camera is steady, the subject moves during the exposure so the subject is shot blurred when the shutter button is pressed. Camera shake is reduced automatically using the anti-blur function. However, the function does not effectively reduce subject blur.

- Select **ISO** (High Sensitivity) mode in Scene Selection.
- Select a higher ISO sensitivity to make the shutter speed faster, and press the shutter button before the subject moves.

Notes

- Time is required for image processing.
- When shooting with a flash, the anti-blur function does not work.
- 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]

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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, a series of up to 5 images 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]

▲ Back to top

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71

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

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 → ▯**EV** (EV) → desired EV setting

💡 **Adjusting the exposure for better looking images**

A   B   C

A: Whitish image (Overexposure = too much light)

B: Correct exposure

C: Darker image (Underexposure = too little light)

Note
- 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]

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

ISO

Adjusts the luminous sensitivity when the camera is set to Program Auto.

1. MENU → ISO AUTO (ISO) → desired mode

✓	ISO AUTO (Auto)	Sets the ISO sensitivity automatically.
	ISO 100/200/400/ ISO 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.

Note

- You can select only from [ISO AUTO], [ISO 100] to [ISO 800] when the shooting mode is set to burst mode, or when [DRO] is set to [DRO plus].

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

White Balance

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

1. MENU → $\overset{\text{WB}}{\text{AUTO}}$ (White Balance) → desired mode

✓	$\overset{\text{WB}}{\text{AUTO}}$ (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.
	$\overset{\text{WB}}{\xi}$ (Flash)	Adjusts for the flash conditions.

💡 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)

74

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] or [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]

▲ Back to top

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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)	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. ● When the Face Detection function is active, AF operates with priority on faces.
	(Center AF)	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.

Notes
- When you use [Digital Zoom], 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:

B   **A**
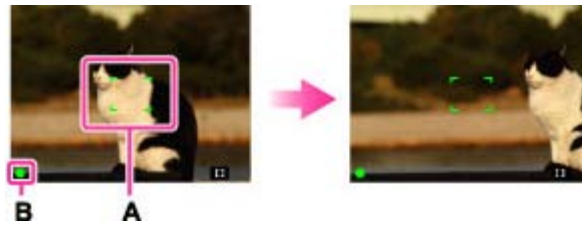
1. Recompose the shot so that the subject is centered in the AF range finder **(A)**, and press the shutter button halfway to focus on the subject (AF lock).

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.

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Metering Mode

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

1. MENU → [icon] (Metering Mode) → desired mode

✓	[icon] (Multi)	Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).
	[icon] (Center)	Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).
	[icon] (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]

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Face Detection

When the Face Detection function is used, the camera detects the faces of your subjects and adjusts the focus, flash, white balance and red-eye reduction settings automatically.
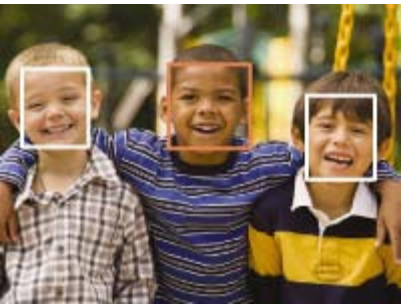
When the camera detects more than one subject, the camera will judge which is the main subject and set focus by priority. The Face Detection frame for the main subject will turn orange. The frame for which the focus is set will turn green by pressing the shutter button halfway down.

1. MENU → 📷 (Face Detection) → desired mode

	📷 (Off)	Cannot use Face Detection.
✓	📷 (Auto)	Selects the face the camera is to automatically focus on.

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.
- 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]

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide   Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

DRO

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 → 📷 (REC Mode) → P (Program Auto) → 🔲 (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 100] to [ISO 800] can be set for the ISO value when [DRO plus] is set.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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.

Menu items	i	P	SCN		
Scene Selection	—	—	✔	—	—
Easy Mode	✔	✔	✔	—	—
Shooting Direction	—	—	—	✔	—
Image Size	✔	✔	✔	✔	✔
SteadyShot	✔	✔	✔	—	—
Burst Settings	✔	✔	📷🏞🏃🕯	—	—
EV	✔	✔	✔	✔	✔
ISO	—	✔	—	—	—
White Balance*	—	✔	ISO🍴🐱	✔	✔
Focus	—	✔	—	✔	—
Metering Mode	—	✔	—	✔	✔
Smile Detection Sensitivity	✔	✔	ISO📷👤🏃🕯	—	—
Face Detection	✔	✔	ISO👤🏃🕯	—	—
DRO	—	✔	—	—	—
(Settings)	✔	✔	✔	✔	✔

* [Flash] for [White Balance] is not available when Scene Selection is set to ISO (High Sensitivity).

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

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

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 center of the control button.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide
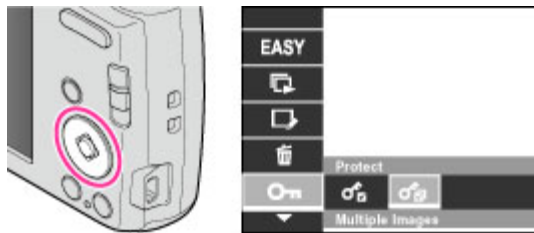
Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Easy Mode

When viewing still images in Easy Mode, the playback screen text becomes larger, and indicators become easier to see.

1. Press the (Playback) button to switch to playback mode.

2. MENU → **EASY** (Easy Mode) → [OK] → ● on the control button
   - To exit Easy mode, press the MENU button, then select [Exit Easy Mode].

Notes
- The battery charge is used up more quickly because the screen brightness increases automatically.
- The shooting mode also changes to [Easy Mode].

Viewing functions available in Easy Mode

In Easy Mode, only the deletion function is available.

🗑 (Delete) button	You can delete the currently displayed image. Select [OK] → ● .
MENU button	You can delete the currently displayed image with [1 image], and delete all images in a folder with [All]. Select [Exit Easy Mode] → [OK] to exit Easy Mode.

▲ Back to top

Copyright 2011 Sony Corporation

Contents list

Slideshow

▼ Image
▼ Interval
▼ Repeat

Images are automatically played back in succession.

1. Press the ▶ (Playback) button to switch to playback mode.

2. MENU → 🖵 (Slideshow) → ● on the control button

3. Select a desired setting.

4. [Start] → ●

5. Press ● to end the slideshow.

Note
● You cannot play back movies or panorama images.

Image

Selects the group of images to be shown.

✅	All	Plays a slideshow of all the images in order.
	Folder	Plays a slideshow of images in the currently selected folder.

Note
● This setting is fixed to [Folder] when the internal memory is used to record images.

Interval

Sets the screen switching interval.

	1 sec	
✅	3 sec	Switches the screen at the selected interval.
	5 sec	
	10 sec	

Repeat

Turns slideshow repeat on or off.

✅	On	Plays back images in a continuous loop.

	Off	After all the images have been played back, the slideshow ends.

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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))	Records the zoomed playback image. ① Press the 🔍 button (T) to zoom in, W side to zoom out. ② Set the zoom point with the control button. ③ MENU → select an image size to save → ● ④ [OK] → ● • The quality of trimmed images may deteriorate. • The image size that you can trim may vary depending on the image.
◉ (Red Eye Correction)	Corrects the red-eye phenomenon caused by flash. ① Select [OK] with the control button → ● . • You may not be able to correct the red-eye phenomenon depending on the image.

Note
- You cannot retouch the panorama images or movies.

▲ Back to top

Copyright 2011 Sony Corporation

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

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)	You can 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 to release the ✓ mark. ② MENU → [OK] → ●
🗑 (All in This Folder)	Deletes all images in the selected folder at once.

Note
- In Easy Mode, you can select between [1 image] or [All].

Related Topic
Delete button

▲ Back to top

Copyright 2011 Sony Corporation

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

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)	You can select and protect 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 protected. Select an image with a ✔ mark to release the ✔ mark. ② MENU → [OK] → ●

▍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.

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

DPOF

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

DPOF (This Image)	Orders printing the currently displayed image in single-image mode.
DPOF (Multiple Images)	You can select and order printing 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 printed. Select an image with a ✔ mark to release the ✔ mark. ② MENU → [OK] → ●

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

▲ Back to top

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Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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 → □ (Select Folder) → ● on the control button

3. Select the folder with ◀ / ▶ .

4. [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.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

MENU items that cannot be set according to recording media

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

Menu items	Memory card	Internal Memory
EASY (Easy Mode)	✔	✔
(Slideshow)	✔	✔
(Retouch)	✔	✔
(Delete)	✔	✔
(Protect)	✔	✔
DPOF	✔	—
(Rotate)	✔	✔
(Select Folder)	✔	—
(Settings)	✔	✔

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

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Changing camera settings

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

1. Press the MENU button to display the Menu screen.
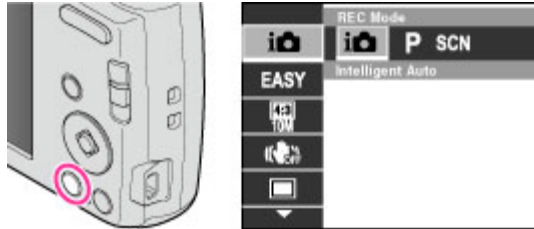
2. Select ▣ (Settings) with ▼ on the control button, then press ● on the center of the control button to display the setup screen.

3. Select the desired category using ▲ / ▼ / ◀ / ▶ , then press ● .
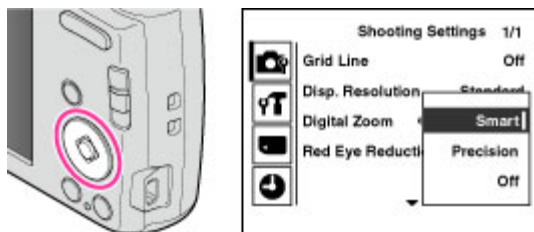
4. Select the desired setting, then press ● .

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.

▲ Back to top

Copyright 2011 Sony Corporation

94

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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 → ●

	On	Displays the grid lines. The grid lines are not recorded.
✓	Off	Does not display the grid lines.

▲ Back to top

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95

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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].

▲ Back to top

Copyright 2011 Sony Corporation

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

Digital Zoom

Selects the digital zoom mode. The camera enlarges the image using optical zoom (up to 4×). 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 (sQ)	Enlarges the image digitally within the range where the image will not be distorted, according to the image size (Smart zoom).
	Precision (PQ)	Enlarges all image sizes by the total zoom scale of approximately 8×, including the optical zoom 4×. 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
  - 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 [10M] or [16:9(7M)].
- The Face Detection function does not work when using the digital zoom.

Total zoom scale when using Smart zoom (including optical zoom 4×)

The supported zoom ratio differs depending on the image size.

Size	Total zoom scale
5M	Approx. 5.6×
VGA	Approx. 22×
16:9(2M)	Approx. 7.6×

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Red Eye Reduction

The flash strobes 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 strobes automatically to reduce the red-eye phenomenon.
	On	The flash always strobes 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.

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

▲ Back to top

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Language Setting

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

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

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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 → ●

✓	On	Displays the function guide.
	Off	Does not display the function guide.

▲ Back to top

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Display color

Sets the color of the screen display.

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

✅	Black	
	White	Sets the background color of the LCD screen.
	Pink	

▲ Back to top

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Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Power Save

Sets the time until the camera turns off.
If you do not operate the camera for a certain amount of time, the camera automatically turns off to prevent wearing down the batteries (Auto Power off).

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

	Stamina	The camera turns off after about 1 minute of no operation.
✓	Standard	The camera turns off after about 2 minutes of no operation.
	Off	The camera does not turn off automatically.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➡ Contents list

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.

▲ Back to top

Cyber-shot User Guide

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

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). |

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

USB Connect

Selects the USB mode when connecting the camera to a computer or a USB device using the dedicated USB cable.

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

	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)
✅	Mass Storage	Establishes a Mass Storage connection between the camera and a computer or other USB device.

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].

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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".

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

▲ Back to top

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Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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 9,999 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

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 "100" folder as a recording folder.
- You cannot move recorded images to another folder.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Delete REC. Folder

Deletes a folder for recording images in a memory card.

1. MENU → → ![ ](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.

▲ Back to top

Cyber-shot User Guide

Contents list

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 batteries with enough power remaining. If you attempt to copy image files using batteries with little remaining charge, the batteries 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.

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

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.)

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Area Setting

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

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

✔	Home	You use the camera in your area. When the currently set area differs from your home area, you must make the Area Setting.
	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 ● .

Area Setting
◎ Home
└ Tokyo/Seoul
◉ Destination   ✈
└ Lisbon/London
2011- 1- 1 12:00 PM
Back

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

✈ 2011- 1- 1 4:00 AM

GMT +0.0
Lisbon/London
● OK   ✧ Daylight Savings

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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 A/V OUT jack of the camera **(A)** and the audio / video input jacks on the TV **(B)** using the dedicated AV cable VMC-15CSR1 (sold separately) **(C)**.
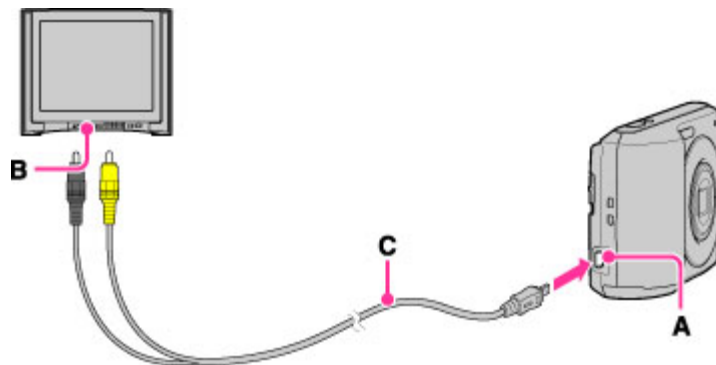
3. Turn on the TV and set the input.

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]
- During output to TV, [Easy Mode] is invalid.

▲ Back to top

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117

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➞ Contents list

Recommended computer environment (Windows)

The following computer environment is recommended when using the supplied software "PMB" or "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 Memory: 512 MB 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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➞ Contents list

Recommended computer environment (Macintosh)

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

OS (pre-installed)	USB Connection: Mac OS X (v10.3 to v10.6) 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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

"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] → [Export Media Files] 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).

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Installing "PMB" (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.
   - The computer may need to be restarted. 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 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.

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

➡ Contents list

Connecting the camera to the computer

1. Insert batteries with enough power remaining into the camera.

2. Turn on the computer, then press ▶ (Playback) button.

3. Connect the camera to your computer using a dedicated USB cable **(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

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

Contents list

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] → copy the desired images to the computer.

▲ Back to top

Copyright 2011 Sony Corporation

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

→ Contents list

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.

▲ Back to top

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➞ Contents list

Deleting the USB connection

Perform the procedures from step **1** to **3** below before:
- Disconnecting the dedicated USB 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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

"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.

▲ Back to top

Cyber-shot User Guide

Print

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

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 [×] 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 product is used for this purpose.
- When a bug occurs in "PMB Portable" or you delete "PMB Portable" by mistake, you can recover "PMB Portable" by downloading the PMB Portable installer from the website.

▲ Back to top

Cyber-shot User Guide

Print

- ‣ Operation Search
- ‣ Before Use
- ‣ Shooting
- ‣ Viewing
- ‣ Using MENU items (Shooting)
- ‣ Using MENU items (Viewing)
- ‣ Changing settings
- ‣ Viewing images on a TV
- ‣ Using with your computer
- ‣ Printing
- ‣ Troubleshooting
- ‣ Precautions / About this camera

➡ Contents list

Starting up "PMB Portable" (Macintosh)

For Macintosh, when using "PMB Portable" for the first time, you must install it and select the region. Follow the on-screen instructions to install "PMB Portable" and perform the procedure below. Once region selection has been made, steps **3** and **4** are unnecessary the next time you use "PMB Portable".

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 [×] 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 product is used for this purpose.
- When a bug occurs in "PMB Portable" or you delete "PMB Portable" by mistake, you can recover "PMB Portable" by downloading the PMB Portable installer from the website.
- Installing "PMB Portable" for Macintosh will delete "PMB Portable" for Windows from the camera.

▲ Back to top

Copyright 2011 Sony Corporation

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

▲ Back to top

Cyber-shot User Guide

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.
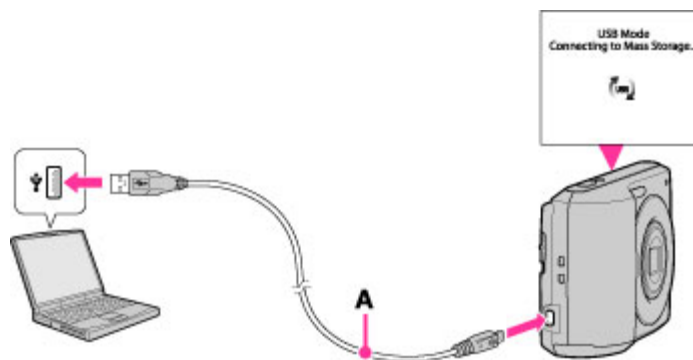
Related Topic
DPOF

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

2. Remove the batteries, wait for about one minute, re-insert the batteries, 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/

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Batteries and power

The remaining-charge indicator is incorrect, or sufficient remaining-charge indicator is displayed but the power runs out too quickly.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- When using alkaline batteries / Oxy Nickel Primary Battery (sold separately), the remaining-charge indicator may not be correct.
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries (sold separately).
- When using the Nickel-Metal Hydride batteries (sold separately), the poles of batteries or the terminals of the battery cover are dirty so the batteries are not charged sufficiently. Clean them with a cotton swab, etc..
- When using the Nickel-Metal Hydride batteries (sold separately), the remaining-charge indicator differs from the current one due to the memory effect, etc. Fully discharge and then charge the batteries to correct the display.
- The batteries are dead. Replace them with new ones.

The batteries run down too quickly.

- You are using the camera in an extremely cold location.
- The batteries are dead. Replace them with new ones.
- When using the Nickel-Metal Hydride batteries (sold separately), charge them sufficiently.

Camera power is turned off automatically when you open the battery / memory card cover.

- This is not a malfunction. Turn off the camera before you open the battery / memory card cover.

Cannot turn on the camera.

- Insert the batteries correctly.
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries (sold separately).
- The batteries are dead. Replace them with new ones.

The power turns off suddenly.

- 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 camera turns off automatically to prevent wearing down the batteries. Turn on the camera again.
- The batteries are discharged. Insert new batteries or charged Nickel-Metal Hydride batteries

(sold separately).

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Shooting still images / movies

Cannot record images.

- 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]
  – 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" media, "Memory Stick PRO-HG Duo" media
  – SD card (Class 2 or faster)

- Set the mode switch to ▢ (Still Image) when shooting still images.

- Set the mode switch to ▦ (Movie) when shooting movies.

Smile Shutter function does not work.

- No image is shot if a smiling face is not detected. [Details]

Anti-blur function does not work.

- The anti-blur function does not work when 🖐 appears on the display.

- The anti-blur function may not work properly when shooting night scenes.

- Shoot after pressing the shutter button halfway down.

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) / 50 cm (1 ft 7 3/4 inches) (T) from the lens).

- ◗ (Twilight) or ⛰ (Landscape) 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 change the zoom scale when shooting movies.

- You cannot use the Smart zoom depending on the image size. [Details]

- You cannot use the digital zoom when:
  – Shooting movies.
  –

135

- 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]
  - ISO (High Sensitivity) or ☽ (Twilight) 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) or ☽ (Twilight) 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]

- The battery level is low. Insert new batteries or charged Nickel-Metal Hydride batteries (sold separately).

The same image is shot several times.

- Set [Burst Settings] to [Single]. [Details]

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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]

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]

Cannot display images in index mode.

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

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]

▲ Back to top

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138

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Deleting

Cannot delete an image.

- Cancel the protection. [Details]

▲ Back to top

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139

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. [Details] The computer recognizes the "Memory Stick PRO Duo" media.

Your computer does not recognize the camera.

- When the battery level is low, insert new batteries or charged Nickel-Metal Hydride batteries (sold separately).

- Set [USB Connect] to [Mass Storage]. [Details]

- Use the dedicated USB cable (supplied).

- Disconnect the dedicated USB cable 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".

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

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.

Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

▲ Back to top

→ Contents list

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.

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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.

- Insert new batteries or charged Nickel-Metal Hydride batteries (sold separately), 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 batteries with enough power remaining, 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].

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Messages

If the following messages appear, follow the instructions.

- The battery level is low. Insert new batteries or charged Nickel-Metal Hydride batteries (sold separately). Depending on the conditions of use or the type of battery, the indicator may flash even though there are still 5 minutes to 10 minutes of remaining battery time left.

System error

- Turn the power off and then on again.

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]

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.

146

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

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.

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, turn on the anti-blur function, or mount the camera on a tripod to secure the camera.

Turn the power off and on again

- The lens malfunction.

VGA is not supported with this memory card

- For recording movies, it is recommended that you use a memory card of 1 GB or larger.

Maximum number of images already selected

- Up to 100 files can be selected when using [Multiple Images].

- You can add DPOF (Print order) marks to up to 999 files.

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.

No internal memory space remaining
Delete all images?

- The internal memory is full. To record to the internal memory, select [Yes] and delete unwanted images.

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Precautions

▼ Internal memory and memory card back up
▼ Do not use / store the camera in the following places
▼ On carrying
▼ On operating temperatures
▼ On moisture condensation
▼ On image data compatibility
▼ Notes on the LCD screen and lens

Internal memory and memory card back up

- Do not turn off the camera, remove the batteries, 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.

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.

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.

- ▸ Operation Search
- ▸ Before Use
- ▸ Shooting
- ▸ Viewing
- ▸ Using MENU items (Shooting)
- ▸ Using MENU items (Viewing)
- ▸ Changing settings
- ▸ Viewing images on a TV
- ▸ Using with your computer
- ▸ Printing
- ▸ Troubleshooting
- ▸ Precautions / About this camera

→ Contents list

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 batteries with enough power remaining into the camera, and then leave the camera for 24 hours or more with the power off.

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Batteries

▼ On the battery
▼ About the remaining battery charge
▼ Batteries you can and cannot use with your camera
▼ On alkaline batteries (supplied) / Oxy Nickel Primary Battery (sold separately)
▼ On Nickel-Metal Hydride batteries (sold separately)

On the battery

- Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the battery.
- Do not use a deformed or damaged battery.
- Do not mix a used battery together with a new battery or different types of batteries.
- Remove the batteries from the camera when you do not operate the camera for long periods, or when the batteries are dead.

About the remaining battery charge

A: High
B: Low

- A remaining charge indicator appears on the LCD screen.
- 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).

Batteries you can and cannot use with your camera

In the table below, ○ indicates the battery can be used, while — indicates the one cannot be used.

Battery type	Supplied	Supported	Rechargeable
LR6 (size AA) alkaline batteries*	○	○	—
HR 15/51: HR6 (size AA) Nickel-Metal Hydride batteries*	—	○	○
ZR6 (size AA) Oxy Nickel Primary batteries*	—	○	—
Lithium batteries	—	—	—
Manganese batteries	—	—	—

Ni-Cd batteries	—	—	—

* Before using batteries, read the following precaution for each type of battery.

As for unsupported batteries, operating performance cannot be ensured if voltage drops or other problems are caused by the nature of the battery.

On alkaline batteries (supplied) / Oxy Nickel Primary Battery (sold separately)

- Alkaline batteries / Oxy Nickel Primary Battery cannot be charged.
- Alkaline batteries / Oxy Nickel Primary Battery have a shorter life compared to the Nickel-Metal Hydride batteries. For this reason, the power may turn off even though the remaining-charge indicator shows sufficient battery life remaining.
- Battery performance differs greatly depending on the manufacturer and the type of battery, and in some cases the battery life may be extremely short. This is especially true at low temperatures, and you may not be able to shoot at temperatures below 5°C (41°F).
- Do not mix new and old batteries.
- The remaining-charge indicator may not display the correct information when using alkaline batteries / Oxy Nickel Primary Battery.
- Due to characteristics of alkaline batteries / Oxy Nickel Primary Battery, there is a large difference between the available shooting time and the available playback time. For this reason, the camera may turn off with the lens portion extended when you switch the mode switch. In this case, replace the batteries with new ones. Using the Nickel-Metal Hydride batteries allows you to shoot for longer periods of time.

On Nickel-Metal Hydride batteries (sold separately)

- Do not peel off the external seals or damage the batteries. Never use batteries from which the seals have been partially or completely removed, or batteries that have been split in any way. These may cause leakage, explosion, or heat-up of the battery, and personal scald or injury may be caused. These may cause a malfunction of the battery charger.
- Do not carry or store the Nickel-Metal Hydride batteries with metallic objects. Since metallic objects may short the + and – ends, resulting in the risk of heating or fire.
- If the poles of the Nickel-Metal Hydride batteries are dirty, the batteries may not charge properly. Wipe them with a dry cloth, etc.
- At the time of purchase, or when the Nickel-Metal Hydride batteries have not been used for a long time, they may not full charge. This is typical of this type of battery, and is not a malfunction. If this happens, repeatedly using up the batteries fully, and then recharging them should correct the problem.
- If you recharge Nickel-Metal Hydride batteries before fully using up the existing charge, the low battery warning may be displayed sooner than expected. This is called the "memory effect."* If this problem occurs, charging the batteries only after using up the existing charge will correct it.
    * The "memory effect" – the situation in which the capacity of the battery is temporarily lowered.
- To use up the batteries completely, put the camera in the slideshow mode and leave it that way until the batteries are used up.
- Do not mix new and used batteries.
- Do not expose the battery to water. The battery is not water-resistant.

▲ Back to top

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

Memory card

▼ Memory card
▼ Note on using the memory card adaptor (sold separately)
▼ "Memory Stick" media
▼ When using a "Memory Stick Duo" media with standard sized "Memory Stick" media slot
▼ Notes on using a "Memory Stick Micro" media (sold separately)

Memory card

The following memory cards are compatible with this camera: "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media, "Memory Stick Duo" media, SD memory cards and SDHC memory cards. However, all memory cards are not guaranteed to work with this camera. MultiMediaCard is not compatible.
In this Users 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 are called SD cards.

- A memory card with a capacity up to 32 GB have been confirmed to operate properly with the camera.
- When recording movies, it is recommended that you use the following memory cards:
  - MEMORY STICK PRO DUO ("Memory Stick PRO Duo" media)
  - MEMORY STICK PRO-HG DUO ("Memory Stick PRO-HG Duo" media)
  - SD card (Class 2 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 [VGA] 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.

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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, benzine, 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.

▲ Back to top

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Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Number of still images

(Units: Images)

Size	Internal memory	Memory card formatted with this camera				
	Approx. 6 MB	2 GB	4 GB	8 GB	16 GB	32 GB
10M	1	440	880	1750	3500	7000
5M	2	700	1400	2800	5600	11000
VGA	35	11000	22000	45000	90000	180000
16:9(7M)	1	520	1000	2000	4050	8100
16:9(2M)	7	2300	4700	9300	18000	37000

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.

▲ Back to top

Copyright 2011 Sony Corporation

Cyber-shot User Guide

Print

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

➡ Contents list

Recordable time of movies

The table below shows the approximate maximum recording times. These are the total times for all movie files.
(Units: hour : minute : second)

Quality / Size	Internal memory	Memory card formatted with this camera				
	Approx. 6 MB	2 GB	4 GB	8 GB	16 GB	32 GB
VGA	00:00:05	00:25:00	00:50:00	01:40:00	03:30:00	07:00:00
QVGA	00:00:15	01:15:00	02:30:00	05:00:00	10:00:00	20:00:00

Note
- The recordable time of movies may vary depending on the shooting conditions (temperature, etc.). The value above applies when DISP (Screen Display Settings) is set to [Normal].
- The recordable movie file size is up to approx. 2 GB for each file. If the file size reaches approx. 2 GB, the camera stops recording the movie automatically.

▲ Back to top

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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 dedicated A/V cable (sold separately). 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, Rumania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.

PAL-M system
Brazil

PAL-N system
Argentina, Paraguay, Uruguay

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

▲ Back to top

- Operation Search
- Before Use
- Shooting
- Viewing
- Using MENU items (Shooting)
- Using MENU items (Viewing)
- Changing settings
- Viewing images on a TV
- Using with your computer
- Printing
- Troubleshooting
- Precautions / About this camera

→ Contents list

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▲ Back to top