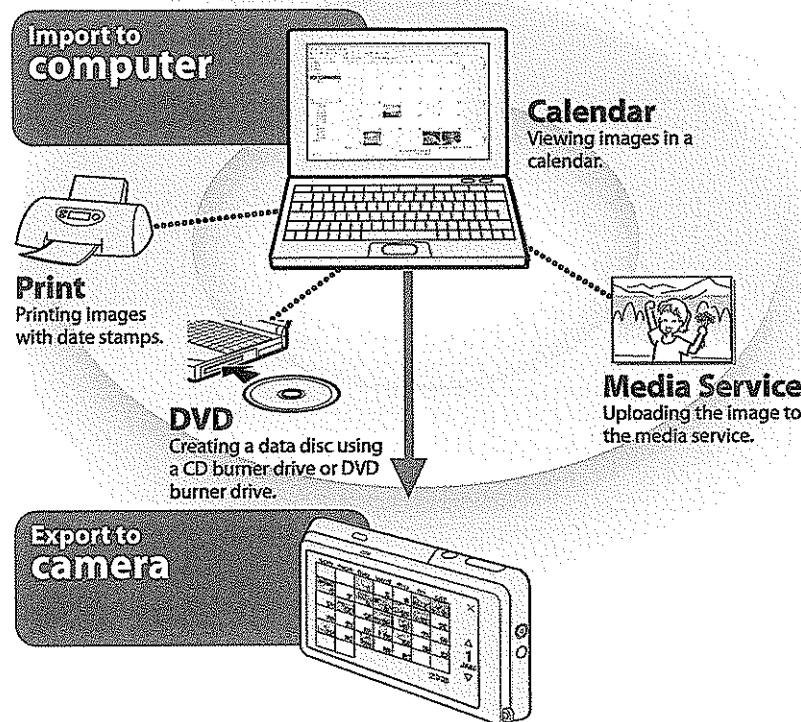


Using the camera with a computer

Using "PMB (Picture Motion Browser)"

You can enjoy the recorded still images and movies more than ever by taking advantage of the software, and "PMB" is included on a CD-ROM (supplied).

There are more functions, in addition to those listed below, for enjoying your still images and movies. For details, see "PMB Guide".



Using "PMB Portable"

The camera has a built-in application "PMB Portable" that lets you easily upload images to a media service. You can also upload images with this application from a computer that does not have "PMB" installed. For details, see the "PMB Portable" help.

Note

• "PMB" and "PMB Portable" are not compatible with Macintosh computers.

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■ Installing the "PMB" (supplied)

You can install the software (supplied) using the following procedure. When you install "PMB," "Music Transfer" is also installed.

- Log on as Administrator.

1 Check your computer environment.

Recommended environment for using "PMB" and "Music Transfer"

OS (pre-installed): Microsoft Windows 2000 Professional SP4/Windows XP* SP3/Windows Vista SP1*

CPU: Intel Pentium III 500 MHz or faster (Recommended: Intel Pentium III 800 MHz or faster)

Memory: 256 MB or more (Recommended: 512 MB or more)

Hard Disk: Disk space required for installation—approximately 400 MB

Display: Screen resolution: 1,024 × 768 dots or more

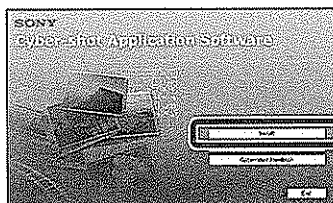
- 64-bit editions and Starter (Edition) are not supported.

2 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

The installation menu screen appears.

3 Click [Install].


The "Choose Setup Language" screen appears.



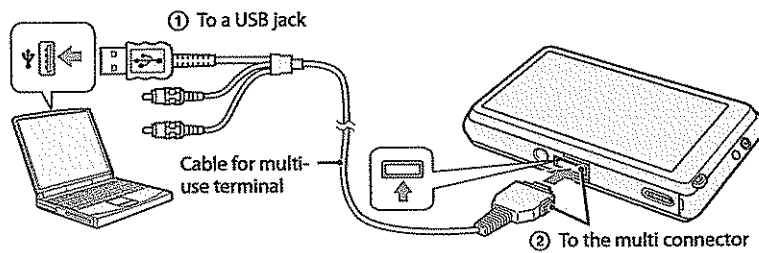
4 Follow the instructions on the screen to complete the installation.



5 Remove the CD-ROM after the installation is complete.

Importing images to your computer using "PMB"

1 Insert a fully charged battery pack to the camera, then press the  (Playback) button.

2 Connect the camera to your computer.
"Connecting..." appears on the screen of the camera.



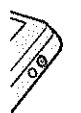
-  is displayed on the screen during the communication session. Do not operate the computer while the indicator is displayed. When the indicator changes to , you can start using the computer again.

2 Click the [Import] button.
For details, see the "PMB Guide".

Notes

- Do not disconnect the cable for multi-use terminal from the camera while the camera is operating or while "Accessing..." appears on the screen of the camera. Doing so may corrupt the data.
- When using a battery with little remaining charge, you may not be able to transfer the data or the data may be corrupted. Using the AC Adaptor (not supplied) and the USB / A/V / DC IN cable for multi-use terminal (not supplied) is recommended.

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

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
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Exporting images to the camera using "PMB"

You can select and export images that have not been exported to the internal memory automatically.

- 1 Connect the camera to your computer.
If the AutoPlay Wizard appears, close it.
- 2 Double-click  (PMB) on the desktop to start up "PMB".
- 3 Click  on the top of the screen.
The easy export screen appears.
For details, see the "PMB Guide".

Viewing "PMB Guide"

- 1 Double-click the  (PMB Guide) icon on the desktop.
 - To access the "PMB Guide" from the start menu: Click [Start] → [All Programs] → [Sony Picture Utility] → [Help] → [PMB Guide].

Connecting to other devices

Using "PMB Portable"

- 1 Connect the camera to your computer.**

When you connect the camera and your computer, AutoPlay Wizard [PMBPORTABLE] appears.

 - If the desired AutoPlay Wizard does not appear, click [Computer] (in Windows XP/2000, [My Computer]) → [PMBPORTABLE], then double-click "PMB_Rexe".
- 2 Click "PMB Portable" in AutoPlay Wizard.**

The User Agreement screen appears.
- 3 Follow the instructions on the screen to complete the installation.**

"PMB Portable" starts up.
For details, see the "PMB Portable" help.

Note

- Always connect to a network when using "PMB Portable".

Using the camera with your Macintosh computer

You can copy images to your Macintosh computer. "PMB" is not compatible, but you can install "Music Transfer" on your Macintosh computer. When images are exported to the camera, view them in [Folder View].

Recommended computer environment

The following environment is recommended for a computer connected to the camera.

Recommended environment for importing images

OS (pre-installed): Mac OS 9.1/9.2/ Mac OS X (v10.1 to v10.5)

USB jack: Provided as standard

Recommended environment for using "Music Transfer"

OS (pre-installed): Mac OS X (v10.3 to v10.5)


Memory: 64 MB or more (128 MB or more is recommended)

Hard Disk: Disk space required for installation—approximately 250 MB


Changing the screen display

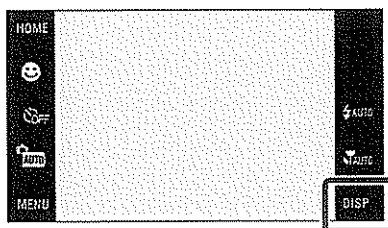
1 Touch **DISP** → desired mode

→ **OK**

 (Normal): Displays buttons and icons

 (Simple): Displays only buttons

 (Image Only): Hides buttons and icons



Note

- **DISP** disappears from the screen if [Image Only] playback is selected. To display the buttons, touch the center of the screen. The [Normal] display returns temporarily.



Histogram and brightness settings

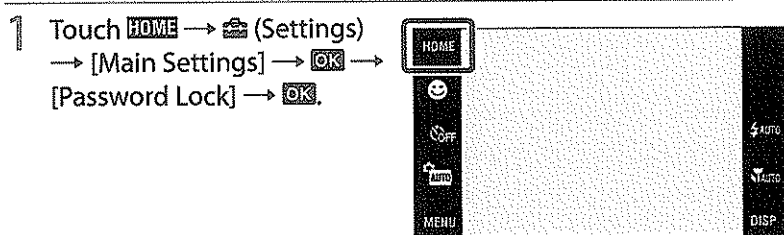
The following setting can be accessed by touching **DISP**.

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

Brightness: This sets the backlight brightness ([Normal]/[Bright]). When viewing images in bright outside light, reset to [Bright]. However, the battery power may decrease faster under such condition.

Setting the password lock for the internal memory

You can set a password to prevent the playback of images in the internal memory.



2 Input the 4-digit number of your choice → touch [OK].

3 Input the same 4-digit number again → touch [OK] → [OK].


4 Turn off the camera.

Password Lock is enabled starting from the next playback.

Entering the password and playing back images

The password input screen appears → input the password number which you set → touch [OK].

Releasing the password lock of the camera


Touch **HOME** →  (Settings) → [Main Settings] → **OK** → [Password Lock] → **OK** → input the password number which you set → [OK] → [OK].

Note

- You cannot set the password for "Memory Stick Duo" images.



What to do when you have forgotten the password

- Slide the lens cover.
- Press the **POWER** button to turn off the camera.
- Press  (Playback) button while pressing the **W** side of the zoom (**W/T**) button.
- The power is now turned on, and the password release screen appears → touch [OK].
- Enter the password release number (page 62) → touch [OK] → [OK].

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Shooting

Item
Shooting

View

Item
Date View
Event View
Favorites
Folder Vi

View

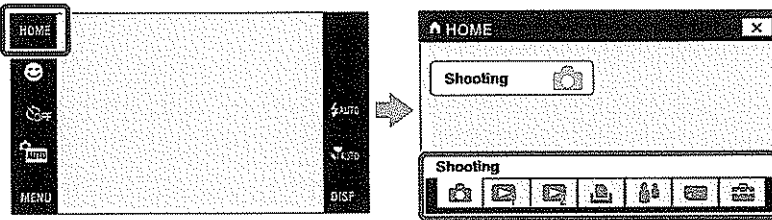
Item
Slideshow
Music To
Scrapbo

Print

Item
Print

Using the HOME screen

On the HOME screen, camera operations are organized for convenience into broad categories for selection, such as shooting, viewing and printing images. Only the available items are displayed on the screen.



Shooting

Item	Description
Shooting	Records still images or movies.

View Images 1

Item	Description
Date View	Displays images by the date.
Event View	Analyzes the dates shots and frequency, automatically organizes the images into groups and displays them.
Favorites	Displays images registered as Favorites.
Folder View	Displays and organizes images by folders.

View Images 2

Item	Description
Slideshow	Plays back images in succession along with effects and music.
Music Tool	Download Music: Changes the slideshow music. Format Music: Deletes all slideshow music.
Scrapbook	Attaches a background and displays images like a photo album.

Print

Item	Description
Print	Prints still images.

Changing camera settings

Communication

Item	Description
Network	<p>Upload Images/Browse the Web: Displays the web browser.</p> <p>Be Viewed: Allows you to operate the camera via DLNA-enabled device and view images on the camera.</p> <p>Send and View: Allows you to send images to the DLNA-enabled device and view the images.</p> <p>Network Settings: Sets the network connection settings. (Access Point/Nickname/Network Power Save/Time Zone/Initialize)</p>

Item
Shooting Shooting
Shooting Shooting
Clock Set
Language

Manage Memory

Item	Description
Memory Tool	<p>Format: Formats recording media.</p> <p>Create REC.Folder: Creates a new folder on recording media.</p> <p>Change REC.Folder: Changes the folder used for recording images.</p>

Settings

Item	Description
Main Settings - Main Settings 1	<p>Beep: Selects the beeps produced when you operate the camera.</p> <p>Function Guide: Displays the function guide.</p> <p>Initialize: Restores the camera to its default settings.</p> <p>Calibration: Corrects misalignment of the response positions of the buttons on the touch panel.</p> <p>Demo Mode: Demonstrates the Smile Shutter and Scene Recognition function.</p>
Main Settings - Main Settings 2	<p>USB Connect: Sets the mode used when connecting the camera to a computer or a printer.</p> <p>LUN Settings: Sets the recording media to be displayed on a computer or other device when connecting the camera using a USB connection.</p> <p>COMPONENT: Sets the video signal according to a connected TV terminal.</p> <p>Video Out: Sets the mode according to the video output system to be connected.</p> <p>TV TYPE: Set to the aspect ratio of a TV to be connected.</p> <p>Password Lock: Sets the password for images in the internal memory.</p>

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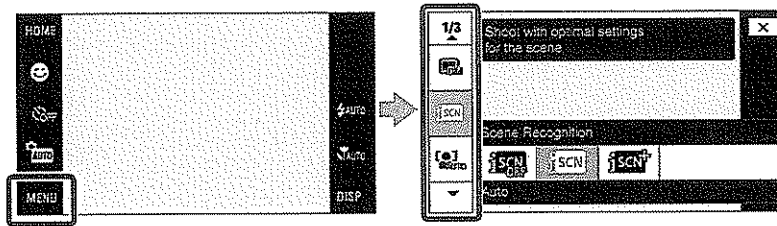
internal

Item	Description
Shooting Settings - Shooting Settings 1	<p>AF Illuminator: Strobes the fill light when focusing in low light.</p> <p>Grid Line: Displays lines to easily set a subject in a horizontal or vertical position.</p> <p>AF Mode: Selects the auto focus operation mode.</p> <p>Digital Zoom: Selects the digital zoom method.</p>
Shooting Settings - Shooting Settings 2	<p>Auto Orientation: Recognizes the orientation change and saves the image in the proper orientation.</p> <p>Auto Review: Displays the image on the screen for approximately two seconds after shooting a still image.</p>
Clock Settings	Sets the date and time.
Language Setting	Selects the language to be used in the menu items, warnings and messages.

Changing camera settings

Using the MENU items

Displays available functions for easy setting when the camera is in shooting or playback mode. Only the available items are displayed on the screen.



MENU in shooting mode

Item	Description
Image Size	Sets the image size. (10M/5M/3M/VGA/3:2(8M)/16:9(7M)/16:9(2M)/FINE 640(Fine)/STD 640(Standard)/320 320)
Scene Recognition	Automatically detects the shooting conditions and then takes the shot. (Off/Auto/Advanced)
Face Detection	Selects the priority subject for adjusting the focus when using face detection. (When touched/Auto/Child Priority/Adult Priority)
Smile Detection Sensitivity	Sets the level of sensitivity to detect smile. (Low/Medium/High)
REC Mode	Selects the continuous shooting method. (Normal/Burst/BRK±0.3EV, BRK±0.7EV, BRK±1.0EV)
EV	Adjusts exposure manually. (-2.0EV to +2.0EV)
Metering Mode	Sets which part of the subject to measure to determine the exposure. (Multi/Center)
Focus	Changes the focus method. (Multi AF/∞ unlimited distance)
White Balance	Adjusts color tones according to the surrounding light conditions. (Auto/Daylight/Cloudy/Fluorescent Light 1, Fluorescent Light 2, Fluorescent Light 3/Incandescent/Flash)
Flash Level	Adjusts the amount of flash light. (- / Standard / +)
Anti Blink	Sets Anti Blink function. (Auto/Off)

52

Item
Red Eye 1
DRO
Color M
SteadySh
Shooting
MENU
Item
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(Even)
(Select)
(Vi)
(Filter)
(Slide)
(Scrs)
(Add Favorites)
(Add Sharema)
(Ret)
(Pain)
(Mu)
(Delet)

ayback


















Item	Description
Red Eye Reduction	Sets to reduce the red-eye phenomenon. (Auto/ On/ Off)
DRO	Optimizes the brightness and contrast. (Off/ DRO standard/ Plus DRO plus)
Color Mode	Changes the vividness of the image or adds special effects. (Normal/ Vivid/ Sepia/ B & W)
SteadyShot	Selects the anti-blur mode. (Shooting/ Continuous/ Off)
Shooting Settings	Selects the shooting settings.


MENU in viewing mode

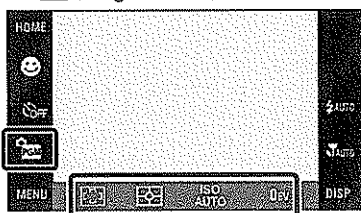
Item	Description
(Date List)	Selects the playback date list.
(Event List)	Selects the event group to be played back.
(Select Folder)	Selects the folder for viewing images.
(View Mode)	Switches the View Modes. (Date View/ Event View/ Favorites/ Folder View)
(Filter by Faces)	Plays back images filtered to meet certain conditions. (Off/ All people/ Children/ Infants/ Smiles)
(Slideshow)	Plays back images in succession along with effects and music.
(Scrapbook)	Attaches a background and displays images like a photo album.
(Add / Remove Favorites)	Adds images to Favorites or removes images from Favorites. (This Image/ Multiple Images/ Add All in Date Range* / Remove All in Date Range*) * The displayed text differs according to each View Mode.
(Add / Remove Sharemark)	Registers/cancels registration of images to be uploaded to a media service. (This Image/ Multiple Images/ Add All in Date Range* / Remove All in Date Range*) * The displayed text differs according to each View Mode.
(Retouch)	Retouches still images. (Trimming/ Red Eye Correction/ Unsharp masking/ Soft Focus/ Partial Color/ Fisheye Lens/ Cross Filter/ Radial Blur/ Retro/ Happy Faces)
(Paint)	Paints on a still image and saves as a new image.
(Multi-Purpose Resize)	Changes the image size according to usage. (HDTV/ Blog/E-mail)
(Delete)	Deletes images. (This Image/ Multiple Images/ All in Date Range*) * The displayed text differs according to each View Mode.











Changing camera settings

Item	Description
 (Protect)	Prevents accidental erasure.  This Image/  Multiple Images/  Set All in Date Range*/  Remove All in Date Range* * The displayed text differs according to each View Mode.
DPOF	Adds a Print order mark to the images you want to print in a "Memory Stick Duo".  This Image/  Multiple Images/  Set All in Date Range*/  Remove All in Date Range* * The displayed text differs according to each View Mode.
 (Print)	Prints images using a PictBridge compliant printer.  This Image/  Multiple Images/  All in Date Range* * The displayed text differs according to each View Mode.
 (Rotate)	Rotates a still image.
 (Volume Settings)	Adjusts the volume.

Using functions in Program Auto mode

You can change the Focus, Metering Mode, ISO, and EV settings when [REC Mode] is set to  (Program Auto).



Item	Description
 (Focus)	Changes the focus method.  Multi AF/  Center AF/  Spot AF/1.0m/3.0m/7.0m/ ∞ unlimited distance)
 (Metering Mode)	Measures the metering area.  Multi/  Center/  Spot)
 (ISO)	Sets the ISO sensitivity. (ISO AUTO/ISO80 to ISO3200)
 (EV)	Adjusts the exposure. (-2.0EV to +2.0EV)

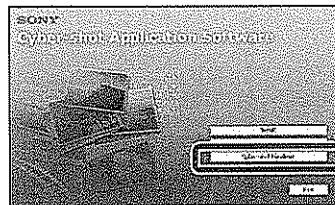
Viewing "Cyber-shot Handbook"

"Cyber-shot Handbook", which explains how to use the camera in detail, is included on the CD-ROM (supplied). Refer to it for in-depth instructions on the many functions of the camera.

For Windows users

1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

2 Click "Cyber-shot Handbook".
"Cyber-shot Step-up Guide", which contains information on accessories for the camera, is installed at the same time.



3 Start "Cyber-shot Handbook" from the shortcut on the desktop.

Others

For Macintosh users

1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

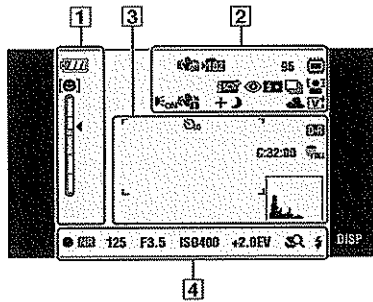
2 Select the [Handbook] folder and copy "Handbook.pdf" stored in the [GB] folder to your computer.

3 After copying is complete, double-click "Handbook.pdf".

List of icons displayed on the screen

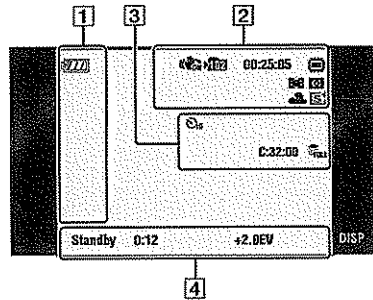
Icons are displayed on the screen to indicate the camera status. You can select the display settings by touching the **DISP** indication on the bottom right of the screen (page 47).

When shooting still images

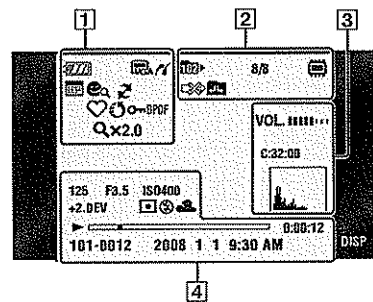


- The icons are limited in **EASY** (Easy Shooting) mode.

When shooting movies



When playing back



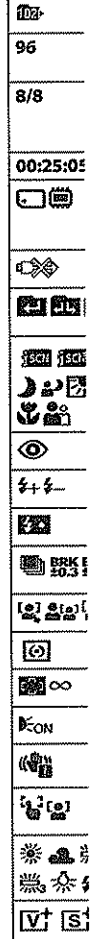
1

Display	Indication
	Battery remaining
	Low battery warning
	Image size
	PictBridge connecting
	Smile Detection Sensitivity indicator
	Zoom scaling
	View Mode
	Filter by Faces
	PMB export
	Favorites
	Sharemark
	Protect
	Print order (DPOF) mark
	Playback zoom

2

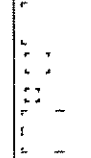
Display	Indication
	SteadyShot
	Recording folder

Display



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Display	Indication
	Playback folder
96	Number of recordable images
8/8	Image number/Number of images recorded in selected folder
00:25:05	Recordable time (h:m:s)
	Recording/Playback Media ("Memory Stick Duo", internal memory)
	PictBridge connecting
	Changing folder
	Scene Recognition
	Red-eye reduction
	Flash level
	Flash charging
	Recording mode
	Face Detection
	Metering Mode
	Focus
	AF illuminator
	Vibration warning
	Touch AF indicator
	White balance
	Color mode

3

Display	Indication
	AF range finder frame

Display	Indication
	Self-timer
	DRO
	Management file full
VOL. IIII	Volume
C:32:00	Self-diagnosis display
	Histogram • appears when histogram display is disabled.

4

Display	Indication
	AE/AF lock
NR	NR slow shutter
125	Shutter speed
F3.5	Aperture value
ISO400	ISO number
+2.0EV	Exposure Value
	Metering mode
	Flash
AWB	White balance
	Macro/Close focus • Displayed when [Display Setup] is set to [Image Only].
	Flash mode • Displayed when [Display Setup] is set to [Image Only].
REC Standby	Recording a movie/Standby a movie
0:12	Recording time (m:s)
	Playback
	Playback bar
0:00:12	Counter
101-0012	Folder-file number
2008 1 1 9:30 AM	Recorded date/time of the playback image

Others

Troubleshooting

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

- 1 Check the items below, and refer to "Cyber-shot Handbook" (PDF).
If a code such as "C/E:□□:□□" appears on the screen, refer to "Cyber-shot Handbook".

- 2 Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.

- 3 Initialize the settings (page 50).

- 4 Consult your Sony dealer or local authorized Sony service facility.

On repairing cameras with internal memory or Music files function included, data in the camera may be checked on minimum necessity to verify and improve the malfunction symptoms. Sony will not copy or save any of those data.

Battery pack and power

Cannot insert the battery pack.

- Insert the battery pack correctly to push the battery eject lever (page 15).

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Insert the battery pack correctly (page 15).
- The battery pack is discharged. Insert a charged battery pack (page 13).
- The battery pack is dead. Replace it with a new one.
- Use a recommended battery pack.

The power turns off suddenly.

- If you do not operate the camera for about three minutes while the power is on, the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again (page 17).
- The battery pack is dead. Replace it with a new one.

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The remaining charge indicator is incorrect.

- The battery charge is quickly used up in the following cases:
 - When you use the camera in an extremely hot or cold location.
 - When you use the flash and zoom frequently.
 - When you repeatedly turn the power on and off.
 - When [Brightness] of the **DISP** (screen display) is set to [Bright].
- A discrepancy arose between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication.
- The battery pack is discharged. Insert the charged battery pack (page 13).
- The battery pack is dead. Replace it with a new one.

Cannot charge the battery pack while inside the camera.

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

Shooting still images/movies

Cannot record images.

- Check the free capacity of the internal memory or "Memory Stick Duo" (page 32). If it is full, do one of the following:
 - Delete unnecessary images.
 - Change the "Memory Stick Duo".
- You cannot record images while charging the flash.
- When shooting a still image, set the shooting mode other than **M** (Movie).
- Set the shooting mode to **M** (Movie) when shooting movies.
- The image size is set to [640(Fine)] when recording movies. Do one of the following:
 - Set the image size to other than [640(Fine)].
 - Record images in the internal memory or on a "Memory Stick PRO Duo".

Vertical streaks appear when you are shooting a very bright subject.

- The smear phenomenon is occurring and white, black, red, purple or other streaks appear on the image. This phenomenon is not a malfunction.

Viewing images

Cannot play back images.

- Press **▶** (Playback) button (page 21).
- 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.
- You may not be able to play back some images stored on the "Memory Stick Duo" shot using other cameras. Play such images in Folder View (page 36).
- This is caused by copying images on your computer to the "Memory Stick Duo" without using the "PMB". Play such images in Folder View (page 36).

Others

Wireless network

Cannot establish a connection with the Wireless LAN access point.

- Check to make sure the power of the Wireless LAN access point is on.
- The communication range may be shortened by the surrounding conditions, such as various obstacles, radio wave traffic, and the wall material between this camera and the Wireless LAN access point. Change the location of the camera or move the camera closer to the access point.
- Check whether an encryption key (WEP/WPA) or other special settings (Fixed IP address, proxy settings, etc.) are needed to connect to the access point.
- When the access point is set so that the SSID is hidden, the SSID may not be displayed on the network list. Check the SSID of the access point with an administrator and make settings manually. Or cancel the setting on the access point.
- You may be unable to use the internet at public Wireless LAN access points unless you use the Web or another method to enter your login ID, password, or other identifying information. Check with the wireless network service that you are connecting to.
- Microwave ovens or Bluetooth-enabled devices use the 2.4 GHz wavelength and could hinder the communication. If such devices are in the vicinity, move the camera away from those devices or shut those devices down.

Cannot enter the encryption key.

- For details on the verification method used for the encryption key (WEP key or WPA key), see the operation manual for the access point or the information listed on the bottom panel of the device.
- The number of characters and numbers that can be input differs depending on the encryption type.

The MAC address of this camera is unknown.

- To check the MAC address, enter an invalid SSID and test the connection to force a connection failure. The MAC address of this camera will be displayed after the connection test.

It takes too much time to transfer an image.

- The communication range may be shortened by the surrounding conditions, such as various obstacles, radio wave traffic, and the wall material between the devices or between this camera and the Wireless LAN access point. Change the location of the devices, put the devices closer together, or move the camera closer to the access point.
- You may be getting a crossed connection with another Wireless LAN access point. Set the wireless channel at the Wireless LAN access point. For further information, refer to the operating manual of the Wireless LAN access point.
- Microwave ovens or Bluetooth-enabled devices use the 2.4 GHz wavelength and could hinder the communication. If such devices are in the vicinity, move the camera away from those devices or shut those devices down.

Cannot connect to a hotspot (public Wireless LAN access point) service.

- Check with the hotspot service provider that you have contracted with.

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Precautions

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 cleaning

Cleaning the LCD screen

Wipe the screen surface with an LCD cleaning kit (not supplied) to remove fingerprints, dust, etc.

Cleaning the lens

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

Cleaning the camera surface

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

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

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 the internal rechargeable backup battery

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

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

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

Charging method of the internal rechargeable backup battery

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

Precaution when disposing of the camera

Formatting the camera does not completely delete all of the data in the internal memory. Therefore, when disposing of the camera, physically destroying the camera is recommended.

Specifications

Camera

[System]

Image device: 7.7 mm (1/2.3 type) color CCD,
Primary color filter

Total pixel number of camera:

Approx. 10.3 Megapixels

Effective pixel number of camera:

Approx. 10.1 Megapixels

Lens: Carl Zeiss Vario-Tessar 4× zoom lens
f = 6.18 – 24.7 mm (35 – 140 mm (35 mm
film equivalent))
F3.5 (W) – F4.6 (T)

Exposure control: Automatic exposure, Scene
Selection (10 modes)

White balance: Automatic, Daylight, Cloudy,
Fluorescent 1,2,3, Incandescent, Flash

File format (DCF compliant):

Still images: Exif Ver. 2.21 JPEG compliant,
DPOF compatible

Movies: MPEG1 compliant (Monaural)

Recording media: Internal Memory
(approx. 4 GB*), "Memory Stick Duo"

* When measuring media capacity, 1GB equals
1 billion bytes, a portion of which is used for
system management and/or application files.

The capacity that a user can use is
approximately 3.71 GB.

Flash: Flash range (ISO sensitivity
(Recommended exposure Index) set to Auto):
Approx. 0.08 to 4.3 m (3 1/4 inches to 14 feet
1 3/8 inches) (W)/
approx. 0.5 to 3.4 m (1 feet 7 3/4 inches to
11 feet 1 7/8 inches) (T)

[Input and Output connectors]

Multi connector: Video output
Audio output (Monaural)
USB communication

USB communication: Hi-Speed USB (USB 2.0
compliant)

[LCD screen]

LCD panel: Wide (16:9), 8.8 cm (3.5 type) TFT
drive

Total number of dots: 921 600 (1920 × 480) dots

[Power, general]

Power: Rechargeable battery pack NP-BD1, 3.6 V
NP-FD1 (not supplied), 3.6 V

AC-LS5K AC Adaptor (not supplied), 4.2 V

Power consumption (during shooting): 1.2 W

Operating temperature: 0 to 40°C (32 to 104°F)

Storage temperature: -20 to +60°C (-4 to +140°F)

Dimensions

During shooting: 123.7 × 62.3 × 19.4 mm
(4 7/8 × 2 1/2 × 25/32 inches) (W/H/D,
excluding protrusions)

During playback: 101.7 × 62.3 × 19.4 mm
(4 1/8 × 2 1/2 × 25/32 inches) (W/H/D,
excluding protrusions)

Mass (including NP-BD1 battery pack and strap
etc.): Approx. 198 g (7.0 oz)

Microphone: Monaural

Speaker: Monaural

Exif Print: Compatible

PRINT Image Matching III: Compatible

PictBridge: Compatible

[Password]

Release number: 7669

[Wireless LAN]

Standards: IEEE802.11b/g

Channel: 1 to 11 (USA, Canada, Taiwan)

1 to 13 (EU, China, Hong Kong, South Korea)

BC-CSD battery charger

Power requirements: AC 100 V to 240 V,
50/60 Hz, 2.2 W

Output voltage: DC 4.2 V, 0.33 A

Operating temperature: 0 to 40°C (32 to 104°F)

Storage temperature: -20 to +60°C (-4 to +140°F)

Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 ×
3 1/32 × 3 5/8 inches) (W/H/D)

Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NP-BD1

Used battery: Lithium-ion battery

Maximum voltage: DC 4.2 V

Nominal voltage: DC 3.6 V

Capacity: 2.4 Wh (680 mAh)

Design and specifications are subject to change
without notice.

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Others

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

En la página Web de atención al cliente puede encontrar información adicional sobre este producto y respuesta a las preguntas hechas con más frecuencia.

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



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