

Network Sharing Camera Handbook

NSC-GC1/GC3



Notes on using your camera

Types of "Memory Stick" that can be used (not supplied)

The IC recording medium used by this camera is a "Memory Stick Duo".

"Memory Stick Duo": you can use a "Memory Stick Duo" with your camera.



"Memory Stick": you cannot use a "Memory Stick" with your camera.



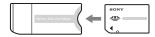
· Do not attach a label or the like on a "Memory Stick Duo" or a Memory Stick Duo Adaptor.

Other memory cards cannot be used.

· For details on "Memory Stick Duo", see page 77.

When using a "Memory Stick Duo" with "Memory Stick" compatible equipment

You can use the "Memory Stick Duo" by inserting it into the Memory Stick Duo Adaptor (not supplied).



Memory Stick Duo Adaptor

Notes on the battery

- · Charge the built-in battery before using the camera for the first time.
- · The battery can be charged even if it is not completely discharged. Also, even if the battery is not fully charged, you can use the partially charged capacity of the battery as is.
- · If you do not intend to use the camera for a long time, use up the existing charge and store the camera in a cool, dry place. This is to maintain the battery functions.
- For details on the battery, see page 79.

No compensation for contents of the recordina

· The contents of the recording cannot be compensated for if recording or playback is not possible due to a malfunction of your camera or recording media, etc.

Internal memory and "Memory Stick Duo" back up

· Do not turn off the camera or remove "Memory Stick Duo" while the access lamp is lighted, as the internal memory data or "Memory Stick Duo" data may be destroyed. Always protect your data by making a back up copy.

About changing the language setting

· The on-screen displays in each local language are used for illustrating the operating procedures. Change the screen language before using your camera if necessary (page 19).

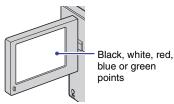
Notes on recording/playback

- · This camera is neither dust-proof, nor splashproof, nor water-proof.
- · Before you record one-time events, make a trial recording to make sure that the camera is working correctly.
- · Be careful not to get the camera wet. Water entering the inside of the camera may cause malfunctions which in some cases may not be repairable.
- · Do not aim the camera at the sun or other bright light. This may cause irrecoverable damage to your eyes. Or it may cause the malfunction of your camera.
- · Do not use the camera near a location that generates strong radio waves or emits radiation. The camera may not be able to record or play back properly.
- · Using the camera in sandy or dusty locations may cause malfunctions.
- · If moisture condensation occurs, remove it before using the camera.
- · Do not shake or strike the camera. In addition to malfunctions and an inability to record images, this may render the recording medium unusable, or cause image data breakdown, damage or loss.

- 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
- When connecting your camera to another device with a cable, be sure to insert the connector plug in the correct way. Pushing the plug forcibly into the terminal will damage the terminal and may result in a malfunction of your camera.
- Movies other than those shot, edited or composed on this camera cannot be played back.

Notes on the LCD screen and the lens

• The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen or the LCD finder. These points are normal in the manufacturing process and do not affect the recording in any way.



- 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.

Note on disposal/transfer

 When using software embedded in the camera, personal information such as IDs and mail addresses may be saved on the internal memory of the camera. When transferring the camera to others or on disposal, do so after deleting the information input.

On image data compatibility

- This camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association)
- Playback of images recorded with your camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed.

Warning on copyright

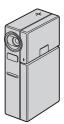
 Television programs, films, videotapes, and other materials may be copyrighted.
 Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

About this Handbook

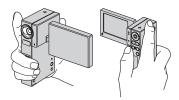
- The photographs used as examples of pictures in this Handbook are reproduced images, and are not actual images shot using this camera.
- Design and specifications of recording media and other accessories are subject to change without notice.

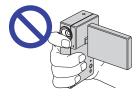
How to handle the camera

• When carrying the camera, close the LCD panel as illustrated.



• Be careful not to block the lens or the flash with your finger when shooting.





• Do not hold the camera by only holding the LCD panel.

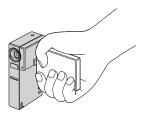


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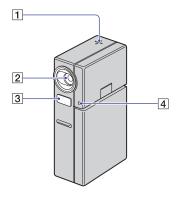
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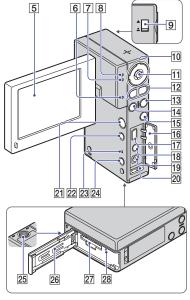
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Identifying parts

See the pages in parentheses for details of operation.



- 1 Speaker
- 2 Lens
- **3** Flash (26)
- 4 Microphone



- 5 LCD screen (25)
- 6 \$/CHG: Flash charging lamp (26)/ Battery charging lamp (15)
- **7** ► (Play mode) lamp (green)
- 8 [4] (Rec mode) lamp (green)
- 9 Focus range switch (26)
- 10 Control button

MODE button (24, 28, 32)

MENU button (34)

(Flash) button (26)

(Self-timer) button (27)

- **11** Multi-selector (**△**/**▼**/**◄**/**▶**) (18)
- 12 For shooting: Zoom (W/T) button (26) For viewing: ⊖/⊕ (Playback zoom) button/ (Index) button (28, 29)
- 13 MOVIE button (24)
- 14 PHOTO button (24)
- 15 Sharemark button (32)
- 16 Jack cover

Identifying parts

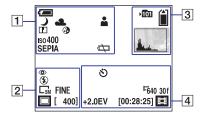
- 17 \$\psi\$ (USB) jack (47)
 - Used when connecting to a computer with a USB cable or to a printer by PictBridge.
 - NSC-GC3: You cannot input signals to your camera through this jack.
- 18 A/V OUT jack (64)
 - Used when connecting to a TV, etc. with an A/V connecting cable.
- 19 DC IN jack (15)
 - Used when connecting with the AC adaptor to charge the battery or to operate the camera by AC power.
- 20 Hook for hand strap (14)
- 21 POWER button (18)
- 22 | C (Screen display switch) button (25)
- 23 RESET button
 - Resets power. Date and settings will not be reset to default settings.
- 24 (Image Size/Delete) button (20, 30)
- 25 Tripod receptacle (bottom)
 - Use a tripod with a screw length of less than 5.5 mm (7/32 inch). You will be unable to firmly secure the camera to tripods having screws longer than 5.5 mm (7/32 inch), and may damage the camera.
- 26 "Memory Stick Duo" cover (17)
- [27] "Memory Stick Duo" slot
- **28** Access lamp (17)

Indicators on the screen

Each time you press [(Screen display switch) button, the display changes (page 25).

See the pages in parentheses for details of operation.

In shooting standby



When recording movies



1

Display	Indication
	Battery remaining (16)
W I	Zoom scaling (26)
Qx1.3	
) ≟' ≗ ⊠	Camera mode (Scene
分产 &	Selection) (37)
A\$A ₽	
P	Camera mode (Program)
	(37)
\$WB ☆ <u> </u>	White balance (40)
♣	
.	Close-up mode (26)
①	Sharpness (43)
③	Saturation (43)
ISO400	ISO number (41)
B&W SEPIA	Color mode (38)
VIVID	
	Low battery warning (74)

Display	Indication
③	Red-eye reduction (55)
\$ \$SL (\$)	Flash mode (26)
4.	Flash charging
C _{5M} C _{3:2} C _{3M} C _{VGA} C _{QVGA}	Image size (20)
FINE STD	Image quality (41)
■ □ BRK	Still image shooting mode (24)
[400]	Remaining number of recordable images (22)
<u> </u>	Menu/Guide menu (34) • Pressing MENU switches the menu/guide menu on/ off.

3

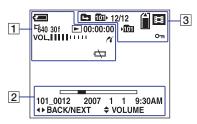
Display	Indication
№	Recording folder (56) This does not appear when using internal memory.
	Recording Media
Parl .	Histogram (25, 39)

4

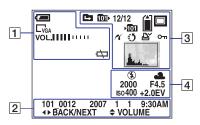
Display	Indication
8	Self-timer (27)
⊑640 30f ⊑320 30f	Image size (22)
⊑320 15f	
+2.0EV	Exposure Value (39)
[00:28:25]	Remaining recordable time (22)
Ħ	Movie recording mode (24)

Display	Indication
+2.0EV	Exposure Value (39)
	Movie recording
00:00:05	Recording time (22)

When playing back movies



When playing back still images



1

Display	Indication
—	Battery remaining (16)
□640 30f □320 30f	Image size (22)
[⊑] 320 15f	
□5M □3:2 □3M	
C _{2M} C _{VGA} C _{QVGA}	
▶ / ■ / ▶	Playback/Stop/Slide Show
	fast forward (24, 49)
▶ / ≪	Fast forward/ Rewind
00:00:00	Counter
VOL. IIIII	Volume (28)
11	PictBridge connecting (47)
Qx1.3	Zoom scaling (28)
	Low battery warning (74)
	PictBridge connecting (47)
	Do not disconnect the USB cable while the icon is displayed.

Display	Indication
	Playback bar
101_0012	Folder-file number (56)
2007 1 1 9:30 AM	Recorded date/time of the playback image
∢► BACK/ NEXT	Select images
♦ VOLUME	Adjust volume
	Menu/Guide menu (34)

3

Discolor:	Indiantia.
Display	Indication
中半日	Change folder (44)
	This does not appear when using internal memory.
101Þ	Playback folder (44)
	This does not appear when using internal memory.
12/12	Image number/Number of images recorded in selected folder
	Playback Media
目目	Recording mode
×10 1	Recording folders (56)
Q	Sharemark (32)
	Print order (DPOF) mark (46)
О-11	Protect (44)
	Histogram (25, 39) • ■ appears when histogram display is disabled.

Display	Indication
\$	Flash
\$WB ⊹ ∷∷	White balance (40)
📤 💥 AWB	
2000	Shutter speed
F3.5	Aperture value
ISO400	ISO number (41)
+2.0EV	Exposure Value (39)

Checking the accessories supplied

· AC Adaptor UPA-AC05 (1)/ Power cord (mains lead) (1)



• A/V connecting cable (1)



• USB cable (1)

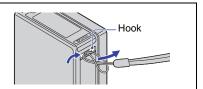


• Hand strap (1)

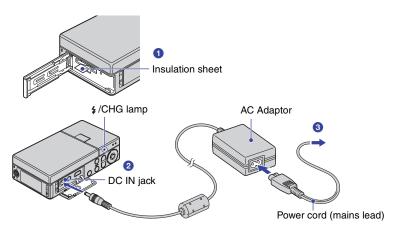


- CD-ROM "Net-sharing CAM Application Software" (1)
- Picture Motion Browser (Software)
 - Picture Motion Browser Guide
 - Network Sharing Camera Handbook (PDF)
- Instruction Manual (1)

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



1 Charging the built-in battery



- The battery is built in within the camera.
- 1 Remove the insulation sheet.
- 2 Connect the AC Adaptor to the DC IN jack of the camera, making sure the power is off.
- 3 Plug the power (mains lead) cord to a wall outlet (wall socket).
 - The 4 /CHG lamp lights on, and charging starts.

When the \$ /CHG lamp turns off, charging is finished (Practical charge).

If you continue charging the battery for about one more hour (until it is fully charged), the charge will last slightly longer.

1 Charging the built-in battery

Charging time

Full charge time			
Approx. 120 min.			

- Time required to charge a fully depleted battery at a temperature of 25°C (77°F). Charging may take longer under certain circumstances or conditions.
- See page 22 for the number of images that can be recorded.
- · Connect the AC Adaptor to an easily accessible wall outlet (wall socket) close by.
- Even if the 4 /CHG lamp is not lit, the AC Adaptor is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (wall socket). If some trouble occurs while using the AC Adaptor, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).
- · When charging is finished, disconnect the power cord (mains lead) from the wall outlet (wall socket).

To check the remaining battery time

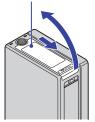
Press POWER button to turn on and check the remaining battery on the LCD screen.

Battery remaining indicator	=	—		—	
Battery remaining guidelines	Sufficient power remaining	Battery almost fully charged	Battery half full	Battery low, recording/ playback will stop soon.	Charge the battery. (The warning indicator flashes.)

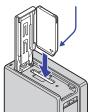
- · It takes about one minute until the correct battery remaining indicator appears.
- The displayed battery remaining indicator may not be correct under certain circumstances.
- The Clock Set screen appears when the camera is turned on for the first time (page 18).

2 Inserting a "Memory Stick Duo" (not supplied)

"Memory Stick Duo" cover



Insert the "Memory Stick Duo" all the way in as shown in the illustration until it clicks.



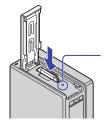
- 1 Open the "Memory Stick Duo" cover.
- 2 Insert the "Memory Stick Duo" (not supplied) all the way in until it clicks.
- 3 Close the "Memory Stick Duo" cover.

When there is no "Memory Stick Duo" inserted

The camera records/plays back images using the internal memory (approx. 4 MB).

To remove "Memory Stick Duo"

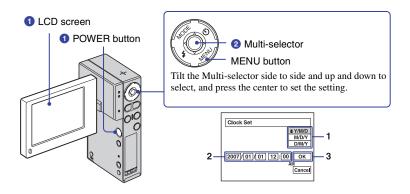
Open the "Memory Stick Duo" cover.



Make sure that **the access lamp** is not lit, then push the "Memory Stick Duo" in once.

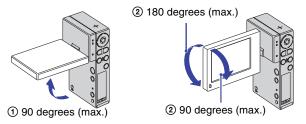
• Never remove "Memory Stick Duo" when the access lamp is lit. This may cause damage to data in the "Memory Stick Duo".

3 Turning the camera on/setting the clock



1 Open the LCD panel to turn the power on.

• Open and lift the LCD panel up to a 90 degrees angle from the camera (1), then rotate it to the desired angle (2).



· You can also turn the power on by pressing POWER button.

2 Set the clock with the Multi-selector.

- Select the date display format with ▲/▼.
- 2 Select each item with **◄/▶** and set the numeric value with **▲/▼**.
- 3 Select [OK].

To turn the power off

Press POWER button.

To change the date and time

Press MENU, and select [Clock Set] in \rightleftharpoons (Setup 2) (page 63).

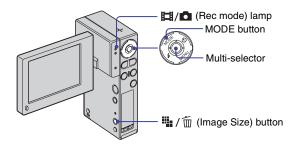
When you turn on the power

If the camera is running on battery power and you do not operate the camera for about three minutes, the camera turns off automatically to prevent wearing down the battery (Auto power-off function).

Changing the language settings

You can change the on-screen displays to show messages in a specified language. To select the screen language, press MENU, and select [A Language] in \blacksquare (Setup 1) (page 59).

Selecting the image size according to use



- 1 Press MODE to set the camera to recording mode.
 - [1] (Rec mode) lamp lights up.
- 2 Press 🏨 / 🗑 (Image Size) button.
- 3 Select (Photo Size) or 🛱 (Movie Size) with </▶ on the Multi-selector, then select the desired image size with ▲/V.

Photo size Up to A4/8×10"print Appx.Image Capacity 115pics L5M 3:2 3M Photo Size



- Recommended use and number of remaining shots are displayed on the upper part of the LCD screen.
- 4 Press 🏨 / 🗂 (Image Size) to complete the setting.

The default settings are marked with .

	Movie image size	Frame/Second	Usage guidelines
	640(30fps) (640×480)	Approx. 30*	Shoot high quality movies in sizes suited for display on TV
<	320(30fps) (320×240)	Approx. 30*	Shoot high quality movies in sizes suited for display on websites
	320(15fps) (320×240)	Approx. 15*	Shoot at a small size for e-mail attachment

^{*} The darker the subject, the lower the frame per second.

- The larger the image size, the higher the image quality.
- The more frames per second you played back, the smoother playback can be.
- "fps" indicates the number of frames per second (Frame Per Second). The actual number of image recordable may differ depending on the shooting situations and the subject.

	Image size	Guidelines
<	5M (2592×1944)	For prints up to A4 (8×10")
	3:2* (2592×1728)	Shoot in 3:2 aspect ratio
	3M (2048×1536)	For prints up to 10×15 cm (4×6") or 13×18 cm (5×7")
	2M (1632×1224)	For prints up to 10×15 cm (4×6")
	VGA (640×480)	Shoot at a small image size for e-mail attachment

^{*} Images are recorded in 3:2 aspect ratio, same as photograph printing paper or postcards, etc.

Selecting the image quality (compression ratio) in combination (page 41)

You can select the compression ratio when digital images are saved. When you select a high compression ratio, the image lacks the fineness of detail, but has a smaller file size.

Recording time of movies and number of still images

The length of time for movies and the number of still images may vary depending on the shooting conditions.

The approximate recording time of movies

(Units: hour: minute: second)

Capacity	Internal memory	"Memory Stick Duo" formatted with this camera						
Size	Approx. 4 MB	128 MB	256 MB	512 MB	1 GB	2 GB	4 GB	8 GB
640(30fps)	0:00:10	0:05:50	0:10:00	0:22:00	0:44:00	1:30:00	3:00:00	6:05:00
320(30fps)	0:00:35	0:19:00	0:34:00	1:10:00	2:20:00	4:55:00	9:40:00	19:30:00
320(15fps)	0:01:50	1:05:00	2:00:00	4:05:00	8:20:00	17:00:00	34:00:00	68:00:00

- The shooting mode will automatically stop in either of the following situations.
 - When the file size of the movie being recorded exceeds 2 GB.
 - After the maximum shooting duration time* for each file has passed.
 - * NSC-GC1: 2 hours, NSC-GC3: 29 minutes

The approximate number of still images

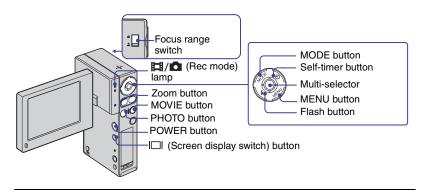
(Units: Images)

Capacity Internal memory Size/Quality Approx. 4 MB		"Memory Stick Duo" formatted with this camera							
			128 MB	256 MB	512 MB	1 GB	2 GB	4 GB	8 GB
5M	Fine	1	50	95	190	390	790	1550	3100
	Standard	3	95	180	360	730	1500	2900	7000
3:2	Fine	1	50	95	190	390	790	1550	3100
	Standard	3	95	180	360	730	1500	2900	7000
3M	Fine	3	80	155	305	620	1250	2500	5000
	Standard	5	145	280	560	1100	2300	4400	11500
2M	Fine	5	130	235	480	980	2000	4000	8000
	Standard	8	245	445	900	1850	3750	7500	18000
VGA	Fine	25	780	1500	2950	6000	12000	23500	48000
	Standard	40	1850	3600	7100	14500	29500	59000	115000

- The number of images listed is for when [REC Mode] is set to [Normal].
- When the number of remaining shootable images is greater than 9,999, the ">9999" indicator appears.
- · When images recorded using earlier Sony models are played back on this camera, the display may differ from the actual image size.
- The image quality is [Fine] on the upper row and [Standard] on the lower row (page 41).

- All numbers measured when using a "Memory Stick Duo" made by Sony Corporation. The number of still
 images and the length of time for movies may vary depending on the shooting conditions and the
 recording mediums.
- When measuring media capacity, 1 GB equals 1 billion bytes, a portion of which is used for data management.

Shooting images



- 1 Open the LCD panel to turn the power on.
 - · You can also turn the power on by pressing POWER.
- 2 Make sure the Щ/₫ (Rec mode) lamp lights up.
- 3 Confirm the composition.



Position the subject in the center of the screen.

4 Start shooting.

When shooting movies:

Press MOVIE.

To stop recording, press MOVIE again.

When shooting still images:

Press PHOTO





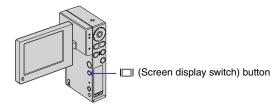
Still images



· When shooting movies, the angle of view will change from when shooting still images.

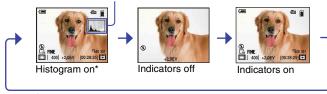
- The shooting mode will automatically stop in either of the following situations.
 - When the file size of the movie being recorded exceeds 2 GB.
 - After the maximum shooting duration time* for each file has passed.
 - * NSC-GC1: 2 hours, NSC-GC3: 29 minutes
- · When shooting movies, the anti-blur function will be set on.

Changing the screen display



Each time you press the |□| (Screen display switch) button, the display changes as follows.

Histogram display (page 39)



- * During playback, the image information is displayed.
- By pressing [[(Screen display switch) button longer, you can increase the LCD backlight.
- If you view images in bright outside light, adjust the brightness of the LCD backlight up.
 However, the battery power may decrease faster under such condition.
- The LCD screen will not display while the camera is connected to a TV.
- The histogram does not appear in the following situations: While shooting
 - When the menu is displayed.
 - When recording movies

During playback

- When the menu is displayed.
- In index mode
- When you are using playback zoom.
- When you are rotating still images.
- During playback of movies
- A large difference in the histogram displayed when shooting and during playback may occur when:
 - The flash strobes.
 - The shutter speed is slow or fast.
- The histogram may not appear for images recorded using other cameras.

Useful functions for shooting

W/T Using the zoom

Press T to zoom, press W to undo the zoom.

· This camera is only capable of digital zoom.

Shooting a still image while shooting movies

When you press PHOTO while shooting movies, the same picture as the movie being shot will be recorded as a still image. The size of the still image recorded will be the same as the size of the movie.

Close-up mode

Slide the Focus range switch to (Close-up) when shooting a subject close-up.



▲: Normal shooting (Approx. 1.0 m or farther (3 feet 3 3/8 inches or farther))

: Close-up shooting (Approx. 60 cm to 1.0 m (1 feet 11 5/8 inches to 3 feet 3 3/8 inches))

• The in-focus range becomes narrow, and the complete subject may not entirely be in focus.

Flash (Selecting a flash mode for still images)

Press \$ button repeatedly until the desired icon is displayed on the LCD screen.



(No indicator): Flash Auto

Strobes when there is insufficient light or backlight (default setting).

4: Flash forced on

4sL: Slow synchro (Flash forced on)

The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.

(\$): Flash forced off

- The flash strobes twice. The first time is to adjust the light quantity.
- While charging the flash, \$/CHG lamp lights on and \$ is displayed.

S Using the self-timer

Press 🐧 (Self-timer) button.



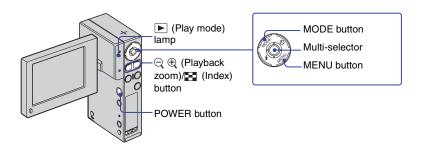
(No indicator): Not using the self-timer

3 : Using the self-timer

If you press PHOTO, countdown timer is displayed, and after rapid beep sounds are heard, the camera will shoot.

To cancel, press 🔇 again.

Viewing images



1 Open the LCD panel to turn the power on.

· You can also turn the power on by pressing POWER.

2 Press MODE to set the camera to playback mode.

• Play mode) lamp lights up.

3 Plays back movies or still images.

Movie:

Press the Multi-selector to playback a movie. (Press it again to stop playback.)

Press ▶ to fast forward, ◀ to rewind. (Press the Multi-selector to return to normal playback.)

Press ∇ to display the volume control screen, then adjust the volume with \triangle/∇ .

• Movies with the image size [320(30fps)] or [320(15fps)] are displayed a size smaller.

Still image:

Select an image with ◀/▶ on the Multi-selector.

⊕ /⊕ To view an enlarged image (playback zoom)

Press

while displaying a still image.

To undo the zoom, press \bigcirc .

Adjust the position: $\triangle/\nabla/\overline{\blacktriangleleft}/\triangleright$

Cancel playback zoom: Press the Multi-selector.

Viewing an index screen

Press [1] (Index) to display the index screen while a still image is displayed.

Select an image with $\triangle/\nabla/\blacktriangleleft/\triangleright$ on the Multi-selector.

To return to the single image screen, press the Multi-selector.

To display the next (previous) index screen, move the yellow frame up/down/left/right with $\blacktriangle/$ $\blacktriangledown/$ -4/ \blacktriangleright .





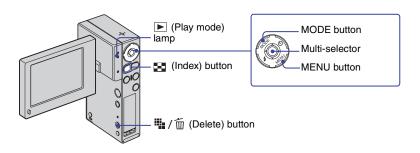








Deleting images



- 1 Press MODE to set the camera to playback mode.
- 2 Press ∰ / m (Delete) while display in single-image mode or in index mode.
- $\boldsymbol{3}$ Select [Delete] with \blacktriangle on the Multi-selector.



To cancel the deletion

Select [Exit] with ▲/▼.

To delete images in index mode

- ① While an index screen is displayed, press \(\frac{\mathfrak{m}}{\pi}\) (Delete) and select [Select] with \(\prec{\sqrt{n}}\rightarrow\) on the Multi-selector.
- ② Select the images you want to delete with ▲/▼/◄/▶, then press the Multi-selector to display the m (Delete) indicator on the selected image.

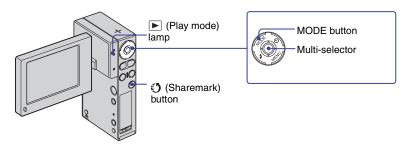


- ③ Press # / 🗓 (Delete).
- ④ Select [OK] with ▶.
- To delete all the images in the folder, select [All In This Folder] with ◄/▶ in step ① instead of [Select].

To cancel a selection

Select an image you have previously selected for deletion, then press the Multi-selector to delete the minimidicator from the image.

Select images to upload on a website (Sharemark)



- 1 Press MODE to set the camera to playback mode.
 - Play mode) lamp lights up.
- f 2 Select images to upload on a website and press ${\mathfrak G}$ (Sharemark) button.

Selecting images in Single Image mode:

Select [**(5** mark] with **△**/**v** on the Multi-selector.



- · To cancel, select [Exit].
- Move on to the previous image or the next image with ◄/►.

Selecting images in Index Display mode:

Select how to mark [mark] either from [All In This Folder] or [Select].



When selecting [All In This Folder]:

(1) will be marked on all of the images within the selected file.

When selecting [Select]:

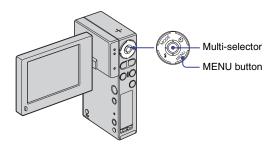
Select images to mark Sharemark. (5) will be marked on the images selected.

Removing Sharemarks

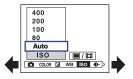
To remove the Sharemark from an image, select the image to remove the Sharemark and take the same steps as when marking a Sharemark on an image.

- By using the software "PMB Portable" embedded in the camera, you can easily upload images marked with Sharemarks. For details, see Help in the "PMB Portable".
- When connecting to the network service, the page will be redirected by the server of Sony to the URL
 entered in the network service setting.
- When uploading images via Internet, including this product, note that depending on the Internet service
 provider, the cache may remain within the computer used.

Using the menu items



- 1 Press MENU to display the menu.
 - The menu will be displayed only during shooting and playback mode.
 - · Different items will become visible depending on the selected mode.
- 2 Select the desired menu item with </▶ on the Multi-selector.



- In REC mode, / is indicated. You cannot set an item with / indicator in gray.
- · In PLAY mode, press the Multi-selector after setting an item.
- 3 Select a setting with ▲/▼.
- 4 Press MENU to turn off the menu.

Menu items

The available menu items vary depending on the camera mode.

The shooting menu is available only in the shooting mode, and the viewing menu is available only in the playback mode.

Only the available items are displayed on the screen.

(✓: available)

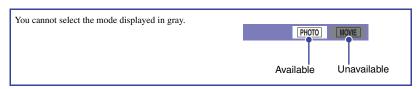
				(V. available)	
Menu for shooting (page 36)	РНОТО		PHOTO/MOVIE	MOVIE	
	Auto	ito Program Scen			
Camera	V	V	V	V	
Color Mode	_	V	_	V	
EV	_	V	V	V	
White Bal	_	V	V	V	
ISO	_	V	V	_	
P.Quality	_	V	V	_	
REC Mode	V	V	V	_	
Flash Level	_	V	\ *	_	
Saturation	_	V	_	_	
Sharpness	_	V	_	_	
Setup	V	V	V	V	
	•	•	•		

^{*}The operation is limited according to the selected Scene Selection mode (page 38).

Menu for viewing (page 44)

(Folder)	Om (Protect)
DPOF	凸 (Print)
(Slide)	(Resize)
[] (Rotate)	冷 (Divide)
(Setup)	

The function is shooting mode using MENU button are described below. For details on how to operate the menu, see page 34.



The default settings are marked with ⋄. When the mode has been set to PLAY, switch it to REC with MODE.

Camera: Selecting a camera mode

PHOTO

MOVIE

The following modes are predetermined to match the scene conditions.

Scene Selection



→ Twilight*

Allows you to shoot night scenes at far distance without losing the darkness atmosphere of the surroundings.



Twilight portrait*

Suitable for shooting portraits in dark places. Allows you to shoot sharp images of people in dark places without losing the dark atmosphere of the surroundings.



Soft snap

Allows you to shoot images with a softer atmosphere for portraits of people, flower, etc.



A Landscape

Focuses only on a distant subject to shoot landscapes, etc.



High-speed shutter

Shoots moving subjects outdoors or in other bright places.



Beach

When shooting seaside or lakeside scenes, the blue of the water is clearly recorded.



Snow

When shooting snowy scenes or other places where the whole screen appears white, use this mode to prevent sunken colors and record clear images.



Fireworks*

Allows you to record fireworks in all their splendor.



Shoot candlelit scenes, without spoiling the atmosphere.

Program

Adjustments necessary for shooting are made automatically, but you can also make adjustments of EV, etc., as desired. In addition, you can also set the desired shooting functions using menus.

✓ Auto

You can shoot images in Auto adjustment mode.

^{*}The shutter speed becomes slower, so using a tripod is recommended.

Functions you can use in Scene Selection

For shooting an image appropriately according to the scene condition, a combination of functions is determined by the camera. Some functions are not available, depending on the Scene Selection mode.

(✓: you can select the desired setting)

	Flash*	EV	White Balance	Burst/Bracket	Flash Level
)	③	V	~	_	_
••	≴ SL	V	~	_	~
≗ °	V	~	~	~	~
	\$ / ③	V	~	~	~
(X)	\$ / ③	~	~	~	~
<u>~</u>	\$ / ③	~	~	~	~
8	\$ / ③	~	~	~	~
	③	V	*	_	_
\$	③	V	*	_	_

^{*} When shooting a movie, you cannot use the functions.

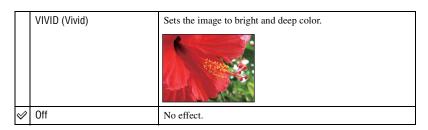
Color Mode: Changing the vividness of the image or adding special effects





You can change the brightness of the image, accompanied by effects.

B&W (B & W)	Sets the image to monochromatic color.
SEPIA (Sepia)	Sets the image to sepia color.



· When shooting a movie, [Vivid] will be ineffective even if set.

EV: Adjusting the light intensity

PHOTO

MOVIE

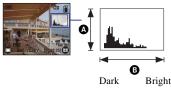


Manually adjusts the exposure.

	+2.0EV	Toward +: Brightens an image.
$ \checkmark $	0EV	The exposure is determined automatically by the camera.
	-2.0EV	Toward -: Darkens an image.

- The compensation value can be set in 1/3EV increments.
- If a subject is being shot in extremely bright or dark conditions, or the flash is used, the exposure adjustment may not be effective.

Adjusting EV (Exposure Value) by displaying a histogram



A histogram is a graph showing the brightness of an image. Press | (Screen display switch) repeatedly to display the histogram inside the screen. The graph display indicates a bright image when skewed to the right side, and a dark image when skewed to the left side. When shooting still images, adjust EV while checking the exposure with the histogram.

- Number of pixels
- Brightness
- The histogram also appears in the following cases, but you cannot adjust the exposure.
 - When [Camera] is set to [Auto]
 - When playing back a single image

White Bal: Adjusting the color tones

PHOTO

MOVIE

Adjusts the color tones according to the lighting condition in a situation, for example, when the colors of an image look strange.

	ie colors of all image look strange.		
⋄	\$WB (Flash)	Adjusts for the flash conditions. • You cannot select this item when shooting movies.	
	☆ (Incandescent)	Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.	
	∭ (Fluorescent)	Adjust for fluorescent lighting.	
	(Cloudy)	Adjusts for a cloudy sky or a shady location.	
	※ (Daylight)	Adjusts for conditions outside under a clear sky, at sundown, night scenes, the presence of neon signs or fireworks.	

$ \checkmark $	Auto	Adjusts the White Balance automatically.

- Under fluorescent lights that flicker, the white balance function may not work correctly even though you select [Fluorescent].
- Except in [Flash] modes, [White Bal] is set to [Auto] when the flash strobes.
- Some options are not available depending on the Scene Selection mode (page 38).

ISO: Selecting a luminous sensitivity

PHOTO



Selects a luminous sensitivity with units of ISO. The larger the number, the higher the sensitivity.

	400	Select a large number when shooting in dark locations or
	200	shooting a subject moving at high speed, or select a small number to obtain high image quality.
	100	
	80	
$ \checkmark $	Auto	

- Note that the image tends to become noisier as the ISO sensitivity number increases.
- [ISO] is set to [Auto] in the Scene Selection mode.
- When shooting under brighter conditions, the camera automatically increases its tone reproduction and helps prevent images to become whitish (excluding when [ISO] is set to [100]).

P.Quality: Compression rate of still images

PHOTO M



Selects the still image quality.

$ \checkmark $	FINE (Fine)	Records with high quality (low compression).
	STD (Standard)	Records with standard quality (high compression).

REC Mode: Selecting the continuous shooting method

PHOTO

Selects whether the camera performs continuous shooting or not when you press PHOTO.

	■■ (ExpBrktg)	Records a series of three images with the exposure values automatically shifted (Exposure Bracket). You can select the image with the appropriate exposure after recording when you are unable to shoot good pictures depending on the brightness of the subject.
		When [Camera] is set to [Auto], the Exposure Bracket mode is not available. The flash is set to ③ (Flash forced off).
	(Burst)	Records maximum 3 images in succession when you press and hold down PHOTO. • When "Recording" disappears, you can shoot the next image. • The flash is set to ③ (Flash forced off).
✓	Normal	Does not shoot continuously.

On the Exposure Bracket

- . The focus and white balance are adjusted for the first image, and these settings are also used for the other
- When the exposure is manually adjusted (page 39), the exposure is shifted based on the adjusted brightness.
- The recording interval is approximately 1.2 second.
- If the subject is too bright or too dark, you may be unable to shoot properly with the selected bracket step value.
- · You may not be able to shoot images in the Exposure Bracket mode depending on the Scene Selection mode (page 38).

On the Burst

- When recording with the self timer, a series of a maximum of 3 images is recorded.
- The recording interval is approximately 1.2 second. The recording interval becomes longer, depending on the setting for the image size.
- · When the battery level is low, or when the internal memory or "Memory Stick Duo" is full, the Burst
- You may not be able to shoot images in the Burst mode depending on the Scene Selection mode (page 38).

Flash Level: Adjusting the amount of flash light

PHOTO

MOVIE

Adjusts the amount of flash light.

	\$ +(+)	Toward +: Makes the flash level higher.
$ \checkmark $	★ (Normal)	
	\$ -(-)	Toward -: Makes the flash level lower.

- The flash level can be set in 1/3 EV increments.
- The value is not displayed on the screen. It is indicated as \$+ or \$-.
- To change flash mode, see page 26.
- If the subject is too bright or dark, this adjustment may have no effect.
- [Flash Level] cannot be set when flash mode is set to 🚯 (Flash forced off).

Saturation: Adjusting the saturation



Adjusts the saturation of the image.

	③ (+)	Toward +: Brightens the color.
$ \checkmark $	Normal	
	③ (−)	Toward -: Darkens the color.

Sharpness: Adjusting the sharpness





Adjust the sharpness of the image.

	(+)	Toward +: Sharpens the image.
⊘	Normal	
	(-)	Toward -: Softens the image.

Setup: Selecting the shooting settings

Select the settings for the shooting function. See page 54.

The default settings are marked with \varnothing .

When the mode has been set to REC, switch it to PLAY with MODE.

(Folder): Selecting the folder for viewing images

Selects the folder containing the image you want to playback when using the camera with "Memory Stick Duo".

Select the desired folder with
 ✓/ on the Multi-selector.



② Select [OK] with ▲.

To cancel selecting the folder selection

Select [Cancel] in step ②.

"On the folder

The camera stores images in a specified folder of a "Memory Stick Duo". You can change the folder or create a new one.

- To create a new folder → [Create REC. Folder] (page 56)
- To change the folder for recording images → [Change REC. Folder] (page 57)
- When multiple folders are created in the "Memory Stick Duo" and the first or last image in the folder is displayed, the following indicators appear.
 - : Moves to the previous folder
 - : Moves to the next folder
 - : Moves to either the previous or next folders

om (Protect): Preventing accidental erasure

Protects images against accidental erasure.

Om (Protect)	See the following procedure.
Exit	Exits the Protection function.

To protect images in single-image mode

- 1 Display the image you want to protect.
- (2) Press MENU to display the menu.
- ③ Select O_m (Protect) with ◀/▶ on the Multi-selector.

The image is protected and the Om indicator appears on the image.



④ To protect other images, select the desired image with ◀/►.

To protect images in index mode

- ① Press 🎛 (Index) to display the index screen.
- 2 Press MENU to display the menu.
- ③ Select O_{¬¬} (Protect) with ◀/▶ on the Multi-selector.
- ④ Select [Select] with ◀/▶.
- ⑤ Select the image you want to protect with ▲/▼/◄/▶. A green �¬ indicator appears on the selected image.



- 6 Repeat step 5 to protect other images.
- 7) Press MENU.
- (a) Select [OK] with ▶.
 The On indicator turns white. The selected images are protected.
- To protect all images in the folder, select [All In This Folder] in step ④, and press the Multi-selector. Select [On] with ▶.

To cancel the protection

In single-image mode

Press the Multi-selector in step ③ or ④ of "To protect images in single-image mode".

In index mode

- ① Select the image for which you want to remove protection in step ⑤ of "To protect images in index mode".
- 2 Press the Multi-selector to turn the Om indicator gray.
- 3 Repeat the operation above for all images to be unprotected.
- ④ Press MENU, select [OK] with ▶.

To cancel protection of all images in the folder

Select [All In This Folder] in step ④ of "To protect images in index mode", and press the Multi-selector. Select [Off] with ▶.

- Note that formatting the "Memory Stick Duo" erases all data stored on the recording media, even if
 images are protected, and these images cannot be recovered.
- · It may take some time to protect an image.

DPOF: Adding a Print order mark

Adds (Print order) mark to images you want to print. By using the "Memory Stick Duo", images with DPOF marks can be printed at photo shops or with printers which supports the DPOF standard.

· You cannot mark movies

Marking in single-image mode

- 1) Press MODE to set the playback mode.
- 2 Select the image you want to print.
- 3 Press MENU to display the menu.
- ④ Select [DPOF] with ▲/▼ on the Multi-selector.
 (Print order) mark is attached to the image.



⑤ To mark other images, display the desired image with **◄/▶**, then press the Multi-selector.

Marking in index mode

- ① Display the index screen.
- ② Press MENU to display the menu.
- ③ Select [DPOF] with ▲/▼.
- ④ Select [Select] with ▲/▼.
- ⑤ Select the image you want to mark with ▲/▼/◄/▶, then press the Multi-selector. A green

 mark appears on the selected image.



- 6 Repeat step 5 to mark other images.
- 7 Press MENU.

(8) Select [OK] with ▶, then press the Multi-selector.

The mark turns white.

To cancel, select [Cancel] in step 4 or select [Exit] in step 8, then press the Multi-selector.

To remove the mark

To remove the 2 mark from an image, select the image to remove the 3 mark and take the same steps as when marking a 2 mark on an image. 2 indicator disappears.

To remove all the marks in the folder

Select [All In This Folder] in step ④, then press the Multi-selector. Select [Off], then press the Multi-selector.

(Print): Printing images using a printer

Even if you do not have a computer, you can print images shot using your camera by connecting the camera directly to a PictBridge compliant printer.

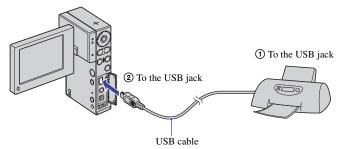
· You cannot print movies.

Stage 1: Preparing the camera

- 1 Press MENU.
- ② Select [USB Connect] in [Setup 2] with $\triangle / \nabla / \blacktriangleleft / \triangleright$ on the Multi-selector.
- ③ Select [PictBridge] with ▲/▼. The USB mode is set.

Stage 2: Connecting the camera to the printer

① Connecting the camera to the printer.



2 Turn on your camera and the printer.



After the connection is made, the \(\mathbb{I} \) indicator appears.

Stage 3: Printing

① Select the desired printing method with **△**/**▼** on the Multi-selector.

[All In This Folder]

Prints all the images in the folder.

[DPOF image]

Prints all the images with a Print order) mark (page 46) regardless of the displayed image.

[Select]

Selects images and prints all the selected images.

Select the image you want to print with $\blacktriangleleft/\triangleright$, and then select [Print] with \blacktriangledown .

[This image]

Prints a displayed image.

② Select print settings with ▲/▼/◄/►.

[Index]

Select [On] to print as an index image.

[Size]

Select the size of the printing sheet.

[Date]

Select [Day&Time] or [Date] to insert the date and time on images.

[Quantity]

When [Index] is set to [Off]:

Select the number of sheets of an image that you want to print. The image will be printed as a single image.

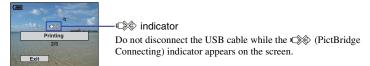
When [Index] is set to [On]:

Select the number of sets of images that you want to print as an index image. If you selected [This image] in step (1), select the number of the same image you want to print side by side on a sheet as an index image.

③ Select [OK] with **▼/**▶, then press the Multi-selector.

The image is printed.

• Do not disconnect the USB cable while the the (Do not disconnect the USB cable) indicator appears on the screen.



Stage 4: Completing the printing

Make sure the screen has returned to Stage 2, and disconnect the USB cable from the camera.

To print images on the index screen

- ① When the index screen is displayed, press MENU to display the menu items and select <u>A</u> (print).
- ② Select how to print.

(Slide): Playing back a series of images

① Select □ (Slide Show) with ◄/▶ on the Multi-selector.



② Select [Start] with **◄/▶**, then press the Multi-selector to start playback.

To pause the slide show

Press the Multi-selector.

To restart, select [Continue] with **◄/▶**.

To display the previous/next image

Press **◄/▶** on the Multi-selector while the slide show is paused.

To end the slide show

Select [Exit] with **△**/**▼** on the Multi-selector while the slide show is paused.

To change the setup

The default settings are marked with & .

Int	Interval		
8	3 sec	Sets the slide show interval.	
	5 sec		
	10 sec		
	30 sec		
	1 min		

Re	Repeat	
Ø	On	Plays back images in a continuous loop.
	Off	After all the images have been played back, the slide show ends.

	Image When you use a "Memory Stick Duo" (not supplied)	
$ \checkmark $	Folder	Plays back all the images in the selected folder.
	All	Plays back all the images in a "Memory Stick Duo" in order.

(Resize): Changing the image size of a recorded image



You can change the image size of a recorded image (Resize), and save it as a new file. The original image is retained even after resizing.

	5M	The setting size is just a guideline.
	3M	
	2M	
	VGA	
$ \checkmark $	Cancel	Cancels resizing.

- ① Display the image you want to resize.
- 2 Press MENU to display the menu.

- ③ Set [Resize] with **◄/▶** on the Multi-selector.
- ④ Select the desired size with ▲/▼.
 The resized image is recorded in the recording folder as the newest file.
- · You cannot resize movies.
- When you change from a small size to a large size, the image quality deteriorates.
- You cannot resize to an image size of 3:2.
- When you resize a 3:2 image, the upper and lower black portions will be displayed on the image.

(Rotate): Rotating a still image





Rotates a still image.

- ① Display the image to be rotated.
- 2 Press MENU to display the menu.
- ③ Select [Rotate] with ▲/▼ on the Multi-selector.
- ④ Select [\checkmark **\rightarrow**], then rotate the image with \checkmark /**\rightarrow**.
- Select [OK] with ▲/▼.
- · You cannot rotate protected images or movies.
- 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.

⟨Divide⟩: Cutting movies

Flow of the movie →







Divide

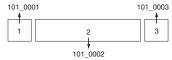
Cuts movies, or deletes unnecessary scenes of movies. This is a recommended function to use when the internal memory or "Memory Stick Duo" capacity is insufficient, or when you attach movies to your e-mail messages.

Note that the original movie is deleted and that number is skipped. Also note that you cannot restore files
once you cut them.

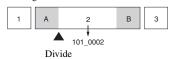
ОК	See the following procedure.
Cancel	Cancels division.

Example: Cutting a movie numbered 101_0002

This section describes an example of dividing a movie numbered 101_0002 and deleting it in the following file configuration.

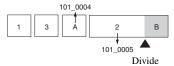


1 Cutting scene A.



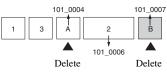
101_0002 is divided into 101_0004 and 101_0005.

2 Cutting scene B.



101_0005 is divided into 101_0006 and 101_0007.

3 Deleting scenes A and B if they are unnecessary.



4 Only the desired scenes remain.



Procedure

- 1) Display the movie to be divided.
- 2 Press MENU to display the menu.
- ③ Select [Divide] with **◄/▶** on the Multi-selector.
- 4 Select [OK] with ▲. The playback of the movie starts.

(5) Press the Multi-selector.

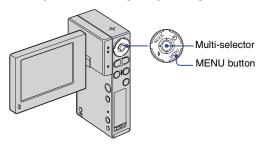


- When you want to adjust the cutting point, select **◄II/II▶** with **◄/▶** (frame rewind/forward).
- If you want to change the cutting point, press the Multi-selector. The playback of the movie starts again.
- 6 Select [OK] with ▲. The movie is cut.
- The cut movies are assigned new numbers, and then recorded as the newest files in the selected recording folder.
- · You cannot cut the following kinds of images.
 - Still images
 - Movies not long enough to cut (shorter than about two seconds)
 - Protected movies (page 44)

🖶 (Setup): Changing Setup items

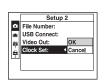
See page 54.

You can change the default settings using the Setup screen.



- 1 Turn on the power and set the mode with MODE.
- 2 Press MENU to display the menu.
- 3 Press ▶ on the Multi-selector to select **=** (Setup).
- 4 Press ▲/▼/◄/▶ to select the item you want to set.

The frame of the selected item turns yellow.



5 Press the Multi-selector to enter the setting.



To turn off the Setup screen, press MENU.

To return to the menu from the Setup screen, press ◀ on the Multi-selector repeatedly.

To cancel the setting change

Select [Cancel] if it appears. If it does not appear, select the previous setting again.

• This setting is maintained even when the power is turned off.



The default settings are marked with \checkmark .

Function Guide

When you operate the camera, the description of functions is displayed.

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

Red Eye Reduction





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

	On (③)	The flash always strobes to reduce the red-eye phenomenon.
\langle	Off	Does not use Red Eye Reduction.

- Because it takes about a second until the shutter clicks, hold the camera firmly to prevent the effects of vibration. Also, do not let the subject move.
- Red-eye reduction may not produce the desired effects depending on individual differences, the distance
 to the subject, if the subject does not see the pre-strobe, or other conditions.

Auto Review

Displays the recorded image on the screen for approximately two seconds immediately after shooting a still image.

Ø	On	Use the Auto Review.
	Off	Does not use Auto Review.



This item appears only when a "Memory Stick Duo" is inserted in the camera.

Format

Formats the "Memory Stick Duo". A commercially available "Memory Stick Duo" is already formatted, and can be used immediately.

- · Note that formatting irrevocably erases all data on a "Memory Stick Duo", including even protected images.
- Select [Format] with ▲/▼/◄/▶ on the Multi-selector. The message "All data in Memory Stick will be erased" appears.
- (2) Select [OK] with ▲. The format is completed.

To cancel the formatting

Select [Cancel] in step ②.

Create REC. Folder

Creates a folder in a "Memory Stick Duo" for recording images.

① Select [Create REC. Folder] with △/▼/◀/▶ on the Multi-selector. The folder creation screen appears.



Select [OK] with A.

A new folder is created with a number incremented one higher than the largest number, and the folder becomes the current recording folder.

To cancel the folder creation

Select [Cancel] in step ②.

- . When not creating a new folder, the "101MNV01" folder is selected as the movie folder, and "101MSDCF" folder is selected as the still image folder.
- You can create folders designated up to "999MSDCF".
- · Images are recorded in the newly created folder until a different folder is created or selected.
- You cannot delete a folder with the camera. To delete a folder, use your computer, etc.
- Up to 4,000 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.

Change REC. Folder

Changes the folder currently used for recording images.

 Select [Change REC. Folder] with ▲/▼/◄/▶ on the Multi-selector. The folder selection screen appears.



② Select the desired folder with **◄/▶**, and [OK] with **▲**.

To cancel changing the recording folder

Select [Cancel] in step 2.

- · You cannot select the "100MSDCF" folder as a recording folder.
- You cannot move recorded images to a different folder.

Copy

Copies all images in the internal memory to a "Memory Stick Duo".

- ① Insert a "Memory Stick Duo".
- ② Select [Copy] with ▲/▼/◄/► on the Multi-selector. The message "All data in internal memory will be copied" appears.
- ③ Select [OK] with ▲. Copying starts.

To cancel the copying

Select [Cancel] in step 3.

- Charge the battery sufficiently. Copying image files when the remaining battery amount is low can cause
 data transfer failure or damage the data due to battery exhaustion.
- · You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the "Memory Stick Duo" after copying, then execute the [Format] command in [Internal Memory Tool] (page 58).
- When you copy the data in the internal memory to the "Memory Stick Duo", a new folder is created. You
 cannot choose a specific folder on the "Memory Stick Duo" as the destination for the data to be copied.
- Even if you copy data, a 5 (Sharemark) or a (Print order) mark is not copied.

This item does not appear when a "Memory Stick Duo" is inserted in the camera.

Format

Formats data stored in the internal memory.

- · Note that formatting irrevocably erases all data in the internal memory, including even protected images.
- ① Select [Format] with △/▼/◀/▶ on the Multi-selector. The message "All data in internal memory will be erased" appears.
- ② Select [OK] with ▲. The format is completed.

To cancel the formatting

Select [Cancel] in step 2.



The default settings are marked with .

LCD Backlight

Selects the brightness of the LCD backlight when using the camera with battery.

Bright	Brightens.
Normal	

- You can change the setting by pressing [[(Screen display switch) button longer.
- · Selecting [Bright] uses up the battery charge faster.

Beep

Selects the sound produced when you operate the camera.

	Shutter	Turns on the shutter sound when you press PHOTO.
<	On	Turns on the beep/shutter sound when you press the Multiselector, PHOTO or MOVIE button.
	Off	Turns off the beep/shutter sound.

A Language

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

Initialize

Initializes the setting to the default setting. Even if you execute this function, the images stored in the internal memory are retained.

- ① Select [Initialize] with △/▼/◆/▶ on the Multi-selector. The message "Initialize all settings" appears.
- ② Select [OK] with ▲.

 The settings are reset to the default setting.

To cancel the resetting

Select [Cancel] in step ②.

· Make sure that the power is not disconnected during resetting.



The default settings are marked with .

File Number

Selects the method used to assign file numbers to images.

<	Series	Assigns numbers to files in sequence even if the recording folder or the "Memory Stick Duo" is changed. (When the replaced "Memory Stick Duo" 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.)

USB Connect

Selects the USB mode to be used when connecting the camera to a computer or a PictBridge compliant printer using the USB cable.

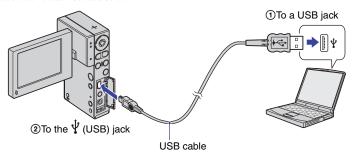
	PictBridge	Connects the camera to a PictBridge compliant printer (page 47). When you connect the camera to a computer, the copy wizard starts automatically, and the images in the recording folder on the camera are copied to the computer (with Windows XP/Vista, Mac OS X).
	Web camera	Connect the camera and a computer with a USB cable and use the camera as a webcam (USB streaming). • Movies output will be 320×240 (30fps) Motion JPEG format. • Movies streamed will not be displayed on the LCD screen of the camera.
$ \checkmark $	Mass Storage	Establishes a Mass Storage connection between the camera and a computer or other USB device.

Connecting the camera and your computer with Mass Storage

"Mass Storage" mode lets a computer recognize the camera with "Memory Stick Duo" inserted as an external memory device and enables you to operate the camera through the computer connected with a USB cable.

Connecting the camera and your computer

Connect the camera as illustrated below.



NSC-GC3: You cannot input signals to your camera through the ψ (USB) jack.

To delete the USB connection

Perform the procedures listed below beforehand when:

- · Disconnecting the USB cable
- · Removing a "Memory Stick Duo"
- Inserting a "Memory Stick Duo" into the camera after copying images from the internal memory
- · Turning off the camera
- ① Double-click 🕏 on the tasktray.



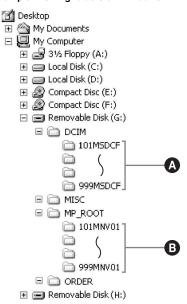
Double-click here

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

The device is disconnected.

• Step 4 is unnecessary for Windows XP.

Image file storage destinations and file names Example: viewing folders on Windows XP



- Solder containing image data recorded using this camera When not creating any folders, there is only the "101MSDCF" folder
- Folder containing movie data that were recorded using your camera When not creating any folder, there is only the "101MNV01" folder
- · You cannot record/play back any images to the "MISC" folder.
- Image files are named as follows. □□□□ stands for any number within the range from 0001 to 9999.
 - Still image files: DSC0□□□□.JPG
 - Movie files: M4V0□□□□ MP4
- · For more information about folders, see page 56.

Video Out

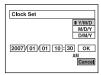
Sets the video signal output according to the TV color system of the connected video equipment. Different countries and regions use different TV color systems. If you want to view images on a TV screen, check page 65 for the TV color system of the country or region where the camera is used.

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).

Clock Set

Sets the date and time.

① Select [Clock Set] with **△**/**V**/**◄**/**>** on the Multi-selector.



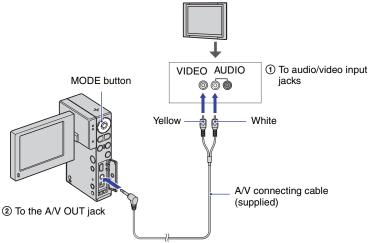
- ② Select the date display format with ▲/▼.
- 3 Select each item with ◀/▶ and set the numeric value with ▲/▼.
- Select [OK] with ▶.

To cancel the clock setting

Select [Cancel] in step 4.

You can view images on a TV screen by connecting the camera to a TV. The connection varies according to the type of TV the camera is connected to. Turn off both your camera and the TV before connecting the camera and the TV.

1 Connect the camera to the TV with the A/V connecting cable.



• If your TV has stereo input jacks, connect the audio plug (white) of the A/V connecting cable to the left audio jack.

2 Turn on the TV and set the TV/video input switch to "video".

· For details, see the operating instructions supplied with the TV.

3 Press MODE to set the playback mode.

Images shot with the camera appear on the TV screen.

Press **◄/▶** on the Multi-selector to select the desired image.

- · When using your camera abroad, it may be necessary to switch the video signal output to match that of your TV system (page 62).
- Image will not be displayed on the LCD panel when an image signal is output to TV.

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 A/V connecting cable. The color system of the TV must match that of your 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, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, United Kingdom, etc.

PAL-M system

Brazil

PAL-N system

Argentina, Paraguay, Uruguay

SECAM system

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

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

- Check the items on pages 67 to 73.
- 2 Turn the power off, and turn it on again after about one minute.
- 3 Press the RESET button (page 9) using a fine-tipped object, and turn on the

If you do the operation above, the date and time setting is cleared.

Consult your Sony dealer or local authorized Sony service facility.

When repairing the camera, we may check a minimum amount of data stored on the internal memory in order to improve the condition. However, Sony dealer will neither copy nor save your data.

Click one of the following items to jump to the page explaining the symptom and cause or the appropriate corrective action.

Battery and power	67	Internal memory	71
Shooting movies/still images	67	Printing	71
Viewing images	69	PictBridge compliant printer	71
Deleting/Editing images	70	Others	73
"Memory Stick Duo"	70		

Battery and power

Cannot turn on the camera.

- · Remove the insulation sheet.
- The battery is discharged. Charge the battery (page 15).
- The plug of the AC Adaptor has been disconnected from the wall outlet (wall socket).
 Connect it to the wall outlet (wall socket) (page 15).

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. Turn on the camera again.

The battery remaining indicator is incorrect.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- The displayed battery remaining differs from the current one. Fully discharge and then charge
 the battery to correct the display.
- The battery is discharged. Charge the battery.

Shooting movies/still images

Your camera cannot record images.

- Check the free capacity of the internal memory or "Memory Stick Duo". If it is full, do one of the following:
 - Delete unnecessary images (page 30).
 - Change the "Memory Stick Duo".
- The shooting mode will automatically stop in either of the following situations.
 - When the file size of the movie being recorded exceeds 2 GB.
- After the maximum shooting duration time* for each file has passed.
 - * NSC-GC1: 2 hours, NSC-GC3: 29 minutes
- You are using the "Memory Stick Duo" with a write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position (page 77).
- You cannot record images while charging the flash.
- Press MODE and set the camera to recording mode to shoot a movie or a still image.

The LCD screen does not display the movies or still images you are shooting.

 Your camera is set to the playback mode. Press MODE to change to the recording mode (page 24).

Anti-blur function does not work.

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

Recording takes a long time.

• The NR slow shutter function is activated. This is not a malfunction.

The image is out of focus.

• The subject is too close. Shoot in (Close-up) recording mode. Make sure to position the lens farther away from the subject than the shortest shooting distance, approximately 60 cm (1 feet 11 5/8 inches), when shooting (page 26).

The flash does not work.

- The flash is set to ③ (Flash forced off) (page 26).
- · You cannot use the flash when:
- [REC Mode] is set to [Burst] or [ExpBrktg] (page 42).
- **ఎ** (Twilight mode) or △ (Fireworks mode) is selected in the Scene Selection mode (page 38).
- When shooting movies, or when shooting a still image while shooting movies
- Set the flash to **\$** (Flash forced on) when (Landscape mode), **\(\sum_{\text{c}}\)** (Beach mode), or (Snow mode) is selected in the Scene Selection mode (page 38).

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.

The date and time are not displayed on LCD screen.

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

The recording date is not superimposed on an image.

• This camera does not have a feature for superimposing dates on images.

The screen is too dark or too bright.

• Adjust the brightness of the LCD backlight (page 59).

The image is too dark.

 You are shooting a subject with a light source behind the subject. Adjust the exposure (page 39).

The image is too bright.

• Adjust the exposure (page 39).

The image colors are not correct.

• Set [Color Mode] to [Off] (page 38).

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.

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 [On] (page 55).
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.

Dots appear and remain on the screen.

• This is not a malfunction. These dots are not recorded (page 3).

Cannot shoot images in succession.

- The internal memory or "Memory Stick Duo" is full. Delete unnecessary images (page 30).
- The battery level is low.

Viewing images

Your camera cannot playback images.

- Press MODE to change to the playback mode (page 28).
- The folder/file name has been changed on your computer.
- When an image file has been processed by a computer or when the image file was recorded using a model other than that of your camera, playback on your camera is not guaranteed.
- The camera is in USB mode. Delete the USB connection.

The date and time are not displayed.

• | | (Screen display switch) button is turned off (page 25).

The image appears rough right after playback starts.

 The image may appear rough right after playback starts due to image processing. This is not a malfunction.

The image does not appear on the TV screen.

- Check [Video Out] to see if the video output signal of your camera is set to the color system of your TV (page 62).
- Check whether the connection is correct (page 64).
- If the USB cable is connected to the USB terminal, disconnect it.

Deleting/Editing images

Your camera cannot delete an image.

- Cancel the protection (page 44).
- · You are using the "Memory Stick Duo" with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position (page 77).

You have deleted an image by mistake.

• Once you have deleted an image, you cannot restore it. We recommend that you protect images (page 44), or use the "Memory Stick Duo" with the write-protect switch and set the switch to the LOCK position (page 77) to prevent accidental erasure.

"Memory Stick Duo"

Cannot insert a "Memory Stick Duo".

· Insert it in the correct direction.

Cannot format a "Memory Stick Duo".

• You are using the "Memory Stick Duo" with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position (page 77).

You have formatted a "Memory Stick Duo" by mistake.

· All the data on the "Memory Stick Duo" is deleted by formatting. You cannot restore it. We recommend that you set the write-protect switch on the "Memory Stick Duo" to the LOCK position to prevent accidental erasure (page 77).

The internal memory cannot be recognized as a removable disk when connected by USB.

• Depending on the connected USB equipment, the internal memory of the camera cannot be recognized as a removable disk. In [Copy] of [Memory Stick Tool], connect the camera after copying the images of the internal memory to the "Memory Stick Duo" (page 57).

Internal memory

Cannot playback or record images using the internal memory.

• There is a "Memory Stick Duo" inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a "Memory Stick Duo".

• The "Memory Stick Duo" is full. Check the capacity.

Cannot copy the data on the "Memory Stick Duo" or the computer to the internal memory.

• Data on a "Memory Stick Duo" or a computer cannot be copied to the internal memory.

Printing

Also see "PictBridge compliant printer" (as follows) in conjunction with the following items.

Images are printed with both edges cut off.

- Depending on your printer, the left, right, top, and bottom edges of the image may be cut off.
- When printing images using your own 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.

- This 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.
- When you print images at a shop, images can be printed with the date if you ask them to do so.

PictBridge compliant printer

A connection cannot be established.

- The camera cannot be connected directly to a printer that is not compliant with the PictBridge standard. Consult the printer manufacturer as to whether the printer is compliant with PictBridge or not.
- Check that the printer is turned on and can be connected to the camera.
- Set [USB Connect] to [PictBridge] (page 60).
- Disconnect and connect the USB cable again. If an error message is indicated on the printer, refer to the operating instructions supplied with the printer.

Cannot print images.

- Check that the camera and the printer are properly connected using the USB cable.
- Turn on the printer. For further information, refer to the operating instructions supplied with the printer.
- If you select [Exit] during printing, images may not be printed. Disconnect and connect the USB cable again. If you still cannot print your images, disconnect the USB cable, turn the printer off and then on, then connect the USB cable again.
- · Movies cannot be printed.
- Images shot using cameras other than this camera or images modified with a computer may not be printed.

Printing is canceled.

• Confirm that you have disconnected the USB cable before the (PictBridge Connecting) mark disappears.

Cannot insert the date or print images in the index mode.

- The printer does not provide these functions. Consult the printer manufacturer as to whether the printer provides these functions or not.
- The date may not be inserted in the index mode depending on the printer. Consult the printer manufacturer

"---- -- " is printed on the date-inserted part of the image.

• Images that do not have the recording data cannot be printed with the date inserted. Set [Date] to [Off] and print the image again (page 47).

Cannot select the print size.

• Consult the printer manufacturer as to whether the printer can provide the desired size.

Cannot print the image at the size selected.

- Disconnect the USB cable and reconnect it whenever you change the paper size after the printer has been connected to the camera.
- The print setting of the camera differs from that of the printer. Change the setting of either the camera (page 47) or the printer.

Cannot operate the camera after canceling printing.

• Wait for a while as the printer is carrying out the cancellation. It may take some time depending on the printer.

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 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 (page 63).

You want to change the date or time.

• Set the date and time again (page 63).

Warning indicators and messages

Messages

If the following messages appear, follow the instructions.



· The battery level is low. Charge the battery immediately. The indicator may flash even if there are still 5 to 10 minutes of remaining battery time left.

No Memory Stick

Insert a "Memory Stick Duo" (page 17).

System error

Turn the power off and then on again.

Internal memory error

Turn the power off and then on again.

Reinsert the Memory Stick

- · Insert the "Memory Stick Duo" correctly (page 17).
- · The inserted "Memory Stick Duo" cannot be used in your camera (page 77).
- · The "Memory Stick Duo" is damaged.
- · The terminal section of the "Memory Stick Duo" is dirty.

Memory Stick type error

· The inserted "Memory Stick Duo" cannot be used in your camera (page 77).

Format error

• Format the media again (page 56).

Memory Stick locked

· You are using the "Memory Stick Duo" with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position (page 77).

No memory space

· Delete unnecessary images or files (page 30).

Read only memory

· Your camera cannot record or delete images on this "Memory Stick Duo".

No file in this folder

- · No images have been recorded in this folder
- You did not operate correctly when copying images from your computer.

Folder error

· A folder with the same first three digit number already exists on the "Memory Stick Duo" (for example: 123MSDCF and 123ABCDE). Select other folders, or create a new folder (pages 56, 57).

Cannot create more folders

· The folder with a name beginning with "999" exists on the "Memory Stick Duo". You cannot create any folders if this is the case.

Cannot record

· The camera cannot record images in the selected folder. Select a different folder (page 56).

File error

 An error occurred while the image was playing back.

File protect

· Release the protection (page 44).

Image size over

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

Invalid operation

- You are trying to playback a file that is not compatible with the camera.
- You have selected a function that is not available for movies.

Turn the power off and on again

· A problem with the lens caused an error.

Enable printer to connect

- [USB Connect] is set to [PictBridge], however the camera is connected to a non-PictBridge compliant device.
 Check the device.
- The connection is not established.
 Disconnect and connect the USB cable again. If an error message is indicated on the printer, refer to the operating instructions supplied with the printer.

Connect to PictBridge device

 You tried to print images before the printer connection was established.
 Connect to a PictBridge compliant printer.

No printable image

- You tried to execute [DPOF image] without placing a DPOF (Print order) mark on the image(s).
- You tried to execute [All In This Folder] while a folder that holds only movies was selected. You cannot print movies.

Printer busy Paper error No Paper Ink error Low Ink No Ink

Check the printer.

Printer error

- · Check the printer.
- Check if the image you want to print is corrupted.



 The data transmission to the printer may not be completed yet. Do not disconnect the USB cable.

Processing

 The printer is canceling the current print job. You cannot print until it is finished.
 This may take time, depending on the printer.

Unsupported data

 The data is unsupported by the camera and cannot be played back.

Others To use your camera abroad — Power sources

You can use your camera and the UPA-AC05 AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50/60 Hz.

• Do not use an electronic transformer (travel converter), as this may cause a malfunction.

On the "Memory Stick"

A "Memory Stick" is a compact, portable IC recording medium with a large data capacity.

You can use the following types of "Memory Stick" listed below on this camera. However, we do not guarantee the operation of all types of "Memory Stick" on your camera. (See the list below for more details.)

Types of "Memory Stick"	Recording/ Playback
"Memory Stick Duo" (without MagicGate)	0
"Memory Stick Duo" (with MagicGate)	O*1
"MagicGate Memory Stick Duo"	0
"Memory Stick PRO Duo"	O*1
"Memory Stick PRO-HG Duo"	O*1*2

^{*1}The types of "Memory Stick Duo" that support high speed data transfer. The speed of data transfer varies depending on the device to be used.

- Your camera cannot record or play data that uses "MagicGate" technology. "MagicGate" is a copyright protection technology that records and transfers the contents in an encrypted format.
- Your camera is compatible with "Memory Stick Micro" ("M2"). "M2" is the abbreviation for the "Memory Stick Micro".
- Still image format: Your camera compresses and records image data in the JPEG (Joint Photographic Experts Group) format. The file extension is "JPG".
- A "Memory Stick Duo" formatted by a computer (Windows OS/Mac OS) does not have guaranteed compatibility with your camera.
- Data read/write speed may vary depending on the combination of the "Memory Stick Duo" and "Memory Stick Duo" compliant product you use.

- You can prevent accidental erasure of images when you slide the write-protect tab on the "Memory Stick Duo" with a small tapered object, to the write-protect position.
- Damaged or lost image data will not be compensated for, and may occur in the following cases:
 - If you eject the "Memory Stick Duo" or turn the power off on your camera while your camera is reading or writing image files on the "Memory Stick Duo" (while the access lamp is lit or flashing).
- If you use the "Memory Stick Duo" near magnets or magnetic fields.
- It is recommended you make a back-up of important data on the hard disk of a computer.
- Be careful not to apply excessive force when writing on a memo area on a "Memory Stick Duo".
- Do not attach a label or the like on a "Memory Stick Duo" or a Memory Stick Duo adaptor.
- When you carry or store a "Memory Stick Duo", put it in its case.
- Do not touch, or allow metallic objects to come into contact with the terminals.
- Do not bend, drop or apply strong force to the "Memory Stick Duo".
- Do not disassemble or modify the "Memory Stick Duo".
- · Do not let the "Memory Stick Duo" get wet.
- Be careful to keep "Memory Stick Duo" media out of the reach of small children. There is danger that a child might swallow it.
- Do not insert anything other than a "Memory Stick Duo" into the Memory Stick Duo slot. Doing so may cause a malfunction.
- Do not use or keep the "Memory Stick Duo" in the following locations:
 - Places subject to extremely high temperature, such as a car parked outside in the summer.
 - Places under direct sunlight.
 - Places with extremely high humidity or subject to corrosive gases.

^{*2} Your camera does not support an 8-bit parallel data transfer. A 4-bit parallel data transfer, as same as "Memory Stick PRO Duo", is supported.

On the Memory Stick Duo adaptor

- · When using a "Memory Stick Duo" with a "Memory Stick" compliant device, be sure to insert the "Memory Stick Duo" into a Memory Stick Duo adaptor.
- · When inserting a "Memory Stick Duo" into a Memory Stick Duo adaptor, make sure the "Memory Stick Duo" is inserted facing in the correct direction, then insert it all the way in. Note that improper use may cause a malfunction. Also, if you force the "Memory Stick Duo" into the Memory Stick Duo adaptor in the wrong direction, it may be damaged.
- · Do not insert a Memory Stick Duo adaptor without a "Memory Stick Duo" attached. Doing so may result in malfunctions of the unit.

On a "Memory Stick PRO Duo"

· The maximum memory capacity of a "Memory Stick PRO Duo" that can be used on your camera is 8 GB.

Notes on using "Memory Stick Micro"

- · To use a "Memory Stick Micro" with this camera, you need a Duo-sized M2 Adaptor. Insert the "Memory Stick Micro" into the Duosized M2 Adaptor, and then insert the adaptor into the Memory Stick Duo slot. If you insert a "Memory Stick Micro" into this camera without using a Duo-sized M2 Adaptor, you might not be able to remove it from the camera.
- · Do not leave the "Memory Stick Micro" within the reach of small children. They might accidentally swallow it.

On image data compatibility

- · Image data files recorded on a "Memory Stick Duo" by your camera conform to the "Design rule for Camera File system" universal standard established by the JEITA (Japan Electronics and Information Technology Industries Association).
- · On your camera, you cannot play back still images recorded on other devices that do not conform to the universal standard. (These models are not sold in some regions.)
- If you cannot use a "Memory Stick Duo" that has been used with another device, format it with your camera (page 56). Note that formatting erases all information on the "Memory Stick Duo".
- · You may not be able to play back images with your camera:
 - When playing back image data modified on your computer.
- When playing back image data recorded with other devices.

On the built-in battery

On charging the battery

We recommend charging the battery in an ambient temperature of between 10°C to 30°C (50°F to 86°F). You may not be able to efficiently charge the battery outside of this temperature range.

Effective use of the battery

- Battery performance decreases in low temperature surroundings. So, the time that the battery can be used is shorter in cold places. We recommend the following to ensure longer battery use:
 - Put the camera in a pocket, etc. to warm it up before using.
- The battery will run out quickly if you use the flash or zoom frequently.

How to store the camera

- If the camera is not to be used for a long time, to maintain its function, fully charge the internal battery and use it up at least once a year, and then store the camera in a dry, cool place.
- To use the battery up, leave your camera in slide show (page 49) playback mode until the power goes off.

On battery life

- The battery life is limited. Battery capacity decreases little by little as you use it more and more, and as time passes. If the battery operating time seems shortened considerably, a probable cause is that the battery has reached the end of its life. Contact your Sony dealer or local authorised Sony service facility.
- The battery life varies according to how it is stored and the operating conditions and environment.



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