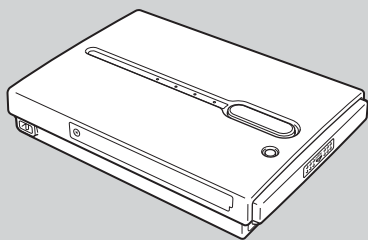


HDD

Photo Storage

Operating Instructions

Before operating the unit, please read this document thoroughly, and retain it for future reference.



HDDPS-M1

Preparations _____

Copying data to the unit _____

Connecting to a computer _____

Additional information _____

Safety regulations

WARNING

Keep away from children. If any part of the unit is swallowed, promptly see a doctor.


To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For use only with power supply SONY, Model HDAC-M1/MCS-AC1.

Disclaimer

Sony Corporation assumes no responsibility for the loss of information stored on the hard disk of this unit, or information transferred to a “Memory Stick” and/or CompactFlash card with your computer.

- “Memory Stick”, , and “MagicGate Memory Stick” are trademarks of Sony Corporation.
- “Memory Stick Duo” and “MEMORY STICK DUO” are trademarks of Sony Corporation.
- “MagicGate Memory Stick Duo” is a trademark of Sony Corporation.
- “Memory Stick PRO” and “MEMORY STICK PRO” are trademarks of Sony Corporation.
- “Memory Stick PRO Duo” and “MEMORY STICK PRO DUO” are trademarks of Sony Corporation.
- “MagicGate” and “MAGICGATE” are trademarks of Sony Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Mac and Macintosh are trademarks of Apple Computer Inc., registered in the U.S. and/or other countries.
- Microdrive is a registered trademark of Hitachi Global Storage Technologies.
- Other system and product names used herein are registered trademarks or trademarks of their respective manufacturers, although the ™ and ® marks are not used in the text.

In this manual, Microsoft® Windows® XP Professional and Microsoft® Windows® XP Home Edition are referred to as Windows XP.

In this manual, Microsoft® Windows® 2000 Professional is referred to as Windows 2000.

In this manual, Microsoft® Windows® Millennium Edition is referred to as Windows Me.

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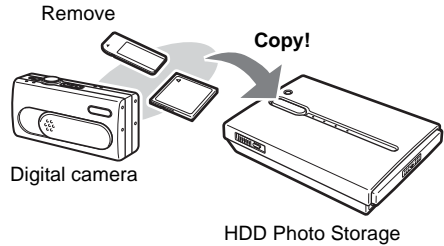
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What you can do with the HDD Photo Storage

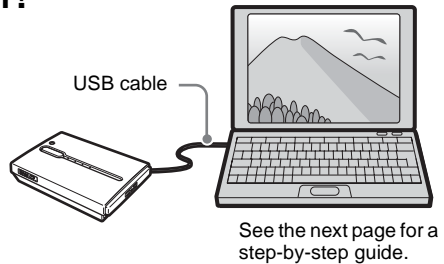
Store lots of images from a digital camera!

Simply take pictures, and then insert the media into the HDD Photo Storage to copy the image data to the internal hard disk. After copying, you can reuse the media immediately. The 40 GB hard disk of the HDD Photo Storage can store the equivalent of about 620 units of 64 MB media.



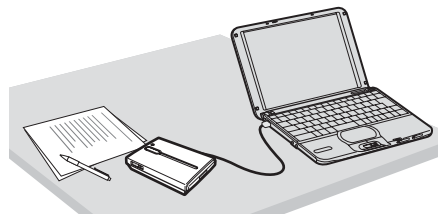
Connect to a computer!

Using the supplied USB cable, you can easily transfer data from an inserted media or from the hard disk of the HDD Photo Storage to a computer. There is no need to install any special software or perform a setup procedure.



Use as an external hard disk!

The HDD Photo Storage can function as a USB 2.0-compatible external hard disk, to provide data storage capacity to a computer. There is no need to install a dedicated driver, which is great for quick copying of data in a temporary setup.

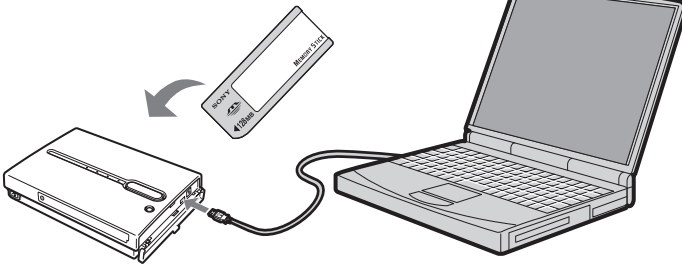


Take it anywhere!

Thanks to its extremely compact dimensions and 300 g (10.6 oz.), the HDD Photo Storage is eminently portable, making it the ideal companion on any trip, long or short.

Copying images to your computer

1 Prepare the HDD Photo Storage and your computer (page 23).



2 Copy image files to your computer (page 24).



3 View images on your computer.

Media types that can be used with the HDD Photo Storage

The following storage media can be used with the HDD Photo Storage.

“Memory Stick” media

“Memory Stick” types	Read/write on HDD Photo Storage
“Memory Stick” “Memory Stick” (with the Memory Select function) “Memory Stick Duo”	Yes
“Memory Stick” (MagicGate/High-speed transfer compatible) “Memory Stick Duo” (MagicGate/High-speed transfer compatible)	Yes ^{*1*2}
“MagicGate Memory Stick” “MagicGate Memory Stick Duo”	Yes ^{*1}
“Memory Stick PRO” “Memory Stick PRO Duo”	Yes ^{*1*2}

*1 Read/write of data that requires the MagicGate function is not possible.

*2 High-speed transfer using the parallel interface is supported only with the “Memory Stick PRO”. Transfer speed and available functions differ depending on the specifications of the respective equipment.

CompactFlash cards (CF cards)

- Type I, II
- Microdrive

Notes

- There is no guarantee that the unit can use all “Memory Stick”, CompactFlash cards, or Microdrives.
- The unit supports “Memory Stick” and Microdrives of up to 1 GB. Operation with “Memory Stick PRO” or Microdrives of higher capacities is not guaranteed.
- Do not insert any media or devices other than those outlined above into the unit.

About the “Memory Stick” media

The “Memory Stick” is a small, lightweight IC type storage media that can hold considerably more data than a conventional floppy disk. It can serve not only to exchange data between two devices with “Memory Stick” slots, but it is also convenient as a removable external media for data storage.

The “Memory Stick” comes in two formats: the standard size “Memory Stick” and the smaller “Memory Stick Duo”. The unit is compatible with both formats.

“Memory Stick” types

There are six different types of “Memory Stick” designed for various applications.

“Memory Stick PRO”

This “Memory Stick” can only be used in equipment compatible with “Memory Stick PRO”. It incorporates a copy protection technology called MagicGate.

“Memory Stick”

This is the regular “Memory Stick”. It can store all kinds of data, except data that requires MagicGate copy protection.

“Memory Stick” (MagicGate/High-speed transfer compatible)

This type of “Memory Stick” incorporates the MagicGate copy protection and supports high-speed transfers. It can be used in all devices that support the “Memory Stick”. The unit does not support high-speed transfers.

“MagicGate Memory Stick”

This type of “Memory Stick” incorporates the MagicGate copy protection.

“Memory Stick-ROM”

This is a read-only type of “Memory Stick” that contains prerecorded data that cannot be deleted or overwritten.

“Memory Stick” (with the Memory Select function)

This “Memory Stick” has a number of separately addressable internal memory blocks (128 MB). The Memory Select switch at the rear of this type of “Memory Stick” lets you select the desired memory. It is not possible to use multiple blocks simultaneously or continuously.

What is MagicGate?

MagicGate is a copyright protection technology that must be present in the “Memory Stick” and on the device where it is to be used. MagicGate incorporates two security features: encryption of copy-protected data, and mutual verification of the “Memory Stick” and reader device. This serves to prevent the unauthorized copy and playback of copyrighted material. Because the HDD Photo Storage does not come with MagicGate, it cannot use data encrypted with MagicGate.

When you attempt to copy music files from a MagicGate device to a “Memory Stick”, the device and “Memory Stick” verify whether the other is MagicGate-compliant. Music files are only encrypted and copied if the verification is successful. Similarly, when attempting to play back encrypted files from the “Memory Stick”, playback only starts if the verification between the device and “Memory Stick” is successful.

Recommended computer environment

The unit can be used with computers that run the following preinstalled operation systems and come with USB ports.

Windows

- Windows XP Professional
- Windows XP Home Edition
- Windows 2000 Professional (Service Pack 4 or later)
- Windows Me

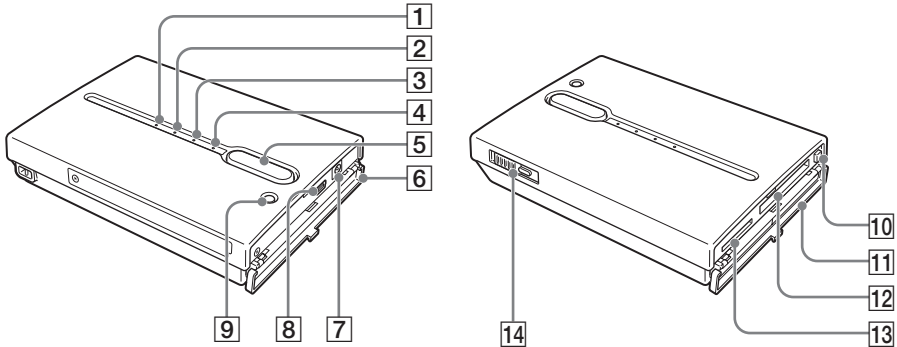
Notes

- Even if the operating system is one of the above, operation is not guaranteed in a multiboot environment or if the operating system is an upgraded version.
- Operation is not guaranteed when you use USB interface cards or USB CardBus cards added afterwards.

Macintosh

- Mac OS X (10.3 or later)

Identifying parts and controls



1  **(power) indicator**


When the unit is on, this indicator lights or flashes. Depending on the remaining battery capacity, the indicator pattern changes. (page 14)

2  **(“Memory Stick”) indicator (page 16)**

When you use the unit stand-alone and the “Memory Stick” is inserted, this indicator lights green. During copy, the indicator flashes.

3 **CF (CompactFlash) indicator (page 18)**

When you use the unit stand-alone and a CompactFlash card is inserted, this indicator lights green. During copy, the indicator flashes.

4  **(hard disk) indicator (page 20)**

Flashes green while the hard disk is being accessed.


5 **COPY button (page 20)**

Serves to copy data from a “Memory Stick” or CompactFlash card to the internal hard disk. When the unit is ready to copy, the button lights green.

6 **Port cover (page 10)**

7  **(DC In) connector (page 13)**

Serves to connect the supplied AC power adapter.

8  **(USB) port (page 23)**

Serves to connect the supplied USB cable.

9 CANCEL/HDD CAPA. button (page 21)

Serves to cancel an ongoing copy and verify the remaining hard disk capacity.

10 Eject button (page 18)

Serves to eject the CompactFlash card.

11 Slot cover (page 10)

12 CompactFlash slot (page 18)

Serves to insert a CompactFlash card.

13 “Memory Stick” slot (page 16)

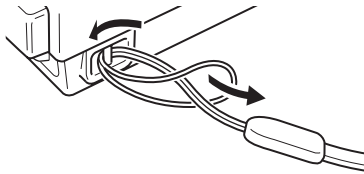
Serves to insert a “Memory Stick”.

14 I/⏻ (power) switch (page 20)

Serves to turn the unit on and off.

15 Hand strap hook

Serves to attach the hand strap.

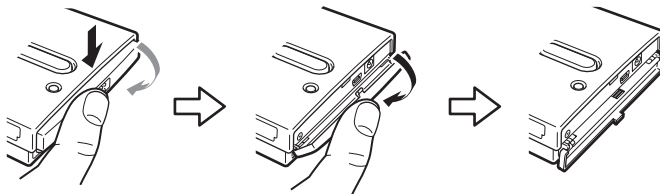


Opening/closing the covers

You can open/close the port and slot covers the same way.

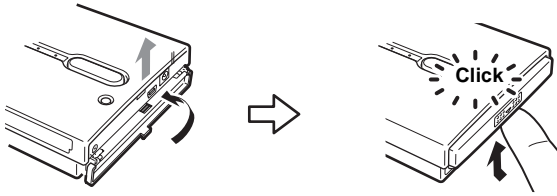
To open the covers

Lightly push down the top part of the cover to open it, as illustrated.



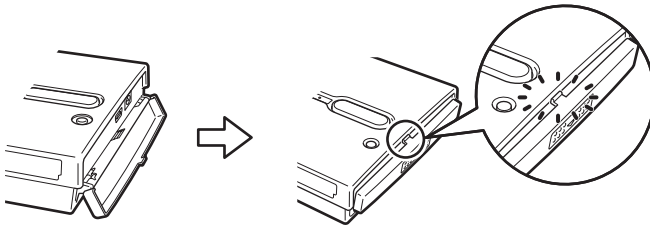
To close the covers

Push the cover up from its fully open position, until the tab of the cover fits into the notch of the body. Then, lightly push up the cover until you feel it click into place. When it does, the cover is securely closed.

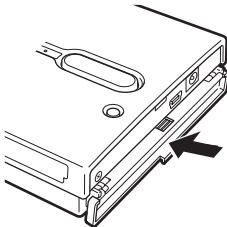


Notes

- Close the covers when the unit is not in use.
- If the cover only opens as far as illustrated, you cannot close the cover.



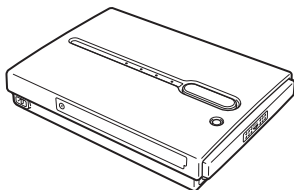
To solve this problem, press the center of the cover as illustrated until it is in its fully open position, and then try closing it again.



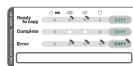
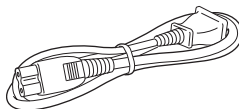
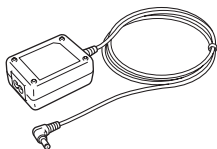
Unpacking

When you unpack the unit, make sure that all the items listed below are present. If anything is missing, contact your dealer or an authorized service center in your area.

- HDD Photo Storage unit (1)
- USB cable (1)



- AC power adapter (1)
(SONY, Model HDAC-M1/
MCS-AC1)
- Power cord (1)
- Indicator label (1)

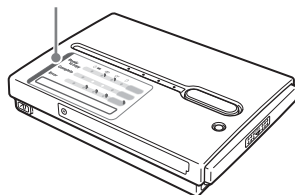


- Carrying case (1)
- Hand strap (1)
- Operating Instructions (this document)
- PhotoDiary software (on the hard disk)
- Read Me First (1)
- Warranty card (1)

Affixing the indicator label

You can affix the indicator label anywhere on the unit, but we recommend that you affix it as illustrated below for easy reference.

Indicator label

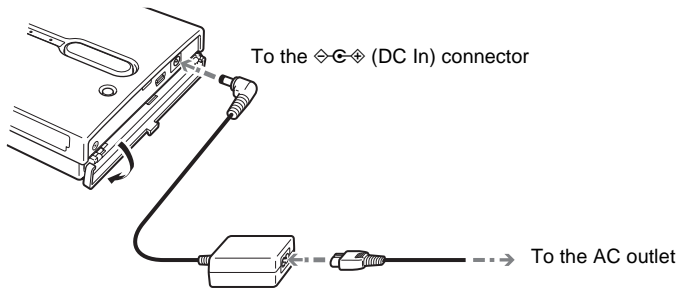



Powering the unit

You can use the internal battery or the AC power adapter to power the unit.

Charging the battery

If you want to use the unit without the AC power adapter, you must first charge the internal battery of the unit. To do this, connect the supplied AC power adapter as illustrated.



When the AC power adapter is connected to the unit, the internal battery starts charging. The  (power) indicator flashes during charging. When the battery is fully charged, the indicator turns off. The charging process takes about 4 hours at ambient temperature.





Hint

The internal battery charges even when the unit is in use, as long as the AC power adapter is connected. However, the charge time is considerably longer than when the internal battery is charged as outlined above.

Notes

- Only use the supplied AC power adapter. Other power adapters do not work.
- If you use the unit under battery power at temperatures of 10°C (50°F) or less, you cannot use the unit as long as normal. Normal operation of the unit under battery power is not guaranteed at low temperatures; therefore, make sure that you connect the AC power adapter.
- To maintain battery performance, make sure that you charge it periodically by connecting the AC power adapter.

About the battery capacity

If the unit is used on internal power, the battery charge is gradually depleted. The state of the battery charge is shown by the   (power) indicator. The   (power) indicator blinks during charging. If you charge the battery during use, the indicator blinks according to the following pattern: red, yellow, and then green.

Indicator	Remaining battery capacity	Description
Lit green	50% or more	There is enough remaining charge in the internal battery to use the unit without connecting it to the AC power adapter, or the AC power adapter is connected to the unit.
Lit yellow	10 to 50%	The remaining charge is lowering, but still sufficient to copy several more media.
Lit red	Less than 10%	Connect the AC power adapter to charge the internal battery. If you continue using the unit, it eventually turns off automatically.
Flashing red	Depleted	The battery is depleted and needs to be charged. The indicator turns off when the battery is fully charged.

Note

The remaining of charge figures above are approximative. Actual results vary depending on the operating environment, number of times the battery is charged, etc.

Using the unit with the AC power adapter

You can use the unit without worrying about the remaining charge of the internal battery simply by connecting the AC power adapter. Connect the AC power adapter to the unit as outlined in “Charging the battery”(page 13).

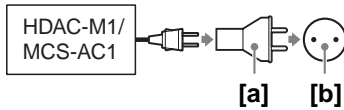
Power save function

When the unit is used stand-alone, it turns off automatically after remaining idle for five minutes, whether operating on internal power or through the AC power adapter. Simply restart the unit to resume operation.

Using the unit abroad

Power sources

You can use the unit in any country or area with the supplied AC adapter within 100 V to 240 V AC, 50/60 Hz. Use a commercially available AC plug adapter **[a]**, if necessary, depending on the design of the wall outlet (wall socket) **[b]**.



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

Inserting and removing the “Memory Stick” media

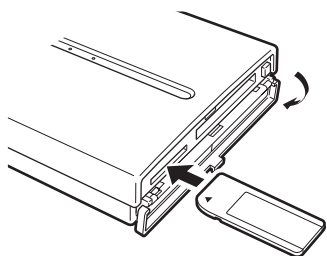
The “Memory Stick” slot of the unit can accept either a standard size “Memory Stick” or a “Memory Stick Duo”. The unit automatically detects what size of “Memory Stick” is inserted. There is no need to use an adapter when using a “Memory Stick Duo”.

Hint


For information on how to open and close the slot cover, see “Opening/closing the covers” (page 10).

Inserting the “Memory Stick”

Insert the “Memory Stick” as illustrated, until you hear it click into place.



The label should face up. Insert it in the ▲ direction until you hear a click.

When the unit is on, the  (“Memory Stick”) indicator lights green as the “Memory Stick” is detected.

Notes

- Do not attempt to insert multiple “Memory Stick”. Otherwise, the equipment may be damaged.
- Before use, double-check that the “Memory Stick” is inserted correctly. Otherwise, the equipment may be damaged.

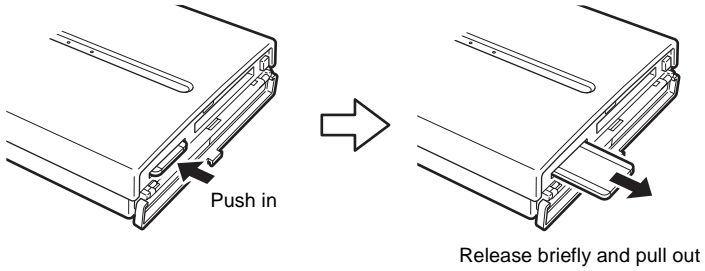
Removing the “Memory Stick” media

Note

Never remove the “Memory Stick” during copy. Otherwise, data may be corrupted.

Push the “Memory Stick” all the way in, briefly release it, and then pull it out.

When you push the “Memory Stick” all the way in, it slightly sticks out.



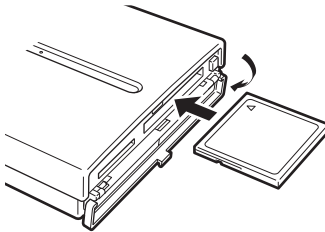
Inserting and removing the CompactFlash card

Hint

For information on how to open and close the slot cover, see “Opening/closing the covers” (page 10).

Inserting the CompactFlash card

Insert the CompactFlash card all the way into the slot, as illustrated.



The label should face up. Insert it in the ▲ direction all the way into the slot.

When the unit is on, the CF (CompactFlash) indicator lights green as the CompactFlash card is detected.

Note

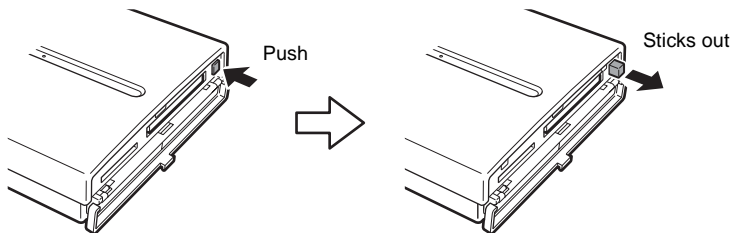
Before use, double-check that the CompactFlash card is inserted correctly. Otherwise, the equipment may be damaged.

Removing the CompactFlash card

Note

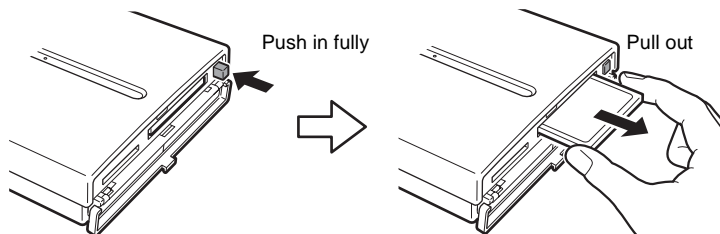
Never remove the CompactFlash card during copy. Otherwise, data may be corrupted.

- 1 Push the eject button.
The eject button sticks out.



- 2 Push the eject button all the way in, release it, and then pull the CompactFlash card out.

When you push the eject button in, the CompactFlash card slightly sticks out.



Note

Do not close the slot cover when the eject button is out.

Copying data to the HDD Photo Storage

This section explains how to use the COPY button on the unit to copy data from a “Memory Stick” or CompactFlash card to the internal hard disk of the unit.

Hint

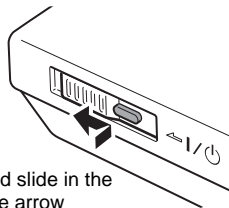
For information on how to connect the unit to a computer to copy, see “Connecting to a computer” (page 23).

Notes

- The data read/write speed depends on the combination of “Memory Stick” and equipment.
- Data from a “Memory Stick” that has the access control attribute set on another device cannot be read or copied on the unit. To enable reading and copying of such data, you must first disable the access control on the other device.
- MagicGate-compatible data can be copied but not played back with the unit. Once MagicGate-compatible data is copied to the unit, it cannot be copied back to the “Memory Stick”, either.

1 Turn on the unit.

Push and slide the I/⏻ (power) switch in the direction of the arrow. Hold the I/⏻ (power) switch until the ⏻ ◻ (power) indicator lights up.




Hold down and slide in the direction of the arrow

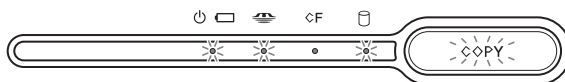
Hint

The color of the ⏻ ◻ (power) indicator differs, according to the remaining charge of the internal battery. For details, see “About the battery capacity” (page 14).

2 Insert the “Memory Stick” or CompactFlash card into the unit (page 16, page 18).

The media indicator, the  (hard disk) indicator, and the COPY button light green.

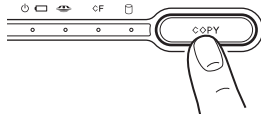
Example: When a “Memory Stick” is inserted




Notes

- If the COPY button does not light green, an error has occurred. For details, see “Meaning of the indicators” (page 44).
- When the unit is used stand-alone, it is not possible to insert both a “Memory Stick” and CompactFlash card, and copy data from both at the same time. Insert one media at a time.

3 Press COPY.



A folder is automatically created on the internal hard disk and the data is copied to that folder. While the copy is in progress, the media indicator, the  (hard disk) indicator, and the COPY button flash in sequence. When the copy is done, the COPY button lights green.

Note

If the COPY button flashes red, the remaining space on the internal hard disk is insufficient to finish the copy. Connect the unit to a computer and use the computer to delete unnecessary data on the internal hard disk of the unit. For details, see “Deleting unnecessary files and folders” (page 36).

Hint

If you want to cancel the copy midway, press the CANCEL/HDD CAPA. button. The COPY button flashes red to prompt you to confirm that you want to cancel the copy. To cancel the copy, press the CANCEL/HDD CAPA. button once more. To continue the copy, press the COPY button. Even if you cancel the copy, the unit's capacity decreases slightly because folders are created on the internal hard disk of the unit.

4 Remove the media (page 17, page 18).

Close the slot cover as necessary.

Hint

The COPY and CANCEL/HDD CAPA. buttons are only enabled when the unit is used stand-alone. When the unit is connected to a computer, both buttons are disabled. The COPY button can only be used when it is lit green.

To verify the remaining capacity of the internal hard disk

Note




You can only verify the remaining capacity of the internal hard disk when you use the unit stand-alone.

- 1 Make sure that there are no media inserted into the drives of the unit.

If there are, remove them. See page 17 to remove the “Memory Stick”. See page 18 to remove the CompactFlash card.

- 2 Press and hold CANCEL/HDD CAPA.

The four indicators of the unit light for a moment, and then the remaining capacity of the internal hard disk is displayed as follows.

		CF		Capacity
Lit green	Lit green	Lit green	Lit green	20 GB or more
–	Lit green	Lit green	Lit green	10 to 20 GB
–	–	Lit green	Lit green	5 to 10 GB
–	–	–	Lit green	1 to 5 GB
–	–	–	–	1 GB or less

- 3 Release CANCEL/HDD CAPA. to resume normal operation.

To turn off the unit

Push and slide the I/⏻ (power) switch in the direction of the arrow. The ⏻ (power) indicator turns off when the unit does. The indicator continues flashing red when the internal battery is recharging.

Preparing the HDD Photo Storage and computer

This section describes how to connect the unit to a computer using the USB cable to transfer data between the two devices.


Hints

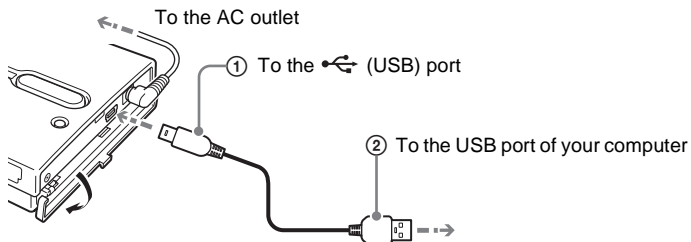
- When the unit is connected to a computer, you can insert a “Memory Stick” and a CompactFlash card at the same time and access data from both.
- When the unit is connected to a computer for the first time, the necessary programs are installed automatically.

1 Turn on the computer.

2 Turn on the unit.

When the unit turns on, the  (power) indicator lights.

3 Open the port cover on the right side of the unit and connect the supplied USB cable to the  (USB) port. Connect the other end of the cable to the USB port of your computer.



Note

Correct operation is not guaranteed when the unit is connected to a USB hub. Establish a direct USB connection.

4 Insert a “Memory Stick” and/or CompactFlash card into the unit as necessary.

Hint

When you connect the unit to your computer, the internal battery automatically charges whether the unit is on or off. However, to maintain battery performance, make sure that you charge it periodically by connecting the AC power adapter.

Copying data to a computer

When the unit is connected to a computer using the USB cable, data on the internal hard disk of the unit, as well as the one on an inserted “Memory Stick” or CompactFlash card, can be managed by the computer.

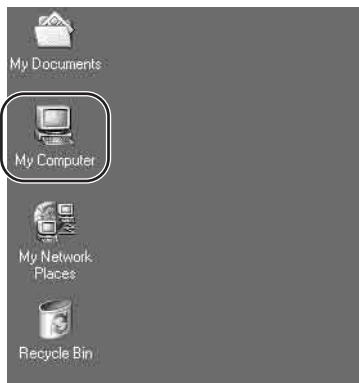
To illustrate, this section explains how to copy data from the unit to the “My Documents” folder of a computer running Windows. Copying data from the computer to the unit also uses a similar procedure.

Note

When the unit is connected to a computer with the USB cable, the COPY and CANCEL/HDD CAPA. buttons on the unit are disabled.

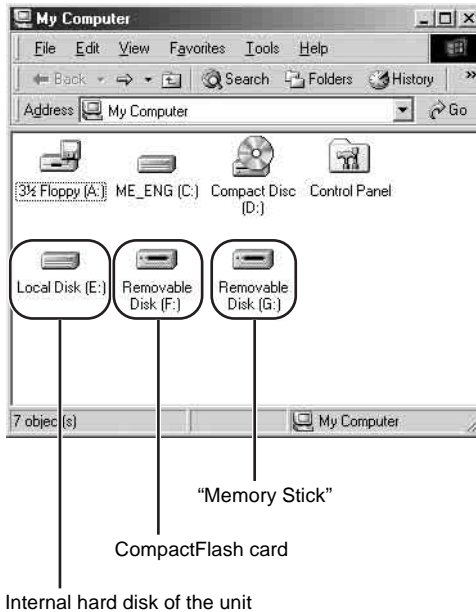
With Windows 2000 or Windows Me

- 1 Double-click [My Computer].



The “My Computer” window opens.

In the “My Computer” window, the “Memory Stick”, CompactFlash card, and internal hard disk of the unit appear as follows.



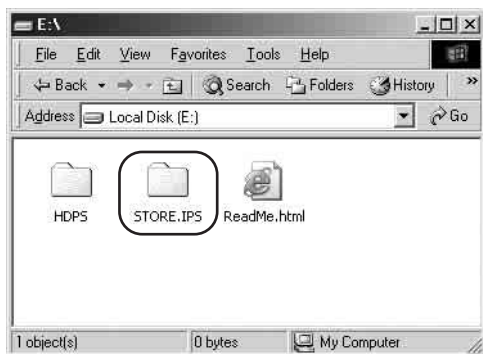
Hints

- The “Memory Stick” and CompactFlash drives of the unit appear as removable disks, while the internal hard disk of the unit appears as a local disk. The drive letters (e.g., “E:”) differ depending on the computer system.
- If no removable disks or the internal hard disk of the unit appear, refer to “When the drives of the HDD Photo Storage do not appear on the computer” (page 28).

2 Double-click [Local Disk (E:)].

The contents of the internal hard disk of the unit are shown.

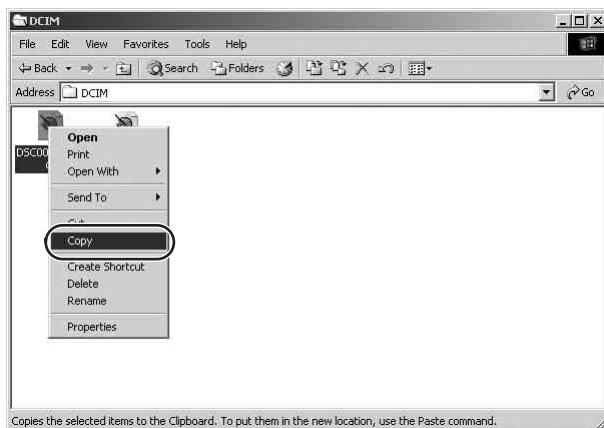
3 Double-click [STORE.IPS].



Files and folders on the internal hard disk of the unit appear. For details about folder names, see “Data storage locations and folder names” (page 36).

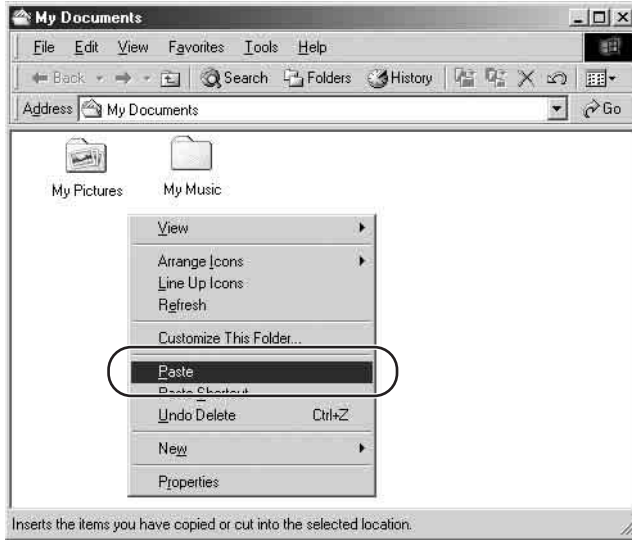
4 Double-click the folder that contains the files you want to copy to the computer.

5 Right-click the file that you want to copy and click [Copy] on the shortcut menu that appears.



6 Double-click [My Documents] on your desktop.

- 7 Right-click anywhere in the “My Documents” window and click [Paste] on the shortcut menu that appears.



The selected file is copied to “My Documents”.

If a file with the same name already exists in the destination folder

A message prompting you to confirm whether you want to overwrite the existing file appears. If you overwrite the existing file, it is irrevocably lost, as it is replaced by the new file. To copy the new file without overwriting the existing file with the same name, save the new file under a different name.

Disconnecting the USB cable from the computer or removing media

- 1 Click  on the Windows taskbar.

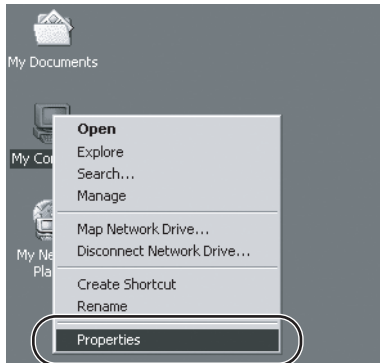


- 2 Click [Stop USB mass storage device - drive (X:)].
- 3 Make sure that the drive letter is correct and click [OK].
- 4 Click [OK].
- 5 Disconnect the USB cable.
Remove the “Memory Stick” or CompactFlash card.

When the drives of the HDD Photo Storage do not appear on the computer

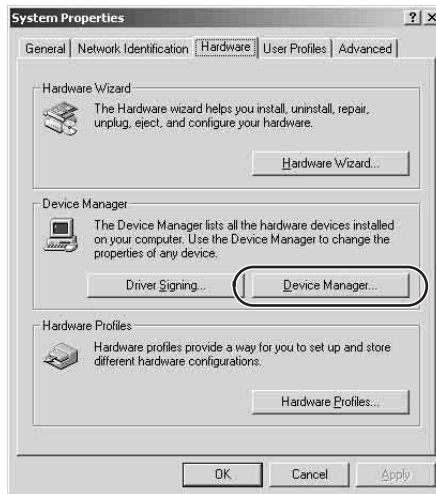
With Windows 2000


- 1 Right-click [My Computer] and click [Properties] on the shortcut menu that appears.

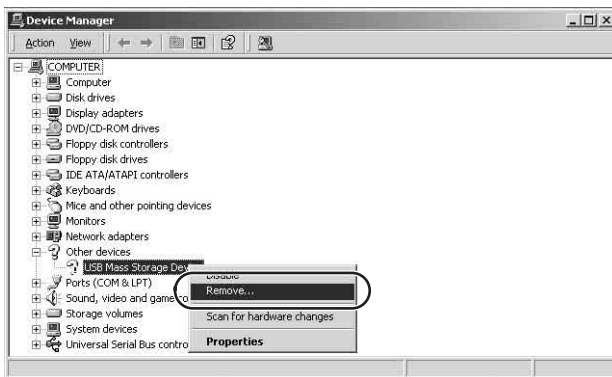


The “System Properties” dialog box appears.

- 2 Verify that no other devices are shown. If other devices are shown, delete them.
 - ① On the [Hardware] tab, click [Device Manager].



- ② Make sure that “USB Mass Storage Device” is displayed as a . If it is, right-click it and click [Remove] on the shortcut menu that appears. Perform the same operation for “Disk drives”.



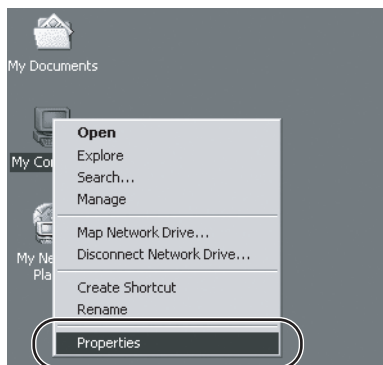
The “Confirm Device Removal” dialog box appears.

- ③ Click [OK].
The device is removed.

After the device is removed, disconnect the USB cable, and then reconnect it.


With Windows Me

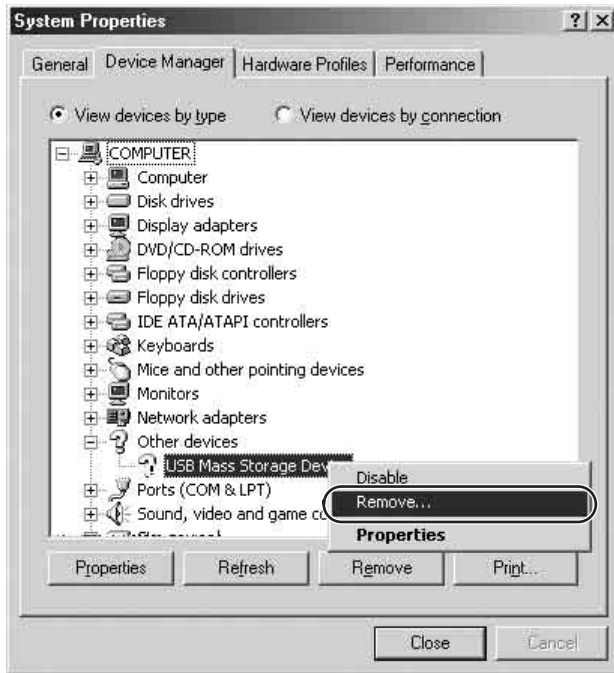
- 1 Right-click [My Computer] and click [Properties] on the shortcut menu that appears.



The “System Properties” dialog box appears.

2 Verify that no other devices are shown. If other devices are shown, delete them.

- ① On the [Device Manager] tab, make sure that “USB Mass Storage Device” is displayed as a . If it is, right-click it and click [Remove] on the shortcut menu that appears. Perform the same operation for “Disk drives”.



The “Confirm Device Removal” dialog box appears.

- ② Click [OK].
The device is removed.

After the device is removed, disconnect the USB cable, and then reconnect it.

With Windows XP

When connecting the unit with the USB cable to a computer running Windows XP, the AutoPlay wizard appears.

- 1 Click [Cancel].

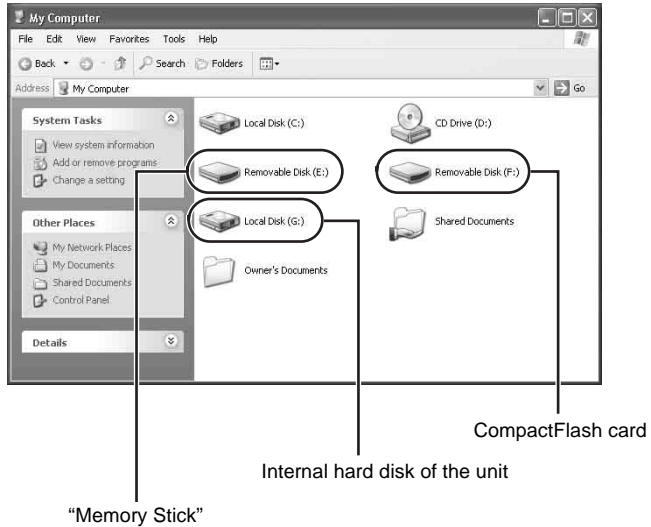


- 2 On the [Start] menu, click [My Computer].



The “My Computer” window appears.

In the “My Computer” window, the “Memory Stick”, CompactFlash card, and internal hard disk of the unit appear as follows.



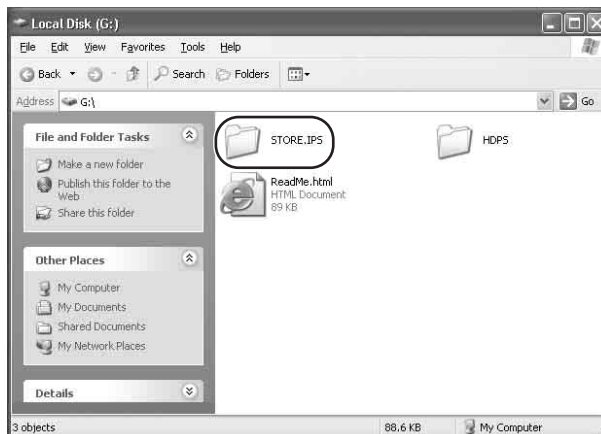
Hint

The “Memory Stick” and CompactFlash drives of the unit appear as removable disks, while the internal hard disk of the unit appears as a local disk. The drive letters (e.g., “G:”) differ depending on the computer system.

3 Double-click [Local Disk (G:)].

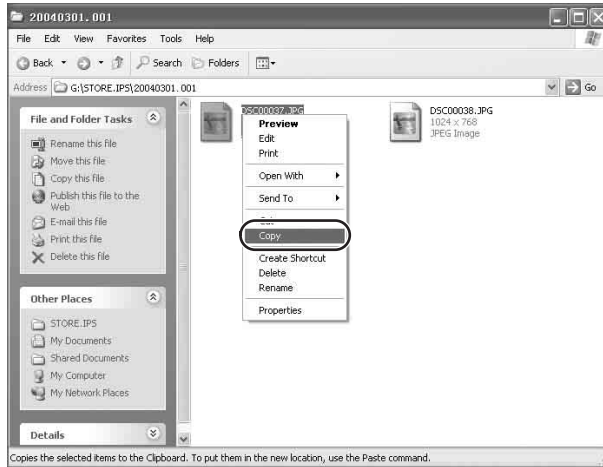
The contents of the internal hard disk of the unit are shown.

4 Double-click [STORE.IPS].

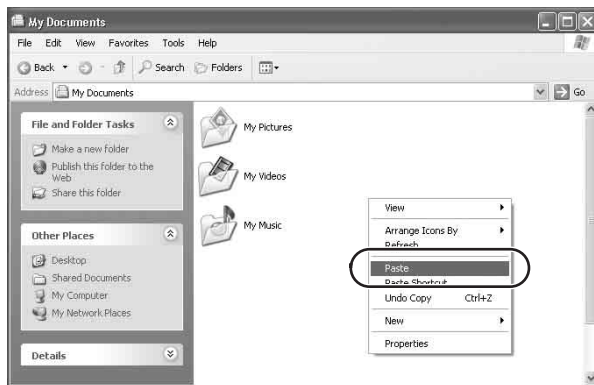


Files and folders on the internal hard disk of the unit appear. For details about folder names, see “Data storage locations and folder names” (page 36).

- 5 Double-click the folder that contains the files you want to copy to the computer.
- 6 Right-click the file that you want to copy and click [Copy], on the shortcut menu that appears.



- 7 On the [Start] menu, click [My Documents].
- 8 Right-click anywhere in the “My Documents” window and click [Paste] on the shortcut menu that appears.




The selected file is copied to “My Documents”.

If a file with the same name already exists in the destination folder

A message prompting you to confirm whether you want to overwrite the existing file appears. If you overwrite the existing file, it is irrevocably lost, as it is replaced by the new file. To copy the new file without overwriting the existing file with the same name, save the new file under a different name.

Disconnecting the USB cable from computer or removing media

- 1 Click  on the Windows taskbar.

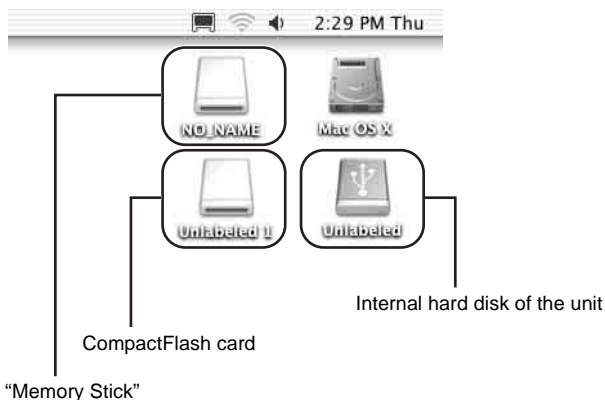


- 2 Click [Safely remove USB mass storage device - drive (X:)].
- 3 Make sure that the drive letter is correct and click [OK].
- 4 Disconnect the USB cable.
Remove the “Memory Stick” or CompactFlash card.

With a Macintosh computer

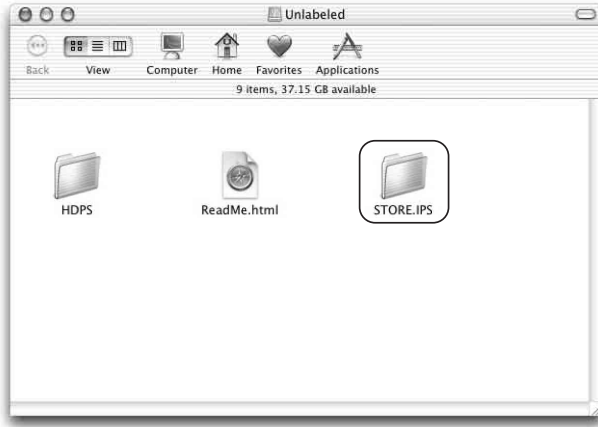
When the unit is connected to a Macintosh computer with the USB cable, icons for the internal hard disk of the unit and the media appear on the desktop. The icons for the media appear when you insert a “Memory Stick” or a CompactFlash card into the unit.

- 1 Double-click one of the newly added icons on the desktop.



The contents of the selected drive appear.

2 Double-click [STORE.IPS].



Files and folders on the internal hard disk of the unit appear. For details about folder names, see “Data storage locations and folder names” (page 36).

- 3 Double-click the folder that contains the files you want to copy to the computer.
- 4 Drag the file to the hard disk icon.
The file is copied to the hard disk.

Removing media

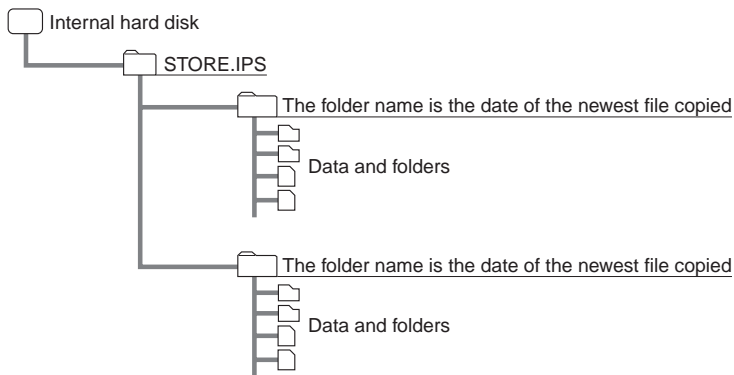
Drag the “Memory Stick” or CompactFlash card icon to the trash.

Disconnecting the USB cable

- 1 Drag all the media icons and the internal hard disk drive icon to the trash.
- 2 Disconnect the USB cable from your computer.

Data storage locations and folder names

Data copied to the internal hard disk of the unit is stored according to the following rules.



Hints

- Each time data is copied, a new folder is created. The name of the folder is always the creation date of the newest file copied from the media. For example, if the newest file copied from the media was created 2004/03/01, the folder name becomes “20040301.001”. If you copy other data with the same name as on the internal hard disk drive, the folder name extension augments incrementally: “.002”, “.003”, etc.
- If a file has no date, it is saved in a folder named “19800000.001”.

Deleting unnecessary files and folders

With Windows

Right-click the file or folder that you want to delete, and then click [Delete] on the shortcut menu that appears. Alternately, you can drag the file to the recycle bin.

With a Macintosh computer

Drag the file or folder that you want to delete to the trash.

Using the unit as an external hard disk drive or reader/writer

The unit can be used as a USB-compatible external hard disk, functioning as a portable medium for data storage. The unit can also be used as a reader/writer of the “Memory Stick” or CompactFlash cards.

Notes

- When you use the unit as an external hard disk, the space available to copy data from a “Memory Stick” or CompactFlash card decreases according to the amount of data written to the disk. If there is not enough space to copy files, delete unnecessary data.
- Do not format the internal hard disk of the unit with Windows or your Macintosh computer. In particular, if formatted with Windows NTFS, you will no longer be able to use the unit. If you partition the internal hard disk of the unit, make sure that the file system of the first partition is FAT32.
- If you retouch images, change their names or change folder names of data on a “Memory Stick” or CompactFlash card with your computer, you may no longer be able to view them on a digital still camera.

Hint

When the unit is connected to a computer, the unit is used to exchange data with the computer, as well as between the “Memory Stick” and CompactFlash card.

Note on formatting a “Memory Stick”

If you want to format a “Memory Stick” with Windows, download the Memory Stick Formatter from the following address:

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

Troubleshooting

This section provides information related to the most common problems encountered by users of this product and their solutions. Check the points listed here before contacting your dealer or an authorized service center. Also refer to the documentation of your computer.

Hint

If the internal battery needs charging or if an error occurs while using the unit, the four indicators and COPY button on the front of the unit show the current condition. For details on lighting patterns, see “Meaning of the indicators” (page 44).

Battery/power supply

Symptom	Cause/remedy
The unit does not start.	→ The internal battery may be depleted. Connect the AC power adapter and charge the battery (page 13).
The unit turns on briefly, but then turns off again.	<ul style="list-style-type: none"> → Even when the internal battery is fully charged, it gradually loses charge if the unit is not used for an extended period of time, which can lead to reduced operating time. If you do not use the unit for a while, charge it before using the unit. → When the unit is shipped, the internal battery is not fully charged. It may therefore be empty by the time you receive it. → When using the unit on internal power at low temperatures, usage time may be radically reduced (page 13). → The performance of the internal battery gradually deteriorates, depending on the number of times it is charged, usage time, and storage period. Therefore, operating time may be reduced even if the battery is fully charged. This may mean that the battery needs to be replaced. Contact your dealer or an authorized service center regarding battery replacement.
The unit turns off unexpectedly.	→ When the unit is used stand-alone, it turns off automatically after remaining idle for five minutes, whether operating on internal power or through the AC power adapter. Restart the unit (page 20).

Copying data to the HDD Photo Storage

Symptom	Cause/remedy
Cannot copy.	<ul style="list-style-type: none"> → Verify that the “Memory Stick” or CompactFlash card is inserted correctly and detected by the unit. When detected correctly, the respective media indicator lights green. → Verify that a “Memory Stick” and CompactFlash card are not inserted in the unit simultaneously. If so, remove one. → Verify that the COPY button is lit green. → Verify whether there is enough free space on the internal hard disk. If necessary, delete unnecessary data (page 36). → Verify that the internal battery has an adequate remaining charge (page 14).

Using the HDD Photo Storage with a computer

Symptom	Cause/remedy
Cannot copy.	<ul style="list-style-type: none"> → Verify that the unit is properly connected to the computer with the USB cable. If so, the drive of the unit is displayed on the computer screen (page 23).
Cannot use the COPY button.	<ul style="list-style-type: none"> → When the unit is connected to a computer, the COPY button is disabled.
Cannot copy computer data to a “Memory Stick” or CompactFlash card.	<ul style="list-style-type: none"> → Verify whether the “Memory Stick” is write-protected. → Verify whether there is enough free space on the “Memory Stick” or CompactFlash card, or if they are formatted.

Precautions

Usage and storage

- Only use the specified AC power adapter.
- Never short-circuit any of the connectors using a metallic object such as a keyholder.
- Do not leave the unit in locations where the temperature may rise above 60°C (140°F), such as in a closed car or in direct sunlight.
- Protect the unit from water and moisture.
- Use the unit on a flat level surface.
- Turn off the unit before carrying it.

Overheating

If the unit has become hotter than normal during operation, turn off the unit, disconnect the AC power adapter, and then contact an authorized service center.

Condensation

If the unit is brought from a cold to a warm location, or if the ambient temperature suddenly rises, moisture may form on the outer surface and in the interior of the unit. Do not use the unit in such a condition, as this can cause damage. If condensation has occurred, leave the unit for about an hour without turning it on.

Hard disk

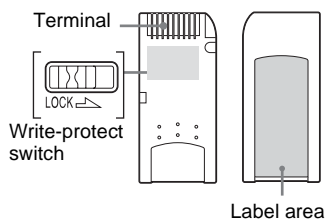
- Never disconnect a cable or turn off the computer or unit while data is being written to or read from the hard disk. Otherwise, data may be corrupted or lost. Sony Corporation does not accept any liability for damage caused by data loss.

- Hard disks can hold a vast amount of data, but damage or malfunction can lead to sudden and irreplaceable data loss. It is highly recommended to regularly back up the contents of the hard disk. Sony Corporation does not accept any liability for damage caused by data loss.

“Memory Stick” media

Notes on using “Memory Stick” media

- When you set the “Memory Stick” write-protect switch to “LOCK”, data cannot be written, edited, or deleted.



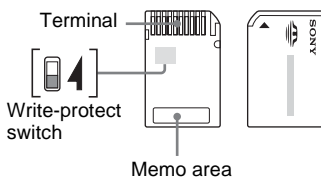
The position and shape of the write-protect switch may differ between the various types of “Memory Stick”.

- Do not remove the “Memory Stick” while it is reading or writing data.
- Data may be damaged if:
 - The “Memory Stick” is removed or the unit is turned off while reading or writing.
 - You use the “Memory Stick” in a location subject to the effects of static electricity or electric noise.
- We recommend that you back up important data recorded on the “Memory Stick”.
- Do not affix anything other than the supplied label to the “Memory Stick” label area.

- Affix the label so that it does not stick out beyond the label area.
- When storing or carrying a “Memory Stick”, keep it in its original case.
- Do not touch the terminal of the “Memory Stick” with anything, including your fingers or metallic objects.
- Do not strike, bend, or drop the “Memory Stick”.
- Do not disassemble or modify the “Memory Stick”.
- Do not allow the “Memory Stick” to get wet.
- Do not use or store the “Memory Stick” in locations subject to:
 - Extreme heat, such as in a closed car parked in the sun.
 - Direct sunlight.
 - Humidity or corrosive substances.
- Make sure that the Memory Select switch is properly positioned to the side. When the switch is not positioned properly, the unit may be damaged or malfunction.
- Before inserting the “Memory Stick” in the slot of the unit, make sure that the memory you want to use is already selected.
- A “Memory Stick” with the Memory Select function allows the user to select the internal memory of the “Memory Stick” with the selector switch. Care must be taken in the following cases as the supported devices only detect the selected memory:
 - Formatting is only processed for the selected memory.
 - The remaining memory is only indicated for the selected memory.
 - The error display is only served for the selected memory. It is detected separately from the unselected memory.

Notes on using “Memory Stick Duo”

- Use a pointed object, such as a ballpoint pen, to move the “Memory Stick Duo” write-protect switch.
- Do not write forcefully on the “Memory Stick Duo” memo area.



Notes on using the Memory Select function

- You cannot use multiple memory blocks simultaneously or continuously.
- Never operate with the Memory Select switch when the “Memory Stick” is inserted in the slot of the unit as it may cause damage. Sony Corporation does not guarantee such failure resulted from the above operation.

Maintenance

Cleaning the cabinet

Wipe the outside of the unit with a soft, dry cloth. To remove stubborn stains, moisten the cloth with a mild, neutral detergent. Do not use solvents, cleaning alcohol, benzene, or other substances that may damage the finish.

Disposing of the unit

Before disposing of the unit, the internal battery must be removed as described below.

If you want the internal battery replaced, contact your dealer or an authorized service center. In this case, you do not need to remove the internal battery beforehand.

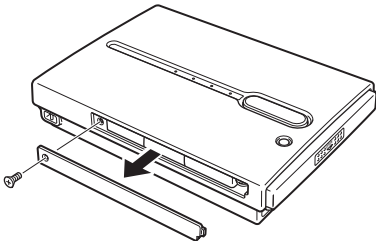
To prevent the risk of damage and/or injury, never use any other battery except the one integrated in the unit.

Do not remove the side panel or the internal battery of the unit unless you are about to permanently dispose of the unit.

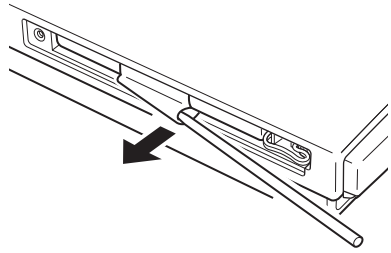
Removing the internal battery

- 1 Disconnect the AC power adapter and USB cable from the unit.
- 2 Use a Phillips screwdriver to remove the screw on the side of the unit.

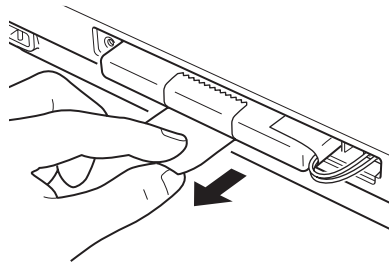
You can see a tape on the side of the battery.



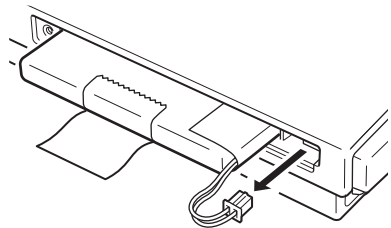
- 3 Extract the tape from the inside of the unit with an elongated object, as illustrated.



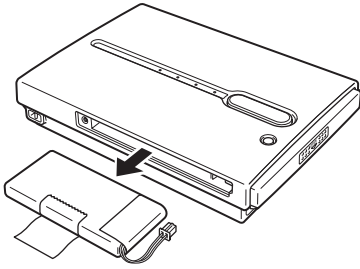
- 4 Grab the extracted tape and partially pull the battery out of the unit.



- 5 Disconnect the battery cable.



6 Remove the internal battery.



Notes

- The interior of the unit may become hot during operation. Before removing the internal battery, make sure that the unit has cooled down.
- Take care that no foreign object enters the unit while the internal battery is removed.
- Do not reinstall the internal battery into the unit once removed.
- When disposing of the internal battery, make sure that you conform to your local regulations.

Specifications

HDPS-M1

Storage capacity

40 GB

(Formatted with FAT32. 1 GB amounts to 1,000,000,000 bytes.)

Media slots

“Memory Stick” slot × 1

CompactFlash slot × 1

Supported media

See page 6.

Interface

USB 2.0 (Hi-Speed/Full-Speed)*

* If the connected computer does not support USB 2.0, transfer speed will be according to Full-speed USB (12 Mbps).

Connector

USB (mini-B) × 1

Power supply

Lithium-ion rechargeable battery

(internal)

100 - 240 V AC, 50/60 Hz

Power consumption

7.5 W maximum

Ambient conditions

Operating temperature: 5°C to 40°C (40°F to 104°F) (temperature gradient less than 10°C/hour (50°F/hour))

Operating humidity: 20% to 80% (non-condensing)

Dimensions

Approx. 135 × 30 × 92 mm

(5 ³/₈ × 1 ³/₁₆ × 3 ⁵/₈ in.)

(W × H × D)

Mass

Approx. 300 g (10.6 oz.)

Supplied accessories

AC power adapter

(SONY, Model HDAC-M1/MCS-AC1) (1)

Carrying case (1)

Hand strap (1)

Indicator label (1)

Operating Instructions (this document)

PhotoDiary software (on the hard disk)

Power cord (1)

Read Me First (1)

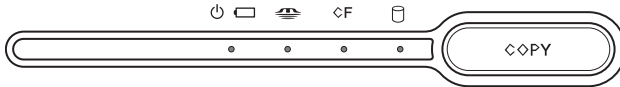
USB cable (1)

Warranty card (1)





Design and specifications are subject to change without notice.

Meaning of the indicators

The four indicators and the COPY button of the unit provide information about the state of the internal battery and errors that occur during operation. Use the tables below to determine the meaning of the lighting patterns and appropriate actions.



Remaining battery/charging indications



The   (power) indicator shows the charge of the internal battery. The   (power) indicator blinks during charging. If you charge the battery during use, the indicator blinks according to the following pattern: red, yellow, and then green.

Indicator	Remaining battery capacity	Description
Lit green	50% or more	There is enough remaining charge in the internal battery to use the unit without connecting it to the AC power adapter, or the AC power adapter is connected to the unit.
Lit yellow	10 to 50%	The remaining charge is lowering, but still sufficient to copy several more media.
Lit red	Less than 10%	Connect the AC power adapter to charge the internal battery. If you continue using the unit, it eventually turns off automatically.
Flashing red	Depleted	The battery is depleted and needs to be charged. The indicator turns off when the battery is fully charged.



Error indications

If an errors occur when using the unit, the indicators light in certain patterns, as outlined below. When this happens, **press the CANCEL/HDD CAPA. button** to cancel the error, and then take the appropriate action.

Errors during initialization

Lighting pattern				Action
	CF		COPY	
Lit green	–	–	Lit yellow	Format the “Memory Stick”.
Lit green	–	–	Lit red	The “Memory Stick” may be damaged. Use a different “Memory Stick”.
–	Lit green	–	Lit yellow	Format the CompactFlash card.
–	Lit green	–	Lit red	The CompactFlash card may be damaged. Use a different card.
Lit green	Lit green	–	Lit yellow	Eject the “Memory Stick” or CompactFlash card.
–	–	Lit green	Lit yellow	Format the internal hard disk drive on FAT32.
–	–	Lit green	Lit red	Contact your dealer or an authorized service center.

Errors during copy

Lighting pattern				Action
	CF		COPY	
Blinking green	–	–	Lit yellow	Press the COPY button again to restart the copy.
Blinking green	–	–	Lit red	Reinsert the “Memory Stick”. If the error persists, use a different “Memory Stick”.
–	Blinking green	–	Lit yellow	Press the COPY button again to restart the copy.
–	Blinking green	–	Lit red	Reinsert the CompactFlash card. If the error persists, use a different CompactFlash card.
–	–	Blinking green	Blinking yellow	The number of folders with the same name has reached its maximum (999). Delete some folders of the same name (page 36).
–	–	Blinking green	Lit yellow	Press the COPY button again to restart the copy.
–	–	Blinking green	Blinking red	There is not enough free space on the internal hard disk. Delete any unnecessary data to free space (page 36).
–	–	Blinking green	Lit red	Contact your dealer or an authorized service center.

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

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