Operating Instructions

Owner's Record

The model and serial numbers of this product are located on the bottom of the reader/writer. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony representative regarding this product.

Model No. MRW620-U1
Serial No. 

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Caution

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice

For your protection, the product you have purchased is equipped with a battery. The battery is a special, rechargeable, lead-acid, sealed type. The battery is designed to last the life of the product. Under normal use, replacement should not be necessary. However, like all batteries, it will eventually wear out. Consult the closest Sony Service Center for battery replacement.

Notice to Users

This unit complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This unit may not cause harmful interference.
- This unit must accept any interference received, including interference that may cause undesired operation.

Internal Multi-Card Reader/Writer

Overview

The MRW620-U1 (hereafter referred to as the “reader/writer”) has the following features:

- Fast and easy data transfer: rapidly transfers images from cards to PC
- Compatibility with “Memory Stick,” “Memory Stick Duo,” “MagicGate USB Header,” and “M2”
- Quick and easy installation

System Requirements

The reader/writer requires the following minimum system configuration:

- OS:
  - Windows® XP / Vista / 7
  - Macintosh® Computer
- USB port
- Memory Card Reader/Writer

Package Contents

When you unpack the box, make sure that it contains all the accessories listed below. If anything is missing or damaged, contact your retailer.

- MRW620-U1 Internal Multi-Card Reader/Writer
- Front Panel (Ivory) (1)
- Operating Instructions (1)
- Manual for Memory Stick Slot (1)
- Memory Card (1)
- USB Cable (Black) (1)
- USB Device Driver CD-ROM (1)

Parts and Functions

Front

- Access Indicator:Lit when the reader/writer accesses data on a memory card.
- SmartMedia / MultiMedia Card Slot: Insert either a SmartMedia memory card or MultiMedia Card here.
- USB Port: Insert a USB device here.
- CompactFlash / Microdrive Slot: Insert either a CompactFlash or Microdrive memory card here.
- MultiMediaCard / SD Memory Card Slot: Insert either a MultiMediaCard or an SD Memory Card here. When installing a MultiMediaCard, use an adaptor (not supplied).
- Memory Stick Slot: Insert a “Memory Stick” media here. When installing a “Memory Stick Duo” without “Memory Stick Duo Adaptor” (sold separately), “Memory Stick PRO Duo,” “Memory Stick PRO-HG Duo,” or “Memory Stick Micro” (sold separately) (not supplied).

Rear

- Mini-USB Port: Connected to the USB header on your motherboard.
- USB Cable (Black): Connected to the USB header on your motherboard. For the details, see “Installing the Reader/Writer.”

Pin Assignments

<table>
<thead>
<tr>
<th>Signal</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA 1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>DATA 2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Replacing the Front Panel

Front panel in alternate colors (Ivory) is included for use with the computer. Follow these steps to remove the front panel:

1. Hold the reader/writer face front and gently remove the panel.

   Apply too much force may break front panel hook.

2. Unplug the USB cable from the USB header on the motherboard.

3. Connect the USB cable to the USB header on the motherboard.

4. Secure the reader/writer with four screws.

5. Connect the USB cable to the USB header on the motherboard.

6. Reinstall the cover on your computer.

7. Plug your computer to the AC power outlet.

8. Start your computer.

   The reader/writer is automatically detected. You do not need to install any device drivers.

Specifications

USB Port: Full speed (12 Mbps) Up to 600 Mbps with hi-speed USB

Power requirements:

- Current consumption: Max. 500 mA
- Operating time: Up to 500 hours
- Input voltage: 5 V DC
- Maximum: 500 mA

Dimensions

- Width: 125.6 mm
- Height: 25.4 mm
- Depth: 60 mm

Storage environment

- Temperature: 5 °C to 40 °C (41 °F to 104 °F)
- Humidity: 90% or less RH

Characteristics

- Temperature: -30 °C to + 60 °C (-22 °F to +140 °F)
- Humidity: 90% or less RH

Accessories

- Front panel in alternate colors (Ivory) (1)
- Operating Instructions (1)
- Manual for Memory Stick Slot (1)
- USB Cable (Black) (1)
- USB Device Driver CD-ROM (1)

Troubleshooting

Error message “HI-SPEED USB Device Plugged into Non-HI-SPEED USB Port” may appear indicating that a plugged USB device has been switched to a non-HI-SPEED mode. If this happens, try plugging in while the computer is in the operating mode, and then plugging in again while the computer is in the operating mode.

Notes

- Do not plug in any multi-Media device in the “Memory Stick” slot. Be sure to use the proper slot for the device.
- Make sure the reader/writer is properly seated. If it is not, the device will not work properly.
- Be careful not to touch the pins on the memory card.
- Power supplies other than the one included with the reader/writer will not work.
- This is a special device for use only with the “Memory Stick” slot.
- Other devices such as floppy disks, CD-ROMs, or hard disk drives will not work.
- The USB header is not designed for a daisy chain configuration. The reader/writer is for use only with the computer and one other device.
- Some computer or motherboard manuals may require you to turn off the power and remove the AC power cord from the computer before removing the reader/writer.

To Install the Reader/Writer

1. Plug your computer from the AC power outlet.

2. Follow your computer and motherboard manual to prepare a drive bay for this reader/writer.

3. Insert the reader/writer into the drive bay of your computer.

4. Secure the reader/writer with four screws.

5. Connect the USB cable to the USB header on the motherboard.

   Make sure it is connected to the correct direction.
**About Memory Stick**

**What is “Memory Stick”?**

“Memory Stick” is a removable medium with a large capacity. It has been designed not only for exchanging/distributing digital data, but also for saving an inseparable external storage medium for a portable device.

**Notes**

- Not all memory cards are guaranteed to work. Operation is not assured if non-supported memory cards are used.
- When using a Media Adaptor, refer to the instruction manual that comes with the Adaptor.
- See the manual for the computer for details about how to use the media or how to change the drive letter (example: “G:” for the directory “Removable Disk”).
- It is possible that the computer may not be able to recognize a memory card attached to a Media Adaptor before inserting the product.
- The symbol “Memory Stick Duo” is the general name of a copyright protection technology developed by Sony Corporation.
- All brand names are the properties of their respective owners.

**Using Notes**

**“Memory Stick” Media**

- Do not remove “Memory Stick” while data is being read or written. This may damage the memory card.
- When you use “Memory Stick” in a device that supports the Media Access Control (MAC) address, turn off the power of the device or disconnect the power cord before inserting or pulling out the medium. If you do not, it may not be recognized correctly, even though the access indicator is lit.
- Do not insert or remove the “Memory Stick” while using a USB device or a device such as a printer or scanner. It may cause damage to the “Memory Stick” or to the device.
- Do not use an unsecured “Memory Stick” or pull out the medium while using it. Avoid using it in a place where it is susceptible to static electricity or electric noise.
- If you use “Memory Stick” in a place where it is susceptible to static electricity or electric noise, you might have to format the medium repeatedly. In this case, you must use a “Memory Stick” that can be used in the environment or the memory card may be damaged.
- If you use “Memory Stick” in a place where it is susceptible to static electricity or electric noise, you might have to format the medium repeatedly. In this case, you must use a “Memory Stick” that can be used in the environment or the memory card may be damaged.
- Do not put “Memory Stick” into your mouth. Swallowing it can cause choking.
- Do not apply force to “Memory Stick”.
- Do not apply force to the Media Adaptor while inserting or pulling out the medium.
- Do not insert a 5-volt SmartMedia card into the reader/writer, since it will not be recognized as a removable disk.
- Do not use “Memory Stick” for recording digital data recovery in the event that the product fails. If the product fails, any data written to the medium will not be recoverable.
- Do not carry “Memory Stick” in the vicinity of a magnet, since recorded data may be lost.
- Do not touch the metal terminals on the “Memory Stick” to avoid static electricity or electric noise.
- You can keep backup copies of important data on a “Memory Stick” media.
- When using a Media Adaptor, refer to the instruction manual that comes with the Adaptor.
- Do not remove “Memory Stick” while it is being accessed (indicated by the access indicator being lit). This may damage the “Memory Stick”.

**Restrictions on DOS mode**

In Windows, the media’s write operation will be disabled if the “Standby” (hibernate state) function of your computer is set to on. In this state, the drive letter will not appear in the “Device Manager.” If it is, do not insert or remove any media.

**Antivirus software**

If you have antivirus software installed on your computer, the computer may not be able to access the “Memory Stick” media. In this case, disable or uninstall the antivirus software to use the media in the “Memory Stick” reader/writer.

**Do not attempt to dismantle, repair, or alter the Mediaplayer yourself**

Do not attempt to dismantle, repair, or alter the Mediaplayer yourself. If you do, it may not function properly when reassembled, and it may not be recognized as a “Memory Stick.” When using “Memory Stick” media, do not use any tool that is not designed to be used with the computer or Mediaplayer.

**Drive letters for the removable disk icons are assigned in alphabetical order to the “My Computer” window.**

**Notes on using “Memory Stick Duo”**

- Do not insert or remove the medium while data is being read or written. This may damage the memory card.
- When you use “Memory Stick” in a device that supports the Media Access Control (MAC) address, turn off the power of the device or disconnect the power cord before inserting or pulling out the medium. If you do not, it may not be recognized correctly, even though the access indicator is lit.

**About the Media Adaptor**

- “Memory Stick” is the general name of a copyright protection technology developed by Sony Corporation.
- All brand names are the properties of their respective owners.

**Using the Reader/Writer**

**Inserting a Memory Card**

1. Insert the corresponding slot on the medium or writer.
2. Windows Explorer or My Computer detects the medium as a removable disk.
3. Right-click the removable disk icon, and select “Properties.”
4. The memory card is not inserted.

**Troubleshooting**

**Technical Support**

Local technical support service is only available in the following sales regions:

- For customers in the USA (Sony Electronics Inc.):
  - Toll free: 1-800-588-3847
  - Use telephone support available by dialing after your first call.
- For Australian customes:
  - Toll free: 1-800-588-3847
  - Use telephone support available by dialing after your first call.
- For technical support only: Sony technical support is not available.

**Warranty Card**

- A warranty card should be provided with this product at the place of purchase.
- Please read the warranty card, fill in the specified information, and return it for future reference.
- The warranty period is one year from the date of purchase.

The warranty and technical support service are valid only in the countries or sales regions specified on the warranty card.