ELECOM

xD-Picture Card™ SD SDHC SDXC miniSD miniSDHC microSD microSDHC
Memory Stick™ Memory Stick PRO™ Memory Stick Duo Memory Stick PRO Duo

USB 2.0 Multi Type Card Reader
MR-C23 series
User's manual

■ Forward

Thank you for purchasing the MR-C23 Series USB 2.0 card reader.
This user's manual explains how to set up the product. Please thoroughly read this user's manual before use, to ensure proper setup of the product.

■ Safety Precautions

- Always observe the cautions issued by PC and peripheral device manufacturers when connecting and disconnecting this product.
- Do not attempt to disassemble, modify or repair this product by yourself.
  Doing so may cause a fire, electric shock, or product damage and may void the warranty.
- Do not use this product or any PC to which this product is connected in areas where water is used or in very humid environments.
  Doing so may cause a fire, electric shock, or product damage.
- When connecting and disconnecting this product, always touch a metal object (such as a steel desk or a metal door handle) to discharge static electricity before touching this product.
  Static electricity may damage this product.
- If you suspect something is wrong with the product, discontinue use immediately.

■ Specifications

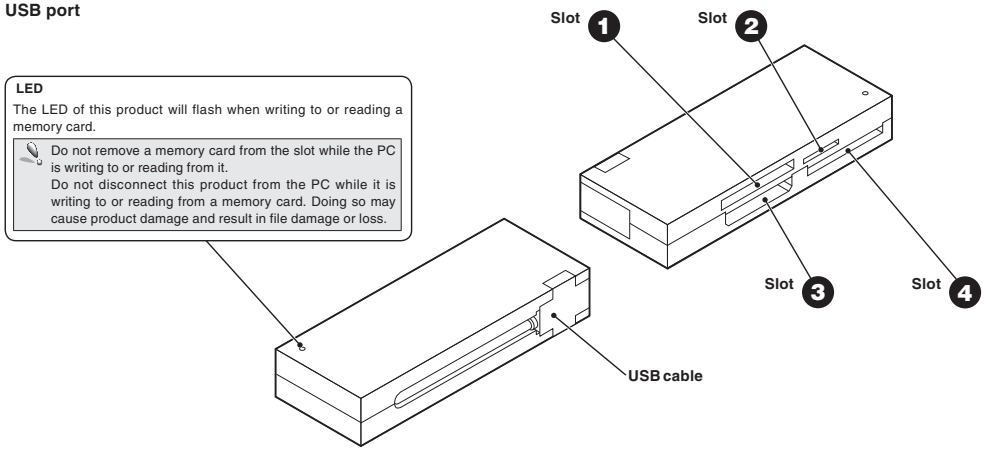
- OS.....Windows® 7, Windows Vista® (up to SP2), Windows® XP(SP1 to SP3), Windows® 2000(SP4)
  Mac OS® X (10.2 to 10.6)
  In the above OSs, the drivers provided with the OSs can be used.
- Interface.....USB
- Operating temperature ..0 to 40°C
- Operating humidity .....0 to 80%
- Dimensions .....Approx. 81.2 (W) x 30.8 (D) x 13.9 (H) mm
  (Not including protruding parts)
- Cable length .....5 cm (Not including connector)
- Included items .....Manual x1

■ Usage Precautions

- If the PC is started when a memory card is inserted in this product, a disk scan may be performed automatically, even if the PC had no previous abnormal termination errors.
- If the PC is started when a memory card is inserted in this product, even if the device has been connected before, the "Found New Hardware" message may be displayed.
- It may take a minute or so for this product to be recognised by the PC after it has been connected. Wait until you can operate the computer.
- Certain types of media, including older media and media that uses special formats, may not be compatible with this product.
- Before using media with digital cameras, mobile phones, or other devices, format it with the device that you use.
  It may not always be possible to use media that has been formatted using a PC. In such cases, media can be used by first formatting it on the device with which it is to be used.
- This product does not support copyright protection.
- Please follow the removal of this product, to the procedure "5 Disconnect the card reader from the PC ". There is a possibility the file disappearing.
- ELECOM Co., Ltd. shall bear no responsibility whatsoever for any data loss or damage resulting from the use of this product.
- Always insert and remove media from this product with the correct orientation and alignment.
- This product does not support standby or sleep modes.
- This product does not support modem cards or similar I/O cards.
- Do not use this product in humid or dusty environments.
- Do not subject this product to strong shocks.
- To clean the product, wipe it with a soft, dry cloth.
  Do not use benzene, paint thinner, alcohol or similar liquids.

Only insert one media card at a time.
Media may not be recognised if multiple cards are inserted at the same time.

■ Part names and information on the memory card slot and USB port



LED
The LED of this product will flash when writing to or reading a memory card.

Do not remove a memory card from the slot while the PC is writing to or reading from it.
Do not disconnect this product from the PC while it is writing to or reading from a memory card. Doing so may cause product damage and result in file damage or loss.

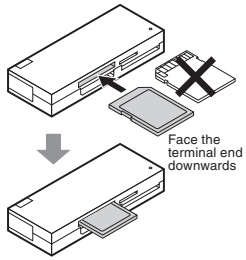
How to insert memory cards into the corresponding card slots

Ensure the memory card is oriented correctly, and insert it straight into the correct memory card slot.

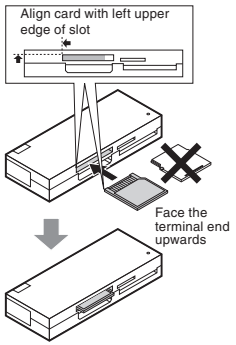
For the latest information on supported media, visit the official ELECOM website.
http://www.elecom.co.jp/global/download/compatibility.html/

Slot 1

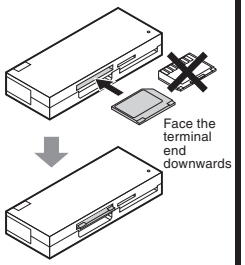
SD Memory Card
SDHC Memory Card
SDXC Memory Card



miniSD Memory Card
miniSDHC Memory Card



Multimedia Card
Reduced Size Multimedia Card RSMMC

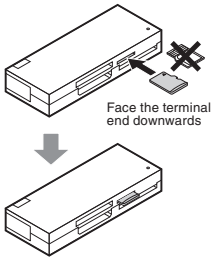


MMCmicro can be written to or read with the use of a conversion adapter.

SDXC Cards
Can be written to or read directly in Windows® 7 and Windows Vista® (SP1 or above)
For Windows Vista, update to SP1 or above, and for Windows XP, update to SP2 or above.
Mac OS X and Windows 2000 do not currently support exFAT.

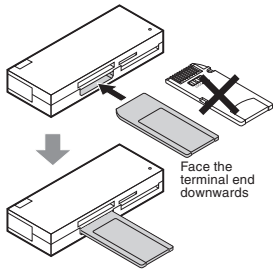
Slot 2

microSD Memory Card
microSDHC Memory Card



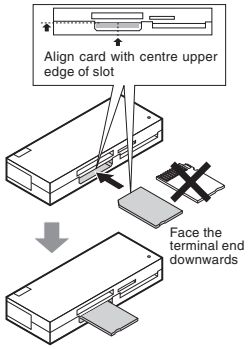
Slot 3

Memory Stick
Memory Stick PRO



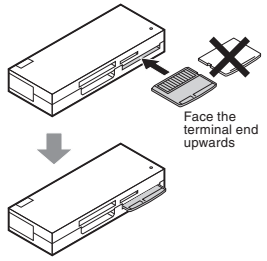
Memory Stick Micro (M2) cards can be written to or read with the use of a conversion adapter.

Memory Stick Duo
Memory Stick PRO Duo



Slot 4

xD Picture Card



See the reverse side of the manual for information on connecting to/removing from the PC.

Reading from and writing to a memory card using a PC

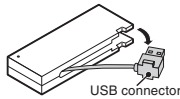
1 Activate the PC

1 The power of PC is turned on.

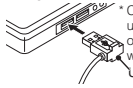
If the PC is started with this product connected, the product may not be recognized.
If this problem occurs, remove and reconnect the product.

2 Connect to the PC

1 Pull out the USB connector from the product.



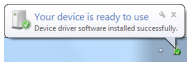
2 Connect the USB connecter to the PC USB port.
The product will be automatically recognised by the PC.



* Confirm the proper up/down orientation of the connector when you connect it.
USB connector

3 The card reader is automatically recognised and the connection procedure is complete.

When using Windows®, an "installation complete" notification will appear in the taskbar.



3 Insert a memory card

1 Insert a memory card in the appropriate slot with the correct orientation and alignment.
Refer to "How to insert memory cards into the corresponding card slots" (on the front side) for details.

Windows®
2 The inserted memory card can be accessed.

Macintosh®
2 A drive icon appears on the desktop and you can access the memory card.

Only insert one media card at a time.
Media may not be recognised if multiple cards are inserted at the same time.

If an Auto Play dialog box appears, select the action that you want Windows to perform.

* If the card is empty, it is opened directly as a removable disk.

4 Remove the memory card

Do not remove a memory card while the PC is writing to or reading from it.

Windows®
1 Open "My Computer" ("Computer" in Windows 7 and Windows Vista).
2 Right-click the removable disk that the memory card was assigned to, and on the context menu that appears, click [Eject].
3 Remove the memory card from the slot.

Macintosh®
1 Drag the drive icon to the Trash (Eject).

The Trash icon( ) becomes an Eject ( ) icon.

2 Check that the drive icon has disappeared and remove the memory card from the slot.

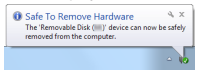
5 Disconnect the card reader from the PC

Do not disconnect the card reader while the PC is writing to or reading from it.

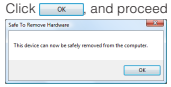
Windows®
1 Click the , , , or icon in the Taskbar or the Notification Area.
* If the icon is displayed in the Notification Area in Windows® 7, click it and then click the USB icon ( ) that appears.
* If removing a memory card using Windows® 7, proceed to step 4.

2 Click the message that appears.

3 The "Safe to Remove Hardware" notification is displayed.



- Windows® 7, Windows® XP
Proceed to Step 4
- Windows Vista® 7, Windows® 2000
Click OK and proceed to Step 4



- If using a USB device or PC card besides this product, both names will be displayed.
In this case, click the message that appears for this product (indicating a USB mass storage device or USB disc).
- If a memory card is inserted into the memory card slot when using Windows® 7, click "Remove Mass Storage Device" .

Macintosh®
Remove all memory cards from the card reader slots.
4 Disconnect the card reader from the USB port.

Always disconnect the card reader from the PC before turning off the PC.

When using this product with Windows® 2000

Windows® 2000 Service Pack 4 or above is required to use this product. Perform the following steps to confirm your version. If using Service Pack 3 or earlier, use Windows Update to update it to the latest version of Windows® 2000. For information on performing the update, refer to your PC manual or consult the manufacturer of your PC.

1. Right-click the My Computer icon on your desktop, and then click "Properties" from the menu.
The system properties window is displayed.
2. Confirm your version of Windows® 2000.

If the Windows® installed on your computer does not support USB 2.0

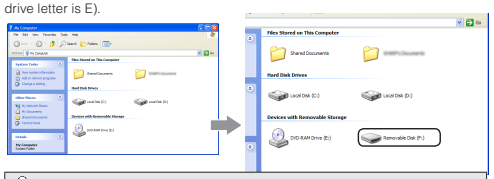
When performing step 2 of "2. Connect to the PC", the following taskbar message or system notification will appear when you connect the USB connector to the PC USB port.

- When using Windows® XP Service Pack 1 or earlier
"HI-SPEED USB Device Plugged into non-HI-SPEED USB Hub"
- When using Windows Vista® or Windows® XP Service Pack 2 or above
"This Device Can Perform Faster"

This message is to inform you that even though this product is a USB 2.0-compatible device, the port that it is connected to does not support USB 2.0. In this case, this product will operate at USB 1.1 speed, not that of USB 2.0.

About Windows® drive letters

In Windows®, a single drive letter will be assigned to the 4 memory card slots (the letter shown in parenthesis is an example that assumes that the last assigned drive letter is E).



More than 1 memory card slot cannot be used at the same time.

In Windows® 7, the drive icon will appear once a memory card is inserted into a slot.

About Macintosh® drive icons

When using a Macintosh®, a different drive icon will appear depending on which memory slot you insert a card into.

Slot	❶ or ❷	❸ or ❹
Drive icon	NO NAME	Untitled

Memory card format

Memory cards that have been formatted on Windows® can also be used on Macintosh® computers.
Memory cards that have been formatted on Macintosh® cannot be used on Windows® computers.

If the PC does not recognise the card reader

If the PC does not recognise the card reader, disconnect it from the PC and try connecting it again.

In Windows® 7, even if this product is recognised, the drive will not be displayed until a memory card has been inserted.

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MR-C23 series
User's manual
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