



IMAGE MEMORY CARD READER SM-R2

for Windows®98 / Macintosh



FUJIFILM PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan

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OWNER'S MANUAL

This manual will show you how to use your IMAGE MEMORY CARD READER SM-R2 correctly.
Please follow the instructions carefully.

MODE D'EMPLOI

Cette brochure a été préparée pour vous expliquer l'utilisation correcte de votre IMAGE MEMORY CARD READER SM-R2.
Veuillez en lire attentivement les instructions d'utilisation.

BEDIENUNGSANLEITUNG

Diese Anleitung enthält alles, was Sie über Ihren IMAGE MEMORY CARD READER SM-R2 wissen sollten.
Lesen Sie die Anleitung bitte sorgfältig durch.

Warning

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

For customers in the U.S.A.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.

For customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

EC Declaration of Conformity

We

Name :

Address :

Fuji Photo Film (Europe) G.m.b.H.
Heesenstrasse 31
40549 Düsseldorf, Germany

declare that the product

Product Name :

Manufacturer's Name :

Manufacturer's Address :

IMAGE MEMORY CARD READER SM-R1

Fuji Photo Film Co., Ltd.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620,
Japan

is in conformity with the following Standards

Safety : EN60950

EMC :

EN55022 : 1994 + A1 + A2 Classe B

EN50082-1 : 1997

EN61000-3-2 : 1995

following the provision of the EMC Directive (89/336/EEC, 92/31/EEC and 93/68/EEC)
and Low Voltage Directive (73/23/EEC).



Düsseldorf, Germany

February 1, 2000

Place

Date

Signature/Managing Director

Avertissement

Pour les utilisateurs au Canada

ATTENTION

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Déclaration de conformité de la cee

Nous

Nom :

Adresse :

Fuji Photo Film (Europe) G.m.b.H.
Heesenstrasse 31
40549 Düsseldorf, Germany

déclarons que ce produit

Nom du produit :

Fujifilm Image Memory Card Reader
(Lecteur de carte de mémoire d'images) SM-R1
Fuji Photo Film Co., Ltd.

Nom du fabricant :

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620,
Japan

est conforme aux normes suivantes

Sécurité :

EN50950

EMC :

EN55022 : 1994 + A1 + A2 Classe B

EN50082-1 : 1997

EN61000-3-2 : 1995

selon les dispositions de la directive de la CEE (89/336/EEC, 92/31/EEC et 93/68/EEC)
et de la directive Basse tension (73/23/EEC).



Düsseldorf, Germany

Février 1, 2000

Lieu

Date

Signature/Directeur général

Warnung

Erklärung über EG-Normengerechtheit

Wir

Name :

Fuji Photo Film (Europe) G.m.b.H.

Anschrift :

Heesenstrasse 31

40549 Dusseldorf, Germany

erklären hiermit, daß das folgende Produkt

Produktbezeichnung :

Fujifilm Image Memory Card Reader

(Lesegerät für Bildspeicherkarten) SM-R2

Name des Herstellers :

Fuji Photo Film Co., Ltd.

Anschrift des Herstellers :

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620,
Japan

den nachstehend aufgeführten Normen genügt :

Sicherheit : EN60950

EMC :

EN55022 : 1994 + A1 + A2 Klasse B

EN50082-1 : 1997

EN61000-3-2 : 1995

und zwar gemäß den Bestimmungen der EMC-Richtlinie (89/336/EEC, 92/31/EEC und 93/68/EEC) und der Niederspannungs-Richtlinie (73/23/EEC).



Dusseldorf, Germany

Februar 1, 2000

Ort

Datum

Unterschrift/Geschäftsführer

FUJIFILM

Image Memory Card Reader SM-R2

IMPORTANT

► To customer — Please read the following before using your SM-R2.

Software and owner's manual precautions

- (1) No part of the software and owner's manual may be reproduced without prior permission.
- (2) The software and owner's manual can be used with one Image Memory Card Reader SM-R2.
- (3) Fuji Photo Film Co., Ltd. shall not be liable for any losses incurred by the customer or other parties by use of the SM-R2 according to the accessory software and owner's manual.
- (4) The SM-R2 has been carefully inspected, however, if the product is found to be defective due to faulty materials or workmanship the product will be replaced. No other warranty is implied.
- (5) The contents of the software and owner's manual are subject to change without prior notice.

In rare cases the SM-R2 may not be compatible, depending on the personal computer used.

■ To open an image

To display an image on your personal computer, commercially available JPEG image reading software is required.

■ Trademark Information

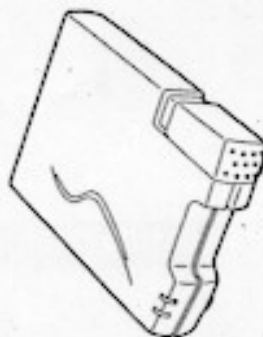
- IBM PC/AT is a registered trademark of International Business Machines Corp. of the USA.
- Macintosh, iMac, MacOS are trademarks of Apple Computer, Inc.
- Microsoft and Windows are registered trademarks of the Microsoft Corporation of the U.S. registered in the USA and other countries. Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- SmartMedia is a trademark of Toshiba Corporation.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Notes on Electrical Interference

Usage of the SM-R2 in an aircraft or hospital may cause erroneous operations of the aircraft and hospital control devices, make sure of the regulations of hospitals or aircraft.

ACCESSORIES

- Image memory card reader (w/ four rubber feet)



- USB cable



- SM-R2 setup disk (in paper case)



- Owner's manual (this manual)



► USB is the abbreviation for Universal Serial Bus.

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BEFORE USING

■ Data storage

The data stored in the SmartMedia card may be destroyed in the following cases. Fuji Photo Film Co., Ltd. shall not be liable for destruction of the stored data.

1. When the customer, or other party, used the SmartMedia card and SM-R2 improperly.
2. When the SmartMedia card or SM-R2 were affected by static electricity or electric noise.
3. When the USB cable or SmartMedia card were removed and when the device power was turned off while the SM-R2 was being accessed (record, erase, initialize, or playback operation).

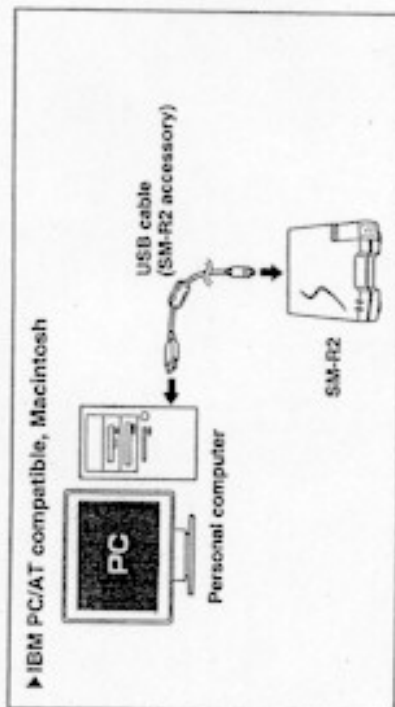
We recommend that you copy your valuable data to another media (MO disk, floppy disk, hard disk, etc.).

HANDLING

The accessory rubber feet are designed to prevent slipping. Install these feet at the four corners of the SM-R2, as required.

■ USB cable connection

Connect the SM-R2 directly to the USB port on the personal computer base unit as shown below.

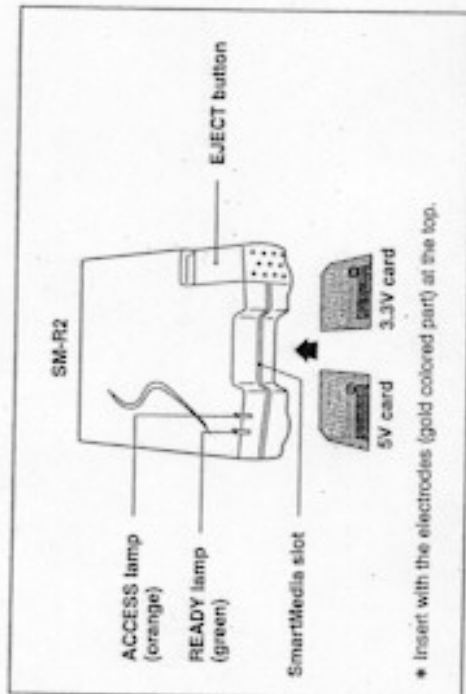


Notes

- Insert the USB connector fully and firmly. Improper connection will cause the SM-R2 to malfunction.
- The SM-R2 can be connected and disconnected even while the personal computer power is on.
- When there are two or more USB connectors, the SM-R2 can be connected to any port.
- If connected through a USB hub, depending on the type of hub, the SM-R2 may malfunction. In this case, connect the SM-R2 directly to the personal computer.

■ Inserting the SmartMedia card

Insert the SmartMedia card into the SmartMedia slot as shown below.



- Note**
- Insert the SmartMedia card fully by slowly pushing against the rear edge of the SmartMedia card with the inside of your fingers. If the SmartMedia card is inserted properly, the "READY lamp" will light.
 - The SM-R2 does not accept 64MB SmartMedia(MG-64S) which was formatted with the MX-700, MX-500 and DX-8.

■ Removing the SmartMedia card

Windows

Always remove the SmartMedia card as described below.

Before removing the SmartMedia card, open "My Computer" and right-click on the "Removable disk" icon and select the "Eject" menu. Confirm that the "READY lamp" is off, and then press the "EJECT button". Pull out the card, as it is, with your hand.



Macintosh

When removing the SmartMedia card, drop & drag the icon on the desktop to "Trash", or pull down "Special" menu in the menu bar at the top of the screen and select "Eject". Confirm that the "READY lamp" is off, then press the "EJECT button" and remove the SmartMedia card.



- Notes**
- If the operation above is not performed before the SmartMedia card is removed, the personal computer may hang up. If this happens, restart the personal computer by resetting and reconnect the USB cable.
 - Do not touch the "EJECT button" while the SmartMedia card is being accessed (while the "ACCESS lamp" is lit).

■ Disconnecting the USB cable

When disconnecting the USB cable, disconnect the SM-R2 end and before disconnecting the personal computer end.

OPERATING ENVIRONMENT

Windows

The SM-R2 can be used with IBM PC/AT compatible personal computers. Windows98 must be installed.

- Applicable models : IBM PC/AT compatible
 (*Models that support USB as standard)
 : Windows98/Windows98 Second Edition
- OS : Pentium or higher
- CPU : 16MB or more
- RAM : 10MB or more
- Vacant hard disk space : 10MB or more

Macintosh

- Applicable model : iMac and models that support USB as standard
- OS : Mac OS 8.1 ~ 9.0
- CPU : PowerPC G3/G4
- RAM : 32MB or more
- Vacant hard disk space : 10MB or more

USING WITH Windows98

The following describes the set up method for using the SM-R2 on Windows98. Use the SM-R2 properly as described below.

■ Set up procedure

- ① Turn on the personal computer and start Windows98.
- ② Insert the set up disk (CD-ROM) into the CD-ROM drive.
- ③ Connect the SM-R2 directly to the USB port on the personal computer base unit.

- Notes**
- Insert the USB connector fully and firmly. Improper connection will cause the SM-R2 to malfunction.
 - If connected through a USB hub, depending on the type of hub, the SM-R2 may malfunction. In this case, connect the SM-R2 directly to the personal computer.
 - If there are two or more USB ports, the SM-R2 can be connected to any port.

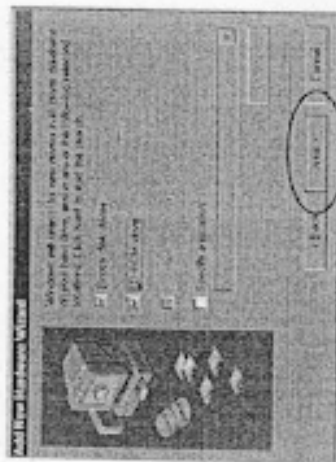
- ④ The "Add New Hardware Wizard" window is displayed. Click on the "Next" button.



- ⑤ Select "Search for the best driver for your device (recommended)" and click on the "Next" button.

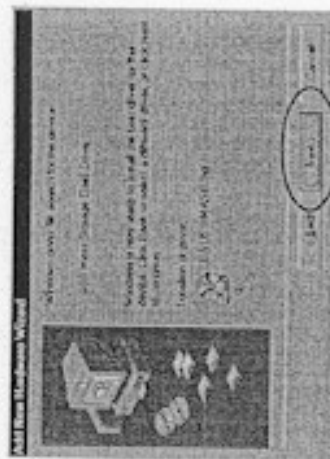


- ⑥ After the following window is displayed, check "CD-ROM drive" and click on the "Next" button.



- * The window displays may differ somewhat from the above, depending on the personal computer used.

- ⑦ When the driver is found, the window shown below is displayed. Click on the "Next" button.



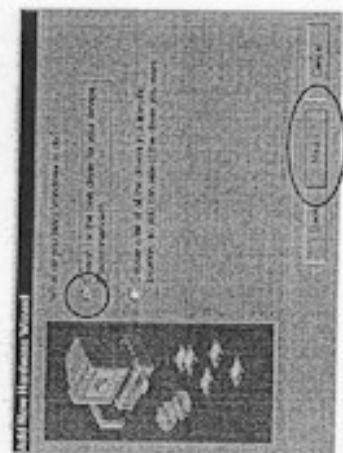
- ⑧ At the end of driver installation, the window shown below is displayed. Click on the "Finish" button.



- ⑩ The "Add New Hardware Wizard" window is displayed again. Click on the "Next" button.

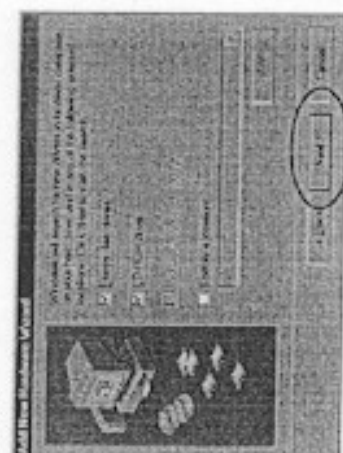


- ⑪ Select "Search for the best driver for your device (recommended)", and click on the "Next" button.



- * The window displays may differ somewhat from the above, depending on the personal computer used.

- ⑫ After the following window is displayed, check "CD-ROM drive" and click on the "Next" button.



- ⑬ When the driver is found, the window shown below is displayed. Click on the "Next" button.



- ⑭ At the end of driver installation, the window shown below is displayed. Click on the "Finish" button.



- * The window displays may differ somewhat from the above, depending on the personal computer used.

- This completes set up. Hereafter, the personal computer automatically recognizes the SM-R2 by connection of the USB cable.

■ How to use ◀Reading and Writing files▶

To display the images on a Windows PC, you will require application software capable of opening your image format.

- ① Insert the SmartMedia card into the SM-R2.
- ② When "My Computer" is opened, a new icon "Removable disk" will be displayed. Double-click on this icon. The folders and files in the SmartMedia card are displayed.
 - Files can be copied by dragging them from the SmartMedia to the hard disk.
 - Files can be written by dragging them from the hard disk to the SmartMedia.
 - Files can also be read and written by specifying the SmartMedia drive name from the application software.

◀Writing data to digital audio equipment that uses SmartMedia-ID cards▶

The SM-R2 supports SmartMedia with ID. You can use the SM-R2 for writing the data through Digital audio distribution software which requires SmartMedia ID. To write the data, use the software supplied with the digital audio equipment. Refer to the instructions for the supplied software for details.

! Notes

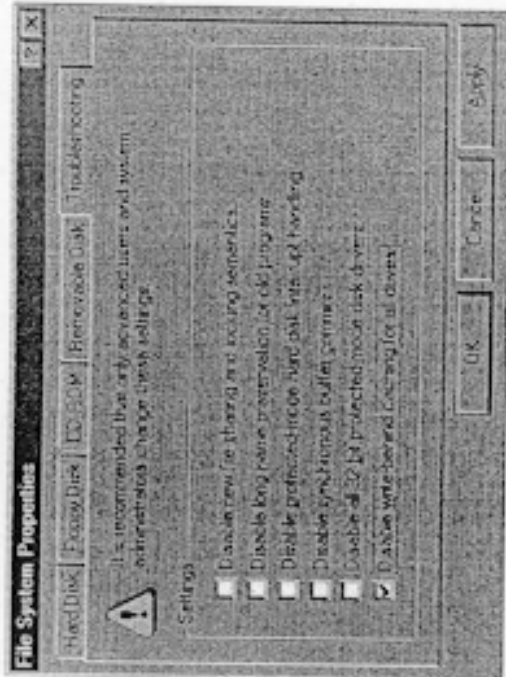
- Do not turn off the personal computer power, or touch the "EJECT" button, while the SmartMedia card is being accessed. The SmartMedia card, or the data in it, may be destroyed.
- When using the SmartMedia card with a digital camera, always initialize (format/initialize) the SmartMedia card with the digital camera.
- Always remove the SmartMedia card as described below. Before removing the SmartMedia card, open "My Computer" and right-click on the "Removable disk" icon and select the "Eject" menu. Confirm that the "READY lamp" is off, and then press the "EJECT" button. Pull out the card, as it is, with your hand.

- **Corrective action when write-behind caching occurs frequently**
When writing files from hard disk to the Smart Media card in the SM-R2, write-behind caching may occur. ("Write-behind caching" is the state in which copying files the SM-R2 "ACCESS lamp" remains lit for several scores of seconds even after the "COPY" window has disappeared as shown below.)



This can be prevented by the following setting procedure :

- ① Right-click on "My Computer" icon on the desktop and select "Properties".
- ② Move to "Performance" in "System Properties", and click on "File System" button. "File System Properties" will be displayed.
- ③ Check "Disable write-behind caching for all drives" in "Troubleshooting" as shown in the window below.
- ④ This setting becomes effective after the system is restarted.



USING WITH A Macintosh

The following describes the set up method for using the SM-R2 with a Macintosh personal computer. Use the SM-R2 properly as described below.

To display images on Macintosh, commercially available JPEG image reading software is required.

■ Before set up

Before set up, check the OS version.

When using Mac OS 8.1 with an iMac, install "iMac Update 1.0" before installing the driver software. When using Mac OS 8.5/8.6/9.0, install the driver software only.

■ "iMac Update 1.0" installation

"iMac Update 1.0" is software improved by Apple Computer, Inc. to allow use of USB devices on the iMac. Since this software is necessary to use the SM-R2, always install the update.

Open by double-clicking on the "iMac update folder" on the CD-ROM.

Double-click on the "Install" icon in the folder.

Proceed with installation in accordance with the messages.

■ Set up procedure

- ① Turn on the personal computer power.
- ② Insert the set up disk (CD-ROM) into the CD-ROM drive.
- ③ Double-click on the "CD-ROM" icon on the desktop.



SmartMedia/Install/CD

- ④ Double-click on "USB SmartMedia RW Install". Installation progresses in accordance with the messages.



- ⑤ Restart the personal computer.
- ⑥ After restarting, connect the SM-R2 directly to the USB port on the personal computer base unit.

■ Notes

- Insert the USB connector fully and firmly. Improper connection will cause the SM-R2 to malfunction.
- If connected through a USB hub, depending on the type of hub, the SM-R2 may malfunction. In this case, connect the SM-R2 directly to the personal computer.
- If there are two or more USB ports, the SM-R2 can be connected to any port.

This completes set up. Hereafter, the personal computer automatically recognizes the SM-R2 by connection of the USB cable.

■ How to use <Reading and Writing files>

- ① Insert the SmartMedia card into the SM-R2.



The UNTITLED icon is displayed.

- ② Double-click on the icon displayed on the desktop.

The folders and files on the SmartMedia card are displayed.

- Files can be written by dragging them from the hard disk to the SmartMedia folders.
- Files can be copied by dragging them from the folders in the SmartMedia to hard disk.
- Files can also be read and written by specifying the SmartMedia drive name from the application software.

<Writing data to digital audio equipment that uses SmartMedia-ID cards>

The SM-R2 supports SmartMedia with ID.

You can use the SM-R2 for writing the data through Digital audio distribution software which requires SmartMedia ID.

To write the data, use the software supplied with the digital audio equipment. Refer to the instructions for the supplied software for details.

■ Notes

- Do not touch the "EJECT" button while the SmartMedia card is being accessed (while the "ACCESS" lamp is on). The SmartMedia card, or the data in it, may be destroyed.
- When using the SmartMedia card with a digital camera, always initialize (format/initialize) the SmartMedia card with the digital camera.
- When removing the SmartMedia card, drop & drag the icon on the desktop to "Trash", or pull down "Special" menu in the menu bar at the top of the screen and select "Eject".
- If the icon disappears, disconnect and reconnect the USB cable.

■ PC Exchange / File Exchange *

To use SmartMedia card, "PC Exchange" or "File Exchange" supplied with the Mac OS is necessary. Check if PC Exchange or File Exchange is installed in control panel in the system folder.

* PC Exchange is supplied with Mac OS 8.1 and File Exchange is supplied with Mac OS 8.5/8.6/9.0.



Mac OS 8.1



Mac OS 8.5/8.6/9.0

- For Mac OS 8.1, check if there is an [X] in the "PC Exchange" check box.
- For Mac OS 8.5/8.6/9.0, check if there is an [X] in the "File Exchange" check box.

For the detail of "PC Exchange" or "File Exchange", refer to "Mac OS HELP" or "Mac OS Information Center".

TROUBLESHOOTING

► Before deciding that there is some kind of trouble, check the SM-R1 again.

Error	Possible Causes	Remedies
Personal computer does not recognize the SM-R2.	USB connector is not properly connected to the personal computer.	Check if the USB connector is connected properly. (Page 5)
	Device driver is not installed correctly.	Install the device driver correctly. (Page 8, 14)
	Device driver is not installed correctly.	Install the device driver correctly. (Page 8, 14)
SmartMedia card is not read. (The icon in the Drive is not displayed.)	SmartMedia card was inserted in the wrong direction.	Insert the SmartMedia card correctly. (Page 6)
	SmartMedia card is not inserted into the SM-R2.	Insert the SmartMedia card into the SM-R2. (Page 6)
SmartMedia card is not written.	The write protect seal was not removed from the SmartMedia card.	Remove the write protect seal.
	When writing was attempted, the data exceeded the vacant space on the SmartMedia card.	Do not exceed the vacant space. Check the amount of vacant space on the SmartMedia card.
	Device driver is not installed correctly.	Install the device driver correctly. (Page 8, 14)

MAIN SPECIFICATIONS

Type	USB image memory card reader
Applicable Computer *1	IBM PC/AT compatible, Apple iMac, and models that support USB as standard.
Applicable OS *2	Windows98/Windows98 Second Edition Mac OS 8.1 ~ 9.0
Applicable SmartMedia card	5V (2MB/4MB) 3.3V (2MB/4MB/8MB/16MB/32MB/64MB *3)
Host interface	Universal Serial Bus (USB)
Current drain	Suspend : 320µA less Operating : Max 130mA or less
Operating conditions	Temperature : 0°C ~ +40°C (+32°F ~ +104°F) Humidity : 20% ~ 80% or less (no condensation)
Dimensions	80 X 24 X 11.5mm (3.1 X 0.9 X 0.5in.) (W X H X D)
Mass (Weight)	Approx. 130g (4.6oz.)

*1 : Factory installed USB ports is required.

*2 : Standard installation model is recommended.

*3 : The SM-R2 does not accept 64MB SmartMedia(MG-64S) which was formatted with the MX-700, MX-500 and DX-B.

* Specifications and functions are subject to change without prior notice.

Fuji Photo Film Co., Ltd. shall not be liable for any mistakes, etc. in the contents of this manual.

DISCLAIMER

- Fuji Photo Film Co., Ltd. shall not be liable for losses due to fire, earthquake, action by a third party, other trouble, customer intent or neglect, improper use, or use under other abnormal conditions.
- Fuji Photo Film Co., Ltd. shall not be liable for supplementary losses (loss of business profit, interruption of business, change or loss of memorized contents, etc.) due to use or malfunction of this product.
- Fuji Photo Film Co., Ltd. shall not be liable for losses due to use of this product for purposes other than those described in the owner's manual.
- Fuji Photo Film Co., Ltd. shall not be liable for losses due to erroneous operation, etc. caused by combination of this product with connection devices.

SAFETY NOTES (To be observed at all times)

- Before using your SM-R2, thoroughly read this "Owner's Manual", especially the "Safety Notes".
- After reading this manual, store it where it can be easily accessed.

Icons

Various icons are displayed in this manual and by the software to ensure correct use and to protect you and other users against bodily harm and financial loss. These icons and their meaning are shown below. Read this manual based on a good understanding of their contents.

 WARNING	 CAUTION
Indicates that the subject of this warning may cause death or serious injury if it is ignored and the product is used incorrectly.	Indicates that the subject of this warning may cause personal injury or material damage if it is ignored and the product is used incorrectly.

Typical Icons

	Triangular icons indicate operations that prompt a warning or caution. The specific operation that must not be performed (the icon at the left is an electric hazard warning) is shown in the icon.
	Circular icons with a diagonal bar indicate operations that must not be performed. The operation that is specifically prohibited (the icon at the left indicates that disassembly is prohibited) is shown near, or in, the icon.
	Filled circles indicate operations that always must be performed. The specific operation (the icon at the left indicates that the power plug must be unplugged from the AC outlet) is shown in the symbol. Always perform the specified operation.

 WARNING
- Be sure that the USB cable is not touching the SM-R2 or that the SM-R2 is not connected to a personal computer or similar device during a thunderstorm. There is the danger of electrocution by lightning. - Do not play back the accessory CD-ROM on other than a CD-ROM compatible player. Excessive volume may damage your eardrums or the speaker.

CAUTION

	Do not let metal objects or liquids enter the SM-R2. The entry of metal objects or water or other liquids into the SM-R1 will cause electric shock or a fire.
	Never disassemble the SM-R2. Do not disassemble the SM-R2. Storing, or using, the SM-R2 in the disassembled state will cause trouble or electric shock.
	Do not touch the SM-R2 when you hands are wet. Touching the SM-R2 and personal computer with wet hands while the SM-R2 USB cable is connected to the personal computer will cause electric shock. Do not touch with wet hands
	Do not connect or disconnect the USB cable when your hands are wet. Connecting or disconnecting the USB cable with wet hands while the personal computer power cable is connected to an AC outlet will cause electric shock. Do not touch with wet hands
	Do not install the SM-R2 where it is wet, humid, hot, or dusty, or where oil, smoke, etc. are prevalent (near a kitchen table, humidifier, etc.). Installation in such places will cause electric shock or other trouble.
	Do not allow dirt or foreign matter to enter through the SmartMedia slot. Dust or foreign matter will cause a fire or other trouble.

NOTES ON USING YOUR SM-R2 CORRECTLY

- Do not turn off the personal computer power, or touch the "EJECT button", while the "ACCESS lamp" is on.
The SmartMedia card and internal data will be destroyed.
- Do not drop or otherwise apply strong shock or vibration to the SM-R2.
Strong shock or vibration will damage the SM-R2 or cause trouble.
- Do not store, or use, the SM-R2 with heavy objects atop it.
Heavy objects will damage the SM-R2, or cause trouble.
- Do not touch the pins of the USB connector.
Touching the pins may damage the SM-R2 and the personal computer.
- When disconnecting the USB interface cable, pull out the connector while pressing the end with your finger.
Forcefully pulling out the cable itself will damage the SM-R2 and the cable.
- Do not use cable other than the cable supplied.
The use of other cable will cause erroneous operation.
- When inserting the SmartMedia card, pay careful attention to the direction of the card.
Inserting the SmartMedia card in reverse may cause trouble.