

# **Installation Guide**

Included Installation Instructions

Network Camera | For professional use only

Model No. WV-U2142LA Indoor use WV-U2132LA Indoor use



About the user manuals

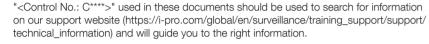
roduct documentation is composed of the following documents.

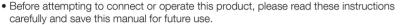
• Installation Guide (this document): Provides information about "Precautions", "Precautions for installation" and the installation method.

• Basic Information (in the following manual website): Provides information about "Precautions for use" and "Detail specifications"

Operating Instructions (in the following manual website): Explains how to perform the settings and how to operate this camera.

https://i-pro.com/global/en/surveillance/documentation\_database





• microSDXC/ microSDHC/ microSD memory card is described as microSD memory card.

• The external appearance and other parts shown in this manual may differ from the actual product within the scope that will not interfere with normal use due to improvement of the product.

#### For U.S. and Canada:

i-PRO Americas Inc. https://www.i-pro.com/

i-PRO Co., Ltd. Fukuoka, Japan https://www.i-pro.com/ i-PRO EMEA B.V. UK Branch

For Europe and other countries:

Cambridgeshire CB23 6DP Authorised Representative in EU: i-PRO EMEA B.V. Laarderhoogtweg 25, 1101 EB Amsterdam, Netherlands

1010 Cambourne Business Park,

\* PGQX2465YA\*

expressly approved by the party responsible for com-

pliance could void the user's authority to operate the

Supplier's Declaration of conformity

WV-U2132LA

Support Contact: 1-800-513-5417

8550 Fallbrook Drive, Suite 200 Houston,

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

Ns0821-1042

Printed in China

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**Disposal of Old Equipment and Batteries** 

Only for European Union and countries with recycling systems These symbols on the products, packaging, and/or accompanying documents mean that used

electrical and electronic products and batteries must not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment

For more information about collection and recycling, please contact your local authority. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Note for the battery symbol (bottom symbol)

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

equipment.

Trade name : i-PRO

Responsible Party:

i-PRO Americas Inc.

undesired operation.

Texas 77064

- For U.S.A.

Model No.: WV-U2142LA

#### For U.S.A.

NOTE: This equipment has been tested and found to FCC CAUTION: Changes or modifications not comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications Operation of this equipment in a residential area is

likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

— For U.S.A.

The model number and serial number of this product may be found on the surface of the unit. You should note the model number and serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft. Model No.

Serial No.

For Canada CAN ICES-3(A)/NMB-3(A)

La capacité de Méthode Vis de fixation traction minimale d'installation recommandée Quand la caméra M4 x 16 mm vidéo est directement 196 N {44 lbf} {5/8 pouces} installée au plafond / 2 él. ou sur le mur.

\* La longueur de la vis est un exemple lors de l'installation de la caméra au plafond ou sur un mur robuste d'une épaisseur de 20 mm {25/32 pouces} ou plus.

#### Caution:

- The network camera is only intended for a connection to an ethernet or PoE network without routing to
- the outside plant.
- This product has no power switch. Be sure to install disconnect devices such as a circuit breaker to shut down the main power of power supplying equipment
- to this product
- please read these instructions carefully.
- Before attempting to connect or operate this product,

Notice:

- This product is not suitable for use in locations where children are likely to be present.
- Do not install this product in locations where ordinary
- persons can easily reach. • This product is a professional equipment.
- For information about screws and other parts required for installation, refer to the corresponding section of this document.

: Direct current symbol

#### **Precautions**

Fire or electrical shock may be caused if water or any foreign objects, such as metal objects, enter inside the unit.

#### ■ Do not use this product in an inflammable atmosphere.

Otherwise, the mounting portions will deteriorate and injury or accidents due to a fall of the product may occur.

Failure to observe this may cause injury or fire. ■ Keep microSD memory cards away from infants and children.

Do not hang down from this product or use this product as a pedestal.

■ Do not attempt to disassemble or modify this product.

■ Do not install or clean the camera, or touch this product, the power cable or the connected cables

Failure to observe this may cause electric shock.

Installation work requires technique and experience. Failure to observe this may cause fire, electric shock, injury, or damage to the product. Be sure to consult the dealer.

#### ■ Stop the operation immediately when something is wrong with this product.

has deteriorated, continued use will cause a fire or fall of the product resulting in injury, or damage to the product. In this case, turn the power off immediately and contact qualified service personnel for service.

Selecting an inappropriate installation surface may cause this product to fall down or topple over, resulting in injury or

#### Periodic inspections shall be conducted.

■ The screws and bolts must be tightened to the specified torque.

Failure to observe this may cause a drop resulting in injury or accidents.

Failure to observe this may cause electric shock. In addition, short circuit or wrong wiring may cause fire.

Failure to observe this may cause injury.

#### ■ Do not install this product in locations subject to vibration.

Loosening of mounting screws or bolts may cause a fall of the product resulting in injury or accidents.

#### Correctly perform all wiring.

Short circuits in the wiring or incorrect wiring may cause fire or electrical shock.

Failure to observe this may cause injury or accidents.

Do not rub the edges of metal parts with your hand.

Failure to observe this may cause injury

■ Do not touch the metal part of the bottom side of the product. The metal part of the bottom side may become hot while the product is in use. Direct skin contact with high-temper-

ature parts of the product may cause burns

#### Do not insert any foreign objects.

Turn the power off immediately and contact qualified service personnel for service.

Failure to observe this may cause an explosion resulting in injury.

Avoid installing this product in the locations where salt damage occurs or corrosive gas is produced.

■ Do not strike or give a strong shock to this product.

Otherwise, they may swallow the cards by mistake.

In this case, consult a doctor immediately.

Failure to observe this may cause injury or accidents.

Failure to observe this may cause fire or electric shock. Consult the dealer for the repair or inspections.

during thunder storms.

Refer installation work to the dealer.

When smoke goes up from the product, the smell of smoke comes from the product, or the exterior of the product

■ Select an installation area that can support the total weight.

#### accidents. Installation work shall be started after sufficient reinforcement.

Rust on the metal parts or screws may cause a fall of the product resulting in injury or accidents.

Consult the dealer for the inspections.

■ Turn the power off when do wiring of this product.

Install this product in a location high enough to avoid people and objects from bumping the product.

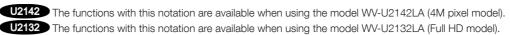
■ Install the product securely on a wall or a ceiling in accordance with the installation instructions.

■ Turn the power off when cleaning this product. Failure to observe this may cause injury

#### About notations

The following notations are used when describing the functions limited for specified models.

The functions without the notations are supported by all models.



### **Open Source Software**

- This product contains open source software licensed under GPL (GNU General Public License), LGPL (GNU Lesser General Public License), etc.
- · Customers can duplicate, distribute and modify the source code of the software under license of GPL and/or LGPL
- For details concerning licensing and source code of open source software, click "Click here for OSS information" on "Support" page of the setup menu of this product and read the displayed content.
- Please note that we shall not respond to any inquiries regarding the contents of the source code.

#### Copyright

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- Firefox is a trademark of the Mozilla Foundation in the US and other countries.
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#### Precautions for installation

i-PRO Co., Ltd. assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with this documentation.

In order to prevent injury, the product must be securely mounted to a wall or ceiling according to Installation Guide.

#### ■ Installation area for this product

springs, volcanic regions, etc

- Select an appropriate place for the installation area (such as a strong wall or ceiling) in your particular environment.
- Make sure that the installation area is strong enough to hold this product, such as a concrete ceiling • Install the camera in the foundation area of the architecture or where sufficient strength is assured.
- Do not mount the product on a plaster board or a wooden section because they are too weak. If the product is unavoidably mounted on such a section, the section shall be sufficiently reinforced.

# ■ This camera is designed to be used indoors

This product is not operable outdoors. Do not expose this camera to direct sunlight for hours and do not install the product near a heater or an air conditioner. Otherwise, it may cause deformation, discoloration and malfunction. Keep this camera away from water and moisture.

#### ■ Do not place this product in the following places

- Locations where a chemical agent is used such as a swimming pool
- Locations subject to moisture or oil smoke such as a kitchen
- Locations where a radiation, an X-ray, a strong radio wave or a strong magnetic field is generated · Locations near coasts directly subjected to sea breezes, or locations subject to corrosive gases such as from hot
- Locations where the temperature is not within the specified range

• Locations that have a specific environment that is subject to an inflammable atmosphere or solvents

- Locations subject to vibrations, such as on vehicles, marine vessels, or above product lines (This product is not designed for on-vehicle use.) • Locations where it may get directly wet from rain or water splash (including under the eaves, etc.)
- Locations subject to moisture or dust • Locations subject to sudden changes in temperature such as near air discharge vents of air conditioners or air cir-
- Locations near rubber products (packing, rubber feet, etc.)

#### Screw tightening Do not use an impact driver. Use of an impact driver may damage the screws or cause tightening excessively.

■ About reflection of light from outside or IR light

A ghost may appear on the screen depending on the incident angle of external light. In the case of using the IR light, installation of a camera near a wall may cause reflection of infrared rays resulting in

#### • Refer to our support website <Control No.: C0109> for image examples and measures to take. Take notice of humidity

Install this product when the humidity is low. If installation is performed when it is raining or in very humid conditions, the inside may be affected by humidity, causing mist-over inside the dome cover. ■ Protection from lightning

When the cables brought from outdoors are used, there is a chance that they may be affected by lightning. In such a

#### case, install a lightning arrestor close to the camera, and make the length of the network cable between the camera and lightning arrestor as short as possible to prevent the camera from being affected by lightning.

■ This product has no power switch.

Troubleshooting

a part of the screen or the entire screen turning whitish.

■ When noise disturbance may happen Noise may appear in video or audio near a strong electric field from a TV or radio antenna, motors and transformers, or a strong electric field/magnetic field from a power line (lamp line) of AC100 V or more. Conduct the power distribution work to keep 1 m {3.28 feet} away from them or conduct the electric conduit work using metal pipes. (Be sure to make ground connection of the metal pipes.)

#### ■ Make sure to remove this product if it will no longer be used.

When turning off the power, disconnect the power supply from the PoE device About the battery

A battery is installed inside the camera. Do not leave the battery exposed in environments of excessive heat as a result of sunlight or fire.

# ■ Equipment classification and power source indication label

Before requesting service, refer to "Troubleshooting" of Basic Information and Operating Instructions. Then, confirm

Refer to the indication label on the bottom side of this unit for the equipment classification, power source, and other

#### **Specifications**\* \*For further information, refer to the Basic Information. Power source \* PoE (IEEE802.3af compliant) Power consumption PoE DC 48 V : 135 mA/ Approx. 6.5 W (Class 0 device) U2142 PoE DC 48 V : 120 mA/ Approx. 5.8 W (Class 2 device) **U2132** Operating environment Ambient operating temperature: | -10 °C to +50 °C {14 °F to 122 °F} (Power On range: 0 °C to 50 °C {32 °F to 122 °F}) Ambient operating humidity: 10 % to 90 % (no condensation) Storage environment Storage temperature: | -30 °C to +60 °C {-22 °F to +140 °F} Storage humidity: 10 % to 95 % (no condensation) Dimensions: ø129.5 mm × 101 mm (H) {ø5-3/32 inches × 3-31/32 inches (H)} Dome radius 40 mm {1-9/16 inches} Approx. 350 g {0.77 lbs} Finish: Main body : ABS resin, i-PRO white Dome cover: Acrylic resin, Clear

1 Refer to our support website < Control No.: C0106> for further information about Power source and Power consumption information

#### Optional accessories\*1

Ceiling mount bracket: WV-Q105A WV-Q174B Ceiling mount bracket: WV-CF5SA Dome Cover (Smoke type) \*2: Ceiling mount bracket: WV-QEM100-W

\*1 Refer to our support website < Control No.: C0501> for further information about optional accessories. \*2 Refer to the installation method described in "How to replace the dome cover" (leaflet) included in the

package of this product.

#### Standard accessories

IMPORTANT SAFETY INSTRUCTIONS...... 1 pc.

.. 1 pc. Code label\* Installation Guide (this document)...

.. 1 pc. PAN table fixing screw.

.. 1 pc.

\*1 This label may be required for network management. Use caution not to lose this label. The following parts are used during installation procedures.

.. 1 pc.

#### \*2 When replacing the dome cover, use the dome cover sheet provided with the camera.

#### Other items that are needed (not included)

Dome cover sheet\*2

Template..

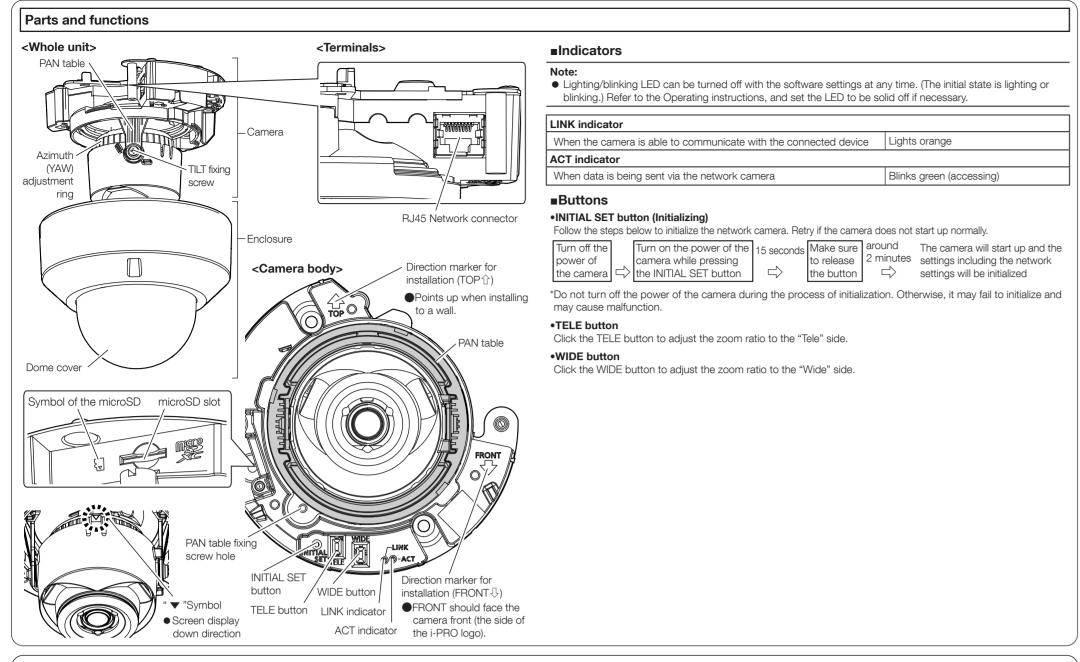
• Fixing screw		
Installation method	Recommended screw <sup>*1</sup>	Minimum pull- out strength <sup>*2</sup>
Directly mount the camera onto the ceiling or wall.	M4 x 16 mm <sup>-3</sup> {5/8 inches}/ 2pcs.	196 N {44 lbf}
Mount the camera using the exclusively designed mount bracket (See "Optional accessories").	Refer to each instruction guide of the bracket.	

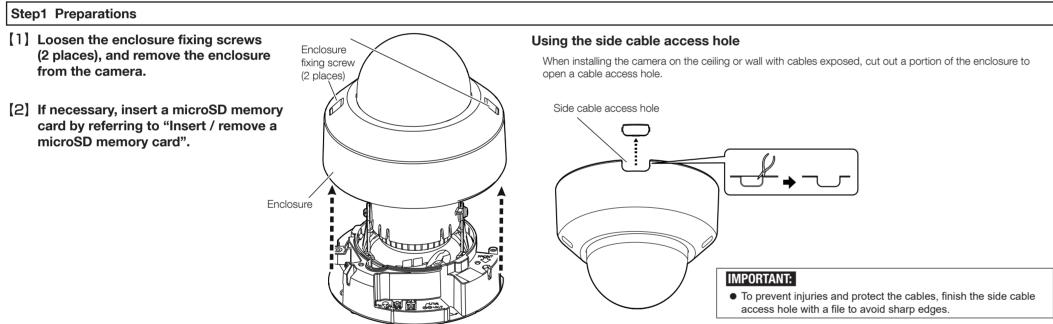
\*1 Select screws according to the material of the location that the camera will be mounted to. In this case,

wood screws and nails should not be used. \*2 This value indicates the minimum pull-out strength required value per screw. For information about the minimum pull-out strength, refer to our support website < Control No.: C0120>

\*3 The screw length is an example when installing the camera on a robust ceiling or wall with a thickness

of 20 mm {25/32 inches} or more. •RJ45plug, Ethernet cable (category 5e or better, straight, 4 pairs (8 pins))





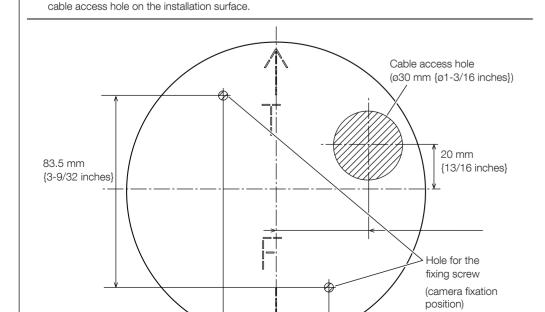
#### Step2 Processing the installation surface

#### Drill a hole in the installation surface. (2 screw holes / 1 cable access hole).

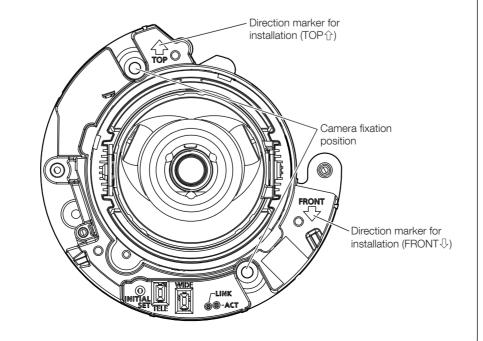
#### Note:

- When installing on a wall, make a hole so as to face the "介T (TOP)" mark of the template to the upper side.
   When installing on a ceiling, make a hole so as to face the "ḍF (FRONT)" mark of the template to the
- front side of the camera (in the direction of i-PRO logo).

   When running the cable using the side cable access hole of the camera, it is unnecessary to make a



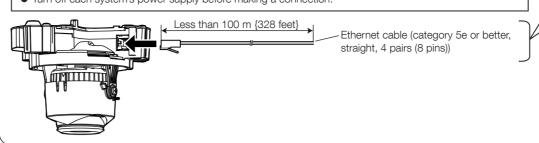
{1-13/16 inches}



#### Step3 Making connections

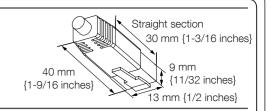
#### IMPORTANT:

Devices to which power can be supplied to this product are PoE hub and PoE power supplying equipment.
 Turn off each system's power supply before making a connection.



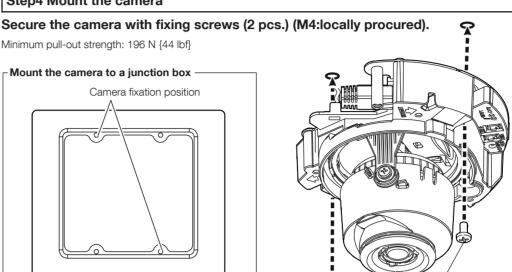
#### Note:

 Since the connector storage section does not have a sufficient space, use an Ethernet cable that do not exceed the sizes described in the illustrations.



::::•PRO

#### Step4 Mount the camera



#### Step5 Adjustment

#### [1] Turn on the camera.

[2] Download and launch the IP Setting Software and connect to the network by following information described on our support website <Control No.: 0123>.

## [3] Adjust the camera direction.

①Loosen TILT fixing screw.
②Adjust the horizontal (PAN) angle, vertical (TILT) angle, and azimuth (YAW) angle while watching the screen of the PC

on the network.

Horizontal (PAN)angle: ±180°

Vertical (TILT) angle : -30° to +85° Azimuth(YAW) angle : ±100°

#### Note:

- When the camera is installed on a wall, the gradient viewed from the camera is backwards. Images displayed from the camera can be reversed by setting "Image rotation" to "180° (Upside-down)" in the setup menu. For information about configuring "Image rotation" in the setup menu, refer to the Operating Instructions.
- When using the camera at a vertical position angle of 75°or more (a position where the camera lens is nearly horizontal), part of the image may appear to be overlapped due to influence from the dome cover. To prevent overlapping, decrease the vertical position angle or adjust the zoom ratio.
- When adjusting the camera, do not touch IR LED sheets with your fingers.

3 After adjusting the direction, fix the camera by tightening the TILT fixing screw.

Recommended tightening torque:0.59 N·m {0.44 lbf·ft}

# [4] Adjust the zoom ratio of the camera.

Insert / remove a microSD memory card

Insert a microSD memory card

①Remove the enclosure from the camera.

and confirm that a clicking sound is made.

the symbol of the microSD).

3 Attach the enclosure to the camera again.

Adjust the zoom ratio using the TELE button and the WIDE button while watching the screen.

#### Note:

- After approx. 3 seconds from releasing the TELE button or the WIDE button, the auto focus function will
- automatically be executed. Do not touch the camera during execution of the auto focus function.

   Attaching the enclosure may cause slight defocusing. In this case, execute the auto focus function from the setup
- menu after attaching the enclosure and removing the protection film.

②Insert the microSD memory card into the end of the microSD slot

Back end of the microSD memory card does not protrude

over the surface of the microSD slot (the same surface as

 When the resolution is set to higher than 640×360, image quality may deteriorate depending on the zoom ratio. Refer to our support website <Control No.: C0124> for further information.

# [5] Attach the enclosure and secure it by tightening the enclosure fixing screws. Direction marker for installation (FRONT J.)

Attach the enclosure by aligning the i-PRO logo to the direction marker for installation (FRONT介) on the camera. Recommended tightening torque: 0.59 N·m {0.44 lbf·ft})

Recommended tightening torque:

0.59 N·m {0.44 lbf·ft}

# Note: When installing the enclosure, align the enclosure fixing screw position in advance and install the enclosure straight onto the installation surface so that the direction of the camera does not change. If the direction of the camera is changed, insert the PAN table fixing screw (accessory) into the PAN table fixing screw hole (Refer to "Parts and functions".) and then fix the direction of the camera by tightening the PAN table fixing screw.

[6] After complete installation, remove the protection film from the dome cover.

Enclosure fixing

screw (2 places)

# WIDE button TELE button

IR LED

microSD memory card

Back end of

the microSD memory card

microSD slot

Fixing scrév

TILT fixing screw

|Azimuth|

Azimuth (YAW)

adjustment ring

angle

XC

Symbol of the microSD

Vertical (TILT)

(M4: locally procured)

Horizontal (PAN)

#### ■ Remove a microSD memory card

When removing a microSD memory card, reverse the procedure.

①Remove the enclosure from the camera.

②Remove the micro SD memory card by pushing it down until a click sound is heard while holding the card with a finger to prevent it from popping out.

③Attach the enclosure to the camera again.

#### **IMPORTANT:**

• When removing a microSD memory card, make sure to set "SD memory card" to "Not use" on the [SD memory card] tab of the setup menu before removing the microSD memory card. After removing the memory card, set back the "SD memory card" to "Use". For information about the setup menu, refer to the Operating Instructions.

#### Note:

- When using a microSD memory card, format it using this product. Refer to the Operating Instructions for how to format a microSD memory card.
- Use the compatible microSD memory cards. Refer to our support website <Control No.: C0107> for latest information about the compatible microSD memory cards.