

This Operation Manual covers safety and standard connection, for the AVM-USB. First, we ask you to read this Operation Manual thoroughly, then connect and operate the AVM-USB as advised. In addition, for future reference, we also advise safekeeping of this manual.

Please contact the distributor or dealer from which the AVM-USB was purchased, if you do not understand the installation, operation or safety instructions laid out in this manual. Not understanding the contents of the Operation Manual sufficiently may cause damage to the camera.

## Guide to the safety symbols

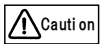
The meanings of the symbols used in this operation manual are:



When you do not adhere to or take notice of the "Danger" sign, it may lead to serious accident such as death or injury caused by fire or electric shock.



When you do not adhere to or take notice of the "Warning" sign, it may cause severe damage such as a physical injury.



When you do not adhere to or take notice of the "Caution" sign, it may incur injury and cause damage to peripheral objects in the immediate surroundings.

## Cautions for safety

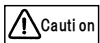
The AVM-USB is designed to be used safely; however, electrical goods may lead to physical accident caused by fire and electric shock if not used correctly. Therefore, please keep and read the "Cautions for safety" for protection against accidents.



- Do not disassemble and/or modify the AVM-USB.
- Do not operate the AVM-USB with wet hands.



- **Power is supplied through the USB bus.**  
Connect the USB terminal to the PC correctly for power.
- **Do not expose the AVM-USB to wetness or high moisture conditions.**  
The AVM-USB is designed and approved for indoor use only. The AVM-USB is not water-resistance or waterproof. If the location of the camera is outdoors or in an outdoor like environment, we recommend that you use an outdoor camera housing
- **Protect the AVM-USB from condensation.**  
Keep the AVM-USB dry at all times, during storage and operation.
- Should the AVM-USB not work properly, switch off the power immediately. Please check the camera according to the "Trouble shooting" section.



- **Avoid the striking of hard objects or dropping the AVM-USB.**  
The AVM-USB uses high quality electrical parts and precision components.
- **Use and connect to the terminal correctly using the cable provided.**
- **Avoid using the AVM-USB near any strong electromagnetic field.**  
Avoid emission sources of electromagnetic waves when the AVM-USB is installed into main equipment.

## Problems and Trouble Shooting

If any of the following problems occur when using the AVM-USB,

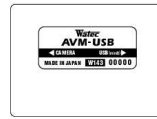
- Smoke or any unusual odor emerges from the AVM-USB.
- An object becomes embedded or a quantity of liquid seeps into the AVM-USB.
- More than the recommended voltage or/and amperage has been applied to the AVM-USB by mistake
- Anything unusual occurring to any equipment connected to the AVM-USB.

Disconnect the camera immediately according to the following procedures:

- ① Remove the cable from USB port of the PC.
- ② Turn off the power supply to the camera.
- ③ Remove the camera cables connected to the camera.
- ④ Contact the distributor or dealer from which the AVM-USB was purchased.

## Contents

Check to make sure all parts are present before use.



AVM-USB



Cable

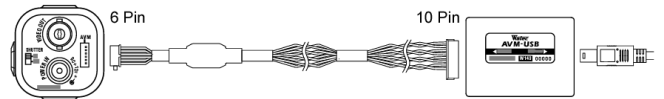


Clamp Filter

※A clamp filter can be used when a communication error between the PC and AVM-USB caused by exogenous noise occurs. Please connect the clamp filter to the USB cable when needed.

## Standard Connection

Before connecting the cable to the camera and the AVM-USB, please make sure that the pin configuration is correct. The wrong connection and usage may cause failure. The applicable cameras are WAT-230 VIVID, WAT-240 VIVID and WAT-241. See the connection sample as indicated below.

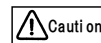


Camera

Cable

AVM-USB

USB Cable



Do not unplug the cables while communicating with a PC. It may cause improper operation of the camera.

## Specifications

Model	AVM-USB
Applicable models	WAT-230 VIVID, WAT-240 VIVID, WAT-241
Operating systems	Windows 2000, Windows XP
USB standard	USB1.1, USB2.0
Transfer mode	Full speed (Max. 12Mbps)
USB cable type	Type A – Mini-B
Control software	Download available from the Watec website
Device driver	( <a href="http://www.watec.co.jp/avm_usb.html">http://www.watec.co.jp/avm_usb.html</a> )
Power Supply	DC+5V (Supplied by the USB bus)
Power Consumption	0.15W (30mA)
Operating Temperature	0 – +50°C (Without condensation)
Operating Humidity	Less than 95% RH
Storage Temperature	-10 – +60°C (Without condensation)
Storage Humidity	Less than 95% RH
Size	55(W) × 40(H) × 20(D) (mm)
Weight	Approx. 32g (with cable)

- Design and specifications are subject to change without notice.
- Watec is not responsible for any inconvenience or the attendant damages to the video and monitoring recording equipment caused by misuse, mis-operation or improper wiring of our equipment.
- If for any reason the AVM-USB does not work properly, or if you have any questions regarding installation or operation, please contact the distributor or dealer from which it was purchased.

## Contact information



Watec Co., Ltd.

Add.: 254-2 Nihonkoku, Daihoji, Tsuruoka- Shi,  
Yamagata-Ken, 997-0017 Japan  
TEL: +81-235-23-4400 FAX: +81-235-23-4409  
Email: [info-o@watec.co.jp](mailto:info-o@watec.co.jp)  
URL: <http://www.watec.net>