

Federal Communications Commission Statement(Class A)



NOTE- This equipment has been tested and found to 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 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 tuning 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/television technician for help.

Class A ITE:

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

Warning - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE Class A (EMC)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EEC.

Warning - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

In no event will AVer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

TRADEMARKS

AVerVision is registered trademarks of AVer Information Inc. IBM PC is a registered trademark of International Business Machines Corporation. Macintosh is a registered trademark of Apple Computer, Inc. Microsoft is a registered trademark and Windows is a trademark of Microsoft Corporation. All other products or corporate names mentioned in this documentation are for identification and explanation purposes only, and may be trademarks or registered trademarks of their respective owners.

COPYRIGHT

© 2011 by AVer Information Inc. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means without the written permission of AVer Information Inc.



THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

Remote Control Battery Safety Information

- Store batteries in any cool & dry place.
- Do not dispose used batteries in domestic waste. Dispose batteries at special collection points or return to stores if applies.
- Remove the batteries if they are not in use for long period of time. Battery leakage and corrosion can damage the remote control, dispose batteries safely.
- Do not mix and use old and new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose batteries in a fire.
- Do not attempt to short circuit the battery terminals.

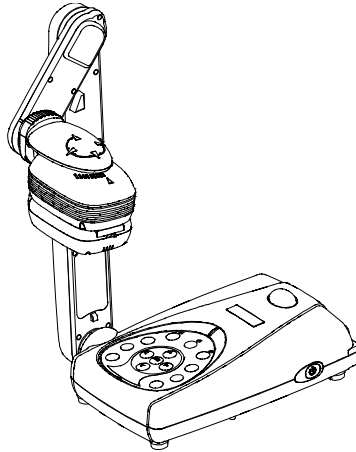
Table of Contents

Introduction	1
Package Contents	1
Optional Accessories	2
AVerVision M30 Parts	3
Technical Specifications	4
Image	4
Optics	4
Power	4
Lighting	4
Input/Output	4
Dimension	4
Making the Connections	5
Connecting the Power Adapter	6
Connecting a TV	6
Connecting a VGA, Mac Display Monitor or LCD/DLP Projector	7
Connecting a Computer via USB Connection	8
Installing the Optional Light Box	9
Connecting to a Microscope	9
Setting Up AVerVision M30	10
Camera Head	10
Mechanical Arm	10
LED Light Module	11
Anti-glare Sheet	11
Using the Infrared Remote Control	12
Touch Button Control Panel	14
LED Panel	15
OSD Navigation Tree	15
IMAGE MENU	15
SETTING MENU	16
Menu Functions	16
Transferring the Captured Image to PC	20
RS-232C Diagram Connection	20
RS-232C Cable Spec	20
RS-232C Transmission Spec	21
RS-232C Communication Format	21
RS-232C Command Table	21
Troubleshooting	22
Limited Warranty	23

Introduction Package Contents

Thank you for purchasing the AVerVision M30. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making presentations a snap.

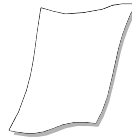
AVerVision M30 is an ideal presentation tool for business, academic, medical and the scientific community.



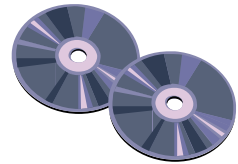
AVerVision M30



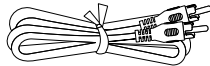
Remote Control
(batteries included)



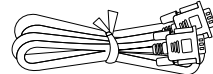
(1) Anti-glare
Sheet



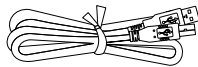
Software & Manual CD



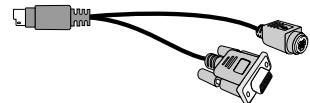
RCA Cable



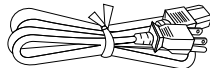
Computer Extension cable (VGA
Cable)



USB Cable

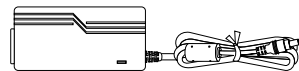


S-Video/RS-232 Cable



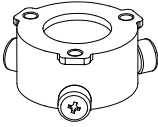
Power Cord

* The power cord will vary depending on the standard power outlet of the country where it is sold.

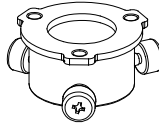


Power Adapter

Optional Accessories



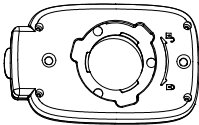
34mm Microscopic Adapter



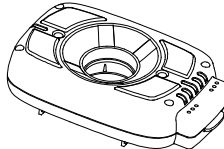
28mm Microscopic Adapter



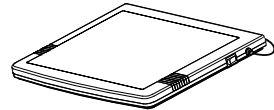
Carrying Bag



Microscopic Coupler



LED Lamp with Laser
Positioning Pointer



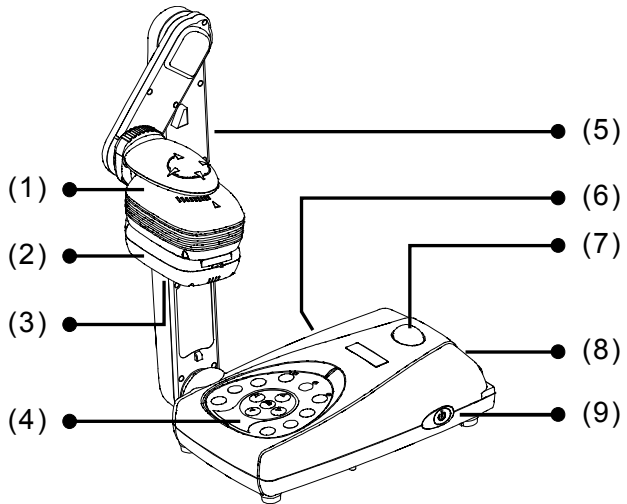
Light Box



AVerVision M30 Parts

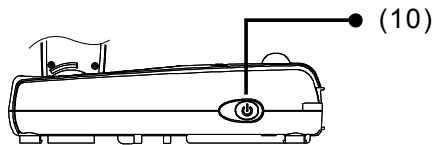
The illustrations below identify the parts of AVerVision M30.

- (1) Camera head
- (2) LED light module
- (3) Camera lens
- (4) Control panel
- (5) Arm
- (6) Left panel
- (7) IR sensor
- (8) Rear panel
- (9) Right panel



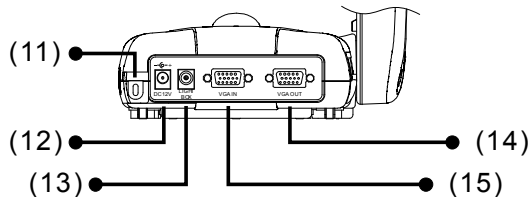
- (10) Power button

Right Panel



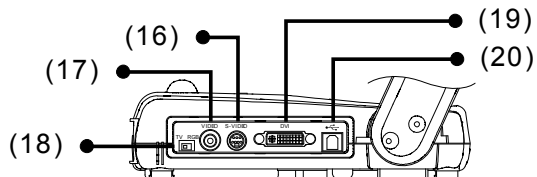
- (11) Security slot
- (12) DC 12V port
- (13) Light box power port
- (14) VGA output port
- (15) VGA input port

Rear Panel



- (16) S-Video output port
- (17) Composite video output port
- (18) TV/RGB display switch
- (19) DVI output port
- (20) USB port

Left Panel



Technical Specifications

Image

Sensor	1/2" progress scan CMOS
Total Pixels	3.2 mega pixel
Frame Rate	24 fps (Max.)
White Balance	Auto / Manual
Exposure	Auto / Manual / Flicker / Night View
Image Mode	Text / Graphics / High Frame
Effect	Color / B/W / Negative; Reverse; Mirror
Analog RGB Output	HD 720P; XGA 60 Hz; SVGA 60 Hz; VGA 60 Hz
S-Video, Composite Video Output	NTSC or PAL
Image Capture	Up to 80 Frames
Built-In Memory	128MB NAND Flash Memory

Optics

Lens	F3.0; Auto Focusing
Shooting Area	320mm x 240mm (Max.);
Zooming	AVERZOOM: 2x, Digital: 8x

Power

Power Source	DC 12V, 100-240V ~ 2.0-4.2A, 50-60 Hz
Consumption	7.44 Watts (Lamp off); 10.68 Watts (Lamp on)

Lighting

Lamp Type	LED lamp
-----------	----------

Input/Output

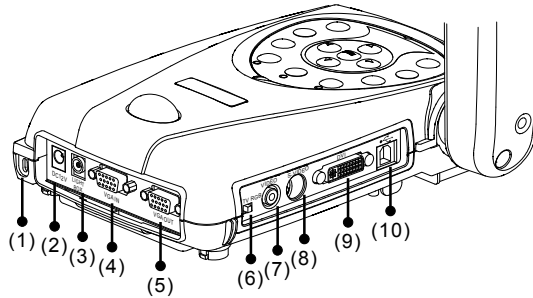
VGA Input	15-Pins D-sub (VGA)
VGA Output	15-Pins D-sub (VGA)
DVI Output	DVI type
S-Video	Mini-DIN Jack
Composite Video	RCA Jack
USB	USB2.0
DC 6V Output	Power Jack

Dimension

Operating	424mm x 173.4mm x 330mm
Folded	365mm x 173.4mm x 95.85mm
Weight	2 kg (about 4.4 lb)

Making the Connections

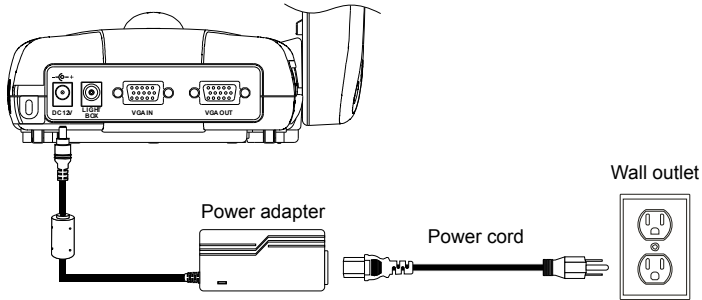
The ports on the back and side panel of the AVerVision M30 enable you to connect the unit to a computer, graphics display monitor or LCD/DLP projector, TV or other device. Illustrated below are the ports that are located at the back and side panel of the AVerVision M30 with their corresponding labels.



Port	Description
(1) Antitheft Slot	Attach a Kensington compatible security lock or antitheft device.
(2) DC 12V (input)	Connect the power adapter into this port.
(3) Light Box Port	Plug the optional light box into this port.
(4) VGA IN Port	Input RGB signal from a computer or other sources and actively pass it through to the VGA output port only. Connect this port to the VGA output port of the computer.
(5) VGA OUT Port	Output RGB signal from the camera, VGA input port, or the captured images from the memory on a VGA/Mac monitor or LCD/DLP projector.
(6) TV/RGB Switch	Set to select the between RGB (VGA Out) or TV (Composite Video/S-Video Out) display output.
(7) VIDEO Port (RCA/Composite)	Output the signal from the camera or the captured images from the built-in memory on TV or video equipment.
(8) S-VIDEO Port	Output the signal from the camera or the captured images from the memory on TV or video equipment.
(9) DVI Port	Output video signal from the camera, or the captured images from the memory on an LCD monitor or LCD/DLP projector with DVI interface.
(10) USB Port	Use AVerVision M30 as a USB Camera or Image Download allowing you to transfer the captured images to and from the AVerVision M30 built-in memory and PC.

Connecting the Power Adapter

Connect the power adapter to a standard 100V~240V AC power source.

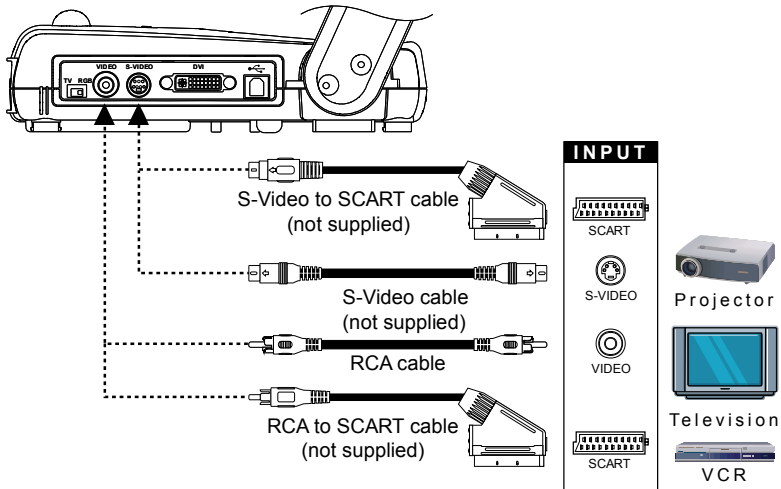


Connecting a TV

Locate the video, s-video or SCART RGB input port of the TV or Video equipment (i.e., VCR) to record your presentation on a videotape. If you are not sure, please refer to the user manual of the TV or Video equipment.



- Make sure the TV/RBG switch is set to TV.
- For better video quality, we strongly suggest using s-video connection.

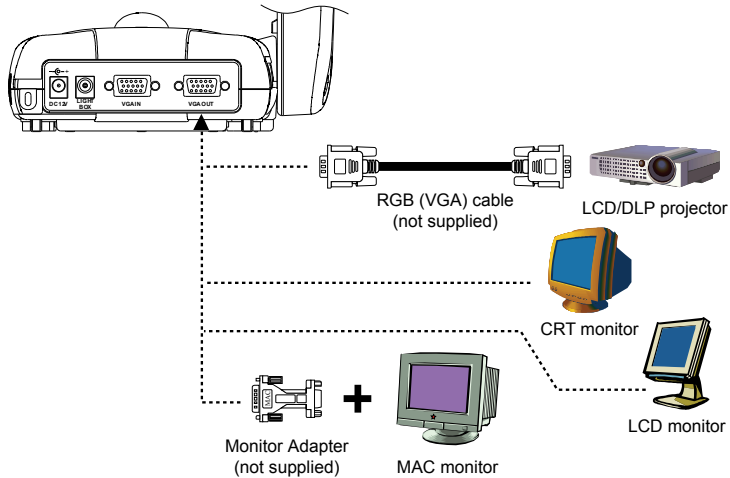


Connecting a VGA, Mac Display Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the display device. If you are not sure, please refer to the user manual of the device.



Make sure the TV/RBG switch is set to RGB.

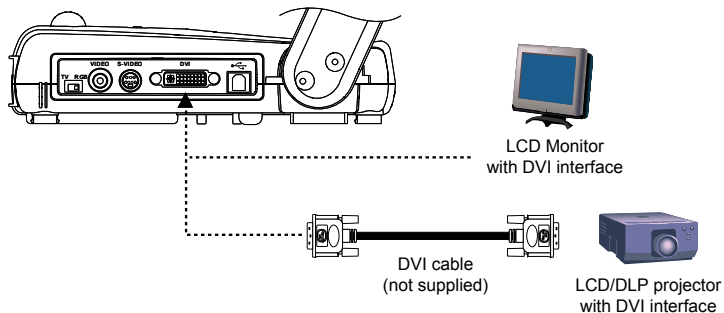


Connecting a VGA Monitor or LCD/DLP Projector with DVI interface

Locate the DVI input port of the display device. If you are not sure, please refer to the user manual of the device.

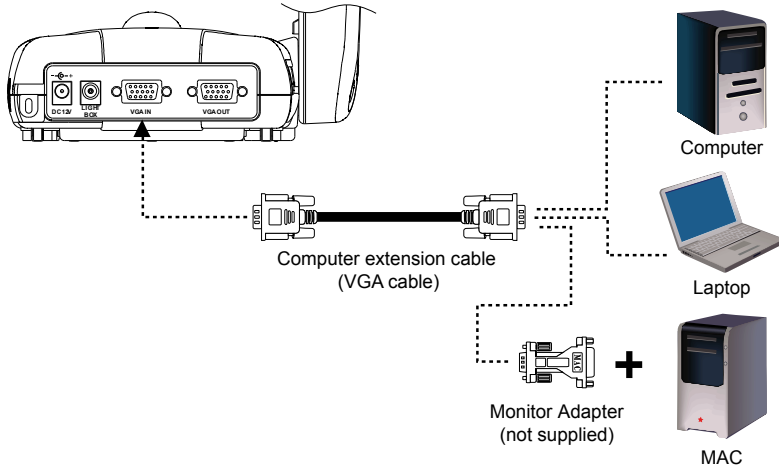


Make sure the TV/RBG switch is set to RGB.



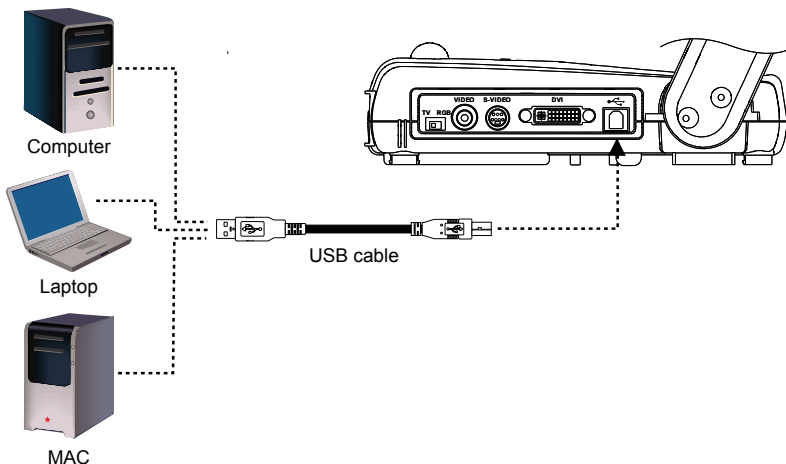
Connecting a Computer

Locate the RGB video output port of the computer or laptop to display your PC presentation on screen. AVerVision M30 supports active pass-thru connectivity, wherein the video signal from the VGA input port is continuously streamed to VGA output port and displayed on screen even when the AVerVision M30 is turned off.



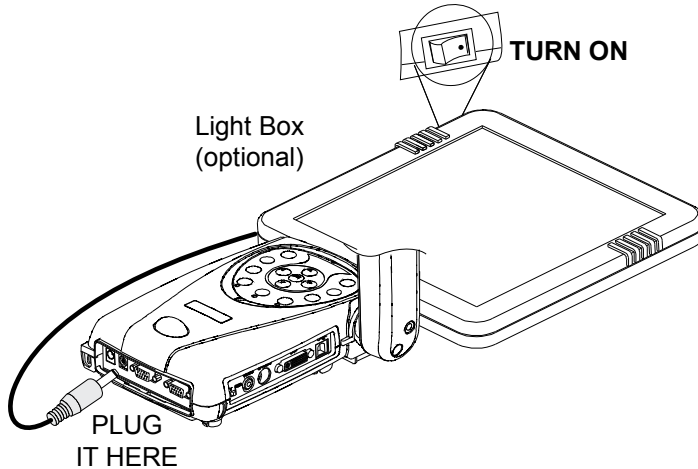
Connecting a Computer via USB Connection

Locate the USB port of the computer or laptop. This enables you to use AVerVision M30 as a USB Camera or to transfer the captured images from the built-in memory to your computer. Also see "Transfer Image from AVerVision M30 to PC" and refer to the bundled software user guide in the CD.



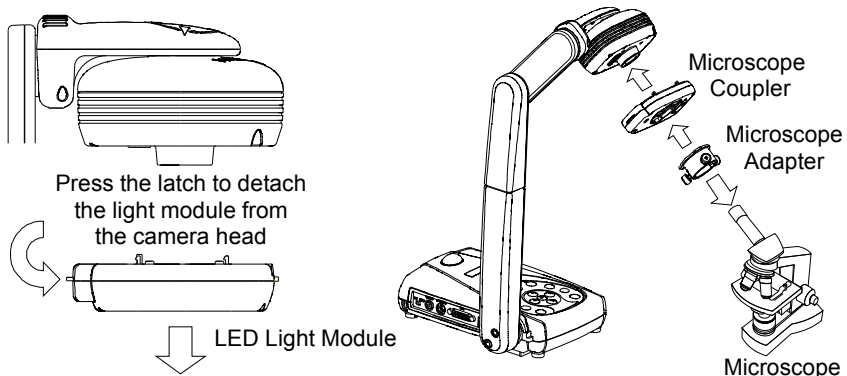
Installing the Optional Light Box

Connecting an optional light box enables you to view x-rays, transparencies and negative slides.



Connecting to a Microscope

Connecting the AVerVision M30 to a microscope enables you to examine microscopic objects on a big screen without straining your eyes.

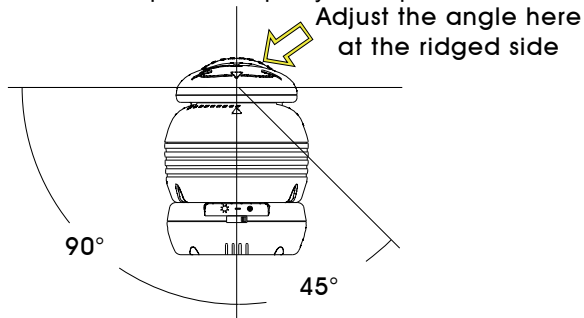


Setting Up AVerVision M30

This section provides useful tips on how to adjust the AVerVision M30 to meet your needs.

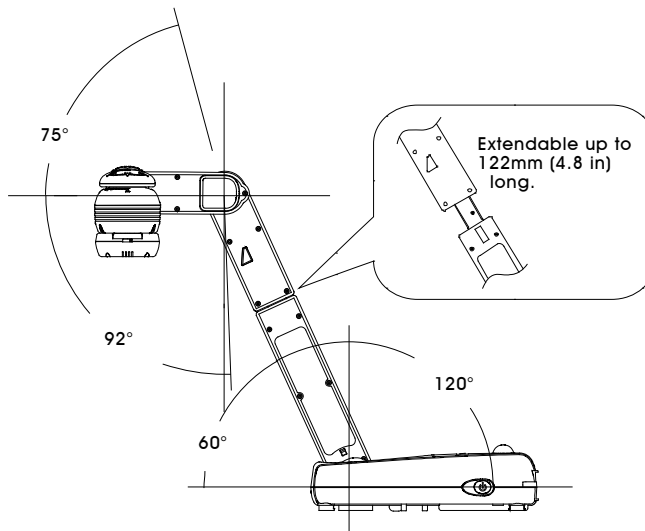
Camera Head

The camera head can be rotated 135 degrees from left to right. You can also manually adjust the focus from here to improve the quality of the pictures.



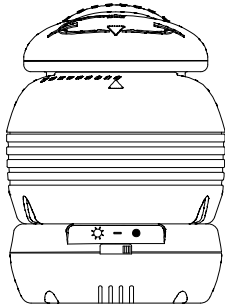
Mechanical Arm

The mechanical arm design allows you to project an image to its full height for full A4 paper landscape viewing.

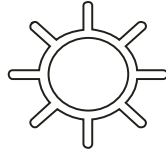


LED Light Module

The LED light module provides white light and it is best use when presenting in low lighting condition.



Turn On

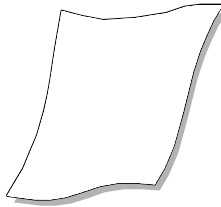


Turn Off



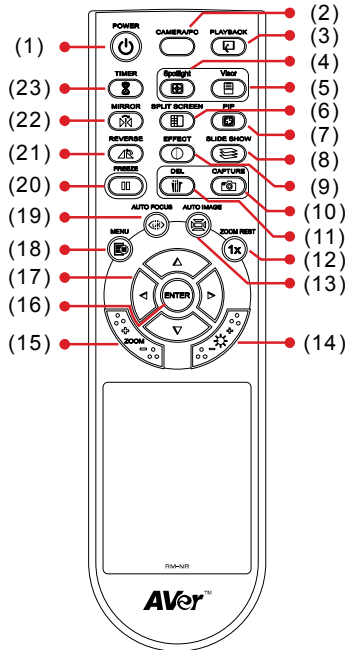
Anti-glare Sheet

The anti-glare sheet is a special coated film that helps eliminate any glare you may encounter when you are displaying very shiny object or glossy surfaces such as magazines, pictures, etc. Simply place the anti-glare sheet on top of the shiny document to reduce reflected light.



Using the Infrared Remote Control

The remote control requires two (2) “AAA” size batteries (supplied), make sure batteries are installed properly before use. You can access all the features of AVerVision M30 with the remote.

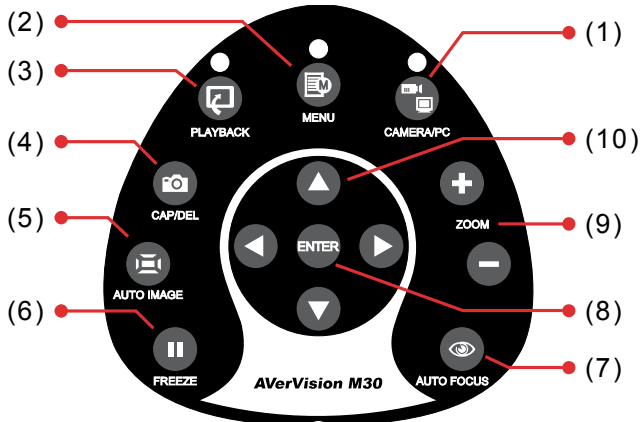


Name	Function
(1) POWER	Turn the unit on/standby.
(2) CAMERA / PC	Switch between Camera and computer mode. - Camera mode displays the video signal from the built-in camera. - PC mode displays the video signal from the RGB INPUT port of AVERVISION M30.
(3) PLAYBACK	View the captured picture from the memory in 16-thumbnail images.
(4) SPOTLIGHT	Overlay a box frame on the presentation screen, you can move it around and adjust the box size
(5) VISOR	Cover part of the presentation screen and allow presenter to reveal the material as desire.
(6) SPLIT SCREEN	Divide the screen into two. One side displays the live image from the built-in camera and the other side displays 8-thumbnail size picture/video from the memory.
(7) PIP	Show a thumbnail size captured picture from the memory at the corner of the screen in Camera mode.

Name	Function
(8) SLIDE SHOW	Start/Stop automatically showing the captured picture one-by-one.
(9) EFFECT	Convert and display the image in BW, Negative or Color in Camera and Playback mode only.
(10) CAPTURE	Capture still image in Camera mode. In continuous capture mode, press this button again to stop.
(11) DEL	Delete the selected picture in Playback mode.
(12) ZOOM RESET	Reset zoom level to 100%.
(13) AUTO IMAGE	Automatically adjust and set the white balance and exposure setting.
(14) BRIGHTNESS +/-	Adjust the brightness.
(15) ZOOM +/-	Increase/decrease the image magnification in camera and picture playback mode.
(16) ENTER	- Make a selection in Playback mode and OSD menu.
(17) ▲, ▼, ◀, & ▶	- Pan the image when image is above 10X zoom in live mode or in playback captured image mode. - Move the selection in Playback mode and in OSD menu. - Move the Spotlight frame and Visor screen cover.
(18) MENU	Open and exit the OSD menu.
(19) AUTO FOCUS	Adjust the focus automatically.
(20) FREEZE	- Freeze live images.
(21) REVERSE	Rotate the image by 90° in Camera mode and Playback mode.
(22) MIRROR	Flip the image in Camera mode.
(23) TIMER	Start/Pause timer countdown.

Touch Button Control Panel

The touch button control panel located on the top side of the AVerVision M30 provides quick access to commonly used functions.



Function	Description
(1) CAMERA / PC	Switch between Camera and computer mode. - Camera mode displays the video signal from the built-in camera. - PC mode displays the video signal from the RGB INPUT port of AVERVISION M30.
(2) MENU	Open and exit the OSD menu.
(3) PLAYBACK	View the captured picture from the memory in 16-thumbnail images.
(4) CAPTURE	Capture still image in Camera mode. In continuous capture mode, press this button again to stop.
(5) AUTO IMAGE	Automatically adjust and set the white balance and exposure setting.
(6) FREEZE	- Freeze live images.
(7) AUTO FOCUS	Adjust the focus automatically.
(8) ENTER	- Make a selection in Playback mode and OSD menu.
(9) ZOOM +/-	Increase/decrease the image magnification in camera and picture playback mode.
(10) ▲, ▼, ◀, & ▶	- Pan the image when image is above 10X zoom in live mode or in playback captured image mode. - Move the selection in Playback mode and in OSD menu. - Move the Spotlight frame and Visor screen cover.

LED Panel

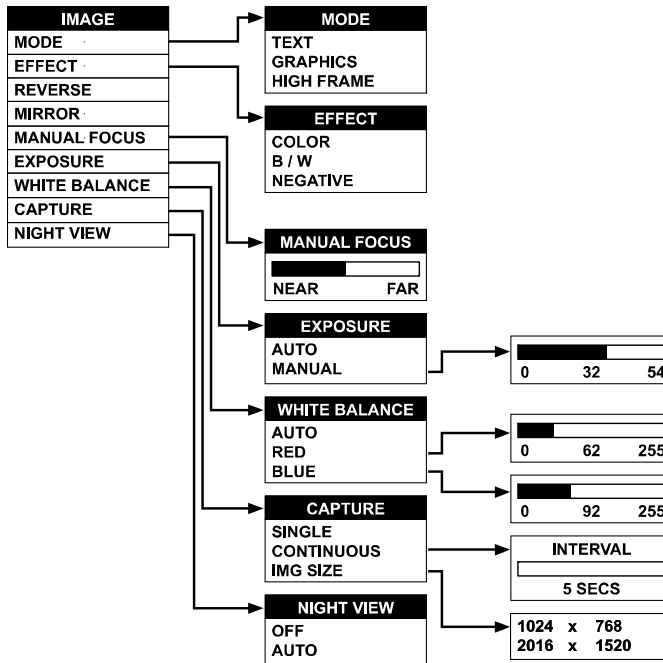
The LED on the front panel of AVerVision M30 indicates the status of the unit.

Color	Description
Green	The unit is operated with VGA output.
Orange	The unit is operated with TV output
Red	The unit is in standby mode.

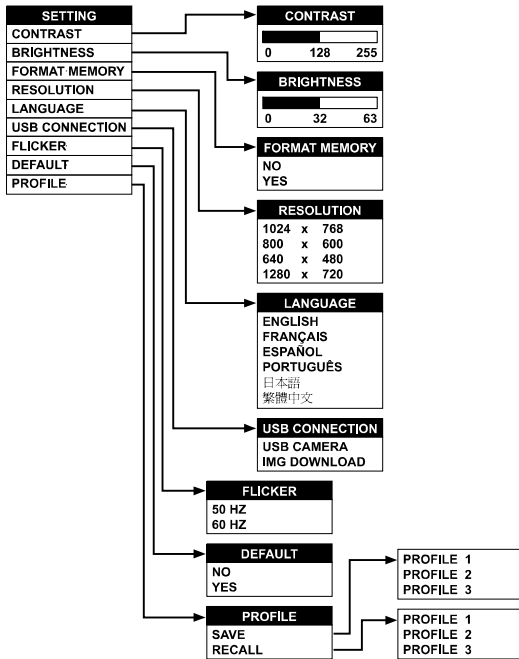
OSD Navigation Tree

There are 2 tab menus in AVERVISION M30: IMAGE and SETTING tabs. For TV output, the RESOLUTION will be disabled in SETTING menu list.

IMAGE MENU



SETTING MENU



Menu Functions

The MENU functions of AVERVISION M30 enhance fine-tuning your screen display, set the timer, select OSD language and more. Press the **MENU** button to call up and exit from the main menu or sub-menu display. Use **◀** or **▶** to select between IMAGE and SETTING menu list. Then use **▲** or **▼** to select the items in the menu list. To make a selection or change setting, press **ENTER**. To adjust the setting, press **◀** or **▶**.

OSD Menu

Description

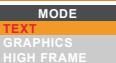


IMAGE > MODE

Use **▲** or **▼** to select between Text, Graphics and High Frame enhancement mode and then **ENTER** to make a selection.

Text - corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images.

Graphics - adjusts the gradient of the adjacent pixel making it appears to have a smooth image.

High Frame - increases the frame rate capture and can visually tracks the motion and react quickly. Sufficient lighting is required when using this mode.

OSD Menu

Description



IMAGE > EFFECT

Use ▲ or ▼ to select and display the image in Camera mode into positive (true color), monochrome (black and white) or negative. Then press **ENTER** to make a selection.

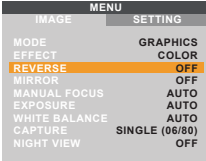


IMAGE > REVERSE

Press **ENTER** to turn off/on REVERSE. Reverse rotates the image by 180° in Camera mode.

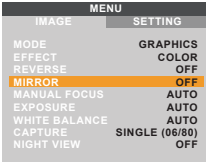


IMAGE > MIRROR

Press **ENTER** to turn off/on MIRROR. Mirror flips the image in Camera mode.



IMAGE > MANUAL FOCUS

Use ◀ or ▶ to manually adjust the focus and then press **ENTER** to save the setting and exit.



IMAGE > EXPOSURE

Use ▲ or ▼ to select between AUTO or MANUAL. Then press **ENTER** to make a selection.

AUTO to automatically adjust the camera exposure to determine how much light is required.

MANUAL to manually adjust the exposure level. Press **ENTER** and the bar will turn red, use ◀ & ▶ to increase and decrease the exposure level, and then press **ENTER** to save the setting and the bar will turn white. Press **MENU** to close the menu.



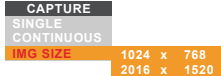







IMAGE > WHITE BALANCE

Use ▲ or ▼ to select between auto or manually adjust the red and blue color to suit the lighting condition or color temperature. Then press **ENTER** to make a selection.

To manually adjust the red or blue color level, select **RED** or **BLUE**, press **ENTER** and the bar will turn red, use ◀ & ▶ to increase and decrease the level, and then press **ENTER** to save the setting and the bar will turn white.



OSD Menu	Description
	<p>IMAGE > CAPTURE</p> <p>Use ▲ or ▼ to select SINGLE or CONTINUOUS capture mode and IMG SIZE to select the capture pixel size of the image.</p> <p>Select SINGLE to save one still image only and CONTINUOUS to save successive still images until the built-in memory is full or when the CAP/DEL button is being press again to stop.</p> <p>In Continuous mode, press ENTER the bar will turn red, use ◀ & ▶ to increase and decrease the capture time interval between frames and then press ENTER to save the setting and the bar will turn white. The time interval can be set from 5 to 600 sec.</p>  <p>In IMG SIZE, press ENTER, use ▲ and ▼ to make a selection, and press ENTER to save the setting.</p> 
	<p>IMAGE > NIGHT VIEW</p> <p>Use ▲ or ▼ to turn Night View OFF or AUTO.</p> <p>If you are presenting in a low-light condition, Night View enables the image of the object to appear as though under normal lighting conditions. AVERVISION M30 can automatically adjust the exposure to compensate for the adverse condition, but the captured image will appear to be in slow motion.</p>
	<p>SETTING > CONTRAST</p> <p>Use ▶ or ◀ to emphasize or reduce the difference between light and dark conditions then press ENTER. The contrast level can be adjustable up to 255.</p>
	<p>SETTING > BRIGHTNESS</p> <p>Use ▶ or ◀ to increase or decrease the brightness level and improve the visibility of the image then press ENTER. The brightness level can be set up to 63.</p>
	<p>SETTING > FORMAT MEMORY</p> <p>Use ▲ or ▼ to select NO to exit or YES to format and delete all the images saved in the built-in memory then press ENTER.</p> <p>Please wait till the message “FORMAT” at the lower right corner of the screen disappear to finish the process.</p>
	<p>SETTING > RESOLUTION</p> <p>Use ▲ or ▼ to choose from different supported display resolutions then press ENTER to make the selection.</p> <p>This selection will be disabled in TV output mode.</p>

OSD Menu Description



SETTING > LANGUAGE
Use ▲ or ▼ to select from different supported languages then press **ENTER** to make the selection.



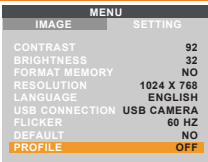
SETTING > USB CONNECTION
Use ▲ or ▼ buttons to select the function of USB between USB CAMERA and IMG DOWNLOAD. Then press **ENTER**.
USB Camera - can be used as a computer webcam or with our bundled software to record video and capture still image.
Img Download - transfer the captured images from the built-in memory to computer hard disk.



SETTING > FLICKER
Use ▲ or ▼ to select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.



SETTING > DEFAULT
Use ▲ or ▼ to select **YES** to restore to original factory default setting or **NO** to exit then press **ENTER** to make the selection.



SETTING > PROFILE
Press **ENTER** and use ▲ or ▼ to select between **SAVE** or **RECALL**. Then press **ENTER** again to make a selection.
SAVE - store the current setting in the selected profile number. Only effect, mode, brightness and contrast settings can be saved.
RECALL - restore the setting back to the selected profile number.
In the SAVE/RECALL selection, use ▲ or ▼ to select saving/restoring the setting from the three profile number then press **ENTER**.



Transferring the Captured Image to PC

This enables you to transfer the captured image from the built-in memory to PC.



The instruction below **MUST** be read and followed **BEFORE** connecting the USB cable.

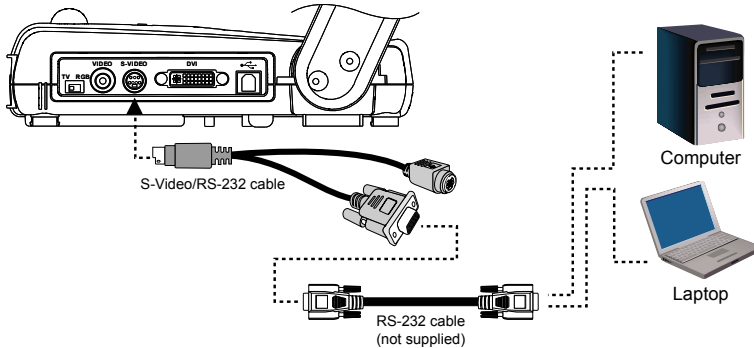
- MUST** set the USB CONNECTION as IMG DOWNLOAD before connecting the USB cable.

To set the USB CONNECTION as IMG DOWNLOAD, press **MENU** > select **USB CONNECTION** in SETTING menu list and press **ENTER**, select **IMG DOWNLOAD** and press **ENTER**.

- When "IMG DOWNLOAD" appears at the lower right corner of the presentation screen, you may now connect the USB cable.
- Upon connecting the USB cable, the system automatically detects the new removable disk. You may now transfer the captured image(s) from the AVERVISION M30 built-in memory to PC hard disk.

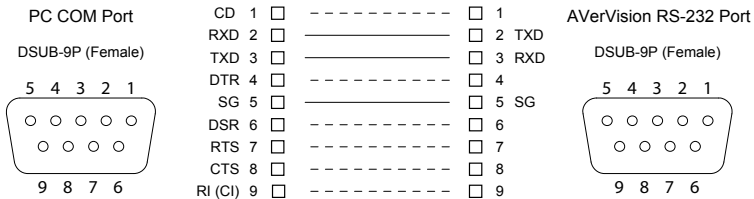
RS-232C Diagram Connection

AVerVision M30 can be controlled using a PC through RS-232 connection.



RS-232C Cable Spec

Make sure the RS-232 cable matches the cable spec design.



RS-232C Transmission Spec

- Star bit : 1 bit
- Data bit : 8 bit
- Stop bit : 1 bit
- Parity bit : None
- X parameter : None
- Baud rate(Communication speed) : 9600bps

RS-232C Communication Format

Start Code(1 Byte) : 0xFF
 Type Code(1 Byte) : 0x70
 DataLength Code(1 Byte) : 0x01
 Data Code(1 Byte) : See the Command Table for reference.
 CheckSum Code(1 Byte) : See the Command Table for reference.
 Format : Start + Type + DataLength + Data + CheckSum
 Example : 0xFF + 0x70 + 0x01 + 0x80 + 0xF1 (Command Power)

RS-232C Command Table

	Start Code	Type Code	Data Length	Data Code	Checksum
KEY_POWER	FF	70	1	0	71
KEY_TIMER	FF	70	1	1	70
KEY_AVBOX	FF	70	1	2	73
KEY_AVVISOR	FF	70	1	3	72
KEY_MIRROR	FF	70	1	4	75
KEY_SPLT SCREEN	FF	70	1	5	74
KEY_PIP	FF	70	1	6	77
KEY_REVERSE	FF	70	1	7	76
KEY_EFFECT	FF	70	1	8	79
KEY_SLIDESHOW	FF	70	1	9	78
KEY_DEL	FF	70	1	A	7B
KEY_PLAYBACK	FF	70	1	B	7A
KEY_FREEZE	FF	70	1	C	7D
KEY_CAPTURE	FF	70	1	D	7C

	Start Code	Type Code	Data Length	Data Code	Checksum
KEY_MENU	FF	70	1	E	7F
KEY_AUTOFOCUS	FF	70	1	F	7E
KEY_AUTOIMAGE	FF	70	1	10	61
KEY_ZOOM_1X	FF	70	1	11	60
KEY_UP	FF	70	1	12	63
KEY_LEFT	FF	70	1	13	62
KEY_ENTER	FF	70	1	14	65
KEY_RIGHT	FF	70	1	15	64
KEY_DOWN	FF	70	1	16	67
KEY_ZOOM_IN	FF	70	1	17	66
KEY_BRT_UP	FF	70	1	18	69
KEY_DEL	FF	70	1	45	34
KEY_CAM/PC	FF	70	1	4A	3B
KEY_ZOOM_OUT	FF	70	1	4B	3A
KEY_BRT_DOWN	FF	70	1	4C	3D

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVERVISION M30.

There is no picture on the presentation screen.

1. Check all the connectors again as shown in this manual.
2. Check the on/off switch of the display output device.
3. Verify the setting of the display output device.
4. If you are presenting from a notebook or computer through the display output device, check the cable connection from computer RGB (VGA) output to RGB input of AVERVISION M30 and make sure AVERVISION M30 is in PC Mode.

I have set up the AVERVISION M30 and checked all the connections as specified in the manual but I cannot get a picture on the preferred presentation screen.

1. Once the power is connected, the LED light turns RED in standby mode. Simply switch the AVerVision M30 "ON" by pressing the on/off switch until the LED light is blinking and turns GREEN.
2. The default camera display resolution setting is on 1024x768. If your output device does not support this resolution; no image can be projected. Simply press the MENU and RIGHT or LEFT button to the increase or decrease the resolution setting.
3. If your display output device is TV or any analog device, make sure the TV/RGB display switch is set to TV.

The picture on the presentation screen is distorted or the image is blurry.



1. Reset all changed settings, if any, to the original manufacturer default setting (Refer to the Menu Functions for more details and steps).
2. Use the Brightness and Contrast menu functions to reduce the distortion if applicable.
3. If you discover that the image is blurry or out of focus, press the Auto Focus button on the control panel or remote control.

There is no computer signal on presentation screen.

1. Check all the cable connections among the display device, AVERVISION M30 and your PC.
2. Connect your PC to the AVERVISION M30 first before you power on your computer.
3. For notebook, repeatedly press FN+F5 to toggles between display modes and display the computer image on the presentation screen. For different command, please refer to your laptop manual.

The presentation screen does not show the exact desktop image on my PC or Notebook after I toggle from Camera to PC mode.

1. Return to your PC or Notebook, place the mouse on the desktop and right click, choose "Properties", choose "Setting" tab, click on "2" monitor and check the box "Extend my Windows desktop onto this monitor".
2. Then go back one more time to your PC or Notebook and place the mouse on the desktop and right click again.
3. This time choose "Graphics Options", then "Output To", then "Intel® Dual Display Clone", and then choose "Monitor + Notebook".
4. After you follow these steps, you should be able to see the same desktop image on your PC or Notebook as well as on the presentation screen.

How do I transfer the images from AVERVISION M30 to a computer? Is it normal that AVERVISION M30 will reset to camera mode after I download images and disconnect the USB cable?

Choose "IMG DOWNLOAD" in SETTING tab, USB CONNECTION menu, and then connect the USB cable to transfer the captured images from the AVERVISION M30 to the computer. When finished, unplug the USB cable. The AVERVISION M30 will automatically reset and switch to camera mode.

Limited Warranty

For a period of time beginning on the date of purchase of the applicable product and extending as set forth in the **"Warranty Period of AVer Product Purchased"** section of the warranty card, AVer Information Inc. ("AVer") warrants that the applicable product ("Product") substantially conforms to AVer's documentation for the product and that its manufacture and components are free of defects in material and workmanship under normal use. "You" as used in this agreement means you individually or the business entity on whose behalf you use or install the product, as applicable. This limited warranty extends only to You as the original purchaser. Except for the foregoing, the Product is provided "AS IS." In no event does AVer warrant that You will be able to operate the Product without problems or interruptions, or that the Product is suitable for your purposes. Your exclusive remedy and the entire liability of AVer under this paragraph shall be, at AVer's option, the repair or replacement of the Product with the same or a comparable product. This warranty does not apply to (a) any Product on which the serial number has been defaced, modified, or removed, or (b) cartons, cases, batteries, cabinets, tapes, or accessories used with this product. This warranty does not apply to any Product that has suffered damage, deterioration or malfunction due to (a) accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification or failure to follow instructions included with the Product, (b) misapplication of service by someone other than the manufacturer's representative, (c) any shipment damages (such claims must be made with the carrier), or (d) any other causes that do not relate to a Product defect. The Warranty Period of any repaired or replaced Product shall be the longer of (a) the original Warranty Period or (b) thirty (30) days from the date of delivery of the repaired or replaced product.

Limitations of Warranty

AVer makes no warranties to any third party. You are responsible for all claims, damages, settlements, expenses, and attorneys' fees with respect to claims made against You as a result of Your use or misuse of the Product. This warranty applies only if the Product is installed, operated, maintained, and used in accordance with AVer specifications. Specifically, the warranties do not extend to any failure caused by (i) accident, unusual physical, electrical, or electromagnetic stress, neglect or misuse, (ii) fluctuations in electrical power beyond AVer specifications, (iii) use of the Product with any accessories or options not furnished by AVer or its authorized agents, or (iv) installation, alteration, or repair of the Product by anyone other than AVer or its authorized agents.

Disclaimer of Warranty

EXCEPT AS EXPRESSLY PROVIDED OTHERWISE HEREIN AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AVER DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE PRODUCT, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION, SATISFACTORY QUALITY, COURSE OF DEALING, TRADE USAGE OR PRACTICE OR THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT OF THIRD PARTY RIGHTS.

Limitation of Liability

IN NO EVENT SHALL AVER BE LIABLE FOR INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, DATA, REVENUE, PRODUCTION, OR USE, BUSINESS INTERRUPTION, OR PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES ARISING OUT OF OR IN CONNECTION WITH THIS LIMITED WARRANTY, OR THE USE OR PERFORMANCE OF ANY PRODUCT, WHETHER BASED ON CONTRACT OR TORT, INCLUDING NEGLIGENCE, OR ANY OTHER LEGAL THEORY, EVEN IF AVER HAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. AVER'S TOTAL, AGGREGATE LIABILITY FOR DAMAGES OF ANY NATURE, REGARDLESS OF FORM OF ACTION, SHALL IN NO EVENT EXCEED THE AMOUNT PAID BY YOU TO AVER FOR THE SPECIFIC PRODUCT UPON WHICH LIABILITY IS BASED.

Governing Law and Your Rights

This warranty gives you specific legal rights; You may also have other rights granted under state law. These rights vary from state to state.



For warranty period, please refer to the warranty card.

