

FCC NOTICE (Class A)



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.

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 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 instructions, 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.

CAUTION ON MODIFICATIONS

To comply with the limits for the Class A digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class A limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Changes and modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

European Community Compliance Statement (Class A)



This product is conformity with the protection requirements of EU Council Directives 89/336/EEC amended by 92/31/EEC on the laws of the Member States relating to electromagnetic compatibility.

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

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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.

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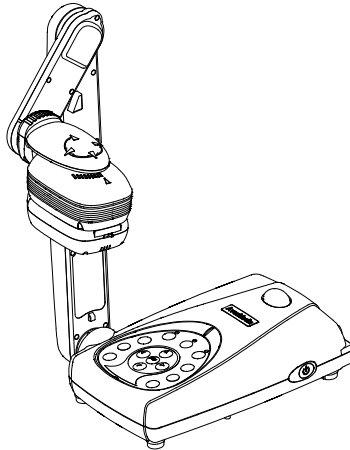
Introduction

Thank you for purchasing the AVerMedia® AVerVision300AF. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making presentations a snap.

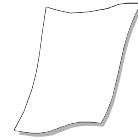
AVerVision300AF is an ideal presentation tool for business, academic, medical and the scientific community.

AVerMedia

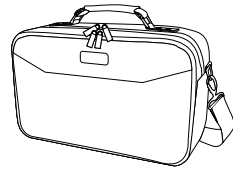
Package Contents



AVerMedia® AVerVision300AF



Anti-glare Sheet



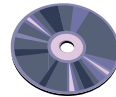
Carrying Bag



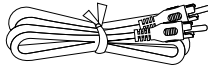
User Manual



Remote Control
(batteries included)



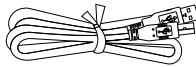
Driver CD



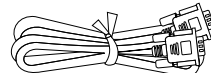
RCA Cable



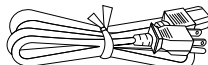
S-Video Cable



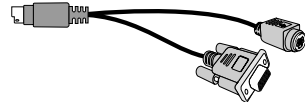
USB Cable



RGB Cable (VGA Cable)

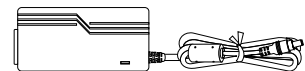


Power Cord



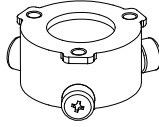
S-Video/RS-232 Cable

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

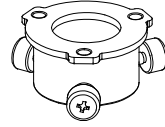


Power Adapter

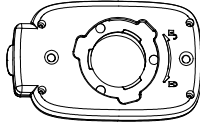
Optional Accessories



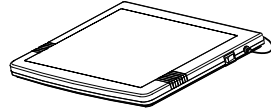
34mm Microscopic Adapter



28mm Microscopic Adapter



Microscopic Coupler



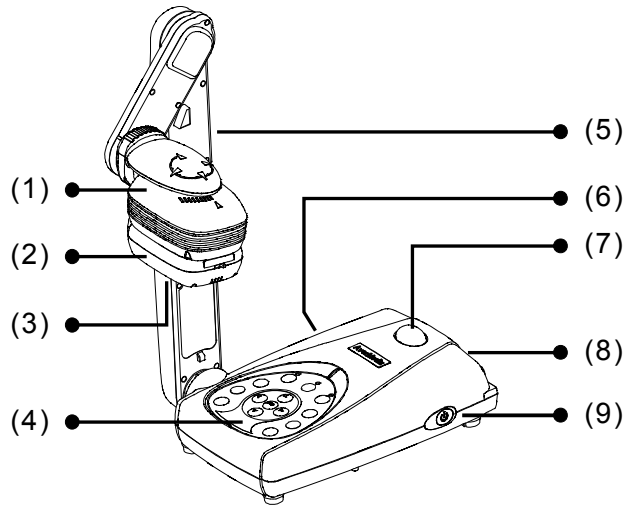
Light Box

AVerVision300AF Parts

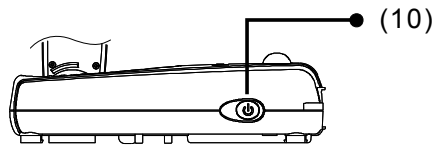
The illustrations below identify the parts of AVerVision300AF.

- (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
- (11) Antitheft Slot
- (12) DC 12V port
- (13) Light box power port
- (14) VGA output port
- (15) VGA input port
- (16) S-Video output port
- (17) Composite video output port
- (18) TV/RGB display switch
- (19) DVI output port
- (20) USB port

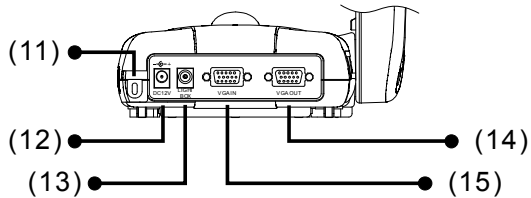
AVerMedia



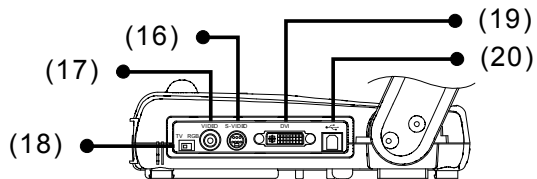
Right Panel



Rear Panel



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	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	32MB 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, 50-60 Hz
Consumption	7.44 Watts (Lamp off); 10.68 Watts (Lamp on)

Lighting

Lamp Type	LED lamp
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Input/Output

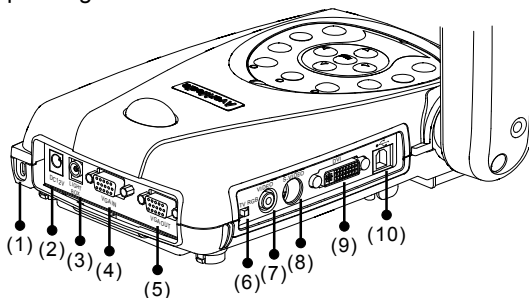
VGA Input	15-Pins D-sub (VGA)
VGA Output	15-Pins D-sub (VGA)
DVI Output	DVI-I type
S-Video	Mini-DIN Jack
Composite Video	RCA Jack
USB	USB2.0
DC 6V Output	Power Jack

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

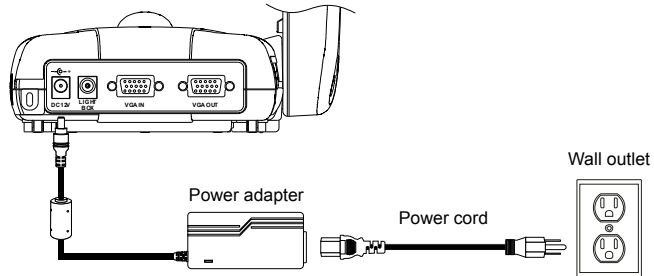
The ports on the rear and left panel of the AVerVision300AF enable you to connect the unit to a computer, graphics display monitor or LCD/DLP projector, TV or other device. Illustrated below are the ports that are located at the rear and left panel of the AVerVision300AF with their corresponding labels.



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 VGA 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 VGA 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 video signal from the camera or the captured images from the built-in memory on TV or video equipment.
(8) S-VIDEO Port	Output the video signal from the camera or the captured images from the memory on TV or video equipment.
(9) DVI Port	Output the 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 AVerVision300AF as a USB Camera or Image Download allowing you to transfer the captured images to and from the AVerVision300AF built-in memory and PC.

Connecting the Power Adapter

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

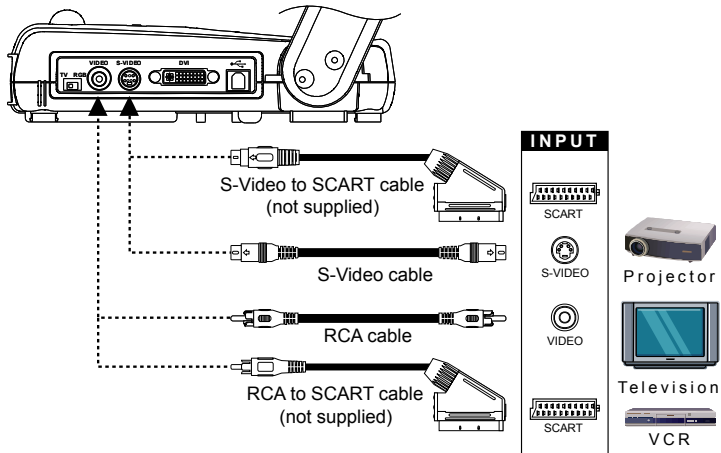


Connecting a TV

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/RGB switch is set to TV.
- For better video quality, we strongly suggest using S-VIDEO connection.

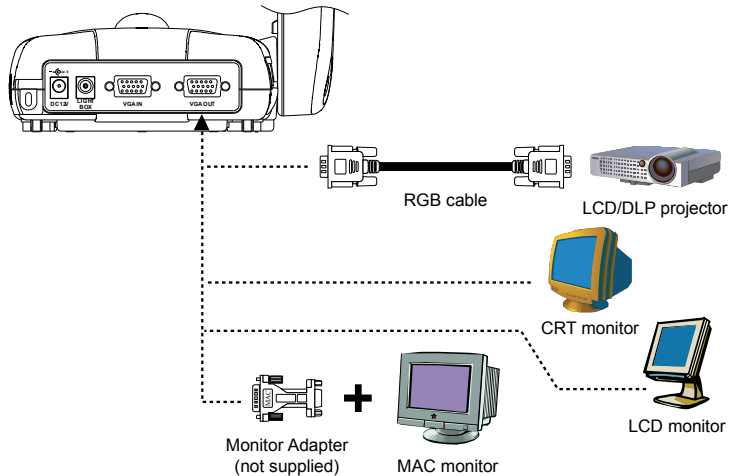


Connecting a VGA, Mac Display Monitor or LCD/DLP Projector

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/RGB switch is set to RGB.

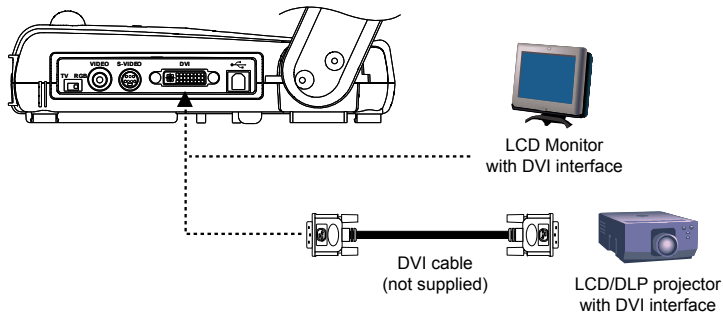


Connecting a VGA Monitor or LCD/DLP Projector with DVI interface

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

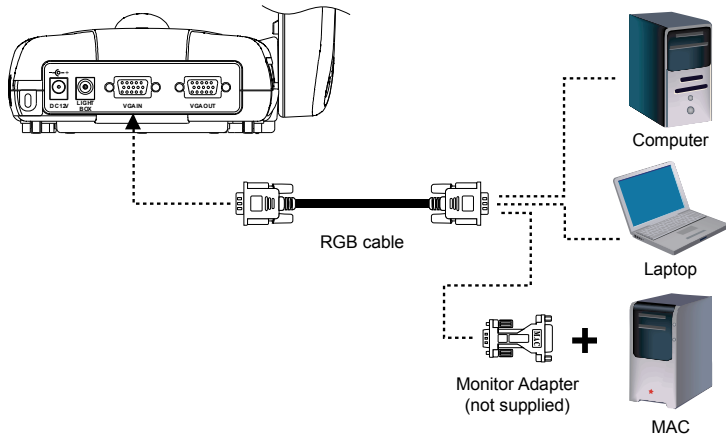


Make sure the TV/RGB switch is set to RGB.



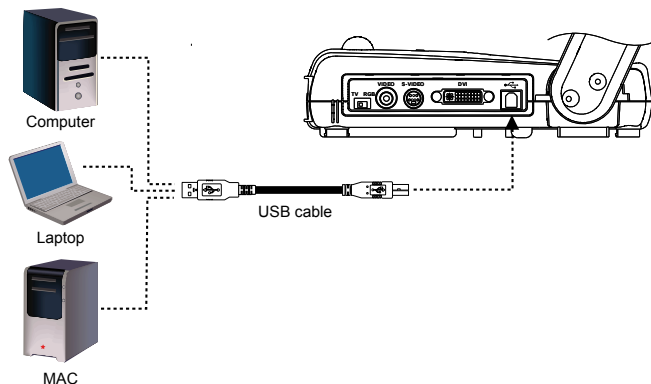
Connecting an IBM Compatible PC or Macintosh Computer

Locate the VGA video output port of the computer or laptop to display your PC presentation on screen. AVerVision300AF 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 AVerVision300AF is turned off.



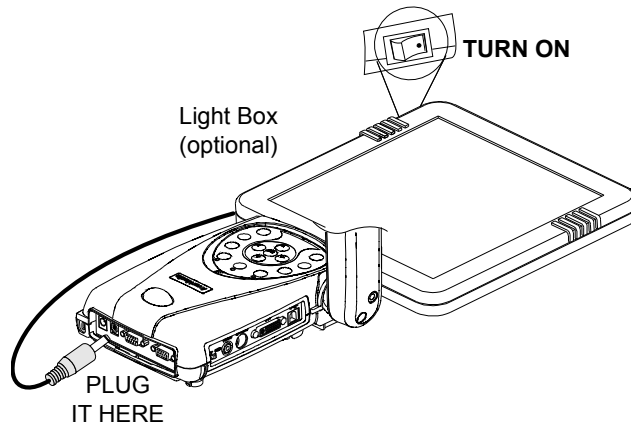
Connecting a Computer via USB Connection

Locate the USB port of the computer or laptop. This enables you to use AVerVision300AF as a USB Camera or to transfer the captured images from the built-in memory to your computer. Also see “Transfer Image from AVerVision300AF to PC” and refer to the bundled software user guide.



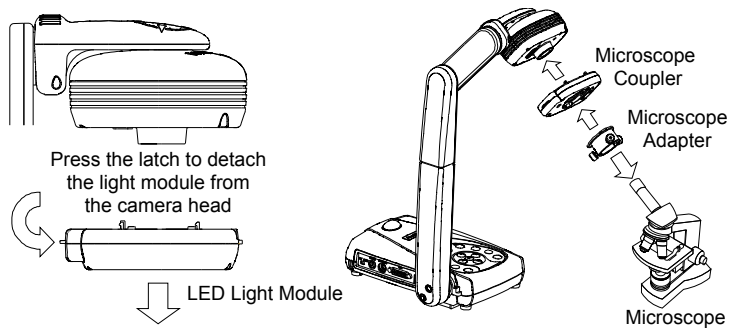
Installing the Optional Light Box

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



Connecting to a Microscope

Connecting the AVerVision300AF to a microscope enables you to examine microscopic objects on a big screen without straining your eyes.

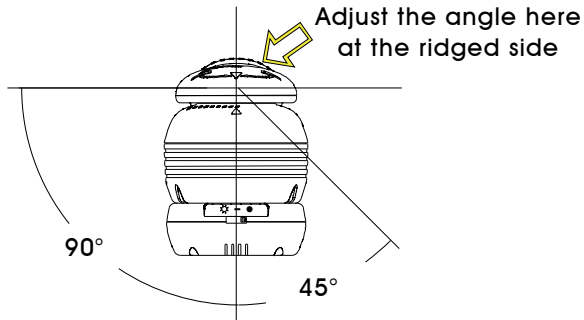


Setting Up AVerVision300AF

This section provides useful tips on how to adjust the AVerVision300AF to meet your needs.

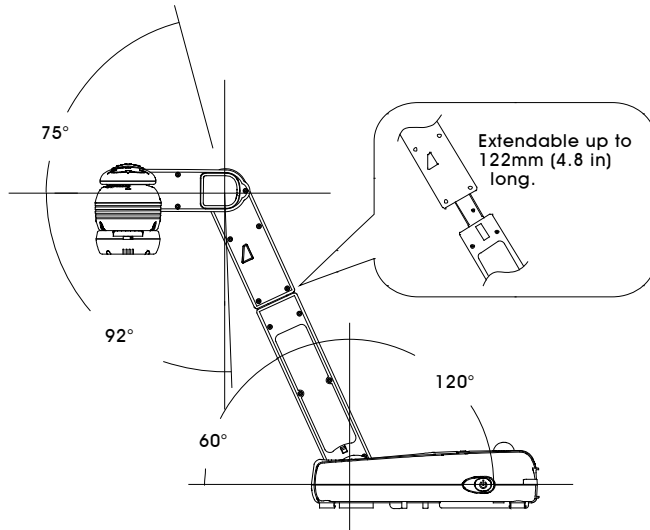
Camera Head

The camera head can be rotated 135 degrees from left to right.



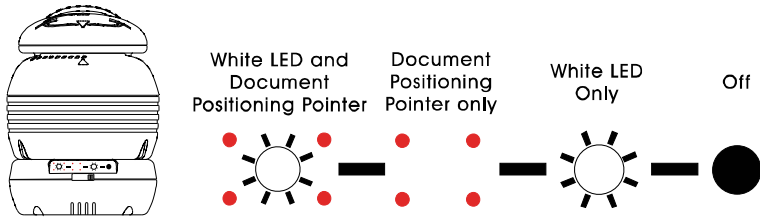
Mechanical Arm

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



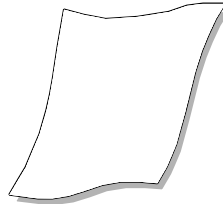
Light and Document Positioning Pointer














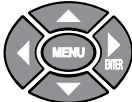

A unique feature of the AVerVision300AF is the four (4) laser positioning pointers that define the viewing area, enabling you to correctly position the object at the center under the camera's viewing area. 3 various light and laser position pointer settings are provided as follows.






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.

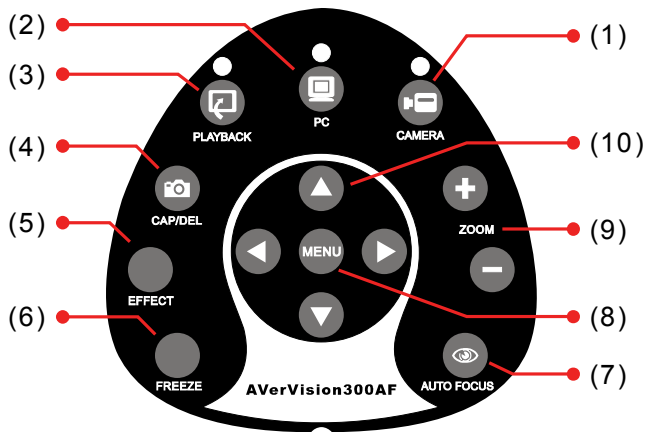


Name	Button	Function
(6) TIMER		Display, start and hide the on-screen display timer. (See Timer Function for more details)
(7) REVERSE		Rotate the image by 180°. (camera mode only)
(8) NIGHT VIEW		Turn on/off Night View. Use Night View when you are presenting in a low-light condition. The display image appears in low frame rate.
(9 & 19) PAGE UP/ DOWN	 	Display previous and next set of 16-thumbnail images.
(10) FREEZE		Toggle to pause or resume the display image. (camera mode only)
(11) AUTO FOCUS		Adjust the focus automatically.
(12) FOCUS △ / ▽	 	Adjust the focus manually.
(13) ZOOM +/-	 	Zoom in and zoom out the picture digitally in Playback mode. When it reaches the maximum AVERZOOM level of about 200%, you can still continue to digitally zoom in the image up to 1600%.
(14) ZOOM RESET		Return to normal view (1x).
(15) DELETE		Remove the selected picture from the built-in memory permanently in Playback mode.
(16) ◀▶▲▼ (▶ ENTER)		<ul style="list-style-type: none"> - Pan the mage to the left, right, up, down when zoom in mode. - Make a selection on the main menu and sub-menu. (See Menu Functions, for more details) - Make a selection in 16-thumbnail images and press  to view the selected image.


Name	Button	Function
(17) MENU		Pull up and exit the OSD main-menu and sub-menu.
(18) CAPTURE		Capture a still image. The captured image is saved in the built-in memory at 1024 x 768 resolution.
(20) MIRROR		Flip the image in Camera mode.

Touch Button Control Panel

The touch button control panel located on the top side of the AVerVision300AF provides quick access to commonly used functions.



Function	Description
(1) CAMERA MODE	Display image from the document camera.
(2) PC MODE	Display video signal from the VGA input port.
(3) PLAYBACK MODE	Display captured images from the built-in memory in either 16-thumbnail mode or full screen mode.
(4) CAP/DEL	Capture a still image. The captured image is saved in the built-in memory at 1024 x 768 resolution. Remove the selected picture from the built-in memory permanently in Playback mode.
(5) EFFECT	Change live image in BW, Negative or Color. (camera mode only)

Function	Description
(6) FREEZE	Toggle to pause or resume the display image. (camera mode only)
(7) AUTO FOCUS	Adjust the focus automatically.
(8) MENU	Pull up and exit the OSD main-menu and sub-menu.
(9) ZOOM +/-	Zoom in and zoom out the picture digitally in Playback mode. When it reaches the maximum AVERZOOM level of about 200%, you can still continue to digitally zoom in the image up to 1600%.
(10) ◀ ▶ ▲ ▼	<ul style="list-style-type: none"> - Pan the image to the left, right, up, down when zoom in mode. - Make a selection on the main menu and sub-menu. (See Menu Functions, for more details) - Make a selection in 16-thumbnail images and press  to view the selected image.

LED Panel

The LED on the front panel of AVerVision300AF 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.

Timer Function

The AVerVision300AF enables you to control the pace of your presentation by displaying the remaining time on the countdown screen. This merely serves as a reminder. When the time is up, the timer blinks at the top right corner only and the presentation screen will not be affected in any way.

To Set the Timer:

1. Press **MENU** to view on screen function selections.
2. Press **▲** or **▼** buttons to select **TIMER**.
3. Press **▶** or **◀** buttons to set a time value. You can set the time value up to 120 minutes.
4. After selecting a time value, press the **MENU** button to go back to the main menu.

To View and Start the Timer Countdown:

1. To display the previously set time value, press the **TIMER** button once. The AVerVision300AF automatically converts your settings to “hours:minutes:seconds” format. The maximum setting is 120 minutes.
2. To start the countdown, press the **TIMER** button again.
3. Once the countdown timer starts, you can toggle the countdown screen to display and hide it by pressing the **TIMER** button.



Transferring the captured image from AVerVision300AF to Computer

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.

1. **MUST** set the USB SELECT as Image Download before connecting the USB cable.

To set the USB SELECT as Mass Storage, press **MENU** > select **USB SELECT** and press (**▶**)> select **IMG DOWNLOAD** and press (**▶**).

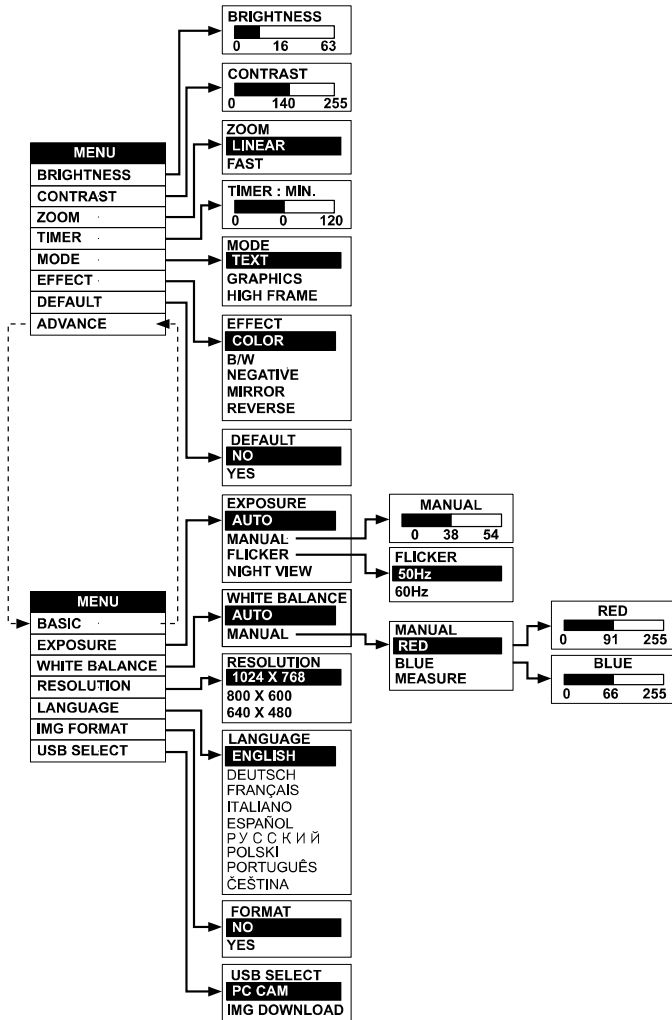
2. When “IMG Download” appears at the lower right corner of the screen, you may connect a USB cable between the doc cam and your computer.
3. Upon connecting the USB cable, the system automatically detects the document camera as a new removable disk.
4. You may now transfer the captured image from AVerVision300AF to your computer.

OSD Navigation Tree

VIDEO OUTPUT OSD


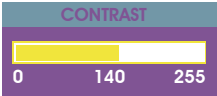





For TV output, RESOLUTION is not included in the menu list.



Menu Functions

The MENU functions of the AVerVision300AF enable you to fine-tune 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 the **▲** or **▼** buttons to select the items in the menu list. Use the **▶** button to enter sub-menu. To adjust the setting, press **◀** or **▶** buttons.

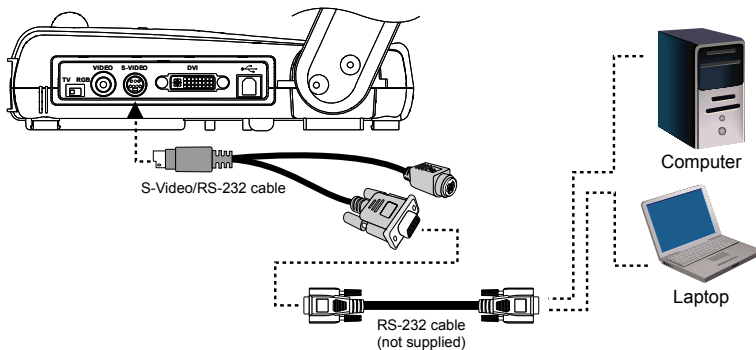
OSD Menu	Description
	<p>BRIGHTNESS</p> <p>Press ▶ or ◀ buttons to increase or decrease the brightness level and improve the visibility of the image. You can adjust the brightness level up to 63.</p>
	<p>CONTRAST</p> <p>Press ▶ or ◀ buttons to emphasize or reduce the difference between light and dark conditions. You can adjust the contrast level up to 255.</p>
	<p>ZOOM</p> <p>Use ▲ or ▼ buttons to select between linear or fast zoom then press ▶ to make the selection. Using the linear zoom you can increase or decrease the zoom values by 10%. While using the fast zoom, the increments are by 100%. The maximum amount of zoom that you can view is 1600%.</p>
	<p>TIMER</p> <p>Press ▶ or ◀ buttons to set a time value. You can set the time value up to 120 minutes. (Refer to the section, <i>Timer Function</i>, for more details.)</p>
	<p>MODE</p> <p>Use ▲ or ▼ buttons to select between Text, Graphics and High Frame modes.</p> <p>In text mode, the AVerVision300AF corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images.</p> <p>While in graphics mode, the AVerVision300AF adjusts the gradient of the adjacent pixel making it appears to have a smooth image.</p> <p>While in real-time requirement, we suggest to select High Frame mode, which can more visually track animated objects and react quickly. (This mode is better to be used in good light.)</p>

OSD Menu	Description
<p>EFFECT</p> <p>COLOR</p> <p>B/W NEGATIVE MIRROR REVERSE</p>	<p>EFFECT</p> <p>Use ▲ or ▼ buttons to display the image captured by the camera into negative, positive (true color), monochrome (black and white), mirrored image, or as a rotated image by 180°.</p>
<p>DEFAULT</p> <p>NO</p> <p>YES</p>	<p>DEFAULT</p> <p>Use ▲ or ▼ buttons to select YES to restore to original factory default setting or NO to exit. Press ► to make the selection.</p>
<p>EXPOSURE</p> <p>AUTO</p> <p>MANUAL →</p> <p>FLICKER →</p> <p>NIGHT VIEW</p>	<p>EXPOSURE</p> <p>Use ▲ or ▼ buttons to select between Auto and Manual.</p> <p>AVerVision300AF enables you to automatically or manually adjust the camera to determine how much light is required.</p>
<p>MANUAL</p> <p>0 38 54</p>	<p>If you choose to manually adjust the exposure, press ► or ◀ buttons to adjust the exposure level.</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. The AVerVision300AF automatically adjusts the exposure to compensate for the adverse condition, but the captured image will appear to be in low frame rate.</p>
<p>FLICKER</p> <p>50 Hz</p> <p>60 Hz</p>	<p>FLICKER</p> <p>Use ▲ or ▼ buttons 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.</p>
<p>WHITE BALANCE</p> <p>AUTO</p> <p>MANUAL →</p>	<p>WHITE BALANCE</p> <p>Use ▲ or ▼ buttons to select between Auto and Manual.</p> <p>AVerVision300AF enables you to automatically or manually adjust the camera to suit the lighting condition or color temperature. If you select to manually adjust the white balance, you can adjust the Red, Blue or use the system to measure the color temperature.</p>
<p>MANUAL</p> <p>RED →</p> <p>BLUE →</p> <p>MEASURE</p>	<p>To obtain a more accurate color balance, place a sheet of white paper under the camera. Select MEASURE then press ► button to calibrate the color temperature. Wait until a "MEASURE OK" appears at the lower right corner of the presentation screen.</p>

OSD Menu	Description
<p>RESOLUTION</p> <p>1024 x 768 800 x 600 640 x 480</p>	<p>RESOLUTION</p> <p>Use ▲ or ▼ buttons to choose from 1024x768, 800x600 or 640x480 display resolution then press ► to make the selection.</p>
<p>LANGUAGE</p> <p>ENGLISH DEUTSCH FRANÇAIS ITALIANO ESPAÑOL РУССКИЙ POLSKI PORTUGUÉS ČEŠTINA</p>	<p>LANGUAGE</p> <p>Use ▲ or ▼ buttons to select from different languages then press ► to make the selection.</p>
<p>FORMAT</p> <p>NO YES</p>	<p>FORMAT</p> <p>Use ▲ or ▼ buttons to select No to exit or YES to format and delete all the images saved in the built-in memory then press ►.</p> <p>Please wait till the message “FORMAT” disappear to finish the process.</p>
<p>USB SELECT</p> <p>PC CAM IMG DOWNLOAD</p>	<p>USB SELECT</p> <p>Use ▲ or ▼ buttons to select USB functions between PC CAM and IMG DOWNLOAD.</p> <p>In PC CAM mode, you can use AVerVision300AF as a computer webcam or with the bundled software as video recorder and capture still image.</p> <p>In IMG Download mode, you can download the saved images from AVerVision300AF’s built-in memory to your computer.</p>

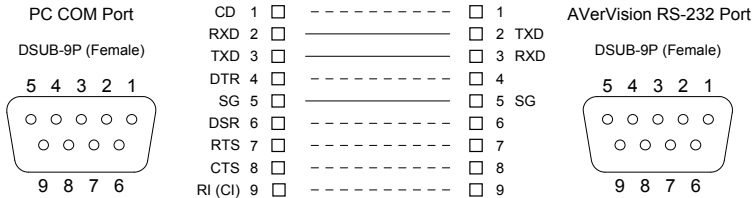
RS-232C Diagram Connection

AVerVision300AF 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

FUNCTION		DATA CODE	CHECKSUM CODE
POWER		0x80	0xF1
CAPTURE		0x90	0xE1
TIMER		0x8A	0xFB
NIGHT VIEW		0x8E	0xFF
FREEZE		0x91	0xE0
MODE SELECTION	CAMERA	0x83	0xF2
	PC	0x82	0xF3
	PREVIEW	0x81	0xF0
PREVIEW MODE	DELETE	0x88	0xF9
	PAGE UP	0x8D	0xFC
	PAGE DOWN	0x8F	0xFE

FUNCTION		DATA CODE	CHECKSUM CODE
ZOOM	IN	0x9A	0xEB
	OUT	0x9C	0xED
	ZOOM RESET	0x98	0xE9
FOCUS	AUTO FOCUS	0x97	0xE6
	NEAR	0x9B	0xEA
	FAR	0x99	0xE8
OSD	MENU	0x94	0xE5
	UP	0x92	0xE3
	DOWN	0x96	0xE7
	RIGHT	0x95	0xE4
	LEFT	0x93	0xE2
EFFECT	MIRROR	0x8B	0xFA
	ROTATE	0x89	0xF8
	COLOR / B.W / NEGATIVE	0x86	0xF7

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision300AF.

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, please check and switch the document camera source to PC Mode.

I have set up the AVerVision300AF 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 cords are connected, the LED light turns RED as standby mode. Simply switch the AVerVision300AF "ON" by pressing the on/off switch until the LED light is blanking 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, AVerVision300AF and your PC.
2. Connect your PC to the AVerVision300AF first before you power on your computer.

The presentation screen does not show the exact desktop image on my PC or Notebook after I toggle from Doc Cam mode 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 download images from AVerVision300AF to a computer? Is it normal that AVerVision300AF will reset to camera mode after I download images and disconnect the USB cable?

Choose "IMG Download" from the Menu, and then connect the USB cable to download the captured and stored images from the AVerVision300AF to your computer. When finished, unplug the USB cable. The AVerVision300AF will automatically reset at camera mode.

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