

AVerVision300AFHD

User Manual



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.

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TRADEMARKS

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NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.



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.

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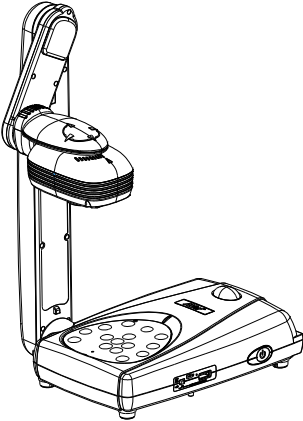
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Package Contents

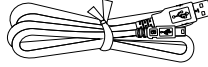
Make sure the following items are included in the package.



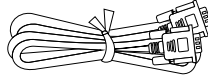
AVerVision300AFHD



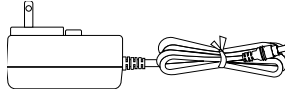
RS-232/CVBS Cable



USB Cable



RGB Cable

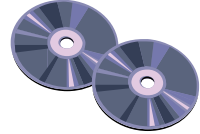


Power Adapter (12V, 2A)

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

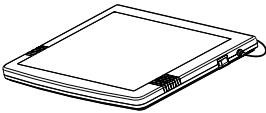


Remote Control
(batteries included)

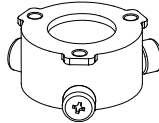


Software & Manual CD

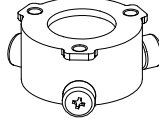
Optional Accessories



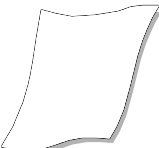
Light Box



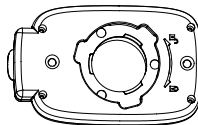
34mm Microscope Adapter



28mm Microscope Adapter



Anti-glare Sheet

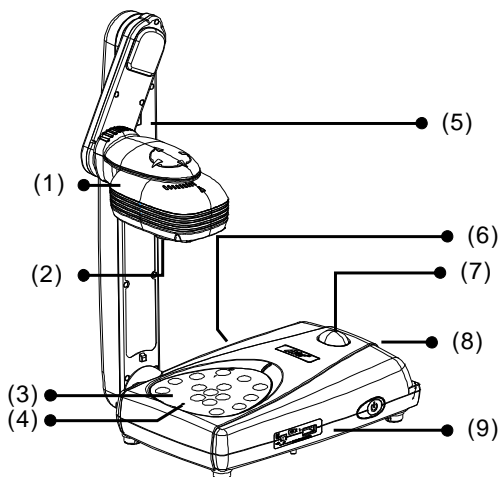


Microscope Coupler



Carrying Bag

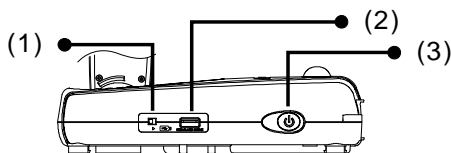
Get Familiar with the AVerVision300AFHD



(fig. 1.1)

Name	Function
(1) Camera head	Contain the camera sensor.
(2) Camera lens	Focus the image in the camera.
(3) Control panel	Easy access to various functions.
(4) Built-in MIC	Record audio when recording video clip. The recorded sound will be in monophonic.
(5) Arm	Extendable for viewing coverage.
(6) Left panel	Connections for LCD monitor using HDMI cable, microphone, speaker, computer, SD card, and TV-RGB display output switch.
(7) IR sensor	Receive remote control commands.
(8) Rear panel	Connections for power, computer for RGB input display and LCD monitor using RGB cable.
(9) Right panel	On/off switch for USB flash drive port and power button.

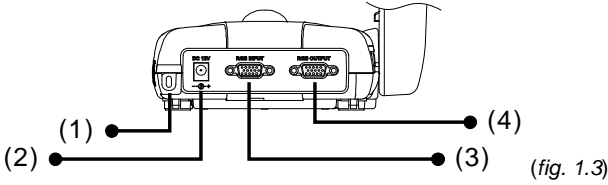
Right Panel



(fig. 1.2)

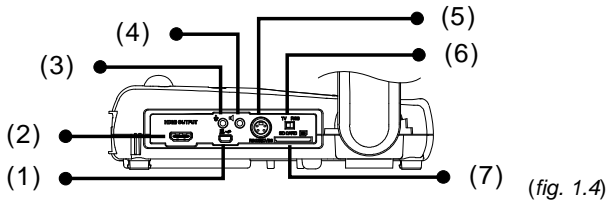
Name	Function
(1) USB PC - USB Flash Drive switch	Switch to right () for audio video recording directly to a USB flash drive æ } à Á ^ ~ c Á Ç D Á AVerVision300AFHD & to a computer using a USB cable.
(2) USB Thumb Drive port	Insert a USB flash drive for audio video recording storage.
(3) Power button	Turn the unit on/standby mode.

Rear Panel



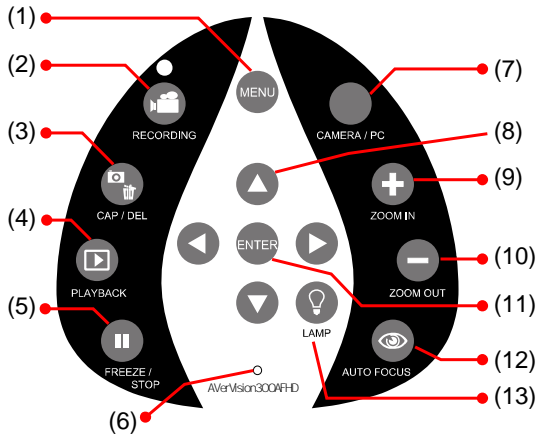
Name	Function
(1) Antitheft Slot	Attach a Kensington compatible security lock or antitheft device.
(2) DC12V port	Connect the power adapter into this port.
(3) RGB INPUT port	Input the signal from a computer or other sources and pass it through to the RGB OUT port only. Connect this port to the RGB/VGA output port of a computer.
(4) RGB OUTPUT port	Connect the AVerVision300AFHD to any display device with RGB cable

Left Panel



Name	Function
(1) Mini USB port	Connect to a USB port of a computer with a USB cable and use AVerVision300AFHD as a USB Camera or transfer the captured images/videos either from the memory source to computer.
(2) HDMI OUTPUT	Output the video signal from the main system on an LCD monitor with HDMI interface using HDMI cable.
(3) MIC port	Connect a 3.5mm plug microphone. The built-in mic will be disabled when an external MIC is connected to this port.
(4) Speaker port	Connect to an amplified speaker.
(5) RS-232/CVBS port	Connect the supplied RS-232/CVBS cable into this port. The RCA jack outputs the video signal from the camera to a TV or video equipment. The RS-232 jack is used to connect to computer serial port or to any control panel or for centralized control if desire.
(6) TV-RGB switch	TV switch to output display video from RS232/CVBS (via RCA connection), and RGB to RGB and HDMI OUTPUT ports.
(7) SD card slot	Insert the SD card with the label facing up.

Control Panel

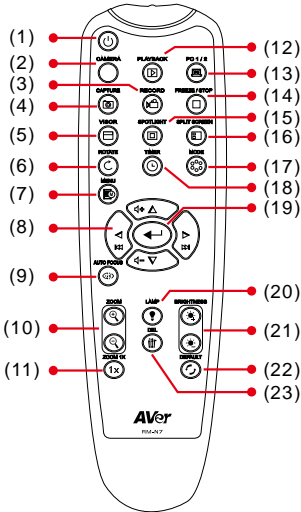


(fig. 1.5)

Name	Function
(1) MENU	Open and exit the OSD menu.
(2) RECORDING	Start/Stop audio & video recording. Audio and video recording can be saved on a SD card or an USB Flash drive only. See External Memory Storage
(3) CAP/DEL	<ul style="list-style-type: none"> - Capture picture in Camera mode. In continuous capture mode, press this button again to stop. - Delete the selected picture/video in Playback mode.
(4) PLAYBACK	View & playback captured still images and audio video files.
(5) FREEZE / STOP	<ul style="list-style-type: none"> - Pause or resume image display in Camera mode. - Stop audio & video playback in Playback mode.
(6) Built-in MIC	Record audio automatically when recording video clip.
(7) CAMERA / PC	Switch between Camera and Computer.
(8) ← ↑ → ↓	<ul style="list-style-type: none"> - Pan and zoom-in image (above digital zoom level) in both live and playback mode. - Select options in OSD menu. - Use B Á c [Á] and decrease the video playback volume. - W • ^ Á B Á c [Á] æ ^ Á ç @ ^ Á ç â á ^ [Á à æ & \ , - Move the Spotlight frame and Visor screen cover.
(9) ZOOM IN	Increase the image magnification in camera and picture playback mode.
(10) ZOOM OUT	Decrease the image magnification in camera and picture playback mode.
(11) ENTER	<ul style="list-style-type: none"> - Make a selection in Playback mode and OSD menu. - Start/Pause video playback.
(12) AUTO FOCUS	Adjust the focus automatically.
(13) LAMP	Turn the overhead light on/off.

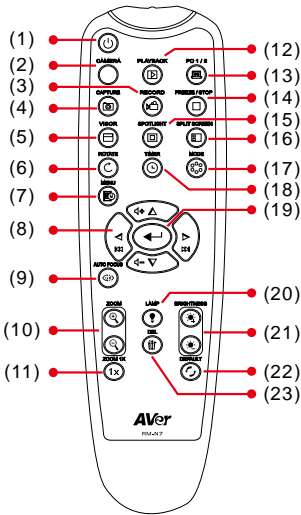
Remote Control

The remote control requires two (2) AA batteries to be installed properly before use. You can access all the features of AVerVision300AFHD with the remote.



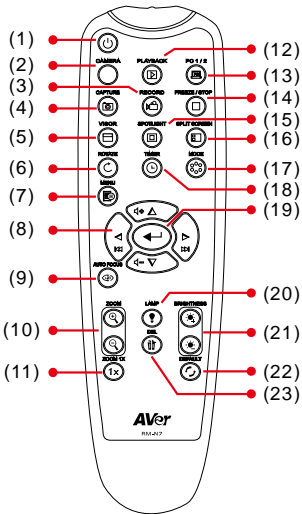
(fig. 1.6)

Name	Function
(1) POWER	Turn the unit on/standby.
(2) CAMERA	Camera mode displays the video signal from the built-in camera.
(3) RECORD	Start/Stop audio & video recording. Video recording can only be saved either in a SD memory card or a USB flash drive.
(4) CAPTURE	Capture still image in Camera mode. In continuous capture mode, press this button again to stop.
(5) VISOR	Call the Visor submenu. Visor covers part of the presentation screen and allow presenter to reveal the material as desire. In the Visor submenu, the following options are available. <div> </div> <p>ON/OFF . select to run/cancel the Visor. Press to move to the next selection.</p> <p>Shade . set the opacity level of the covered area. The shaded area will completely turns black when it is set to level 100. Press to move to the next selection.</p> <p>OK . press for the setting to take effect. If you select ON, upper part of the presentation screen is slightly exposed. Use the to reveal more of the covered area; and OFF will close the submenu. To turn off Visor, press again.</p>
(6) ROTATE	Rotate the image by 90° in Camera mode and Playback mode.
(7) MENU	Open and exit the OSD menu.



(fig. 1.6)

Name	Function
(8) PLAYBACK	<p>Pan and zoom-in image (above digital zoom level) in both live and playback mode.</p> <ul style="list-style-type: none"> - Select options in OSD menu. - Use PLAYBACK [PLAYBACK] & PLAYBACK [PLAYBACK], the video playback volume. - PLAYBACK [PLAYBACK] PLAYBACK [PLAYBACK] backward and forward. <p>Move the Spotlight frame and Visor screen cover.</p>
(9) AUTO FOCUS	Adjust the focus automatically.
(10) ZOOM +/-	Increase/decrease the image magnification in camera and picture playback mode.
(11) ZOOM RESET	Reset zoom level to 100%.
(12) PLAYBACK	View the captured picture/video from the memory in 16-thumbnail images.
(13) PC 1/2	PC mode displays the video signal from the RGB INPUT port of V300AFHD.
(14) FREEZE / STOP	<ul style="list-style-type: none"> - Freeze live images. - Stop video playback.
(15) SPOTLIGHT	<p>Call the Spotlight submenu. Spotlight overlays a box frame on the presentation screen. You can adjust the box size and move it around. In the Spotlight submenu, the following options are available.</p> <div> </div> <p>ON/OFF . select to run/cancel the Spotlight. Press PLAYBACK [PLAYBACK] to move to the next selection.</p> <p>Shade . set the opacity level of the area outside the box. The shaded area will completely turns black when it is set to level 100. Press PLAYBACK [PLAYBACK] to move to the next selection.</p>



(fig. 1.6)







Name	Function
(15) SPOTLIGHT	<p>Color . select the Spotlight frame color. Press to move to the next selection.</p> <p>OK . press for the setting to take effect. If you select ON, the frame will appear and blink, use the buttons to adjust the frame size and press to set the desired size; and OFF will close the submenu.</p> <p>To turn off Spotlight, press again.</p>
(16) SPLIT SCREEN	<p>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.</p>
(17) MODE	<p>Select from 4 type of modes:</p> <p>Sharp - adjust the contrast along the edges making text appear more visible.</p> <p>Graphics - adjust the gradient of image.</p> <p>Motion - increase frame rate. Sufficient lighting is required when using this mode.</p> <p>Microscope - automatically adjust optical zoom for microscopic viewing.</p>
(18) TIMER	<p>Call the Timer submenu. Select to Start/Pause/Stop the timer countdown and set the timer duration.</p>
(19)	<ul style="list-style-type: none"> - Make a selection in Playback mode and OSD menu. - Play/Pause video playback.
(20) LAMP	<p>Turn the overhead light on/off.</p>
(21) BRIGHTNESS +/-	<p>Adjust the brightness.</p>
(22) DEFAULT	<p>Reset to factory default setting.</p>
(23) DEL	<p>Delete the selected picture/video in Playback mode.</p>

Making the Connections

Before making the connection, make sure the power of all devices are turned off. If you are not sure on where to connect, simply follow the illustrated connections below and also refer to the user manual of the device you are connecting the AVerVision300AFHD with.

Set the TV-RGB Switch Setting

The TV-RGB switch determines the display output selection. Switch it to RGB (right) to output signal using RGB/HDMI connection and TV (left) to output signal using RCA connection. (see fig. 1.4 # 6)

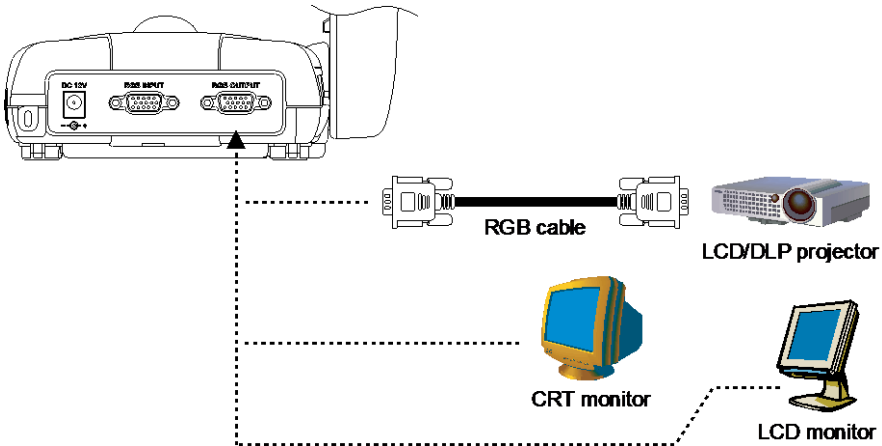
Switch	AVerVision Port		Display Device Port
RGB	 RGB OUTPUT	To	 RGB INPUT
	 HDMI OUTPUT		 HDMI INPUT
TV	 RS232/CVBS (use RS-232/CVBS cable)		 VIDEO IN

Connect to a Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the graphics display device and connect it to RGB OUTPUT port of AVerVision300AFHD.



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

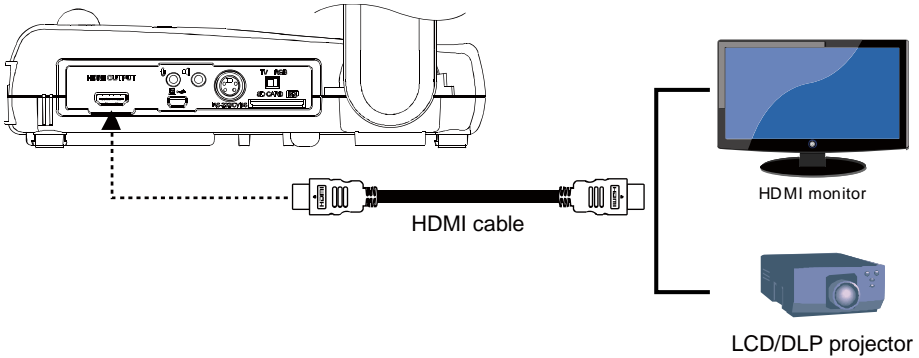


Connect to a Monitor or LCD/DLP Projector with HDMI interface

Locate the HDMI input port of the display device and connect it to HDMI output port of AVerVision300AFHD.

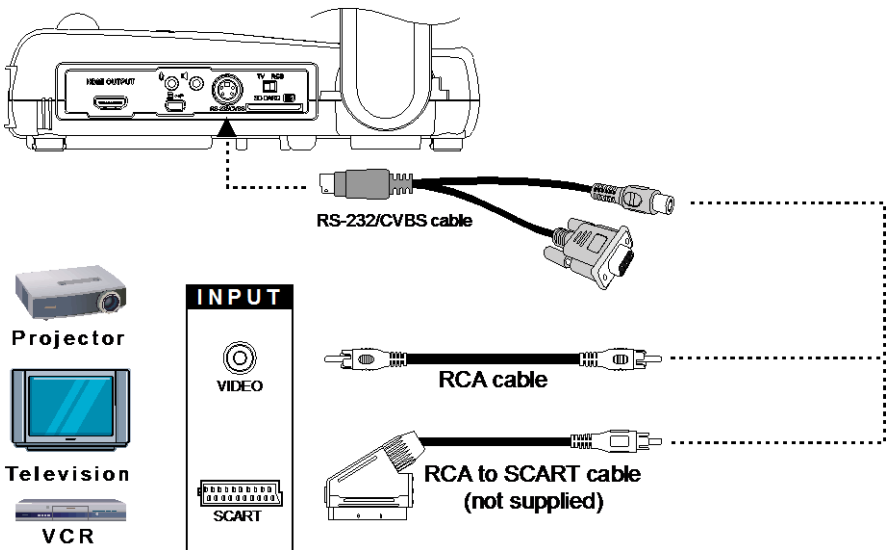


Make sure the TV/RGB switch is set to RGB.




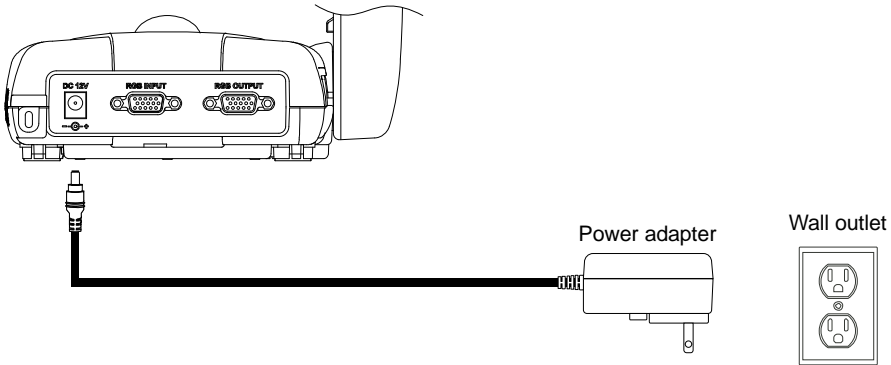
Connect to a TV

Locate the VIDEO or SCART RGB (if applicable) input port of the TV or Video equipment (i.e., VCR) to record your presentation and connect it to RCA jack of RS-232/CVBS cable.



Connecting the Power

Connect the power adapter to a standard 100V~240V AC power outlet. The unit automatically in standby mode once the power is connected. Press  to turn on.

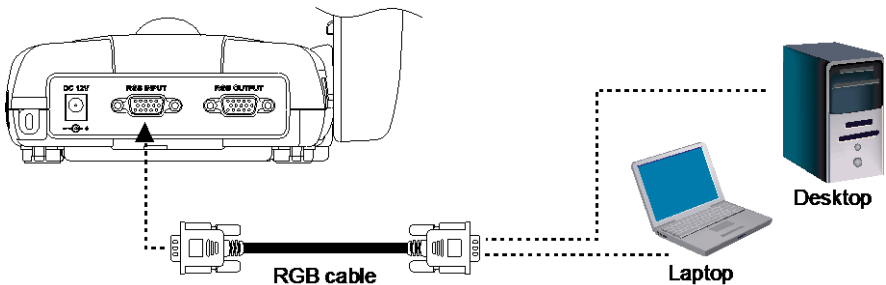


Connect to a Computer

Locate the RGB (VGA) output port of the computer or laptop and connect it to RGB INPUT port of AVerVision300AFHD. The video signal from the RGB INPUT port is streamed to RGB OUTPUT port.



- To display computer image, press Camera/PC button on the control panel or remote control to switch AVerVision300AFHD to computer mode.
- For laptop to output display image, use the keyboard command (FN+F5) to switch between the display modes. For different command, please refer to your laptop manual.

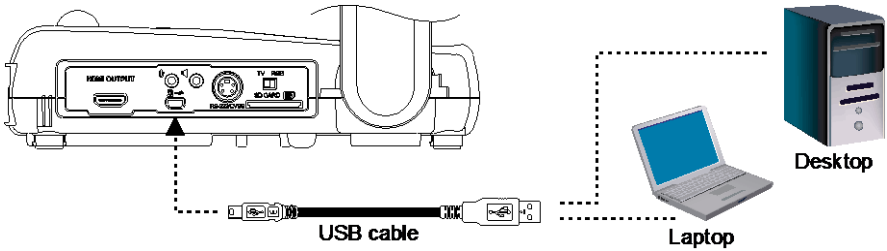


Connect to a Computer via USB


Locate the USB port of the computer or laptop and connect it to USB port of AVerVision300AFHD. This enables you to use AVerVision300AFHD as a USB Camera or to transfer the captured pictures/videos from the memory and to computer. Also • ^ ^ Á %oV ! æ }
File from AVerVision300AFHD c [Á Ú Ô + È Á

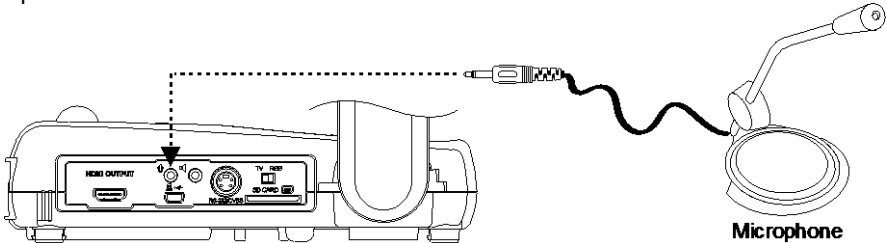


Make sure the USB Flash Drive switch (see fig. 1.2 #1) is set to the left.



Connect an External Microphone

Plug a 3.5mm mono microphone to  port. The built-in microphone on the control panel will be disabled when an external microphone is connected. The recorded audio will be in monophonic sound.

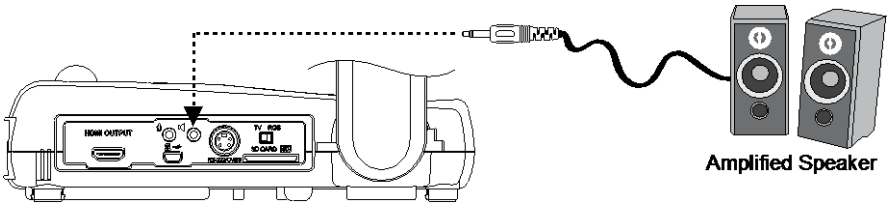


Connect an Amplified Speaker

Plug a 3.5mm plug amplified speaker to  port. Only the audio from the video playback is supported.





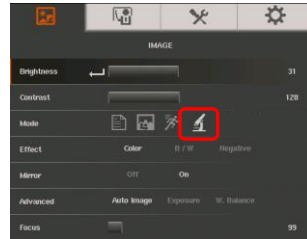
We recommend connecting an amplified speaker to the Audio output port. Take caution when using earphones. Adjust the volume down on the remote to prevent hearing damage due to loudness.



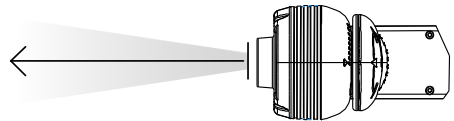
Connect to a Microscope

Connect the AVerVision300AFHD to a microscope enables you to examine microscopic objects on a big screen.

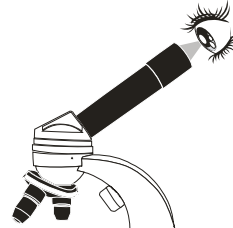
1. Change the image display mode to Microscope. Press **MENU** > select **IMAGE** tab > select **MODE** > select  (**microscope**) and press .



2. Aim the camera head at the farthest point and press **AUTO FOCUS**.



3. Adjust the focus of the microscope.



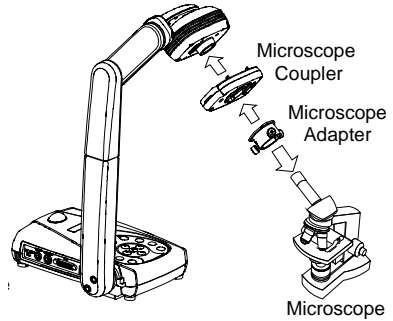
4. Select the appropriate coupler size for the microscope eyepiece and insert it in the microscope adapter.

- Remove the microscope eyepiece from the microscope and connect it to the microscope adapter. Fasten the 3 bolts until the adapter secures the eyepiece.



For the eyepiece, we suggest using 15.5mm eye relief or higher.

- Attach the microscope microscope coupler to the AVerVision camera head. Then connect it to the AVerVision and microscope.

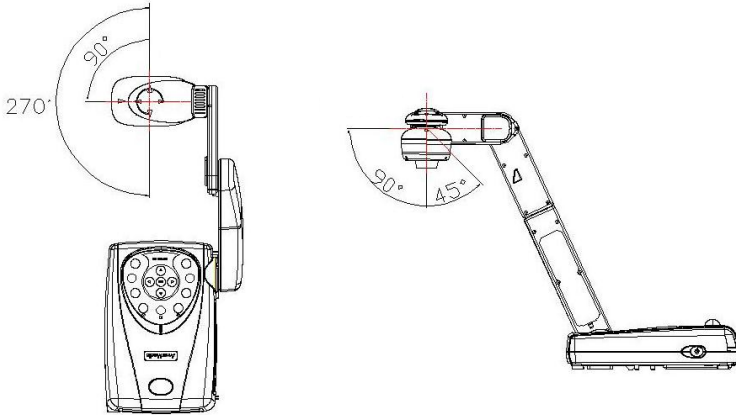


Setting Up AVerVision300AFHD

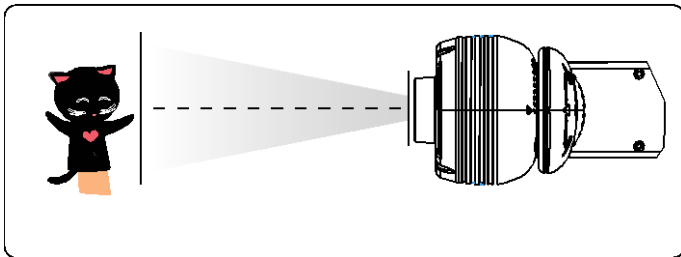
This section provides useful tips on how to adjust the AVerVision300AFHD to meet your needs.

Camera Head

The camera head can turn freely at 90° to the left and right and up and down.

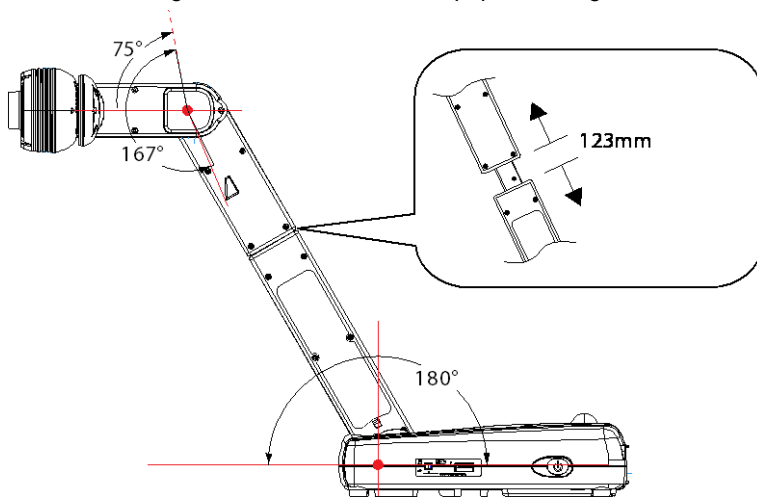


If the camera head is in upright position, you can also press ROTATE on the remote control twice to rotate the image in 180°.



Mechanical Arm

The mechanical arm design can extend for a full A4 paper viewing.



Infrared Sensor

Aim the remote control at the infrared sensor to operate the unit.

