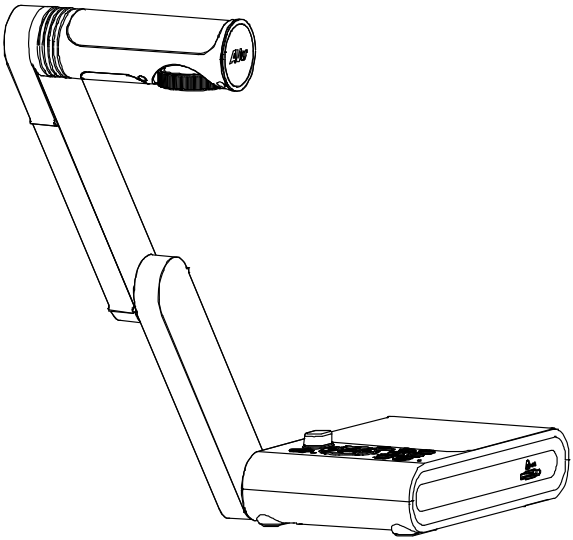
www.aver.com



AVerVision M17-13M

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules.
The 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.

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 2014/30/EU.

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.

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.

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NOTICE

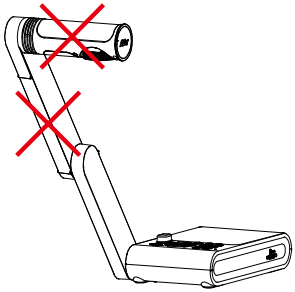
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

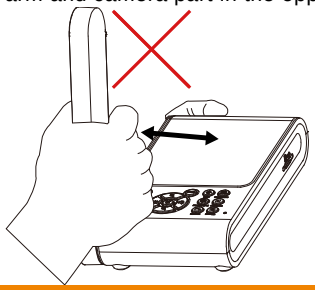
TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Warranty will be void if any unauthorized modifications are done to the product.
- Do not drop the camera or subject it to physical shock.
- Use the correct power supply voltage to avoid the damaging camera.
- Do not place the camera where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- Hold the bottom of the camera with both hands to move the camera. Do not grab the lens or Flexible arm to move the camera.



- Do not pull the mechanical arm and camera part in the opposite direction.



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 a 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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Toll-free: 1(877)528-7824

Local: 1(408)263-3828

Support.usa@aver.com

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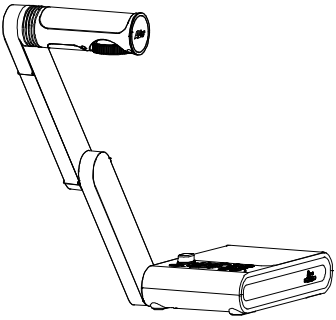
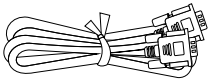
Package Contents

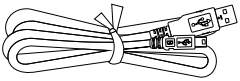
Make sure the following items are included in the package.



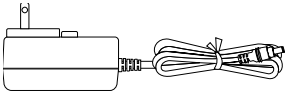
AVerVision M17-13M



RGB Cable

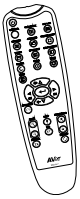


USB Cable



Power Adapter (12V, 2A)

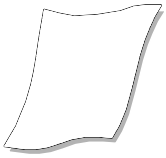
* The power adapter will vary depending on the standard power outlet of the country where it is sold.



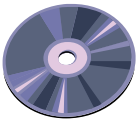
Remote Control
(batteries included)

Optional Accessories

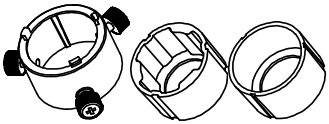
Carrying Bag



Anti-glare Sheet



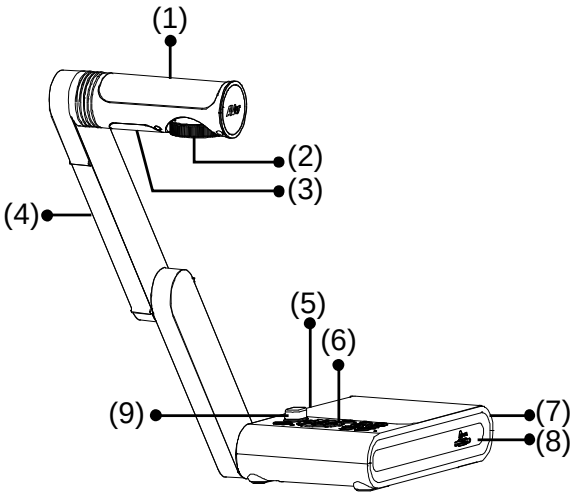
Software CD



Microscope Adapter

(28mm and 34mm Rubber Coupler are included)

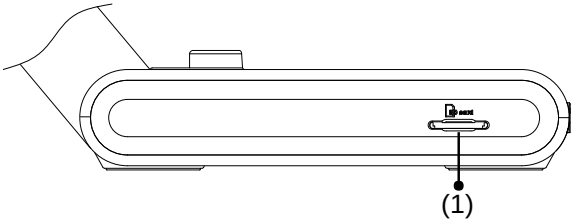
Get Familiar with the AVerVision M17-13M



(*fig. 1.1*)

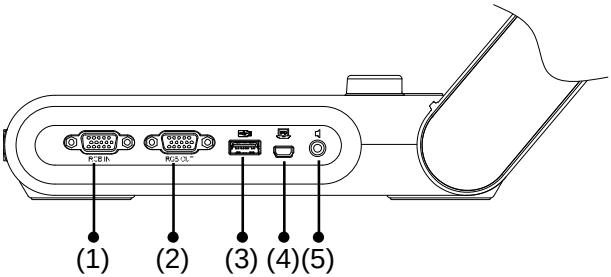
Name	Function
(1) Camera head	Contain the camera sensor.
(2) Camera lens	Focus the image in the camera.
(3) LED light	Provide light to enhance the lighting condition.
(4) Mechanical arm	Provide adjustable viewing coverage.
(5) Left panel	Connections for computer, RGB external display device, and USB to PC.
(6) Control panel	Easy access to various functions.
(7) Rear panel	Connections for power, HDMI output/input external display device and antitheft Kensington security lock compatible slot.
(8) Right panel	SD card slot.
(9) IR sensor	Receive remote control commands.

Right Panel



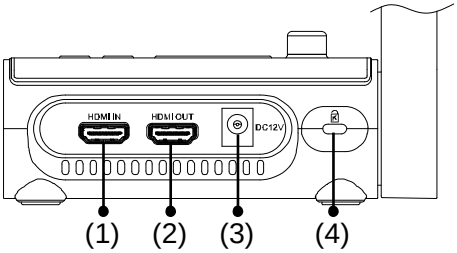
Name	Function
(1) SD card slot	Insert the SD card with the label facing up. SD card can save capture image and record video file.

Left Panel



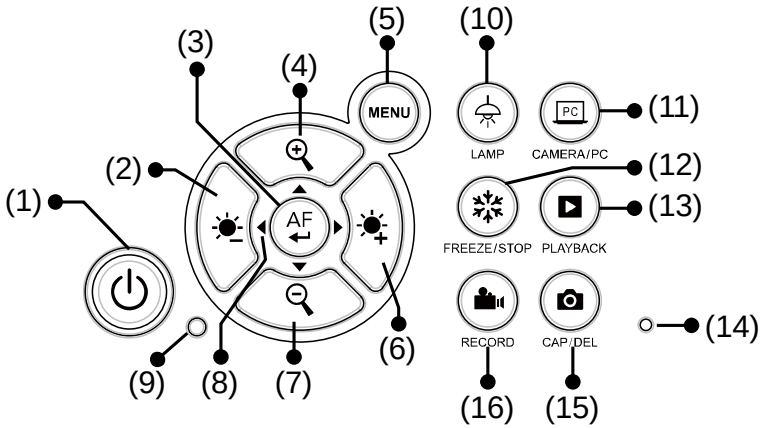
Name	Function
(1) RGB IN port	Input the signal from a computer or other sources and pass it through to the RGB OUT port only. Connect this port to the RGB/VGA output port of a computer.
(2) RGB OUT port	Connect the AVerVision M17-13M to any display device with RGB cable.
(3) USB port	Insert a USB flash drive to save the images/video directly from the USB flash drive or use a USB mouse to annotate.
(4) USB mini port	Connect to a USB port of a computer with a USB cable and use AVerVision M17-13M as a USB camera or transfer the captured images/videos from the memory source to the computer.
(5) Audio Out port	Connect to an amplified speaker to playback recorded audio & video clip.

Rear Panel



Name	Function
(1) HDMI IN port	Connect an external HDMI source as an input via this port. Connect this port to the RGB/HDMI output port of a computer.
(2) HDMI OUT port	Output the video signal from the main system on an interactive flat panel, an LCD monitor or LCD/DLP projector with HDMI interface using HDMI cable.
(3) DC12V	Connect the power adapter into this port.
(4) Antitheft Slot	Attach a Kensington compatible security lock or anti-theft device.

Control Panel

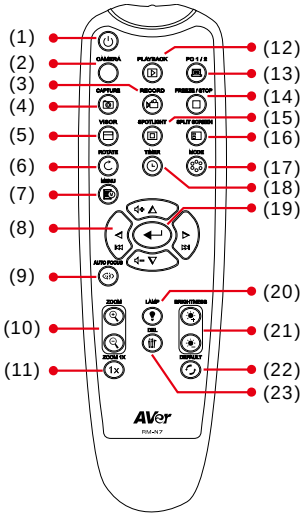


Name	Function
(1) POWER	Turn the unit on/standby mode.
(2) ☀−	Adjust the brightness.
(3) AF	- Make a selection in Playback mode and OSD menu. - Start/Pause video playback. - Adjust the focus automatically.
(4) 🔍+	Increase the image magnification in the camera and picture playback mode.
(5) MENU	Open and exit the OSD menu and submenu.
(6) ☀+	Adjust the brightness.
(7) 🔍−	Decrease the image magnification in camera and picture playback mode.
(8) ▲,▼,◄, & ►	- Pan and zoom-in image (above digital zoom level) in both live and playback mode. - Select options in OSD menu. - Use ▲&▼ to increase and decrease the video playback volume. - Use ◄&► to play the video backward and forward. - Move the Spotlight frame and Visor screen cover.
(9) Power LED	- **Red:** Standby - **Green:** RGB/HDMI output
(10) LAMP	Turn the overhead light on/off.
(11) CAMERA / PC	Switch the video signal between camera or computer from the RGB or HDMI IN port.

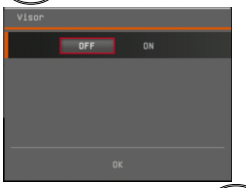
Name	Function
(12) FREEZE/STOP	- Pause or resume image display in Camera mode. - Stop audio & video playback in Playback mode. - Press it to switch to annotation mode (The image is still.). To exit annotation mode, press Freeze/Stop button again. - Press it for **3** seconds to switch to annotation mode (The image is live). To exit annotation mode, press Freeze/Stop button for **3** seconds again.
(13) PLAYBACK	View & playback captured still images and video files.
(14) Built-in MIC	Record audio when recording a video clip. The recorded sound will be in monophonic.
(15) CAP/DEL	- Capture picture in Camera mode. In continuous capture mode, press this button again to stop. - Delete the selected picture/video in Playback mode.
(16) RECORDING	Start/Stop audio & video recording. Audio and video recording can be saved on an SD card or a USB Flash drive only. See External Memory Storage.

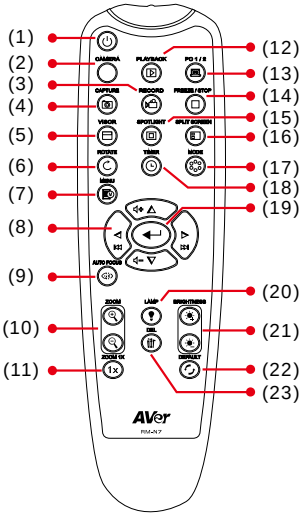
Remote Controller

The remote control requires two (2) “AAA” size batteries (provided), make sure batteries are installed properly before use. You can access all the features of AVerVision M17-13M with the remote.

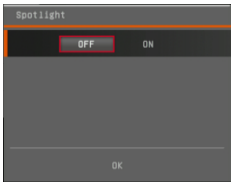


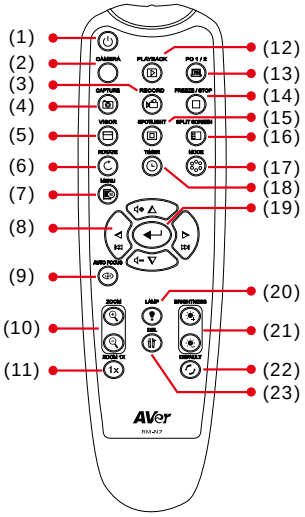
(*fig. 1.6*)

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 an 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 allows the presenter to reveal the material as desired. In the Visor submenu, select **ON**/**OFF** to enable/disable visor function. Press ↵ to move to the next selection.  After selecting, press ↵ for the setting to take effect. If you select ON, upper part of the presentation screen is slightly exposed. Use the ▲,▼,◄, & ► buttons to reveal more of the covered area; and OFF will close the submenu. To turn off Visor, press VISOR again.
(6) ROTATE	Rotate the image by 0/180° in Camera mode and Playback mode.
(7) MENU	Open and exit the OSD menu.

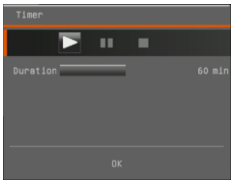


(*fig. 1.6*)

Name	Function
(8) ▲,▼,◄, & ►	- Pan and zoom-in image (above digital zoom level) in both live and playback mode. - Select options in OSD menu. - Use ▲&▼ to increase and decrease the video playback volume. - Use ◄&► to play the video backward and forward. Move the Spotlight frame and Visor screen cover.
(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/HDMI INPUT port of M17-13M.
(14) FREEZE / STOP	- Freeze live images. - Stop video playback.
(15) SPOTLIGHT	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, select **ON**/**OFF** to enable/disable spotlight function. Press ↵ to move to the next selection.  After selecting, 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. To turn off Spotlight, press SPOTLIGHT again.



(*fig. 1.6*)

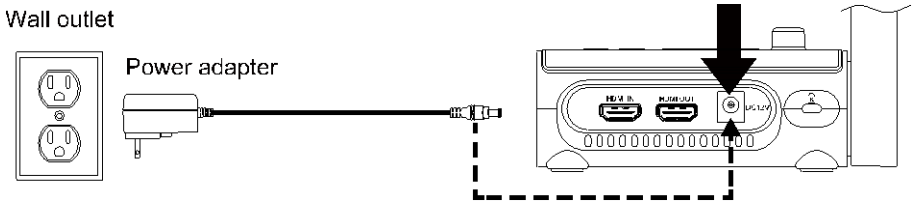
Name	Function
(16) SPLIT SCREEN	Divide the screen into two. One side displays the live image from the built-in camera and the other side displays 8-thumbnail size picture/video from the memory.
(17) MODE	Select from 3 type of modes: **Normal** - adjust the gradient of image. **High frame rate mode** - increase frame rate. Sufficient lighting is required when using this mode. **Microscope** - automatically adjust optical zoom for microscopic viewing.
(18) TIMER	Call the Timer submenu. Select to Start/Pause/Stop the timer countdown and set the timer duration. 
(19) ↵	- Make a selection in Playback mode and OSD menu. - Play/Pause video playback.
(20) LAMP	Turn the overhead light on/off.
(21) BRIGHTNESS +/-	Adjust the brightness.
(22) DEFAULT	Reset to factory default setting.
(23) DEL	Delete the selected picture/video in Playback mode.

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 AVerVision M17-13M with.

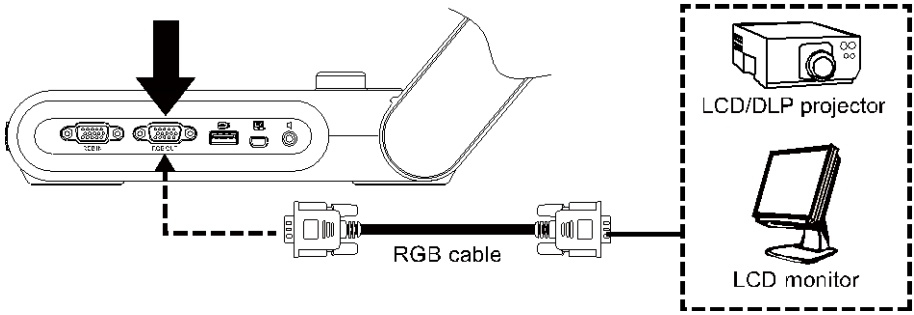
Connecting the Power

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.



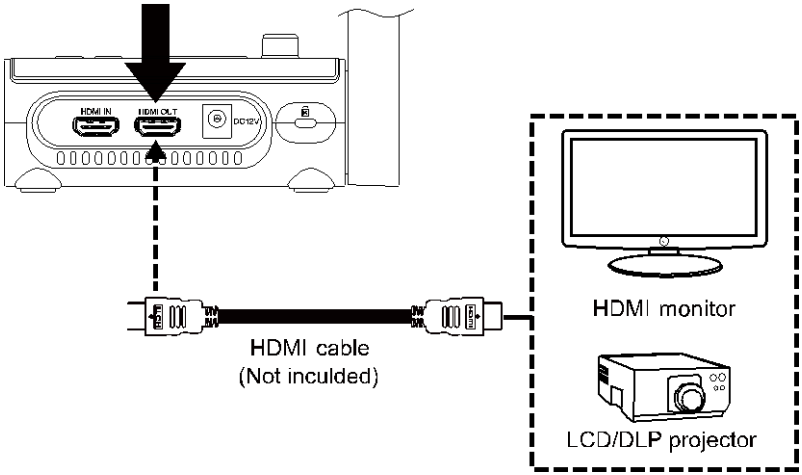
Connect to a Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the graphics display device and connect it to RGB OUT port of AVerVision M17-13M.



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

Locate the HDMI input port of the display device and connect it to HDMI out port of AVerVision M17-13M.

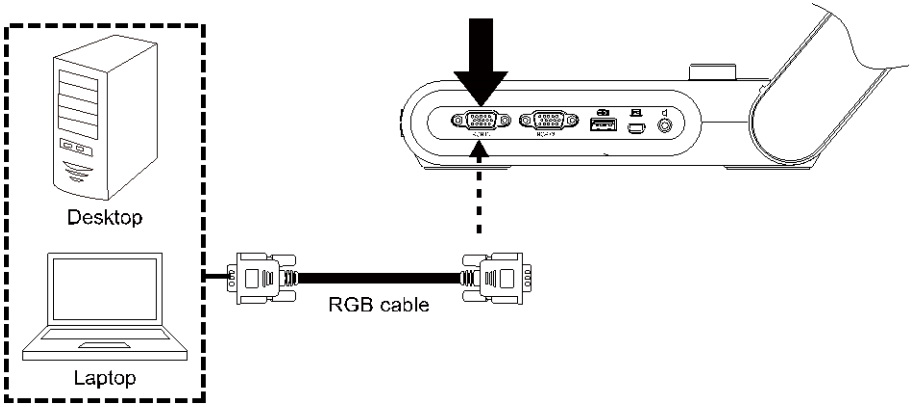


Connect to a Computer

Locate the RGB (VGA) output port of the computer or laptop and connect it to RGB IN port of AVerVision M17-13M. The video signal from the RGB IN port is streamed to RGB OUT.

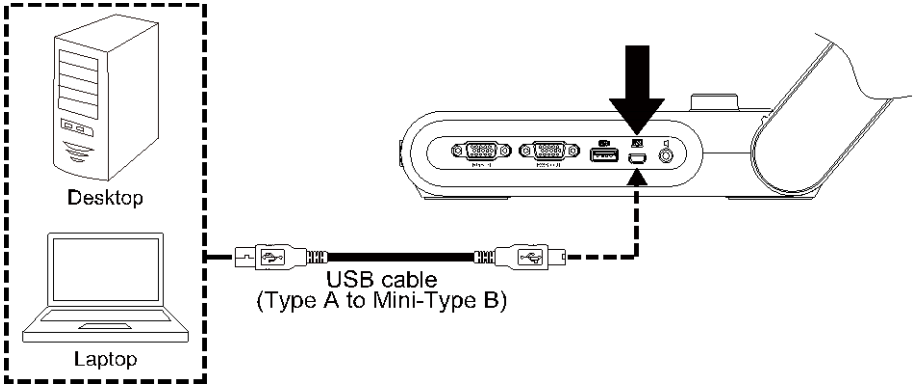
[Note]

- To display computer image, press **Camera/PC** button on the control panel or remote control to switch AVerVision M17-13M 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 PC port of AVerVision M17-13M.

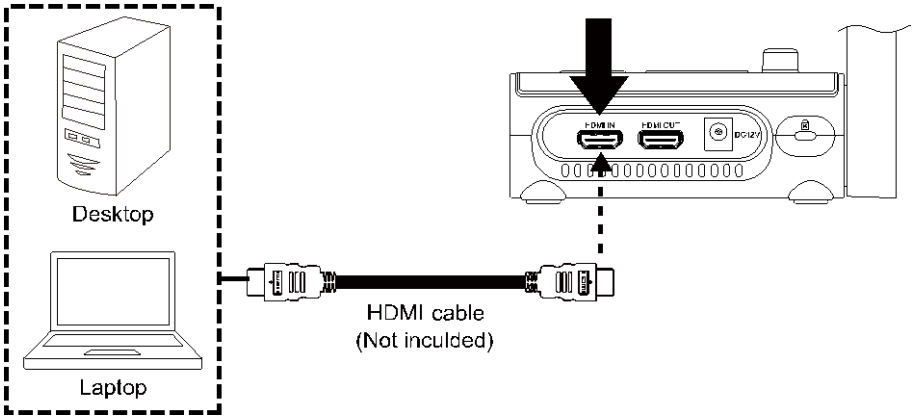


Connect to a Computer with HDMI Input

Locate the HDMI output port of the computer of laptop and connect it to HDMI in port of AVerVision M17-13M.

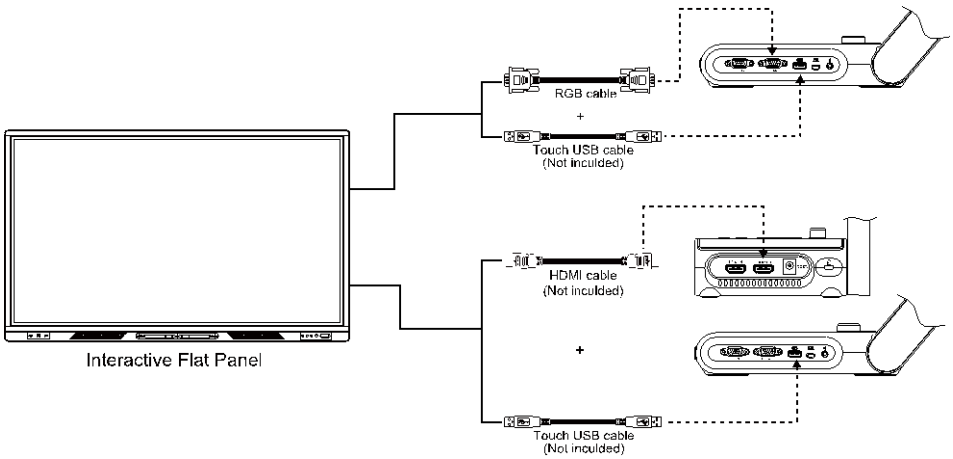
[Note]

- To display computer image, press **Camera/PC** button on the control panel or remote control to switch AVerVision M17-13M 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 an Interactive Flat Panel via USB

There are 2 ways to connect with interactive flat panel:

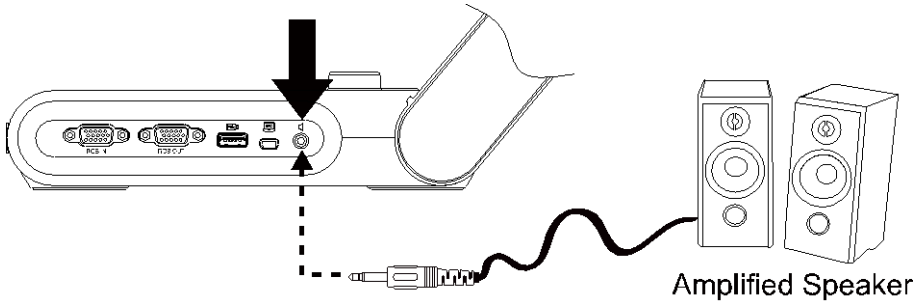


Connect an Amplified Speaker

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

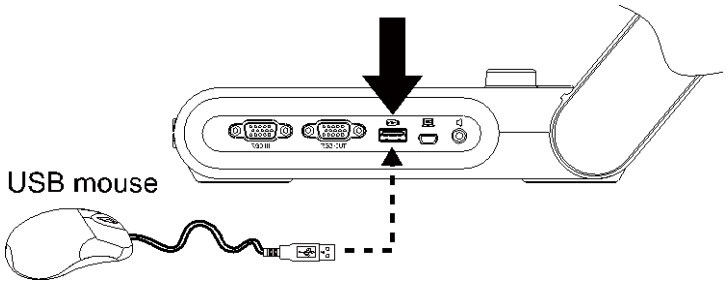
[Note]

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 Mouse

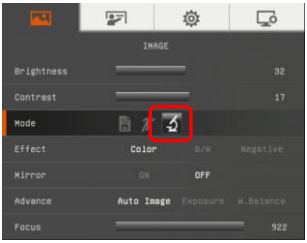
Connect a USB mouse to the USB of M17-13M. Using mouse can operate the annotation function.



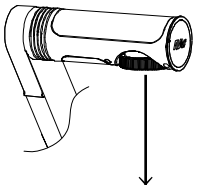
Connect to a Microscope

Connect the AVerVision M17-13M to a microscope enables you to examine microscopic objects on a big screen.

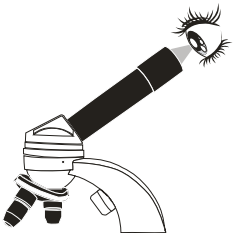
1. Change the image display mode to Microscope. Press **MENU** > select **IMAGE** tab > select **MODE** > select **(microscope)** and press(↵).



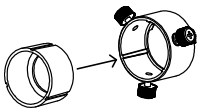
2. Aim the camera head at the farthest point and press **AUTO FOCUS**.



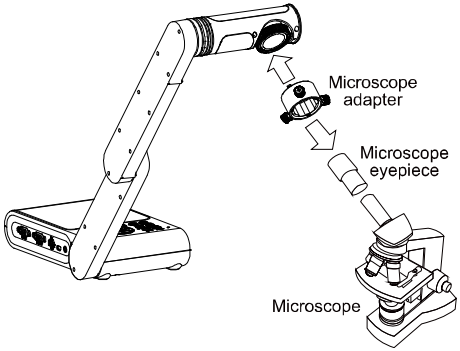
3. Adjust the focus of the microscope.



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



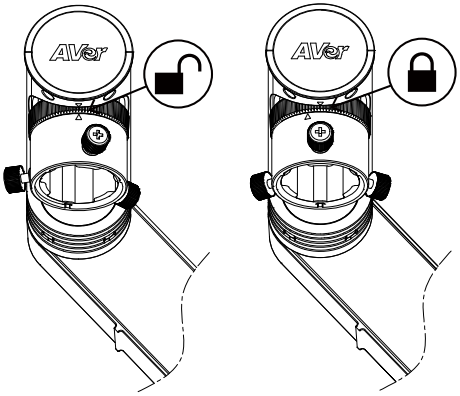
5. Remove the microscope eyepiece from the microscope and connect it to the microscope adapter with the rubber coupler inserted. Fasten the 3 bolts until the adapter secures the eyepiece.



- For the eyepiece, we suggest using 33mm eye relief or higher.
- Do the adjustment manually to get better image view.

6. Attach the microscope adapter to the AVerVision camera head. Then connect it to the AVerVision and microscope.

Make sure the arrows on the camera and microscope adapter are aligned and rotated to the left and locked.

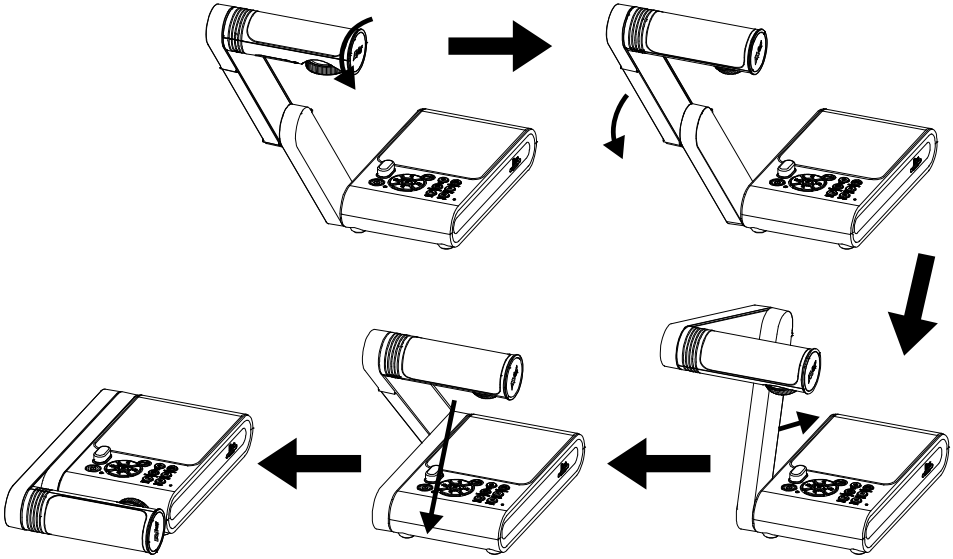


Setting Up AVerVision M17-13M

This section provides useful tips on how to adjust the AVerVision M17-13M to meet your needs.

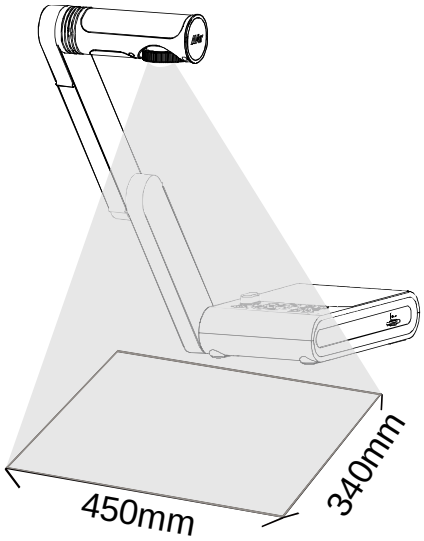
Storing the Document Camera

Please follow the below figure to store the document camera.

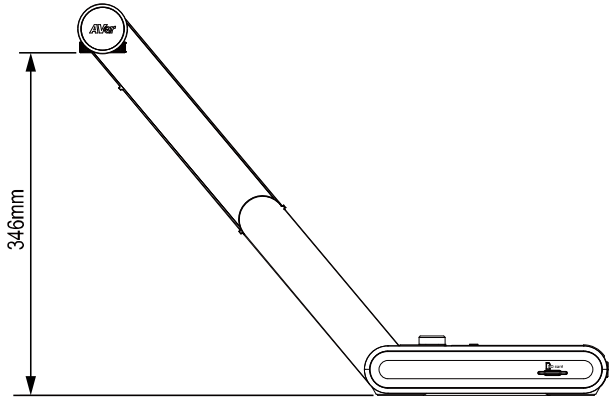


Shooting Area

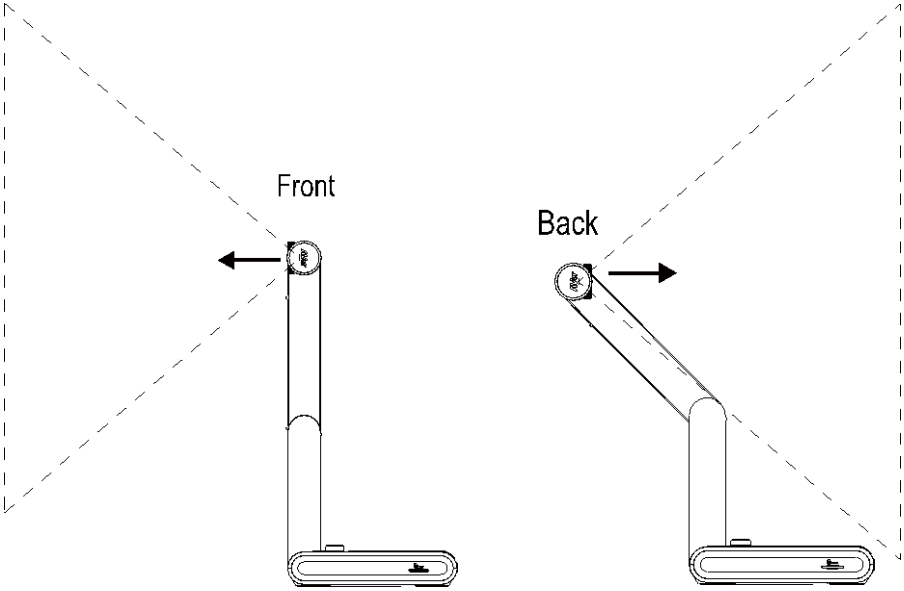
The shooting area can view an area of 450 x 340mm at maximum (at1024x768).



When camera position is 346mm high, the shooting area will be A3 size.

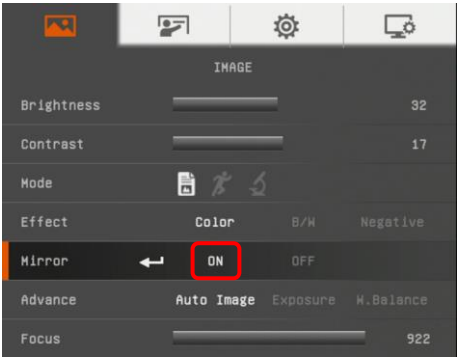


Also, the camera shooting positon can be face to front and back side as below figure shown.



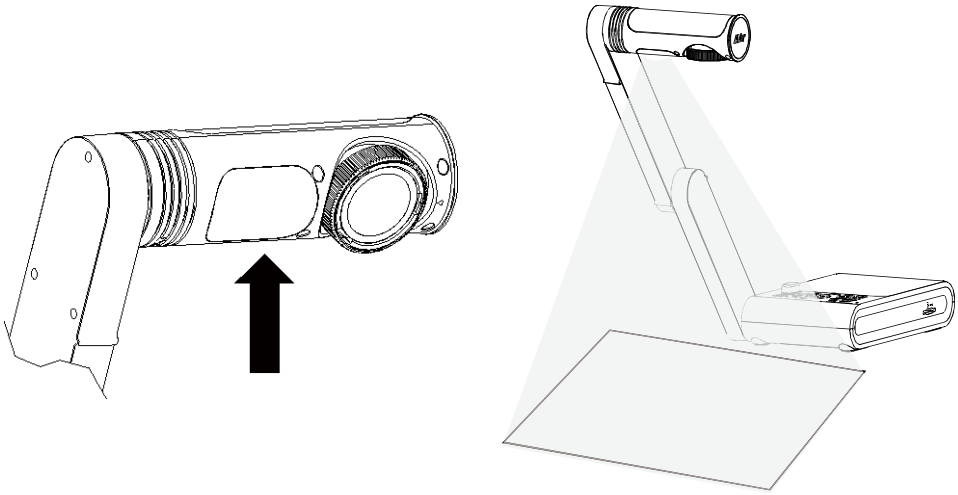
Press **ROTATE** on the remote control twice to rotate the image in 180°.

To mirror the image, press **MENU** > select **Mirror**, press ↵, and select "**On**".



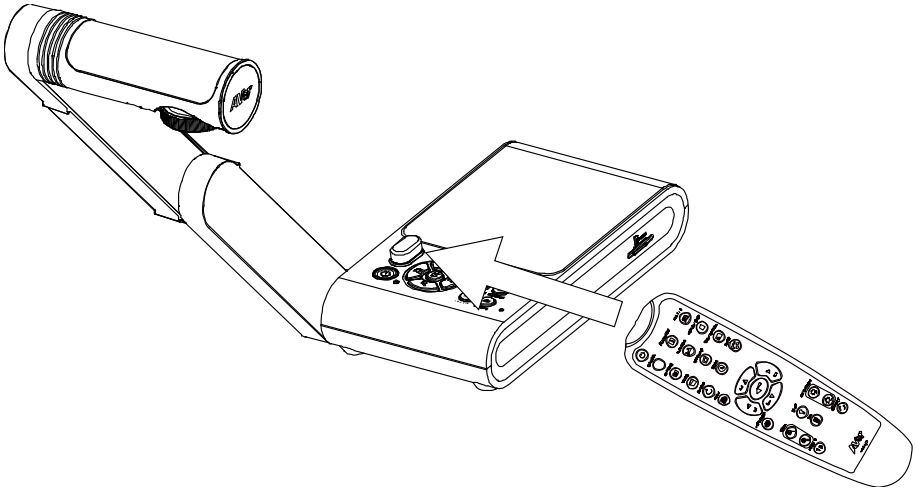
Overhead Light

Press LAMP button on the control panel or remote control to turn on and off light.



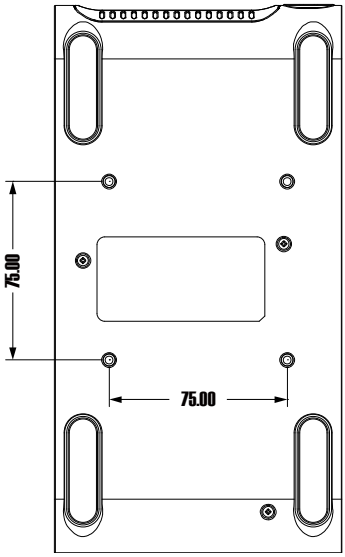
Infrared Sensor

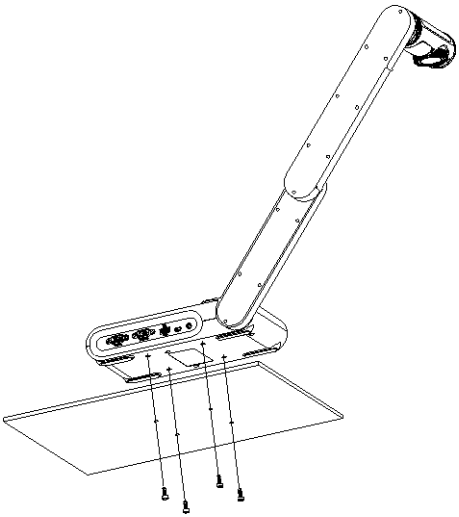
Aim the remote control at the infrared sensor to operate the unit.



Mounting the M17-13M on a Flat Surface

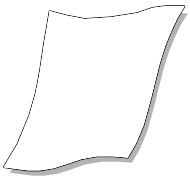
Measure and mark the horizontal of 75 mm from the center line distance between the holes on the flat surface as describe in the illustration below. Use 2 or 4 pieces of M4.0 screws for 6 mm holes and secure the M17-13M on the flat surface.





Anti-glare Sheet

The anti-glare sheet is a special coated film that helps eliminate any glare that maybe encountered while displaying very shiny objects or glossy surfaces such as magazines and pictures. To use, simply place the anti-glare sheet on top of the shiny document to reduce reflected light.

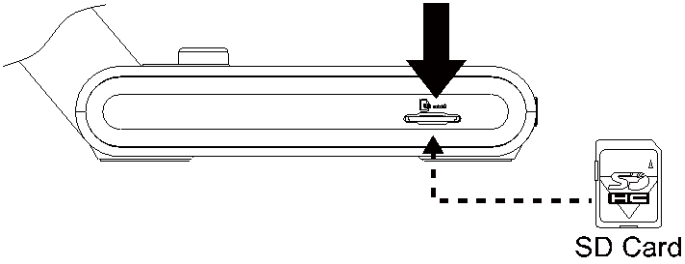


External Memory Storage

AVerVision M17-13M supports both SD memory card and USB flash drive for more image capture and audio & video recordings. AVerVision M17-13M can detect when there is an external storage media and automatically switch to the last detected storage. If no external storage is connected, all captured still images will be saved in the built-in memory.

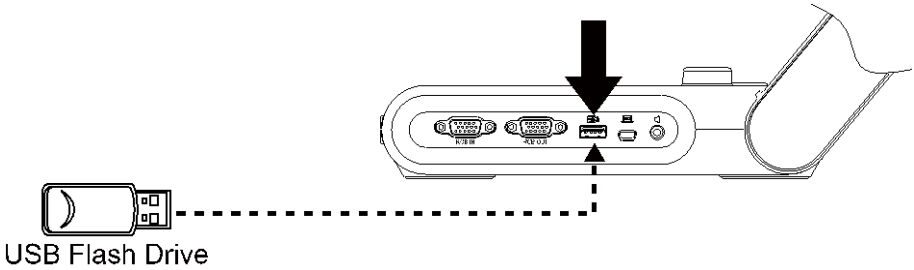
Insert an SD Card

Insert the card with the contact facing down until it reaches the end. To remove the card, push to eject and pull the card out. The supported SD card capacity is from 1GB to 32GB (FAT32). We recommend using SDHC card with class-6 or above for high quality recording.



Insert a USB Flash Drive

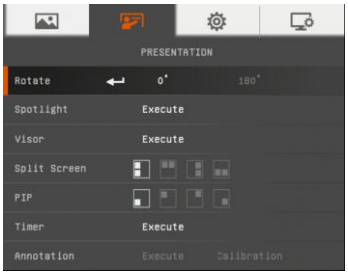
Connect the USB flash drive in the USB slot. AVerVision M17-13M can support USB flash drive from 2GB to 64GB (FAT32). **Best to format the USB flash drive using AVerVision M17-13M for better video recording**.



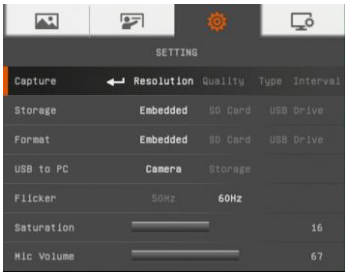
OSD MENU

There are 4 tabs on the OSD menu: IMAGE, PRESENTATION, SETTING and SYSTEM. In Playback mode, you can access PLAYBACK OSD menu to enable the Slide Show feature and modify Slide Show interval and transition setting if desire.

IMAGE

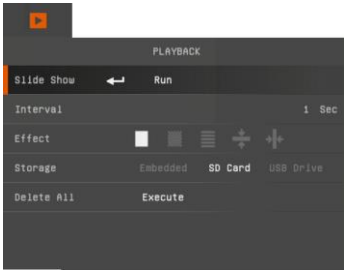


PRESENTATION



SETTING

SYSTEM



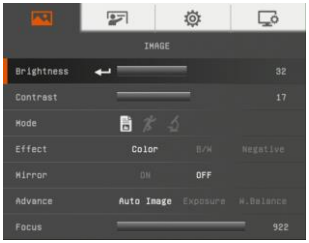
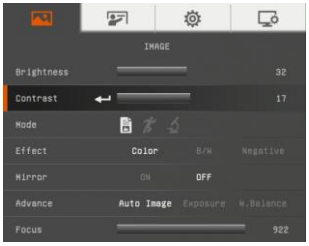
PLAYBACK

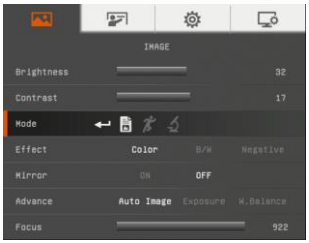
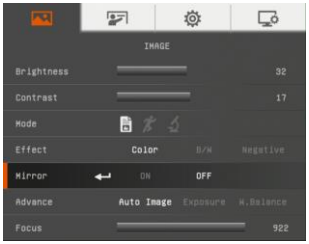
ANNOTATION

Navigate the Menu and Submenu

1. Press MENU button on the remote or control panel.
2. Press ► and ◄ to toggle between tabs
3. Press ▼ and ▲ to choose a selection in the menu list.
4. Press ↵ to make a selection.
5. Use ► and ◄ to adjust the setting or make a selection.
6. Press ↵ to enter submenu.
7. Press **MENU** to close the OSD menu.

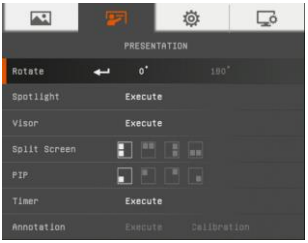
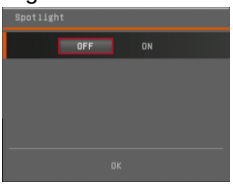
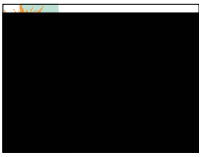
Image

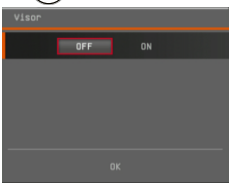
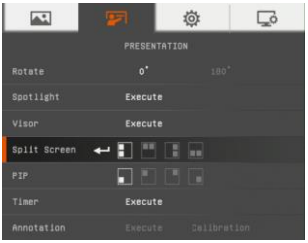
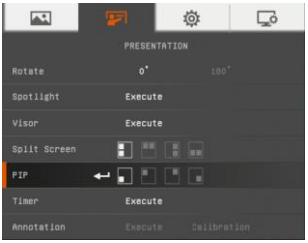
Menu Screen	Function
	**Brightness** Adjust brightness level manually between 1 and 64.
	**Contrast** Adjust the contrast level manually between 1 and 32 under bright and dark environments.

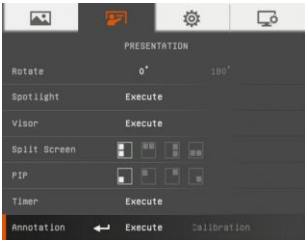
Menu Screen	Function
	**Mode** Select from the various image display settings. **Normal** - adjust the gradient of image. **High Frame Rate mode** - increase frame rate. Sufficient lighting is required when using this mode. **Microscope** - automatically adjust optical zoom for microscopic viewing.
	Effect Convert the image into positive (true color), monochrome (black and white) or negative.
	**Mirror** Select to flip the image in Camera mode.
	Advanced Select to set the Auto Image, Exposure, and White Balance settings.
	Auto Image Select ON or OFF to automatically adjust the white balance and exposure setting, and correct the color and exposure compensation.

Menu Screen	Function
	Exposure Select the exposure setting. **AUTO** - automatically adjust the camera exposure and the amount of light required. **MANUAL** - manually adjust the exposure level. The exposure can be adjusted up to 100.
	White Balance Select the White Balance setting for various light conditions or color temperature. **AUTO** - automatically adjust the white balance. **MANUAL** - manually adjust the red and blue color level. The color level can be adjusted up to 255.
	Focus Manually adjust the focus.

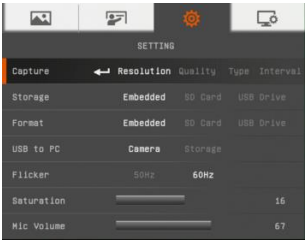
Presentation

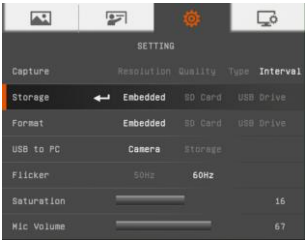
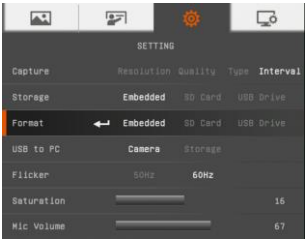
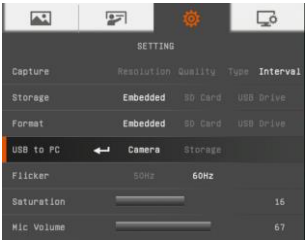
Menu Screen	Function
	**Rotation** Rotate the image by 0°/180°.
	Spotlight Spotlight overlays a frame on the presentation screen. You can move the Spotlight around the presentation screen using the ▲,▼,◄, & ► buttons. Select Execute to call the Spotlight submenu. In the Spotlight submenu, select **ON** or **OFF** to enable/disable spotlight function.  After selecting, press ▼ move to "**OK**" and 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.
	Visor Visor covers the presentation screen. The upper part of the presentation screen is slightly exposed. Use the ▲,▼,◄, & ► buttons to reveal more of the covered area. Select Execute to call the Visor submenu. 

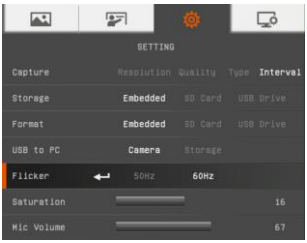
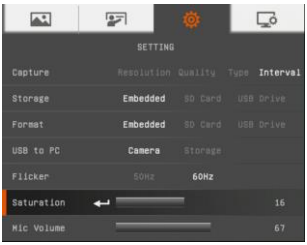
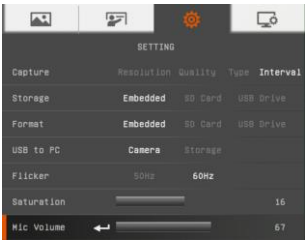
Menu Screen	Function
	In the Visor submenu, select **ON** or **OFF** to enable/disable visor function. Press ↵ to move to the next selection.  After selecting, press ▼ move to "**OK**" and press ↵ for the setting to take effect. If you select ON, upper part of the presentation screen is slightly exposed. Use the ▲,▼,◄, & ► buttons to reveal more of the covered area; and OFF will close the submenu.
	**Split Screen** Divide the screen into two parts. Half of the screen displays the 8-thumbnail images and the other half display the image from the AVerVision M17-13M camera. Select the display location of the 8- thumbnail playback images. Select OFF to cancel Split Screen. Left Right Top Below
	**PIP** Select the thumbnail playback screen location and show the thumbnail playback screen at the corner of the screen to recall the captured image from the memory in Camera mode. Select OFF to cancel PIP. Lower Left Upper Left Upper Right Lower Right
	Timer Start/Pause/Stop the timer and set the timer duration. The timer automatically counts up after the countdown reaches zero to show the elapsed time. Even when you switch between Playback, PC or Camera modes, the timer will continue.

Menu Screen	Function
	**Annotation** In playback mode and preview mode, user can use the annotation feature to overlay straight line or freeform line on the captured image or live image with the USB mouse connection. Also, user can use it with AVer interactive flat panel series via USB port to annotate and more. More detail, please refer to "**Annotation**" section in this manual. **Calibration:** To calibrate the image position follows the sequence on the screen for calibration when DocCam is connected with interactive flat panel.

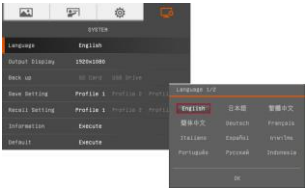
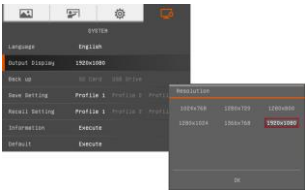
Setting

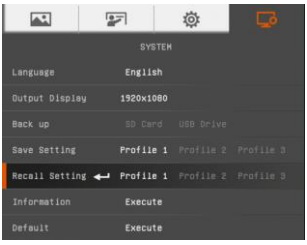
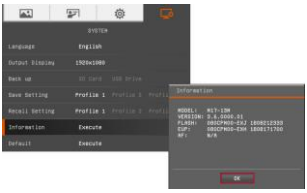
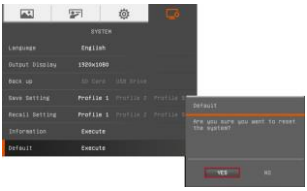
Menu Screen	Function
	**Capture** Select to set the capture resolution, quality, type and interval settings.
	Resolution Select the capture size. In 13M setting, the capture resolution size is 4208 x 3120.
	Quality Select the capture compression setting.

Menu Screen	Function
	Type Select the capture type. **Single** - capture one picture only. **Continuous** - capture successive pictures.
	Interval Set the time interval for continuous capture. The length can be set up to 600 sec (10 min).
	**Storage** Change the storage location. Audio & video recording can only be saved in SD memory card or USB flash drive.
	**Format** Format to delete all the data in the selected memory.
	**USB to PC** Select the status of the AVerVision M17-13M when it is connected to the computer via USB. **Camera** - can be used as a computer webcam or with our bundled software to record video and capture still image. **Storage** - transfer the captured pictures/videos from the memory to computer hard disk.

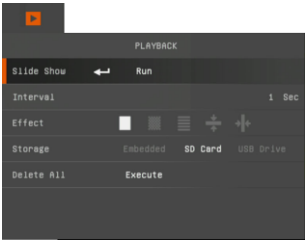
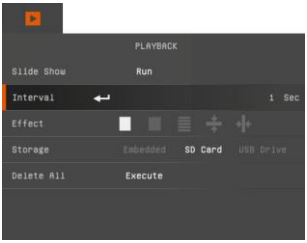
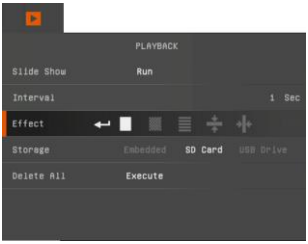
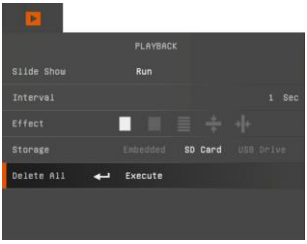
Menu Screen	Function
	**Flicker** Select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.
	**Saturation** Adjust the value of saturation.
	**MIC Volume** Adjust volume input of recording or USB audio input.

System

Menu Screen	Function
	**Language** Change and select different language.
	**Output Display** Set the resolution to display the image on screen. This selection will be disabled in TV output mode.

Menu Screen	Function
	Backup Copy the image from the built-in memory to SD card or USB flash drive.
	Save Setting Save current setting in the selected profile number. Only effect, mode, brightness and contrast settings can be saved.
	**Recall Setting** Restore the setting back to the selected profile number.
	**Information** Display the product information.
	**Default** Restore all the settings into original factory default setting.

Playback

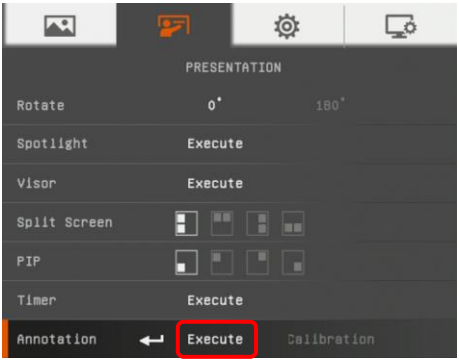
Menu Screen	Function
	**Slide Show** Display all captured still pictures in an automated slide show. The video file will be skipped.
	**Interval** Set the interval before displaying the next picture. The length can be set up to 100 sec.
	**Effect** Select the slide show transition effect. Slide image Checker down Wipe down Split Vertical Out Split Horizontal In
	Storage Select the source of the images.
	**Delete All** Permanently delete all the data in selected memory source. A Warning Message will appear. Select YES to continue and NO to stop formatting the storage.

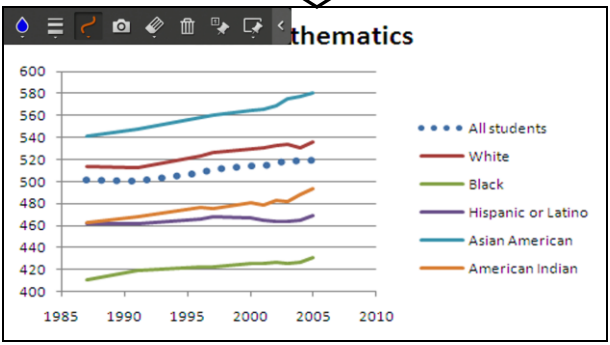
Annotation

In single image playback mode and preview mode, you can use the annotation feature to overlay straight line or freeform line on the captured image or live image with the USB mouse connected to the USB port of AVerVision M17-13M. Also, you can use it with AVer interactive flat panel series via USB port to annotate and more.

Switch to annotation mode:

- Press the "**Freeze/Stop** ( )" button on the DocCam panel for 3 seconds to switch to the annotation mode (The image is live).
- In OSD menu, select **PRESENTATION** > **Annotation** > **Execute** to switch to annotation mode.
-



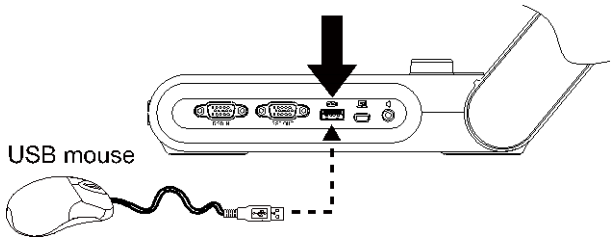


Exit the annotation mode:

- Press "**Menu**" button on the DocCam panel.
- Press the "**Freeze/Stop** ( )" button on the DocCam panel for 3 seconds.

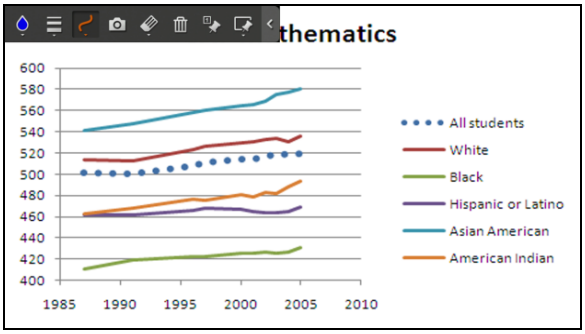
Connecting a USB mouse

Connect the USB cable to the USB slot of AVerVision M17-13M.

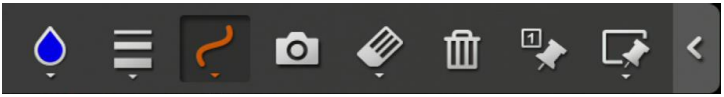


Using the Annotation

1. In camera mode, press (□)(Freeze/Stop) button to call out annotation menu.
2. In playback back mode, Press (▶) on the remote. Then, use the ▲,▼,◀, & ▶ buttons and select the image you want to annotate in the 16-thumbnail preview. Press (↵) to make a selection and display the image in full screen. The annotation menu will appear on the upper left corner of the screen.



3. Use the mouse and move the "+" cursor on the item in the annotation panel you want to use. Then left click the mouse button to make a selection.



Name	Function
Color Palette	Select the line color.
Line Thickness	Select the thickness of the line.
Line	Select to draw a straight line.
Freehand	Select to draw freeform line.
Capture	Capture the image with the annotation and save it as a new file.

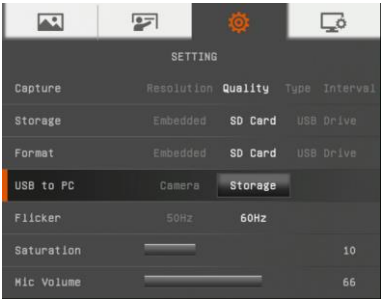
Name	Function
Eraser	Select to erase any part of the annotation that it comes in contact with or delete all annotation.
Delete	Clear all annotation on the screen.
and	Save up to 3 images temporarily for users to review / modify. Users can click on the rolling index to save up to 3 temporary images in the index. The forth saved image will replace the first index when the rolling index shows . To re-call any of the temporarily saved images, click on the following icon and select the corresponding index number .
Hide/Show	Collapse or expand the annotation menu.

Transfer Captured Images/Videos to a computer

This enables you to transfer the captured image from the built-in memory or SD to a computer.

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

1. **MUST** set the USB to PC as STORAGE before connecting the USB cable.



2. When "**Mass Storage**" appears at the lower right corner of the presentation screen, you may now connect the USB cable.
3. Upon connecting the USB cable, the system automatically detects the new removable disk. You can now transfer the captured image(s) from the **M17-13M built-in memory** to the computer hard disk.

Technical Specifications

Image

Sensor	1/3.06" VCM
Pixel Count	13 megapixels
Frame Rate	60 fps (max.)
White Balance	Auto / Manual
Exposure	Auto / Manual
Image mode	Normal / Microscope / High Frame
Effect	Color / B/W / Negative
RGB output	1920x1080, 1280x1024, 1280x720, 1024x768, 1280 x 800, 1366x768
HDMI Output	FHD 1080P
Image Capture	240 Frames(XGA)

Optics

Focusing	Auto / Manual
Shooting Area	450mm x340mm
Zooming	Total 35.2X (2.2X AVerZOOM™ + 16X Digital zoom)

Power

Power Source	DC12V/ 2A, AC 100-240V
Consumption	15Watts(lamp on); 14.2Watts(lamp off)

Lighting

Lamp Type	LED light

Input/Output

RGB Input	15-Pins D-sub (VGA)
RGB Output	15-Pins D-sub (VGA)
HDMI Output	HDMI
HDMI Input	HDMI
USB	USB2.0 and USB mini-B
DC 12V Input	Power Jack
MIC	Bulit-in
Audio Out	Phone Jack

Dimension

Operating	470mm(L) x 159mm(W) x 392mm(H) (+/-2mm include rubber foot)
Folded	281mm (L) x 159mm(W) x 56mm(H) (+/-2mm include rubber foot)
Weight	1.95 kg (about 4.3lbs)

External Storage

Secure Digital (SDHC)	1GB ~ 32GB (FAT32)
USB Flash Drive	2GB ~ 64GB (FAT32)

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision M17-13M.

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 M17-13M and make sure AVerVision M17-13M is in PC Mode.

I have set up the AVerVision M7-13M and checked all the connections as specified in the manual but I cannot get a picture on the preferred presentation screen.

Once the power is connected the unit is set to standby mode. Press the POWER button to turn on.

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. Press MENU then go to SYSTEM > Default and select YES in the OSD menu.
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 M17-13M and your PC.
2. Connect your PC to the AVerVision M17-13M 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.

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