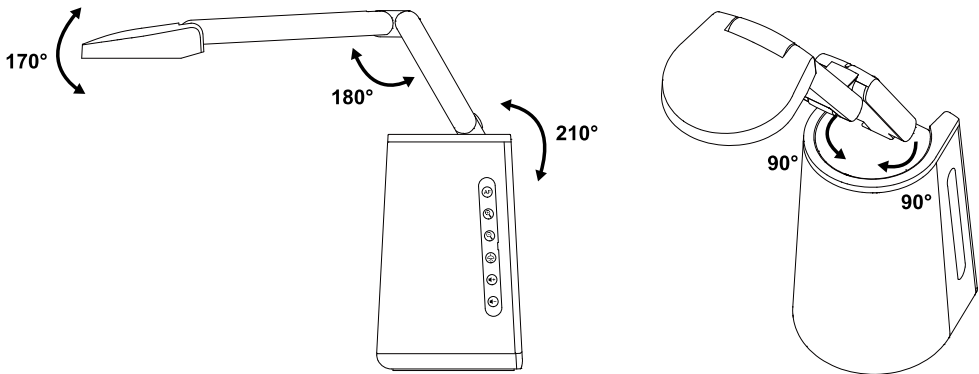


# **AVerVision A30 Universal Camera**

— User Manual —

## Warning



- Do not twist the camera arm while folding it.
  - Adjust the angles of the adjustable arm as illustrated.
  - Do not drop the camera or subject it to physical shock.
  - Ensure the power supply voltage is correct before using the 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.
  - To reduce the risk of fire or electric shock, do not expose the camera to rain or moisture.
- Warranty will be voided if any unauthorized modifications are done to the camera.

### Federal Communications Commission Statement

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.

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.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

**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.

**Caution**

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries in a safe and proper manner.

**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.

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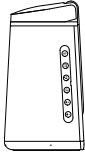
Tel: +84 (0)28 22 539 21

# Contents

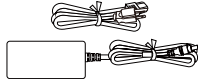
<b>Warning</b> .....	<b>2</b>
<b>Overview</b> .....	<b>1</b>
Package Contents.....	1
Parts Info.....	2
Operation Angles .....	3
Function Buttons .....	2
Auto Rotate .....	3
Remote Control.....	5
<b>Connections</b> .....	<b>7</b>
Power Connection.....	7
HDMI Connection.....	8
Audio Input Connection.....	8
USB Device Connection.....	8
Bluetooth Connection (US Only) .....	8
<b>Set Up Your Camera</b> .....	<b>9</b>
Open the OSD Menu.....	9
Remote control Operation .....	9
Function Buttons Operation.....	9
OSD Menu .....	10
Image .....	10
Picture In Picture.....	12
Presentation .....	13
Audio .....	14
Setting.....	15
System .....	16
OSD Menu Tree .....	17
<b>Specification</b> .....	<b>19</b>
<b>Troubleshooting</b> .....	<b>21</b>

# Overview

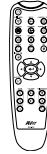
## Package Contents



A30



Power Adapter & Power Cord\*



Remote Control



USB 2.0 Type-C to Type-A Cable (1.8m)



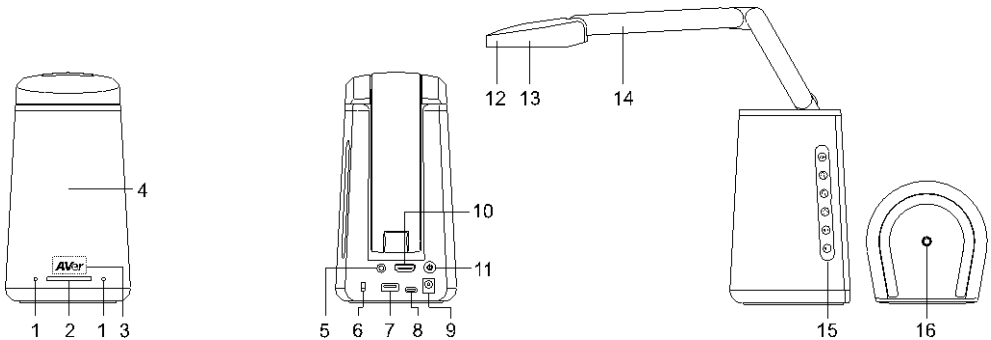
Bluetooth Dongle  
(US only)



QR Code Card

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

## Parts Info

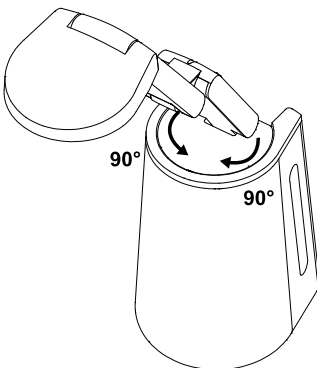
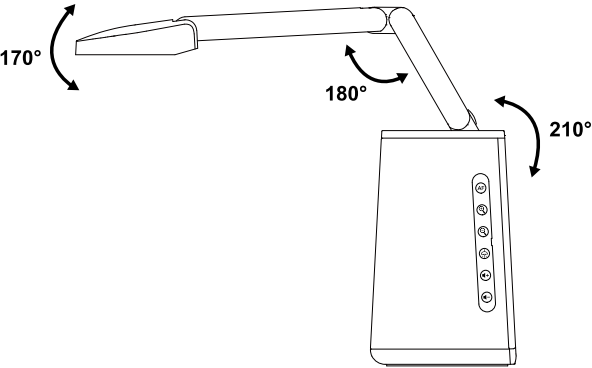


- |  |                          |                                 |
|--|--------------------------|---------------------------------|
| 1. Microphones                         | 5. Audio Input           | 12. LED Lamp                    |
| 2. LED Indicator                       | - 3.5mm Line in / Mic in | 13. Camera Lens                 |
| Solid blue: Normal                     | 6. Kensington Lock       | 14. Foldable Arm                |
| Solid red: Standby                     | 7. USB Type-A Port       | 15. Function Buttons            |
| (connected to power but not turned on) | 8. USB Type-C Port       | 16. Tripod Screw Hole           |
| Flashing red: Start-up                 | 9. DC Power Jack         | - Screw: 1/4"-20 (not included) |
| 3. IR Sensor                           | 10. HDMI Output Port     |                                 |
| 4. Speaker (up to 6x6m)                | 11. Power Button         |                                 |

## Function Buttons

Press	To
	Autofocus once.
	Zoom in. Press and hold to zoom in continuously.
	Zoom out. Press and hold to zoom out continuously.
	Turn LED lamp on or off. Press and hold for 3 seconds to flip the live view.
	Increase volume. Press and hold to increase volume continuously.
	Decrease volume. Press and hold to decrease volume continuously.
	Turn <b>Auto Rotate</b> on or off. <b>Auto Rotate</b> automatically flips images in the correct orientation.

# Operation Angles



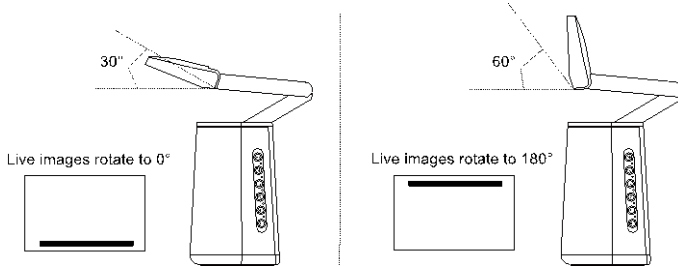


# Auto Rotate

You can enable the **Auto Rotate** function for the unit to automatically flip 0/180° of the live images when turning the Camera Head upward or downward.

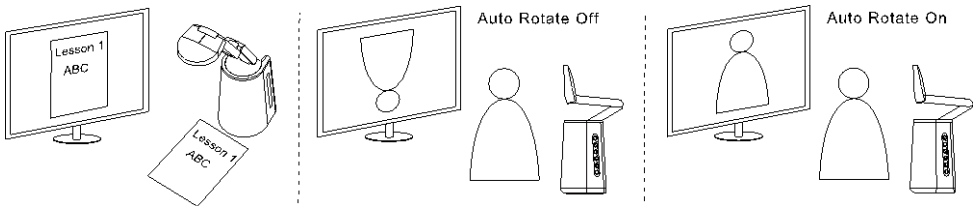
For the **Auto Rotate** function to work, enable the **Auto Rotate** function in advance. Please refer to **Auto Rotate** in the <Image> chapter for more details.

- When the angle of the Camera Head is less than 30°, the live images will rotate to 0°.
- When the angle of the Camera Head is more than 60°, the live images will rotate to 180°.

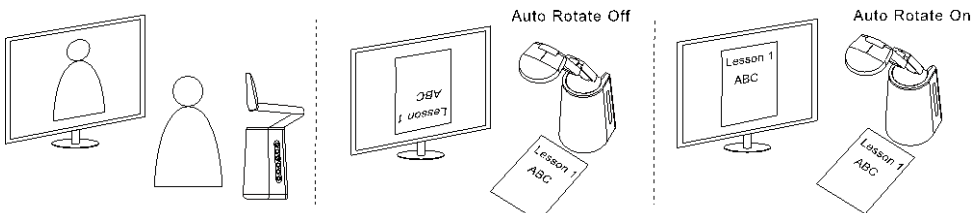


Since A30 Universal Camera can be used as a document camera or a Webcam, the **Auto Rotate** function is able to ensure the live images to be displayed with the right orientation, which will automatically flip the images when they appear upside-down. Below are 2 scenarios for your reference.

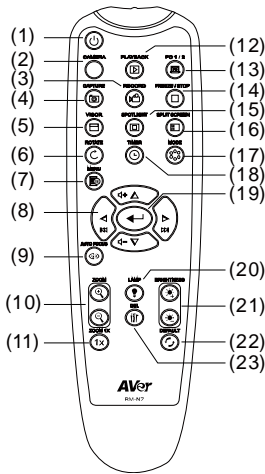
Scenario 1: When a presenter is shooting on a document at the beginning, and then turn the Camera Head upward to shoot him/herself, the live images will automatically flip if the **Auto Rotate** function is turned on.






Scenario 2: When a presenter is shooting him/herself at the beginning, and then turn the Camera Head downward to shoot on a document, the live images will automatically flip if the **Auto Rotate** function is turned on.






# Remote Control



AAA battery x2  
(not included)

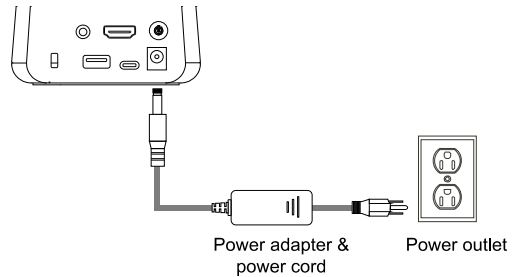
Name	Function
1. Power	Turn the camera on or off.
2. Camera	Enter the Camera mode (live view).
3. Record	Start/stop audio/video recording. The recordings will be saved in a USB flash drive.
4. Capture	Capture still image. In continuous capture mode, press this button again to stop. The images will be saved in the selected storage.
5. Visor	Visor covers part of the camera view and allows the presenter to reveal the desired part of the camera view. To enable Visor: <ol style="list-style-type: none"> <li>1. Press the Visor button to enter the Visor setup page in OSD menu.</li> <li>2. Select <b>On</b> and press  to enable Visor, the upper-left part of the camera view will be exposed.</li> <li>3. Use the <b>▲, ▼, ◀, &amp; ▶</b> buttons to reveal more of the covered camera view.</li> <li>4. To exit Visor mode, press the Visor button again.</li> </ol>
6. Rotate	Rotate the image by 0/180°.
7. Menu	Open or close the OSD menu.
8. ▲, ▼, ◀, & ▶	<ul style="list-style-type: none"> <li>- Select options in OSD menu. Enter the previous/next level page in OSD menu.</li> <li>- In Zoom mode, use <b>▲, ▼, ◀, &amp; ▶</b> to navigate the live view.</li> <li>- In Playback mode, use <b>▲&amp;▼</b> to increase and decrease the volume.</li> <li>- In Playback mode, use <b>◀&amp;▶</b> to play the video backward and forward.</li> </ul>
9. Auto Focus	Adjust the focus automatically.
10. Zoom +/-	In Camera Live mode or Split Screen (live) and Playback (image) mode, use Zoom +/- to zoom in or zoom out the images.
11. Zoom 1x	Reset zoom level to 100%.
12. Playback	Playback the captured pictures/videos from the USB flash drive. <ul style="list-style-type: none"> <li>- Use <b>▲, ▼, ◀, &amp; ▶</b> to select an image or video.</li> <li>- Press  to display the image or playback the video. Press  again to pause playback.</li> <li>- Press the Freeze/Stop button to stop playing back.</li> </ul>

13. PC 1/2	In PIP mode, press this button to switch the video source displayed on the Main View.
14. Freeze / Stop	<ul style="list-style-type: none"> <li>- In Live mode, freeze live images.</li> <li>- In Playback mode, stop video playback.</li> </ul>
15. Spotlight	<p>Spotlight will focus on the central area of the camera view and cover all of the rest areas.</p> <p>To enable Spotlight:</p> <ol style="list-style-type: none"> <li>1. Press the Spotlight button to enter Spotlight setup page in OSD menu.</li> <li>2. Select <b>On</b> and press  to enable Spotlight, the central area of the camera view will be displayed.</li> <li>3. Optionally use <b>▲, ▼, ◀, &amp; ▶</b> to adjust the revealed area.</li> <li>4. To exit Spotlight mode, press the Spotlight button again.</li> </ol>
16. Split Screen	<p>Divide the screen into two. One side displays the camera live view and the other side displays the captured image or recorded video thumbnails from the USB flash drive.</p> <p>The split options include Left, Right, Top and Bottom.</p> <p>After selecting a split option, use <b>▲, ▼, ◀, &amp; ▶</b> to select a capture image or video. Press  to display the image or playback the video.</p>
17. Mode	Press to switch among Normal, High Quality and Motion modes.
18. Timer	<p>Press the Timer button to enter Presentation Timer setup page in OSD menu. Select to Start/Pause/Stop the timer countdown.</p> <p>Select Timer Interval to set the timer duration.</p>
19. 	<ul style="list-style-type: none"> <li>- Confirm a selection.</li> <li>- Enter the submenu in the OSD menu.</li> <li>- Play/Pause video playback.</li> <li>- Display the captured images.</li> </ul>
20. Lamp	Turn LED lamp on or off.
21. Brightness +/-	Adjust the brightness.
22. Default	Reset to factory default settings.
23. DEL	Delete the selected picture/video in Playback mode.

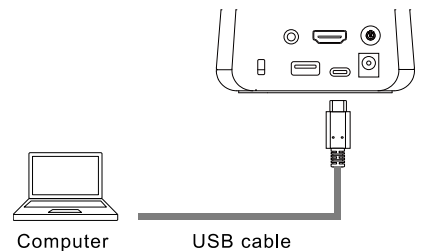
# Connections

## Power Connection

1. Connect to a power outlet using the included power adapter and cord.
2. Press the power button to turn on your camera.



You can also use the USB Type-C port to power your camera by connect it to a computer using the included USB Type-C cable.

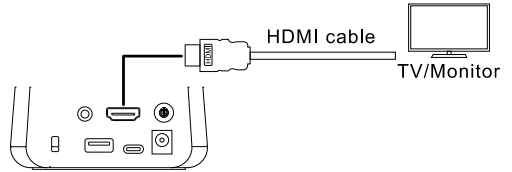


### Note:

- We recommend using a USB Type-C to Type-C cable. Using the USB Type-C to Type-A cable may provide limited functions.
- When switching between DC power jack and USB Type-C port, your camera goes into Standby mode. Press the power button to turn on your camera.
- Video and volume limits:
  - The maximum HDMI resolution is 1080p.
  - When you use the included USB Type-C to Type-A cable (1.8m), the maximum volume level decreases from 15 to 5.
- LED lamp, USB flash drive and upgrade firmware are unavailable.

## HDMI Connection

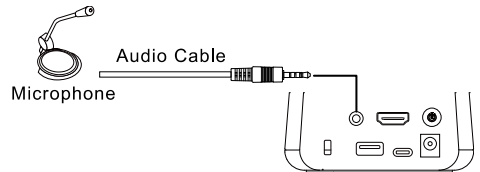
Connect to a TV or Monitor using an HDMI cable to stream video or configure settings on the OSD menu.



## Audio Input Connection

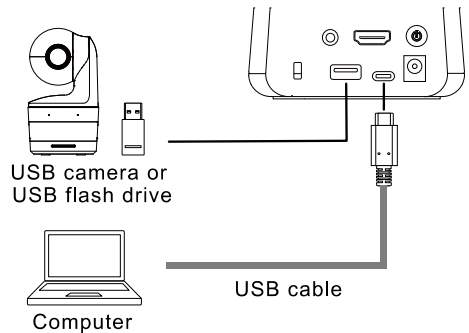
Connect to an external microphone using an audio cable and deliver audio from your camera's built-in speaker.

- Line input level: 1Vrms (max.)
- Mic input level: 50mVrms (max.); supplied voltage: 2.5 +/- 0.5 (V)



## USB Device Connection

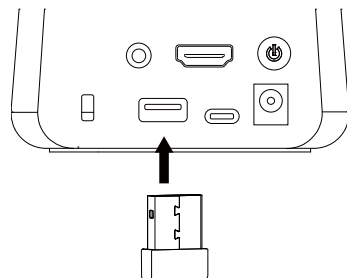
- USB Type-A port: Connect to a USB camera for picture-in-picture or an external storage of up to 32GB (FAT32) for images and videos.
- USB Type-C port: Connect to a computer using the included USB cable to work with your video conferencing software.



## Bluetooth Connection (Optional accessory)

Connect your camera as a Bluetooth speaker via the Bluetooth dongle.

1. Plug the included Bluetooth dongle into the USB Type-A port on your camera. Do not connect through a USB hub.
2. Open the Bluetooth settings on your computer, smartphone or tablet and select A30 to connect your camera.



# Set Up Your Camera

## Open the OSD Menu


You can open the on-screen display (OSD) menu to configure camera settings using the remote control or function buttons. Make sure you have connect the camera to a monitor or TV using an HDMI cable.







### Remote control Operation

Press the **Menu** button on the remote control to open the OSD menu. Press again to close the menu.

Button	Function
◀	Exit the selection or go back to the previous selection.
▶	Enter or confirm a selection.
▲	Move through the menu.
▼	Move through the menu.
↩	Enter or confirm a selection.

### Function Buttons Operation

Press and hold the **autofocus** button  for 3 seconds to open the OSD menu. Press again to close the menu.

Button	Function
	Back
	Up
	Down
	Left
	Right
	Enter

# OSD Menu

## Image

IMAGE	Brightness	+
PICTURE IN PICTURE	Contrast	128
PRESENTATION	Saturation	-
AUDIO	Preview Mode	
SETTING	Effect	
SYSTEM	Mirror	
	Auto Rotate	
	Exposure Setup	
	Manual Exposure	
	White Balance Setup	
	Manual W.B Blue	
	Manual W.B Red	
	Focus	

- **Brightness:** Adjust the brightness level (0-255).
- **Contrast:** Adjust the contrast level (0-255).
- **Saturation:** Adjust the saturation level (0-255).
- **Preview Mode:** Select a mode.
  - **Normal:** Adjust the gradient of image.
  - **Motion:** High refresh rate upon motion images.
  - **High Quality:** High resolution with the best quality.
- **Effect:** Select an effect.
  - **Color:** Convert the images into positive (true color).
  - **B/W:** Convert the images into monochrome (black and white).
  - **Negative:** Convert the images into negative.
- **Mirror:** Enable or disable the function to flip left or right of the images.
- **Auto Rotate:** Enable or disable the function to automatically rotate 0/180° of the images.
- **Exposure Setup:** Select an option.
  - **Auto:** Select to automatically adjust the exposure setting.
  - **Manual:** Select to manually adjust the exposure setting. Adjust the **Manual Exposure** below.
- **Manual Exposure:** This function only appears when **Manual** is selected in **Exposure Setup**. Adjust the exposure value (0-99).
- **White Balance Setup:** Select an option.
  - **Auto:** Select to automatically adjust the white balance setting.
  - **Manual:** Select to manually adjust the white balance. Adjust the blue and red color below.
- **Manual W.B Blue:** This function only appears when **Manual** is selected in **White Balance Setup**. Adjust the value (0-255).

- **Manual W.B Red:** This function only appears when **Manual** is selected in **White Balance Setup**. Adjust the value (0-255).
- **Focus:** Adjust the focus value (0-1023).

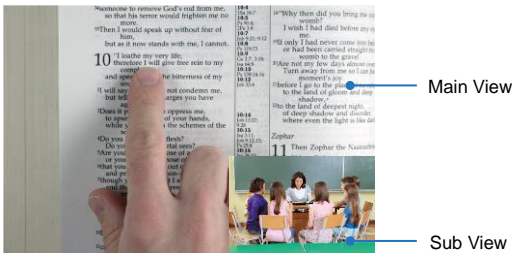


## Picture In Picture

The Picture In Picture (PIP) function allows you to display two camera streams, one from the A30 and the other from an USB camera, on a screen. It's useful for a presenter to display the content of the materials and the presenter/audience simultaneously.

IMAGE	PIP Mode	ON
PICTURE IN PICTURE	Main Screen Switch	OFF
PRESENTATION	Position	
AUDIO	Size	
SETTING	Start PIP Automatically	
SYSTEM		

- **PIP Mode:** Manually enable or disable the **PIP** mode. To manually display the PIP mode:
  1. Connect an USB camera to the USB Type-A port of A30.
  2. Go to OSD menu > **Picture In Picture** > **PIP Mode** and select **On**. You should see the PIP mode displayed on the screen.
  3. Optionally switch the main view, or adjust the position or size of the sub view.
  4. To turn off the PIP mode, go to OSD menu > **Picture In Picture** > **PIP Mode** and select **Off**.
- **Main Screen Switch:** Select a video source to be displayed on the Main View. Options include **A30** and **External Source** (camera connected to the USB Type-A port of A30).




- **Position:** Select a position for the Sub View. Options include **Bottom Left**, **Top Left**, **Top Right**, **Bottom Right** and **Manual**. If **Manual** is selected, you can position the Sub View manually. Use the **▲**, **▼**, **◀**, **▶** buttons on the Remote Control to select a position.
- **Size:** Select a size for the Sub View. Options include **Large** and **Small**.
- **Start PIP Automatically:** Turn on this function if you want A30 to automatically display PIP Mode when an USB camera is connected to A30. For this function to work:
  1. Go to OSD menu > **Picture In Picture** > **PIP Mode** and select **On**.
  2. Go to OSD menu > **Picture In Picture** > **Start PIP Automatically** and select **On**.
  3. Connect an USB camera to the USB Type-A port of A30. You should see the PIP mode displayed on the screen.

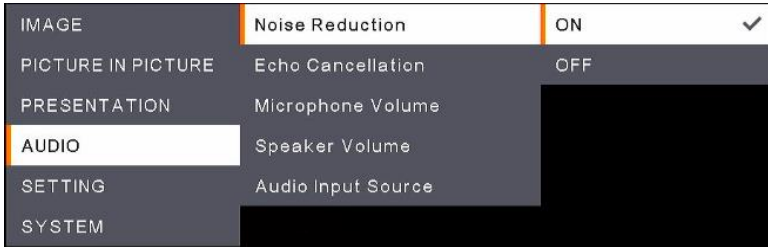
## Presentation



- **Spotlight:** Enable or disable the function. Spotlight will focus on the central area of the camera view and cover all of the rest areas. To enable **Spotlight**:
  1. Go to OSD menu > **Presentation** > **Spotlight** and select **On**, the central area of the camera view will be displayed.
  2. Optionally use the ▲, ▼, ◀, & ▶ buttons on the Remote Control to adjust the revealed area.
  3. To disable the **Spotlight** function, press the Spotlight button on the Remote Control.
- **Visor:** Enable or disable the function. Visor covers part of the camera view and allows the presenter to reveal the desired part of the camera view. To enable **Visor**:
  1. Go to OSD menu > **Presentation** > **Visor** and select **On**, the upper-left part of the camera view will be exposed.
  2. Use the ▲, ▼, ◀, & ▶ buttons on the Remote Control to reveal more of the covered part.
  3. To disable the **Visor** function, press the Visor button on the Remote Control.
- **Split Screen:** Divide the screen into two. One side displays the camera live view and the other side displays the captured image or recorded video thumbnails from the USB flash drive. The split options include **Left**, **Right**, **Top** and **Bottom**.

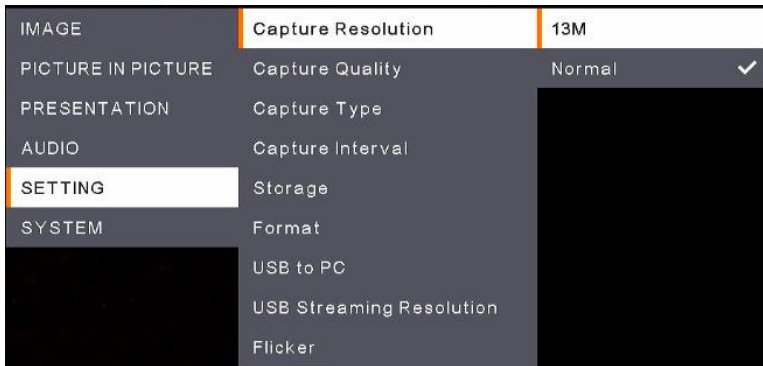
After selecting a split option, use the ▲, ▼, ◀, & ▶ buttons on the Remote Control to select a capture image or video. Press  to display the image or playback the video.
- **Timer:** Select to **Start**, **Pause** or **Stop** the timer countdown. You can optionally set up the **Timer Interval** below. When **Start** is selected, a timer will be displayed on the top-center of the live view. To pause or stop **Timer**, press the Timer button on the Remote Control and select **Pause** or **Stop** on the OSD menu.
- **Timer Interval:** Set up an interval for the **Timer** above.

## Audio



- **Noise Reduction:** Enable or disable the **Noise Reduction** function.
- **Echo Cancellation:** Enable or disable the **Echo Cancellation** function.
- **Microphone Volume:** Adjust the microphone volume (0-32).
- **Speaker Volume:** Adjust the speaker volume (0-15).
- **Audio Input Source:** Select an audio input source. Options include **MIC In** and **LINE In**.
- **Bluetooth Speaker (Optional accessory):** Turn Bluetooth on or off.

## Setting



- **Capture Resolution:** Select a resolution for the captured images.
  - **13M:** Apply the 4208x3120 resolution to the captured images.
  - **Normal:** The resolution of the captured images will be based on the selected resolution in the **Output Display (System > Output Display)**.
- **Capture Quality:** Select a quality for the captured images.
- **Capture Type:** Select **Single** to manually capture one image at a time. Select **Continuous** to continuously capture images based on the setup **Capture Interval**. To stop continuously capturing images, press the Capture button on the Remote Control.
- **Capture Interval:** If **Continuous** is selected in the **Capture Type** above, you can further set up an interval.
- **Storage:** To set up this function, remove the USB cable from the unit first. Select a storage to store the capture images or recording videos. Options include **Embedded** or **USB Drive**.



### [Note]

1. The unit will automatically detect whether an USB drive has been connected. If an USB drive is connected, the unit will automatically assign **USB Drive** to store data.
2. The internal **Embedded** storage can only store images with a maximum of 200 frames. If you want to store videos, please connect an USB drive to the unit.

- **Format:** To set up this function, remove the USB cable from the unit first. You can format the **Embedded** or **USB Drive** storage to erase all the data permanently.
- **USB to PC:** To set up this function, remove the USB cable from the unit first. When connecting the unit to PC through the USB cable, you can either select **Camera** to use it as a Webcam, or select **Storage** if you want to transfer the images or recordings from the unit to your PC.
- **USB Streaming Resolution:** To set up this function, remove the USB cable from the unit first. Select a streaming resolution. Options include **Max to 4K** and **Max to 1080P**.
- **Flicker:** Select **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.

## System

IMAGE	Language	English	✓
PICTURE IN PICTURE	Output Display	繁體中文	
PRESENTATION	Backup	日本語	
AUDIO	Save Setting	Deutsch	
SETTING	Recall Setting	Français	
SYSTEM	Information	Español	
	Default	簡體中文	
		Italiano	
		Русский	
		Indonesia	
		Suomi	
		Polski	

- **Language:** Select a language.
- **Output Display:** Select a resolution for the output display. The unit will automatically detect the output device resolution and configure to the highest resolution.
- **Backup:** Select a storage to backup the images from the internal **Embedded** storage to the selected storage.
- **Save Setting:** Save the current settings, such as Brightness, Preview Mode, Contrast and etc., as a profile. Up to 3 profiles can be configured. To do this, after configuring all the settings, select a profile and then press the  button on the Remote Control to save the settings as a profile. To clear a setup profile, refer to **Recall Setting** below.
- **Recall Setting:** You can erase the settings of the setup profiles in the **Save Setting** above. To do this, select a profile and then press the  button on the Remote Control, the selected profile settings will be cleared.
- **Information:** Display the unit's information.
- **Default:** Restore all the settings to factory default settings.

## OSD Menu Tree

1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level
Image	Brightness	0~255
	Contrast	0~255
	Saturation	0~255
	Preview Mode	Normal/Motion/High Quality
	Effect	Color/B/W/Negative
	Mirror	On/Off
	Auto Rotate	On/Off
	Exposure Setup	Auto/Manual
	Manual Exposure * This function only appears when "Manual" is selected in Exposure Setup.	0~99
	White Balance Setup	Auto/Manual
	Manual W.B Blue * This function only appears when "Manual" is selected in White Balance Setup.	0~255
Manual W.B Red * This function only appears when "Manual" is selected in White Balance Setup.	0~255	
Focus	0~1023	
Picture In Picture	PIP Mode	On/Off
	Main Screen Switch	A30/External Source
	Position	Bottom Left/Top Left/Top Right/Bottom Right/Manual
	Size	Large/Small
	Start PIP Automatically	On/Off
Presentation	Spotlight	On/Off
	Visor	On/Off
	Split Screen	Left/Top/Right/Bottom
	Timer	Start/Pause/Stop
	Timer Interval	1~120 min.
Audio	Noise Reduction	On/Off
	Echo Cancellation	On/Off
	Microphone Volume	0~32
	Speaker Volume	0~15

	Audio Input Source	Mic In/Line In
Setting	Capture Resolution	13M/Normal
	Capture Quality	Finest/High/Normal
	Capture Type	Single/Continuous
	Capture Interval * This function only appears when "Continuous" is selected in Capture Type.	1-600 sec.
	Storage	Embedded/USB Drive
	Format	Embedded/USB Drive
	USB to PC	Camera/Storage
	USB Streaming Resolution	Max to 4K/Max to 1080P
	Flicker	50Hz/60Hz
System	Language	English/Traditional Chinese/Japanese/German/ French/Spanish/Simplified Chinese/Italian/Russian/ Indonesia/Finland/Polish
	Output Display	3840x2160 @60 3840x2160 @30 1920x1080 1280x720 1024x768
	Backup	USB Drive
	Save Setting	Profile 1/Profile 2/Profile 3
	Recall Setting	Profile 1/Profile 2/Profile 3
	Information	Camera information
	Default	No/Yes

# Specifications

Camera	
Sensor	1/3.06" CMOS
Pixel Count	13 Megapixels
Frame Rate	3840x2160 (4K): Up to 30fps 1080p or lower: Up to 60fps
White Balance	Auto / Manual
Exposure	Auto / Manual
Preview Mode	Normal / Motion / High Quality
Effect	Color / B/W / Negative
Output Resolutions (USB-UVC)	<u>MJPEG</u> : 3840x2160, 1920x1080, 1280x720, 640x360, 2560x1920, 2048x1536, 1600x1200, 1280x960, 1024x768, 640x480, 1280x1024, 1280x800 <u>YUV</u> : 640x360, 640x480, 320x180, 320x240
Display Output (HDMI)	3840x2160, 1920x1080, 1280x720, 1024x768
Optical Mechanism	
Lens Rotation (mechanical)	Right: 90°(with rotation base), Left: 90°(with rotation base)
Shooting Area	A3 or above
Zoom	23x digital zoom
Focus	Auto focus, manual via software
Interface	
HDMI Output	1 (support up to 4K display output)
USB Type-A Port	1 (for USB flash drive and USB camera streaming input)
USB Type-C Port	1 (connect to PC for USB camera streaming output)
Audio Input	1 (Line-in/Mic-in, 3.5mm stereo) Line input level: 1Vrms (max.) Mic input level: 50mVrms (max.); supplied voltage: 2.5 +/- 0.5 (V)
Speaker	6W speaker, support 6x6 meters
Built-in Microphone	Yes, support 5 meters pickup range
DC 12V Input	Power Jack
Functions	
OSD	Supported
Firmware Update	Update firmware using AVerTouch software
LED Lamp	Yes, embedded LED lamp 0.5W
Internal Storage	Image capture up to 200 frames (XGA: 1024x768)
External Storage	Support FAT32, 32GB USB storage
Auto Rotation	Yes
Audio Function	AEC, background noise suppression technology. AI noise reduction.
General	



Power Source	100-240VAC, 50-60Hz; 12VDC, 2A
Power Input	Lamp on: 12VDC, 1.25A, 15W max. Lamp off: 12VDC, 1.21A, 14.5W max.
Dimensions (W x D x H)	Operating: 96.9 x 239.04 x 348.4mm Folded: 96.9 x 98.1 x 184.5mm
Net Weight	737g ± 50g

## Troubleshooting

### **There is no picture on the presentation screen.**

1. Check all the connectors again as shown in this manual.
2. Verify the setting of the display output device.
3. For HDMI display output, a delay occurs while waiting for both the display device and the unit to sync up. Wait for around 4 to 7 seconds until you see the camera image on the screen.

### **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 remote control.