



# CAM570

— User Manual —



# Warning

- ❓ Hold the bottom of the camera with both hands to carry the camera.

Whether the camera is connected to power or not, do not grab any part of the lens or the lens holder to carry the camera or adjust pan and tilt.

- ❓ 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 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:



### 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 according to the instructions.

### VCCI-A

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### 사용자안내문

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(업무용 방송통신기자재)

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하며, 가정외의 지역에서 사용하는  
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### Remote Control Battery Safety Information

- Store batteries in a cool and dry place.
- Do not throw away used batteries in the trash. Properly dispose of used batteries through specially approved disposal methods.
- Remove the batteries if they are not in use for long periods of time. Battery leakage and corrosion can damage the remote control. Dispose of batteries safely and through approved disposal methods.
- Do not use old batteries with new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire.
- Do not attempt to short-circuit the battery terminals.



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# Overview

## Package Contents

CAM570	Power Adapter & Power Cord*	Remote Control	Accessory Bag
USB 3.1 Type-B to Type-A Cable (3m)	Mini Din 9 to Mini Din 8 RS-232 Adapter Cable	HDMI Cable (3m)	
M4 x 8mm Wall Mount Screw (x2)	1/4"-20 L=7.5mm Tripod Screw (x2)	Drill Template	

\*The power cord may vary based on the country or region where sold.

## Optional Accessories\*

USB 2.0 Type-B to Type-A Cable (5m)	Mini Din 8 to D-Sub 9 Cable	USB 3.1 Extender 10m/20m/30m	Foot Pedal
--	--------------------------------	---------------------------------	------------





## **Pan and Tilt Angle**



# Parts Info








- |   |                                |
|---|--------------------------------|
| 1. Optical Zoom Main Lens                 | 6. PoE Port                    |
| 2. IR Sensor                              | (compatible with IEEE 802.3at) |
| 3. Status LED                             | 7. Audio Input Port            |
| 4. AI Lens*                               | 8. HDMI Port                   |
| 5. Built-in Microphone Array              | 9. USB 3.1 Type-B Port         |
| (audio tracking only, cannot be used as a | 10. RS-232 In/Out Port         |
| video conference audio source)            | 11. DC Power Jack              |
|   | 12. Kensington Lock            |

# LED Indicator

Color	Status
Solid red	Start-up
Solid orange	Standby
Solid blue	Video on
Flashing blue for 2 seconds	Gesture control is turned on
Flashing blue for 4 seconds	Performing a gesture command



# Remote Control

Name	Function
1. Camera Select	No selection is required by default to operate the camera.   Camera Binding is turned off by default. If you want to use three selections can operate the camera.  To specify a number, go to Setting > Remote Control > Binding on the web interface or in PTZ App2.
2. Directional Pad	Press once for incremental movement. Press and hold for continuous pan or tilt.
3. SmartFrame	Short press to frame entire group on screen. Long press to remove excess space. Long press to switch between tracking modes.  Note:  The SmartFrame icon appears on the screen when turned on. To hide the icon, go to Setting tab > On-Screen Menu > SmartFrame on the web interface or in PTZ App2.  The effective distance is up to 7-10m.  AI functions will be turned off if pan or zoom controls are used.
4. OSD Menu	Short press to open the OSD menu during video output. Press and hold for 1 second to switch screen layout or picture-in-picutre (PiP).
5. Zoom In/Out	Zoom in or out.
6. Preset	 To save a preset: Press and hold the Preset button until the save message appears on screen and release, then short press the Number Pad (0-9).
7. Number Pad	 To load a preset: Press and hold the Preset button and release, then short press the Number Pad (0-9).
8. Brightness -	Decrease image brightness.
9. Brightness +	Increase image brightness.



## Shortcuts

Press and Hold

for 2 sec

for 2 sec

for 2 sec

for 2 sec

for 2 sec

for 2 sec

for 2 sec

for 6 sec

for 2 sec and release,

then press

for 2 sec and release,

then press

To

Turn wide dynamic range (WDR) on or off.

Enable Audio Tracking.

Enable Presentation Mode.

Turn SmartFrame on or off.

Change the picture-in-picture (PiP) position when streaming over USB or IP.

Turn RTMP streaming on or off when RTSP and RTMP are turned on.

Enter sleep mode.

Reboot.

Turn Preset Link Set 1 on or off.

Turn Preset Link Set 2 on or off.





# Connection

## Device Connection

- ❓ Use the included USB
- ❓ The USB 3.1 port is com  
USB 2.0.

Maximum resolution/fps for USB 2.0 and USB 3.1 ports:

USB 2.0		USB 3.1	
YUV	M-JPEG	YUV	M-JPEG
- 640x480 or less, up to 30fps	- 1080p/60fps	- Up to 1080p/30fps	- Up to 4k/30fps
- 720p, up to 10fps		- 720p/60fps	- 1080p/60fps



# Power Connection

Connect the included power adapter  
cord to a wall outlet.


Or connect a CAT 5e FTP cable (not  
included) to the PoE Switch or Ethernet.

- ☐ PoE port is compatible with IEEE 802.3af.
- ☐ When streaming over IP, use a Cat 5e or higher cable (not included) for a smoother experience.



# HDMI Connection

Connect with TV or monitor through the HDMI port to display camera video on the screen.

Hold  button for 1 second on the Remote Control to call out the screen layout option. Select camera image layout firstly. The default is PIP1, showing optical zoom lens image as main screen and AI lens image as small view. Under this layout, you can switch two cameras by pressing Up/Down arrow on the remote control.

## [Note]

The HDMI out function will be automatically disabled when 4K resolution is selected for USB or RTSP streaming. Under this circumstance, please change RTSP and USB streaming from 4K to lower resolution if you want to enable HDMI out.

If your camera is under RTSP 4K resolution, you can press and hold the OSD Menu button on the Remote Control for 1~2 sec. to quickly change the resolution to 1080p and then you can start using the HDMI function.



**Lens 1**    The PTZ camera focuses on speaker

**Lens 2**    Shows all participants

After choosing the image layout, short press the OSD Menu button on the Remote Control and the setting page will show up. Press right direction button to enter and configure the parameters of the camera. Short press the OSD button twice or hold it for 1 sec. to leave. The HDMI OSD setting function is the same as Web configuration interface. Please refer to [<Web Settings>](#)





# RS-232 Connection

## RS-232 Port Pin Definition



Function	Mini DIN9 PIN #	I/O Type	Signal	Description
VISCA IN	1	Output	DTR	Data Terminal Ready
	2	Input	DSR	Data Set Ready
	3	Output	TXD	Transmit Data
	6	Input	RXD	Receiver Data
VISCA OUT	7	Output	DTR	Data Terminal Ready
	4	Input	DSR	Data Set Ready
	8	Output	TXD	Transmit Data
	9	Input	RXD	Receiver Data
	5	---	---	Not connect



# Computer/Keyboard Controller and Camera Connection

## Direct Connection

If users do not use AVer RS-232 adapter cable, please refer to the pin connection shown below.

Mini DIN9 to DB9 Cable		or	Camera controller	
Mini DIN9			DB9	
Camera			Camera controller, PC	
1. DTR (IN)	?		6. DSR	
2. DSR (IN)	?		4. DTR	
3. TXD (IN)	?		2. RXD	
6. RXD (IN)	?		3. TXD	
7. DTR (OUT)			1. DCD	
4. DSR (OUT)			5. GND	
8. TXD (OUT)			7. RTS	
9. RXD (OUT)			8. CTX	
			9. RI	



Use the supplied RS-232 mini DIN9 to mini DIN8 cable

RS232 mini DIN9  
to mini DIN8 cable\*\*

VISCA in (Female)

Mini DIN8  
to DB9 cable\*

VISCA out (Female)

or

Camera controller

DB9		Mini DIN8
Camera controller, PC		Camera
1. DCD		6. GND (IN)
2. RXD	?	3. TXD (IN)
3. TXD	?	5. RXD (IN)
4. DTR	?	2. DSR (IN)
5. GND	?	4. GND (IN)
6. DSR	?	1. DTR (IN)
7. RTS		
8. CTX		1. DTR (OUT)



\* Mini DIN8 to D-Sub9 (DB9) cable 064AOTHERBPK is an optional item.

\*\* RS-232 mini DIN9 to mini DIN8 Cable Pin Definition

Mini DIN9

Connect to AVer camera

Mini DIN8 (IN)

Connect to next camera

Connect to camera con

Mini DIN8 (OUT)

Mini DIN8 Pin Definition

No.	Pin
1	DTR
2	DSR
3	TXD
4	GND
5	RXD
6	GND
7	NC
8	NC





## Camera Cascade Connection

### Direct Connection

If users do not use AVer RS-232 adapter cable, please refer to the pin connection shown below cascading cameras.

Total can connect up to 7 cameras.

Mini DIN9		Mini DIN9
Camera 1		Camera 2
1. DTR (IN)		7. DTR (OUT)
2. DSR (IN)		4. DSR (OUT)
3. TXD (IN)		8. TXD (OUT)
6. RXD (IN)		9. RXD (OUT)
7. DTR (OUT)	?	2. DSR (IN)
4. DSR (OUT)	?	1. DTR (IN)
8. TXD (OUT)	?	6. RXD (IN)
9. RXD (OUT)	?	3. TXD (IN)
SHIELD	?	SHIELD



Use the RS-232 mini DIN9 to mini DIN8 cable

Total can connect up to 7 cameras.

To facilitate the camera cascade, users can use AVer RS-232 adapter cable.

Connect camera with AVer mini DIN9 to mini DIN8 adapter cable. Connect the mini DIN8 female to male mini DIN8 Visca cable (Users have to buy it in the market) and then connect AVer mini D mini DIN8 adapter cable again to connect to next camera.

Mini DIN8  
Camera 1




- 1. DTR (IN)
- 2. DSR (IN)
- 3. TXD (IN)
- 4. GND (IN)
- 5. RXD (IN)
- 6. GND (IN)

Mini DIN8  
Camera 2

- 1. DTR (OUT)
- 2. DSR (OUT)
- 3. TXD (OUT)
- 4. GND (OUT)
- 5. RXD (OUT)
- 6. GND (OUT)



# Installation

-  The AI lens has a 95-degree field of view but lacks ePTZ functionality.
-  Install the camera at a minimum height of 1.5 meters and avoid placing the camera on a table or shelf that may obstruct the AI lens view.
-  Keep the camera at least 1.5 meters away from your participants for accurate framing.

## Wall Mount Installation


1. Use the drilling paper included in the package to drill the holes in the wall where the user wants to mount the camera.

46.00[1.81]

Ø 5.50[Ø 0.22]

P/N: 303AU340-AGR

51.00[2.01]

2. Use the screws (not included) to secure the L-mount bracket  on the wall.

Screw

For Cement wall: M4 x20mm self-tapping screws (x4) + Plastic conical anchor

For Wooden wall: M4 x20mm self-tapping screws (x4)



3. Then, assemble the L-mount brackets  $A + B$  with screws (included in package)

Screw size: M4 x8mm (x2)

4. After assembling the L-mount brackets, use the screws (not included) to secure the lower part of the L-mount brackets on the wall.

Screw

For Cement wall: M4 x20mm self-tapping screws (x2) + Plastic conical anchor

For Wooden wall: M4 x20mm self-tapping screws (x2)





5. Pass the cables through the hole on the L-mount bracket and connect the cables to corresponding connection ports.

6. Use the remaining screws (included in package) to secure the camera on the L-mount bracket.

Screw: 1/4"-20 L=7.5mm (x2)



# Ceiling Mount Installation (Optional)

Use the ceiling mount bracket to install the camera to the ceiling.

## Package Content

Mount bracket x 1	Camera bracket x 1	Back cover x 1	Screw (M4*8) x 8
-------------------	--------------------	----------------	------------------

## Dimension

Unit=mm



To mount the camera to the ceiling:

1. Drill the hole on the ceiling. Use screw to secure the mount bracket on the ceiling.

Screw: 4 M6 x 50mm (Not included in package)

2. Use the supplied screws with washers to secure the camera bracket to the mount bracket.

Screw: 4 M8 x 4 + 4 Washer

3. Connect all cables on the camera and pass all cables out through the hole on the mount bracket. Then, secure the camera on the camera bracket.

Screw: 2 UNC-1/4"-20 (Not included in package)

4. Organize all cables to go out from top or bottom of mount bracket.

5. Then, secure the back cover with screws and washer.

Screw: 4 M8 x 4 + 4 Washer

6. Completed.



To mount the camera to the calcium silicate ceiling:

1. Please purchase support bracket for supporting camera mount bracket on calcium silicate ceiling. Then, secure the support bracket on the light steel frame structure.

2. Drill the hole on the calcium silicate ceiling. Open a hole on the calcium silicate ceiling to allow camera cables to pass through.

3. Then, secure the mount bracket, calcium silicate ceiling and support bracket together.

Screw: 4 Wingnut + 4 M6x50mm (Not included in package)

4. Use the supplied screws with washers to secure the camera bracket to the mount bracket.

Screw: 4 M8 x 4 + 4 Washer

5. Connects all cables on the camera and pass all cables through the hole on the mount bracket. Organize all cables to pass through the hole on the ceiling. Also, the cable can go out from top or bottom of mount bracket.

6. Then, secure the camera on the camera bracket.

Screw: 2 UNC-1/4"-20 (Not included in package)





7. Next, secure the back cover with screws and washer.

Screw: 4 M8 x 4 + 4 Washer

8. Completed.

## **Secure the Cables**

Plug in your USB cable or RS-232 cable and tighten the cable screw to secure.



# Get Started

## Make a Video Call

The CAM570 is a plug-n-play camera.

1. Connect your CAM550 to a computer using the included USB cable.
2. Open your video conferencing software such as Microsoft<sup>®</sup> Teams, Skype and Zoom.
3. Set the CAM570 as your primary camera on your video conferencing software.



# Web Interface

## Access the Web Interface

You can access your camera's web interface and change the default static IP to DHCP using the following software:

 AVer IP Finder




 PTZApp 2


### AVer IP Finder

1. Download and install AVer IP Finder to your computer from AVer Download Center.  
(<https://www.aver.com/download-center>).
2. Make sure your camera and computer are connected to the same network.
3. Open AVer IP Finder. Click Search.
4. To change the default static IP 192.168.1. 168 to DHCP, select your camera's checkbox from the list of devices.
5. Enter the default password aver4321.
6. Select DHCP.
7. Click Apply. AVer IP Finder will search for devices again and your camera's IP address will change.



## PTZApp 2

1. Download and install PTZApp 2 to your computer from AVer Download Center.  
(<https://www.aver.com/download-center>).
2. Make sure your camera and computer are connected to the same network.
3. Double-click the PTZApp 2 icon  to open PTZApp 2 in your browser.  
 Recommended browser: Chrome 76 and above, Firefox 69 and above.
4. Connect your camera to your computer using the included USB cable. When PTZApp 2 detects a USB-connected camera, a camera card will appear under the USB Devices page.
5. Click the pencil icon  on the camera card to change the default static IP 192.168.1.1 to DHCP.
6. Select DHCP and click Confirm.

7. Click the link icon  on the camera card to access the web interface.
8. For first-time login, enter the default password aver4321. You'll be prompted to set up a new account and password.





# PTZ Control

## Overview of PTZ Control

### 1. Presets 0-9

### 2. Preset Function Buttons

Save, load and clear a preset.

### 3. Add Available Presets

There are 10 available presets 0-9 by default.  
Click the plus icon to add up to 128 available presets.

### 4. Delete Available Presets

Click a trashcan icon to delete available presets.

### 5. Name

Click the pencil icon to name a preset

### 7. Log Out

Log out of your account and close the interface.

### 8. Live View

### 9. Pan-Tilt Reset

Reset the pan-tilt position to the center

### 10. Directional Pad and Zoom

### 11. SmartFrame

Click the SmartFrame icon group on screen and remove excess



## Save, Load and Clear a Preset

To save a preset:

1. Use the pan, tilt and zoom controls to position your camera.
2. Select Set, then a preset number to save that position.
3. Select Yes when prompted. A thumbnail of your preset will appear.

## Add and Delete Available Presets (Presets 10-127)

There are 10 available presets 0-9 by default.

Click the plus icon to add up to 128 available presets, or click the trashcan icon to delete available presets.

Add

Delete

To add an available presets:

1. Select the plus icon, then select the preset numbers you want to add.
2. Select Done.

To delete an available preset:

1. Select the trashcan icon, then select the preset numbers you want to delete.



# Setting

## Camera

### Item

Tracking Mode

AI Detection Source

Voice Sensor Array

Camera Moving Speed

Framing Speed

Framing Size


Transition Effect

### Description

Select a tracking mode. Refer to [<Tracking Mode>](#)


Select a lens to perform for AI detection. Entire group must be inside the selected lens's field of view.

Turn Voice Sensor Array on or off.


 Main lens must be set as AI detection lens.

Select a camera moving speed.

Select a duration before auto frame.


 Slow: 5 seconds before auto frame.

 Middle: 3 seconds before auto frame.

 High: 1 second before auto frame.

Select a framing size to include or remove excess space on the side of the subject.

Select a transition effect for Audio Tracking.

 PTZ Movement: Use pan-tilt-zoom transition.

 Smart ViewShift:

- Use dissolve effect, pan-tilt-zoom transition or both based on the distance of camera travel, to avoid disorienting movements.



Audio Tracking Idle Interval

Conversation Mode Trigger  
Sensitivity

Gesture Control

Autofocus

Camera Focus

Home Position

Sleep Position

Sleep Timer

On-Screen Menu

Camera Binding

- ☐ Slow Speed: 4 second before audio tracking.
- ☐ Middle Speed: 2 seconds before audio tracking.
- ☐ High Speed: Fastest audio tracking response speed.

Select a duration for the camera to frame entire group after it detects no sound. If Off is selected, the camera will stay at its last position.

Drag the slider to select a sensitivity level with which you can pick up on a conversation and frame entire group on screen.

Sensitivity	Off	1	2	3
Entry	Never	9 <sup>th</sup>	7 <sup>th</sup>	5 <sup>th</sup>
		sound	sound	sound
		source	source	source
		change	change	change

Turn Gesture Control on or off.

- ☐ AI lens must be set as AI detection lens.
- ☐ The effective distance is up to 5 meters.
- ☐ Click the question mark icon to see a list of gesture commands or refer to [<Gesture Control>](#) for details.

Automatically focus after each pan, tilt and zoom, or auto-focus continually.

Adjust the focal length manually by dragging the slider to focus automatically.

Select a home position that your camera moves to when you turn it on.

Select a home position that your camera moves to when you enter standby mode.

Set a duration before standby mode.

- ☐ When transmitting video over USB, RTSP or RTMP, the camera won't enter standby mode.

Turn On-Screen Menu on or off.

- ☐ Load Preset Off: Displays all statuses except load.

No setup is required to operate the camera.

- ☐ When camera binding is turned off (default), all selected cameras can be operated by the remote control.
- ☐ Or select Camera 1-Camera 3 to assign the camera to the camera select button 1-3 on the remote control.





## PIP

### Item

PIP Layout

### Description

Turn picture-in-picture (PiP) on to see live view from lenses.

HDMI Screen Layout

Select a layout for HDMI output. Click the arrows button to switch the position of the smaller video.

USB / IP Streaming Screen Layout

Select a layout for streaming over USB and IP. Click the button to switch the position of the smaller video.

## Image

### Item

Image Flip

### Description

Flip the image vertically.


 When Image Flip is turned on, AI Detection Score is default to the main lens, expecting an upside down installation.

Image Mirror

Flip the image horizontally.

WDR

Turn wide dynamic range (WDR) on or off.

Flicker Decrease on IFP / Monitor

Turn Flicker Decrease on IFP / Monitor on or off.

## Frequency


Select a frequency.

Main Lens 1 / AI Lens 2

Select a lens to set up White Balance, Noise Reduction, Brightness, Sharpness and Saturation. These settings only apply to the selected lens.

White Balance

Select a white balance setting:

 Manual: Adjust the white balance manually by slider.

 Auto: Adjust the white balance automatically.

Noise Reduction

Adjust noise reduction level.

Brightness

Adjust brightness level.

Sharpness

Adjust sharpness level.



RS-232

Item

Description

ADDR

Select your settings to set up an RS-232 connection


Baud Rate


Protocol

VISCA over IP



## Overview of the Floating Live View

 The floating live views opens automatically in the Setting tab.

 To open the floating live view again after closing, click on the camera icon on top of Setting, Video Format, Network and System tabs.

1. Live View

2. Directional Pad and Zoom

3. Pan-Tilt Reset

Reset the pan-tilt position to the center.

4. IP Address

5. Head Count and Video Transmission Duration

Click the head count icon to display head count and the duration of your video transmission. Click the icon again to hide the information.

6. Close

Click the X icon to close the floating live view and stop transmitting video.






## Tracking Mode

### Manual Frame

Frames manually using the SmartFrame tool. The camera will default to frame entire group on screen once.




### Auto Frame

Frames entire group on screen automatically. If one is in view, the camera will default to p

-  The camera auto frames every time a presenter enters or leaves the screen.
-  If Auto Frame happens too frequently, the camera will wait for a duration before auto frame in the SmartFrame Framing Speed.
-  You can set either AI lens or main lens for detection lens in the Setting tab > Camera Lens.

### Preset Framing

Frames the presenter in real time as they move through the presets. If no one is within the presets, the camera will default to group framing.

-  Make sure you have defined preset positions. Preset 0 defaults to the center position.
-  Define overlapping presets for a smooth transition. When the presenter exits a preset, the camera will follow and move to the next preset.
-  When multiple presenters are within the frame, the camera will default to the preset with the smaller number taking








## Audio Tracking

Frames active speaker on screen.

If no one is speaking, the camera will stay in current position or default to group framing after Audio Tracking Idle Interval.

 You can set a duration before the camera returns to group framing in the Setting tab > Audio Tracking Idle Interval.

 The built-in microphone array is for video conferencing and cannot be used as an audio source for a video conference. To set up external microphones, download PTZApp 2.0 and go to the Audio tab.


 To reduce potential echoes, we recommend that you install the camera at least 1 meter away from the left and right walls or reflective surfaces.


## Presentation Mode

A combination of presets (not Preset Framing) and Audio Tracking.

Uses presets when active speaker is speaking; switches between presets; uses Audio Tracking and frames active speaker on screen when they are speaking; returns to presets.

If no one is speaking, the camera will stay in current position or default to group framing after Audio Tracking Idle Interval.

 Make sure you have defined presets for tracking. Presets 1-9 are available. Preset 10 defaults to the home position.

 You can set a duration before the camera returns to group framing in the Setting tab > Audio Tracking Idle Interval.




**Gesture Control**

- [?] Turn on Gesture Control in the Setting tab > Gesture Control.
- [?] AI lens must be set as AI detection lens. You must be inside the AI lens field of view.
- [?] The effective distance is up to 5 meters.

Gesture	Description
	Place your hand next to your face with your palm open and facing the camera for 2-3 seconds to turn Auto Frame on or off. Keep your hand 10cm away from your face.
Turn Auto Frame on or off	<p>Raise your hand over your head for 2-3 second to zoom in.</p> <p>[?] Tracking Mode will be turned off when you zoom in or out gestures. To turn on Tracking Mode again, do one of the</p>
Zoom In	<ol style="list-style-type: none"><li>1. Use gesture to turn on Auto Frame.</li><li>2. Long press the SmartFrame button on the switch between tracking modes.</li><li>3. Web interface: go to the Setting tab &gt; Tracking Mode.</li><li>4. PTA App 2: go to the Setting tab &gt; Tracking Mode.</li></ol> <p>Place your fist next to your face with your fist facing the camera for 2-3 seconds to zoom out. Keep your fist 10cm away from your face.</p> <p>[?] Tracking Mode will be turned off when you zoom in or out gestures. To turn on Tracking Mode again, do one of the</p>



# Video Format

Item		Description
H.264 Profile		Select a profile for streaming live.
IP Stream Resolution		Select a resolution for streaming over IP.
Frame Rate		Select a frame rate.
Bit Rate		Select a bit rate.  To live stream on Facebook, we recommend a bit rate under 4Mbps.
RTSP and RTMP		
Item		Description
RTSP and RTMP		Turn RTSP and RTMP on or off.
RTSP	Require Password	Turn Require Password on or off.
	Set RTSP Access Password	Set or change an RTSP access password.
	RTSP URL Address	Displays RTSP URL address.
RTMP	Server URL	Copy and paste your video platform's server URL.
	Stream Key	stream key.
	Start Using RTMP	Click Start to start streaming, Stop to stop streaming.








# Network

Item	Description
Hostname	Click the pencil icon to edit a hostname. Use upper and lowercase letters and numbers.
Static IP, DHCP	Set up static IP or DHCP. If Static IP is selected, enter your network settings to set up a static IP connection and click Confirm.





# System

Item	Description
Language	Select a language for the web interface.
Firmware Update	<p>Update your camera's firmware.</p> <p> Auto Update: Checks and updates online.</p> <p> Manual Update: Update the firmware using a file on a USB drive.</p> <p>Note: The camera will reboot and the connection will be lost. Please wait a few minutes and keep the power cable connected. Unplugging the cable during this process may damage the camera.</p>
Factory Default	<p>Reset your camera to factory default settings. You can choose to keep the IP address by selecting the checkmark.</p> <p> If you forgot your password, use PTZApp 2 to reset the web interface password to the default aver4321.</p>
Camera Reboot	Reboot the camera.
Change Password	<p>Change the web interface password.</p> <p> Use 6-10 characters, upper and lowercase letters and special characters (* ! % + = , - _ ^ / @ . ~).</p> <p> If you forgot your password, use PTZApp 2 to reset the web interface password to the default aver4321.</p>
SSL Certificate	Upload an SSL certificate.
Date Format	Select a date format.
Time Format	Select a time format.



Usage Data  
Information

Displays your camera information such as IP address.



# PTZApp 2




## Install PTZApp 2

1. Download PTZApp 2 to your computer from the official website  
(<https://communication.aver.com/model/ptzapp2>) or AVer Download Center.  
(<https://www.aver.com/download-center>).
2. Double-click the downloaded .exe file.
3. Follow the instructions displayed on the setup wizard to install PTZApp 2.
4. You'll be prompted to install plug-ins for additional features.  
Besides Main App, also select Install to support IP virtual streaming... on Windows or  
authorize with your username and password on Mac.

Windows

Mac

## Open and Quit PTZApp 2

1. Double-click the PTZApp 2 icon  to open PTZApp 2 in your browser.
2. Connect your AVer camera to your computer with a USB cable. When PTZApp 2 detects a  
USB-connected camera, a camera card will appear under USB Devices.
3. Click Setting on your camera card for pan, tilt and zoom controls, presets, and advanced settings.
4. To quit PTZApp 2, click the Show Hidden Icons arrow on the taskbar, right-click the PTZApp 2  
icon , and select Quit.
5. If you can't open PTZApp 2 after installation, click the Show Hidden Icons arrow on the taskbar,  
right-click the PTZApp 2 icon , and select Restore.



## Use PTZApp 2 with USB Devices


1. Run your video application and make a video call.
2. During your video call, you can use the PTZApp 2 to pan, tilt and zoom the camera in/out and enable/disable the WDR, brightness, and sharpness feature.
3. Launch PTZApp 2 ( ) and it will open in Chrome browser automatically.







4. Choose "USB device" and connect CAM570 to PC/laptop with USB cable . When detected, the product card will show up.
5. Set up IP address. The camera default IP address is 192.168.1.168. Click pencil icon ( edit IP address.
6. Click the setting icon to change Language, Hotkey Control, and PTZApp 2 Version.



 Language: Select desired language and click the check icon to confirm the selection.





 Hotkey Control: User can control the camera by using keyboard. This is a general list for all A  
USB Cameras. Backlight control equals to WDR function in CAM570.

 PTZApp Update: Get current PTZApp 2's version number and do auto update here.











 Full Screen: PTZApp 2 can switch to full screen mode. Click  icon and v  switch to full screen mode. In full screen mode, user can use direction panel to control camera direction. Click  " icon to go back to normal screen view.






 People Count and Stream Interval: Click the  icon to show people count stream interval. Click the  or  icon to hide the stream interval.

 Control Panel: To control the camera direction, zoom in and out during your video ca



9. Setting: Click "Setting" button to set up parameters of the camera and speakerphone.  
arrow icon to leave the Setting page.

 PTZ Control: Use control panel to set up preset positions.

Most settings are the same as those on the web interface. Refer to  
Interface chapter for details.

 Setting: To set up parameters of the camera.

[<PTZ Co](#)



# Virtual Stream

Virtual Stream allows you to send camera video over IP networks to video conferencing software such as Teams, Skype and Zoom.

- ❓ Video latency may vary depending on your CPU. We recommend Intel Core i5 or higher.
- ❓ Video Stream transmits video only.

To start a virtual stream:

1. Make sure your camera and computer running the video conferencing software are connected to the same network.
2. Make sure you have enabled your camera's RTSP setting on its web interface.
3. Go to Virtual Stream > click Start on your camera card.
4. Enter the RTSP password when prompted, if any.
5. Open your video conferencing software. Choose AVer USB VCam as the video source, not the camera model name.
6. For pan, tilt and zoom controls, use a remote control or VISCA commands.

To stop a virtual stream:

Click Stop on your camera card



# Smart Gallery

Smart Gallery creates a close-up frame for each participants and present them in a single stream composited gallery.

- ❓ Smart Gallery supports 10-20 people depending on your AVer camera model.
- ❓ To create better close-ups, allow some space between participants.
- ❓ To set up your camera, stop Smart Gallery, return to USB Devices page, and then click Settings on your camera card.

To use Smart Gallery:

1. Connect your camera to the computer with a USB cable.
2. Go to Smart Gallery > click Start on your camera card.
3. Select a layout.





# Audio Setting

After enabling the Audio Tracking function, you can further set up the Audio Setting to avoid the camera from tracking to the sound from the audio-output devices rather than the live sound from presenters or participants. The audio-output device could be a standalone speaker, PC, HDMI d or speakers used to play the RTSP/RTMP streams.

To enable Audio Tracking function, please refer to Audio Tracking in the [<Tracking](#)  
To enter the Audio Setting page, on the Main Page of PTZApp 2, click Setting > Audio.



Please refer to the instructions in the below scenarios.

Scenario 1: For the environment with a camera and a standalone speaker on the local side. The speaker is not connected to the computer; and the Audio Input port of the camera is not in use (not connected to an external microphone), please use Set 1, which is set as default.

This is a scenario for a meeting room with a speaker on the table without connecting to any computer. In order for the camera to track the voices from the participants in the meeting room instead of the sound from the speaker, you will have to define the speaker as an audio reference for the camera. To do so,

1. In Set 1, select On in the Line In for Tracking Source Reference field.
2. Use a 3.5mm audio cable to connect the Line-Out port of the speaker to the Audio Input port of the camera.

Scenario 2: For the environment with a camera, and a speaker connected to a computer on the remote side, while the Audio Input port of the camera is not in use (not connected to an external microphone), please use Set 2.

In this scenario, the speaker has been connected to a computer, which may generate the sound from participants from the remote side. In order for the camera not to track the voices from the speaker, you will have to select the speaker as the Speaker Source, so the camera will not track the speaker source. To do so,

1. Turn off Set 1.  
In Set 1, select Off in the Line In for Tracking Source Reference field.



- a. Select Off in the Line In for External Microphone field.
- b. Select the speaker you are using for the conference from the Speaker S
- c. A dialog will appear "The function needs to restart the system. It will take an  
20~60 seconds.". Click Confirm.

3. The setup is completed.



Scenario 3: For the environment with an external microphone connected to the Audio-Input port of the camera, while the camera is also connected to multimedia devices, such as a TV, monitor, computer, etc. the devices used to play the RTSP/RTMP video/audio streams, in this circumstance, please use the external microphone. Since an external microphone has been connected to the camera, the voices received from the external microphone can be transferred to the multimedia devices connected to the camera, e.g. TV, monitor. In order for the camera not to track the voices from the multimedia speakers, you will have to enable the Line In for External Microphone and select the multimedia speaker as the Speaker Source, so the camera will not track the speaker source. To do so,

1. Turn off Set 1.

In Set 1, select Off in the Line In for Tracking Source Reference field.

2. In Set 2, Select On in the Line In for External Microphone field. A dialog will appear: "The function needs to restart the system. It will take around 20~60 seconds."

3. Set up the Speaker Source based on the multimedia device you use.



If the speaker is from an USB device, e.g. a computer: In the Speaker Source field, select the speaker of the computer used for the conference.



If the speaker is from a multimedia device used to play the RTSP/RTMP





4. Click the Confirm button in the above dialog field. The setup is completed.



# EZLive

Please go to <http://www.aver.com/download-center> to download the AVer EZLive software. After downloading, double-click on the file and follow the on-screen instructions to complete the installation.

## Use AVer EZLive

During a video call, EZLive can help user to do:

- (1) Camera ePTZ
- (2) Volume control for the speaker connected
- (3) Capture camera's still images
- (4) Record video
- (5) Live stream to Youtube, Livehouse.in, USTREAM...etc.
- (6) Camera Zoom in/out
- (7) Capture PC screen shot
- (8) Record PC screen video
- (9) Set up livestream
- (10) Open file management to retrieve photos and video files
- (11) Livestream setting
- (12) Drawing tool

(1)

(2)

(3)

(4)

(5)