

VC520 Pro2

User Manual



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.

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.

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.

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WARNING

- To reduce 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 correct power supply voltage to avoid 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 lens holder to move the camera

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.

CAUTION

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

MORE HELP

For FAQs, technical support, software and user manual download, please visit:

Global: https://www.aver.com/download-center **USA:** https://www.averusa.com/business/support/

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Contents

Pack	kage Contents	1
Prod	duct Introduction	2
	Overview	2
	Camera LED Indicator	2
	Speakerphone LED Indicator	3
	Expansion Speakerphone/Microphone Connection	4
	Phone In Connection	5
	Pan and Tilt Angle	5
	Audio Signal Receive Range	6
	Remote Control	7
Insta	allation	10
	Device Connection	10
	RS232 Connection	12
	Wall Mount Installation	18
Opei	rating the Camera	21
	Make a Video Call	21
	Make a Connection through the Browser	21
	Web Settings	24

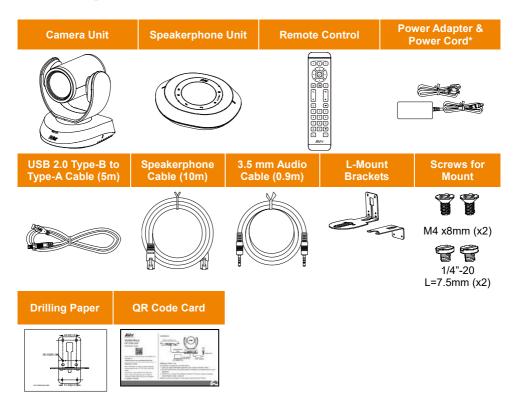
irst Time Login	4
ive Screen Operation2	:5
set Up the Preset2	:6
select the Preset Position2	7
Camera Settings2	7
Tracking Mode2	28
Framing Speed2	29
Smart Frame Preset Point	30
Auto Focus3	30
Camera Focus3	31
Home Position3	31
Sleep Position3	31
Sleep Timer3	31
On Screen Menu3	31
Camera Binding3	32
Save Preset3	32
mage Settings3	2
Image Flip3	32
Image Mirror3	32

	True WDR	33
	Frequency	33
	White Balance	33
	Noise Reduction	33
	Brightness	33
	Sharpness	34
	Saturation	34
	Low Light Compensation	34
	RS232 Settings	34
Vide	eo Format Settings	35
	H.264 Profile	35
	IP Stream Resolution	35
	Frame Rate	35
	Bit Rate	36
	RTSP	36
	RTMP	37
Net	work Settings	37
	DHCP	37
	Static IP	38

System Settings
Language39
Firmware Update39
Factory Default40
Camera Reboot40
Change Password42
SSL Certificate 42
Date Format42
Time Format42
Time Correction Mode43
Information44
Audio Settings44
Noise Suppression44
Automatically Gain Control45
Echo Cancellation45
Keyboard Noise Suppression45
Phone In Jack45
PTZApp 246
Install PTZApp 246

Use PTZApp 2 with USB Devices	.46
Install EZLive	.55
Use EZLive	.55

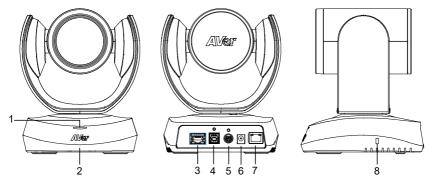
Package Contents



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

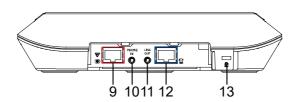
Product Introduction

Overview



- 1 Status LED
- 2 IR Sensor
- 3 Speakerphone Port (Blue cable)
- 4 USB3.1 Type B Port

- 5 RS232 In/Out Port
- 6 DC 12V Power Jack
- 7 Ethernet Port
- 8 Kensington Lock



- 9 Speakerphone Port (Red Cable, for extended speakerphone and microphone connection)
- 10 Phone In Port
- 11 Line Out Port
- 12 Camera Port (Blue Cable)
- 13 Kensington Lock

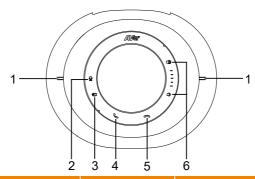
Camera LED Indicator

Power on: Blink blue once

Start-up: Solid red

Video mute: Solid orange Video on: Solid blue

Speakerphone LED Indicator



No.		LED Indicator	Status	
LED Status Indicator	r	Solid red, then blink white once	Start-up	
		Solid blue	Power on	
		Solid orange	Idle	
		Solid red	Mic mute (in meeting)	
		Solid blue	Mic unmute (in meeting)	
2. Mute/Unmute		Solid red	Touch to mute the microphone.	
T		Solid blue	Touch to unmute the microphone.	
3. Phone input		Solid blue	Connects with external device	
		Solid white	Temporarily disconnects the connection	
			with the device	
		Off	No connection with external devices	
4. Make/Answer call		Solid green	Touch to answer the incoming call.	
5. Hang up call		Solid red	Touch to hang up the call.	
6. Volume up/down) / ()	Solid white	Adjust the volume up and down. When	
·	•		adjusting the volume up and down, the	
			volume LED indicator will light up in	
			blue.	
		Solid red	Touch the volume down for 1 second to	
			mute the speaker out, the volume down	
			button will light up in red.	

Expansion Speakerphone/Microphone Connection

There are 2 types of expansion solutions that can be extended from the VC520 Pro2 speakerphone. Please purchase the expansion speakerphone and/or microphone directly from AVer or an AVer reseller.

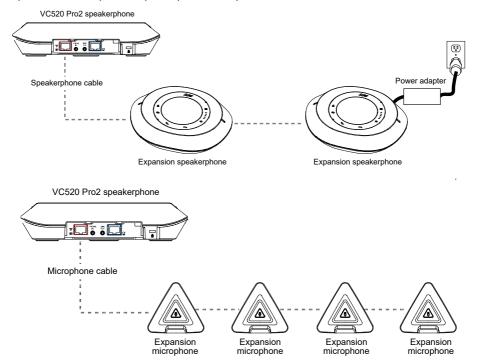
Expansion Speakerphone Requirements:

VC520 Pro2 Firmware version: 7200.00 or later

- FONE540 Firmware version: 7000.44 or later

[Note]

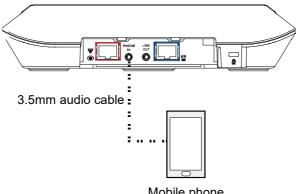
- The VC520 Pro2 can support up to two expansion speakerphones, however, the daisy-chain expansion cable cannot exceed over 40m in total.
- Please connect the power supply for the expansion speakerphone when daisy-chaining over 20m.
- Please connect the power supply when upgrading the firmware for the expansion speakerphone.
- The expansion speakerphone cannot be used as the main speakerphone; it can only be used with the VC520 Pro2.
- The speakerphone/microphone cables will be included in the package contents when the user purchases the expansion speakerphone/microphone.



[Note] The VC520 Pro2 can support up to four expansion microphones, however, the daisy-chain expansion cable cannot exceed over 40m in total.

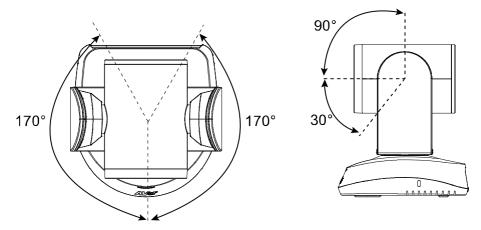
Phone In Connection

Users can connect a mobile phone to the Phone in port on the speakerphone as a hands-free speaker. When the device connects with the speakerphone, the icon will light up in blue. Touching the icon will temporarily disconnect the connection of the device with the speakerphone; touching the icon again will resume the connection.



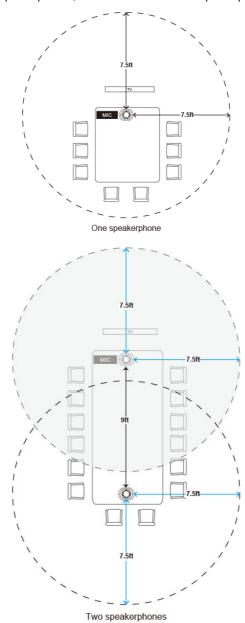
Mobile phone

Pan and Tilt Angle

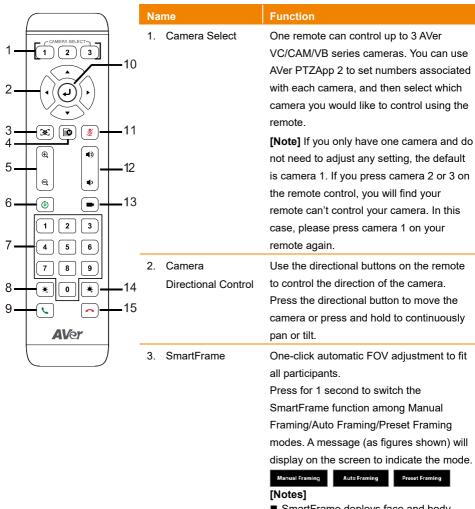


Audio Signal Receive Range

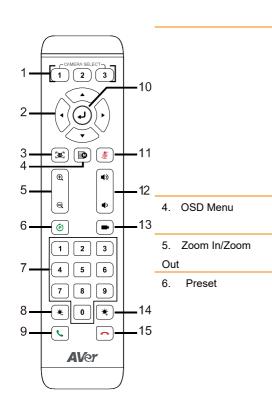
The best distance for the speakerphone to receive audio signal is within 7.5ft (2.3m) in radius. When connecting two or more speakerphones, the distance between the speakerphones must be 9ft (2.7m).



Remote Control



- SmartFrame deploys face and body detection technology. People wearing masks and side facial profiles can still be detected. The maximum detection distance is 7~10 meters
- Camera will track people while moving. It will start to focus and zoom in once people stop moving for 1~5 seconds, depending on the framing speed you



choose. The default framing speed is "Middle" speed. "High" speed is more suitable for one person tracking.

■ Preset Framing: Set up preset points in advance (Only for Preset points 1~9. Preset 0 is for home position). Camera tracks one presenter and shoots the preset areas instead of focusing and zooming into presenter.

To call out OSD menu. Not supported for VC520 Pro2.

Increase/Decrease the camera zoom.

The Preset button on the remote serves 2 functions.

To Save a Preset – Move camera to desired position. Press and hold the preset button until you receive the save message on the screen. Select preset position button 0-9 to store the current camera position. Repeat steps if needed.

To Load a Preset - Press the preset button and preset position button 0-9 to load a saved camera position. Repeat steps if needed.

Preset
 Position/Number
 Buttons

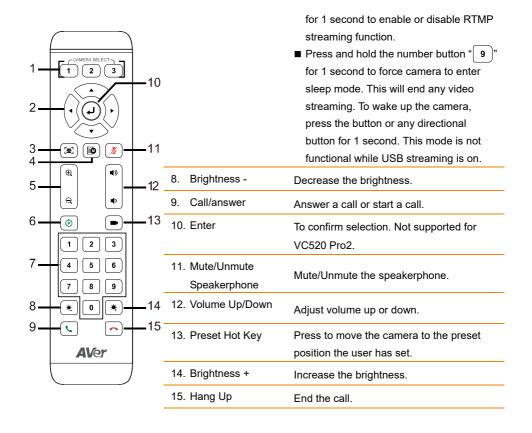
Preset position buttons are used in conjunction with the Preset button to save positions. There are a total of 10 presets.

Press the preset button first and then press 0~9 for the camera to move to the saved position.

[Notes]

- Press and hold the number button "(1)" for 1 second to turn on or off the WDR function.
- Press and hold the number button "5" for 1 second to turn on or off the SmartFrame function.
- Press and hold the number button "

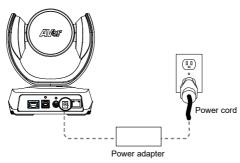
8



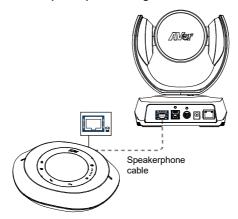
Installation

Device Connection

1. Connect the camera to power outlet.

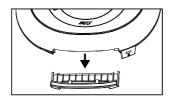


2. Connect the camera to the speakerphone using the included compatible cable.



[Notes]

- The speakerphone port of the camera and the camera port of the speakerphone are both marked in blue.
- When connecting to the speakerphone, please remove the back port cover of the speakerphone for successful cable connection. To remove the back port cover, simply pull off from the speakerphone unit.



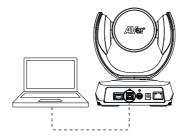
3. Connect other necessary cables.

[Notes]

- Secure the USB and RS232 cables with attached screws. RS232 cable is an optional accessory; please purchase from AVer.
- Make sure the cable is well connected to the connector on the camera before securing the cable.



4. Connect the camera to the computer/laptop using the included compatible cable..



[Notes]

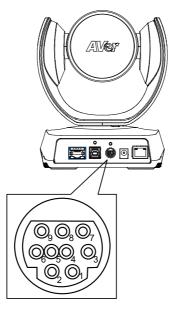
- Use the USB 2.0 cable included in the package.
- VC520 Pro2 has the USB 3.1 port which is USB 2.0 compatible.

Maximum resolution/fps for USB 2.0 and USB 3.1 ports are shown below.

	M-JPEG/fps	NV12/fps	YUV/fps
USB 2.0	1080@60 fps	720p@10 fps	720p@10 fps
		480p@30 fps	480p@30 fps
USB 3.1	1080p@60 fps	1080p@30 fps	1080p@30 fps

RS232 Connection

■ Camera RS232 Port Pin Definition

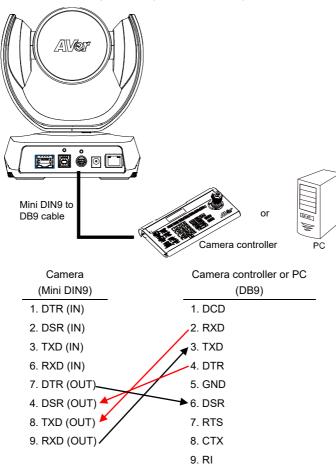


Function	Mini DIN9 PIN#	I/O Type	Signal	Description
	1	Output	DTR	Data Terminal Ready
VISCA IN	2	Input	DSR	Data Set Ready
VISCA IN	3	Output	TXD	Transmit Data
	6	Input	RXD	Receiver Data
	7	Output	DTR	Data Terminal Ready
	4	Input	DSR	Data Set Ready
VISCA OUT	8	Output	TXD	Transmit Data
	9	Input	RXD	Receiver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

■ Computer/Keyboard Controller and Camera Connection

Direct Connection

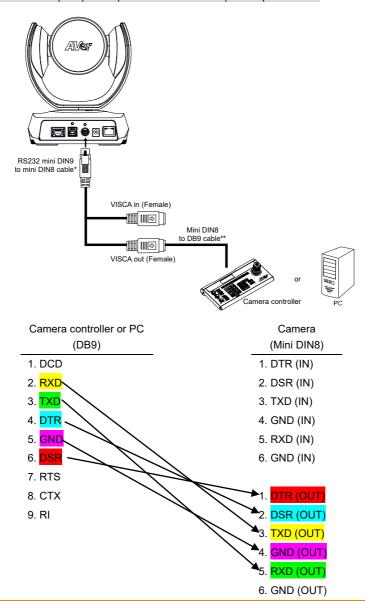
If users do not user AVer RS232 adapter cable, please refer to the pin connection shown below.



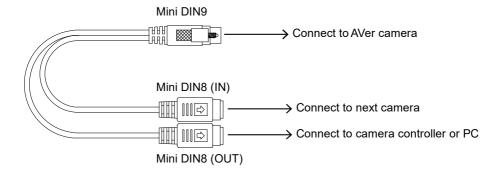
Use the RS232 mini DIN9 to mini DIN8 cable (Sold separately. Please purchase from AVer.).

Users can purchase AVer RS232 min DIN9 to mini DIN8 adapter cable* to connect with Computer or keyboard/controller.

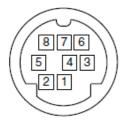
- * RS232 mini DIN9 to mini DIN8 cable (PN: 064AOTHERCDC)
- ** Mini DIN8 to D-Sub9 (DB9) cable (PN: 064AOTHERBPK) is an optional item.



*RS232 mini DIN9 to mini DIN8 Cable Pin Definition



Mini DIN8 Pin Definition



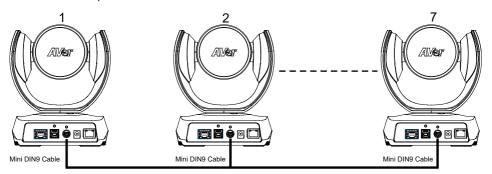
No.	Pin
1	DTR
2	DSR
3	TXD
4	GND
5	RXD
6	GND
7	NC
8	NC

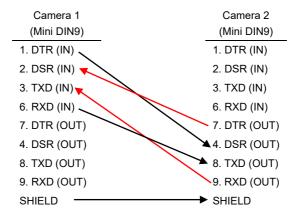
■ Camera Cascade Connection

Direct Connection

If users don't buy AVer RS232 adaptor cable, please refer to the pin connection shown below for cascading cameras.

Total can connect up to 7 cameras.



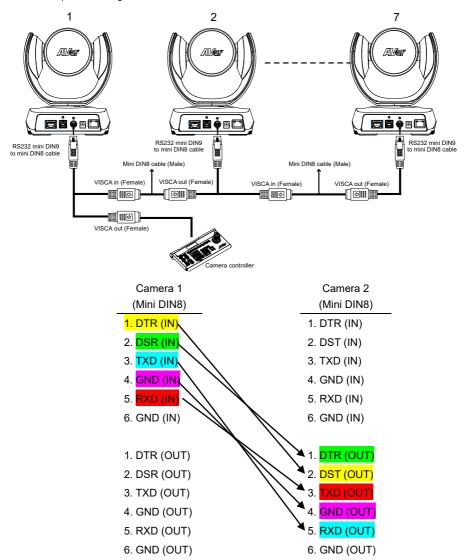


Use the RS232 mini DIN9 to mini DIN8 cable

Total can connect up to 7 cameras.

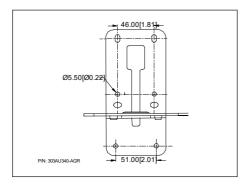
To facilitate the camera cascade, users can purchase AVer RS232 adapter cable.

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



Wall Mount Installation

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

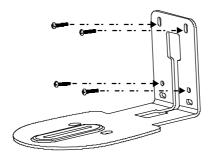


2. Use the screws (not included) to secure the L-mount bracket $\boxed{\mathsf{A}}$ on the wall.

Screw

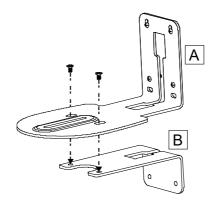
For Cement wall: M4 x20mm self-tapping screws (x4) + Plastic conical anchor

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



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

Screw: M4 x8mm (x2)

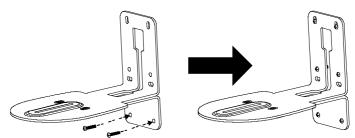


4. After assembling the L-mount brackets, use the screws (not included) to secure the L-mount bracket B on the wall.

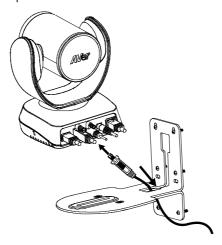
Screw

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

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

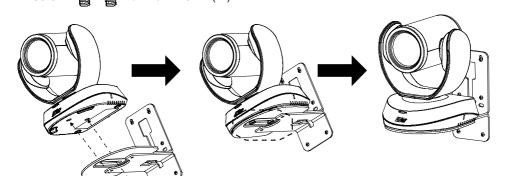


5. Pass the cables through the hole on the L-mount brackets and connect the cables to corresponding connection ports.



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

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



Operating the Camera

Make a Video Call

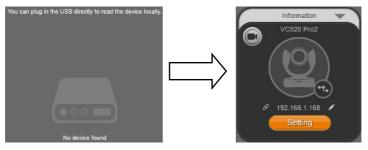
- Make sure all devices (VC520 Pro2, speakerphone and PC/laptop) are well connected and power is on.
- Run your video application (Zoom, Microsoft® Teams, Skype for Business, Skype, Google Meet, 2 Intel® Unite™, RingCentral, BlueJeans, V-Cube, LiveOn, CyberLink U Meeting®, TrueConf, Adobe Connect. Cisco WebEx[®]. Fuze. GoToMeeting™. Microsoft[®] Lync™. Vidyo. vMix. WebRTC. Wirecast, XSplit, etc.) on your PC or laptop.
- 3 Set the VC520 Pro2 camera and speakerphone as the primary camera and speakerphone for your video application (refer to your video application user guide). You can now make your call.

[Note] The VC520 Pro2 is a plug-and-play conference camera. The system requires no special drivers. but we do recommend installing the PTZApp 2 for a better user experience. For information on how to install and use the PTZApp 2, refer to the PTZApp 2 section in this user manual.

Make a Connection through the Browser

VC520 Pro2 has an Ethernet port for IP streaming and allows administrators to remotely control and set up the camera via an internet access. Moreover, VC520 Pro2 also supports RTSP and RTMP functions. For more details, please contact our technical support.

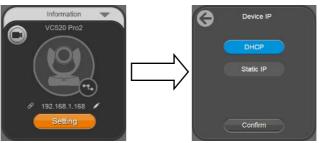
- Make sure the VC520 Pro2 has an internet access connection. 1.
- Launch PTZApp 2* (11) and connect VC520 Pro2 to PC with USB cable. The camera default IP 2. address is 192.168.1.168



[Note] The browser supports:

- Chrome: version 76.x or above
 Firefox: version 69 or above
 Edge: 89.0.774.45 or above
- IE: Doesn't support

3. Click pencil icon () to edit IP address**.



4. Click weblink icon () to launch Chrome page. Please enter the password (default password is aver4321). User will be asked to set a new account and password. (Please enter AVer PTZApp2 software to reset password back to default while password is forgotten.)



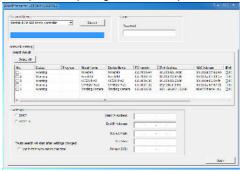
5. After editing IP address, user can access web settings of the camera with only Ethernet cable connection. Unplug the USB cable.

6. The main web screen is displayed as below.



^{*} For information on how to install and use the PTZApp 2, refer to the PTZApp 2 section in this user manual.

- ** To support IP address changes in groups, user can download AVer IP Finder app.
- Download the IP Finder from https://www.aver.com/download-center (Global & European Headquarters) or https://www.averusa.com/business/support/ (USA).
- 2. Run the IP Finder.
- 3. Click "Search", and all available devices will be listed on the screen.
- 4. Select a camera from the list. The corresponding fields of IP address will display.
- To change the IP address of camera, user can select "DHCP" or "Static IP".
 The DHCP should get the IP address from local dynamic IP sever. The static IP, user can enter the specific IP address. Click "Apply" to apply the setting to the camera. The password is required (default password is aver4321).
- 6. Click "Search" button to re-scan the camera.
- 7. Double-click on the IP address of camera from the list can connect to camera through the browser.
- 8. Enter the default password (aver4321) to login to Web setup screen.



Web Settings

VC520 Pro2 supports Ethernet connection; users can enter the IP address into the web browser to connect to the camera for detail settings.

First Time Login

To find the IP address of the camera, please refer to "Make a connection through the Browser" section.

- 1. Open the browser on your laptop/PC and enter the IP address of the camera.
- 2. Enter the password at login screen. The default password is "aver4321".
- 3. The main web screen is displayed.



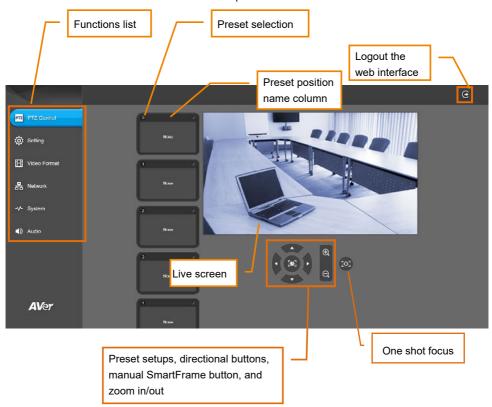
Live Screen Operation

User can control the camera direction, zoom in/out, and preset selection.

[Notes]

- The system will force the previous login to log out, when there is a second login.

 If the web page is idle without any request for more than 4 hours, user will be logged out.
- The resolution of live screen is 840x480/ 10fps.



Set Up the Preset

User can set 10 preset positions.

- 1. In live screen, use mouse to scroll up or down and click the preset number frame (0~9).
- 2. Use ▲, ▼, ◄, ▶ and zoom in/out buttons to adjust the camera screen view to desired position.
- Select "Set Preset" button to save the preset. The system will capture the preset screen view and display in preset number frame.



4. Select of icon to edit name of preset frame. Click other web interface to save the name edited.



5. To set another preset, repeat the above steps.

Select the Preset Position

Preset positions need to be set.

Use mouse to scroll up or down to select the preset. The live screen will move to the preset screen view.



Camera Settings

The video icon is to turn on camera live view while adjusting any settings.



Tracking Mode

Select Setting > Camera > Tracking Mode > Off, Manual Frame, Auto Frame, or Preset Framing.



- Off: Tracking mode is disabled.
- Manual Frame: User one-click SmartFrame button and camera will adjust view angle to fit all participants in screen for once.
- Auto Frame: Camera automatically adjusts view angle to frame all participants on screen every time when it detects participants' faces or bodies. This action will be activated once people in the room sit or stand still for 1~5 seconds, depending on the framing speed you select.* Once all the participants are in frame, the camera will keep the image stable by not completing any action until subjects move in or out of the screen. When a participant touch the sides of the screen, it will trigger the camera and automatically track, detect, and frame all the participants again.



*The default framing speed is "Middle" speed. "High" speed is more suitable for one person tracking.

■ Preset Framing: Set up preset points in advance. (Only for Preset points 1~9. Preset 0 is for home position). This is designed for requiring a specific zooming area with preferred image proportion. Camera tracks and frames all the participants in the screen if none of them touch any preset area. When any of them touch a preset area, the camera will immediately shoot the preset zones instead of focusing and zooming into presenter. To keep the screen stable, whenever there is a person in the area, the camera won't move any more until no one shows up. However, the camera can detect the direction where the last person goes. If the person goes to the next preset area with overlap section, the camera will directly move to the next preset area. Thus, to ensure smooth transition, please set up zones with overlapping presets.

If the preset zones do not overlap and when the last person leave the preset area, camera will zoom out to wide to find people and frame them again.

If more than 2 presets areas are touched by 2 persons, camera will go to preset 1. The priority is preset 1>preset2> preset 3....>preset 9

Overlap beginning & end of each zone



[Note] VC520 Pro2 frames people in masks or any facial profile up to 7~10 meters away!



Framing Speed

Select Setting > Camera > Framing Speed > Slow Speed, Middle Speed (default), or High Speed. When in auto framing or preset framing mode, camera will automatically frame people if they stand still

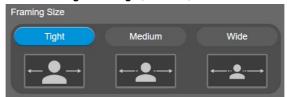


- **Slow Speed**: camera starts to frame people if they don't move for 5 seconds.
- Middle Speed: camera starts to frame people if they don't move for 3 seconds.
- **High Speed**: camera starts to frame people if they don't move for 1 second.

[Note] The default framing speed is "Middle" speed. "High" speed is more suitable for one person tracking.

Framing Size

Select Setting > Camera > Framing Size > Tight, Medium, or Wide.



- Tight (default): It provides a close-up view of meeting participants.
- **Medium**: It provides a medium view of meeting participants.
- Wide: It provides a wide view of meeting participants.

Smart Frame Preset Point

Select Setting > Camera > Smart Frame Preset Point > Default(Center of the screen) or Preset0 ~ Preset9.

The default is the central of the image screen. Choose a preset point so that camera can detect participants from the wide view of the assigned preset area direction.



Auto Focus

Set auto focus mode.

First select Setting > Camera > Camera Focus > Auto.

Select Setting > Camera > Auto Focus > PTZ or Continuous.



- PTZ: Click the button (such as pan, tilt, or zoom in/out) to adjust focus once.
- Continuous: The camera will adjust the focus when the objects have moved.

Camera Focus

Set auto/manual focus mode

Select Setting > Camera > Camera Focus > Auto or Manual.



- Auto: Camera adjusts focus automatically.
- Manual: You can adjust the camera focus by moving the control bar below.

Home Position

Every time when powering on the camera, it will turn to this position.

Select Setting > Camera > Home Position > Last Operation Position, Factory Center Position, or Preset 0.



Sleep Position

When the camera idles for certain period, it will enter sleep mode and go to the sleep position. Please set up sleep timer to enable sleep mode.

Select Setting > Camera > Sleep Position > Factory Downside Position or Preset 9.



Sleep Timer

Set the camera idle time to enter sleep mode.

Select Setting > Camera > Sleep Timer > Off, 10 sec, 5 min, 10 min, or 20 min.

Please notice that whenever there is USB streaming or RTSP/RTMP streaming, the camera won't enter sleep mode.



On Screen Menu

Enable/disable on screen display status information. For instance, when it is at auto frame mode, it will appear "Auto framing" on the bottom of the screen. If you don't want to see the words, please select Off.

Select Setting > Camera > On Screen Menu > Off, On, or Load Preset Off.



Camera Binding

With multiple cameras connection, users can set each camera to buttons 1 to 3 on the remote control. Select **Setting > Camera > Camera Binding > Camera1**, **Camera2**, or **Camera3**.



Save Preset

Enable/disable "save preset" function. When applicable, IT personnel can limit end-user access to change preset points by locking "save preset" function and switching this function off.

When off, user can't save preset points via IR remote, Hot key, VISCA, and webpage.

Select Setting > Camera > Save Preset > Off or On.



Image Settings

Image Flip

If the VC520 Pro2 is installed in the upside down position, please enable the "Flip". Select Setting > Image > Image Flip > Off or On.



Image Mirror

To mirror the camera image.

Select Setting > Image > Image Mirror > Off or On.



True WDR

In back light environment, enabling WDR to improve the brightness of image.

Select Setting > Image > True WDR > Off or On.

The frame rate will be limited to 30fps while WDR is on.

If user enables this function in a normal light condition, the image will become over exposure and encounter image blur.

When WDR is enabled, camera has taken long exposure and user cannot manually adjust the brightness of image.



Frequency

Select the frequency of the camera.

Select Setting > Image > Frequency > 50 HZ or 60 HZ.



White Balance

Select the white balance setting for various light conditions or color temperature.

Select Setting > Image > White Balance > Auto or Manual.



Noise Reduction

To reduce the noise from the signal.

Select Setting > Image > Noise Reduction > Off, Low, Middle or High.



Brightness

Adjust the value of brightness.

Select Setting > Image > Brightness > 1 ~ 9.



Sharpness

Adjust the value of sharpness.

Select Setting > Image > Sharpness > Off, Low, Middle or High.



Saturation

Adjust the value of saturation.

Select Setting > Image > Saturation > 1 ~ 9.



Low Light Compensation

Select Setting > Image > Low Light Compensation > Off or On.

Please notice that the frame rate will drop to 10~15 fps.



RS232 Settings

When VC520 Pro2 connects with PTZ camera controller through the RS232 port, please set up **ADDR**, **Baud Rate**, **Protocol**, and **Visca Over IP** settings.

Select Setting > RS232.



Video Format Settings



H.264 Profile

While in live broadcasting, user can choose preferable profile to get best streaming quality.

Select Video Format > H.264 Profile > Baseline Profile or High Profile.



IP Stream Resolution

Set up the resolution for IP stream. Not supported for USB video stream.

Select Video Format > IP Stream Resolution only (not for adjusting USB video stream) > 1080P, 720P, 480P, or 360P.

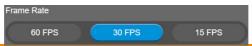
Please notice that if USB streaming (VC software side) is already in use at 1080p/30fps, the IP streaming resolution (RTSP) will be limited to 720p/30fps. It's better to disconnect USB streaming while having RTSP/ RTMP IP streaming to ensure the video transmission quality.



Frame Rate

Set up the frame rate value.

Select Video Format > Frame Rate > 60 FPS, 30 FPS, or 15 FPS.



Bit Rate

Set up the bit rate value.

Select Video Format > Bit Rate > Auto, 512 Kbps, 1 Mbps, 2 Mbps, 4 Mbps, 8 Mbps, 16 Mbps, or 32 Mbps.

For Facebook live broadcasting, it's suggested to choose less than 4Mbps to ensure smooth streaming.



RTSP

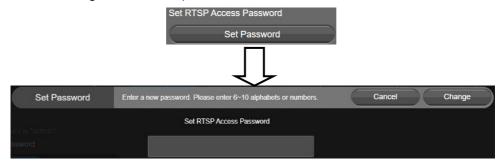
To use RTSP player connecting to the camera, please enter the RTSP URL which displays on the web in your application such as VLC, PotPlayer or Quick Time.

Select On/Off to enable/disable password requirement while opening RTSP.



Change RTSP Password

- 1. Select Video Format > RTSP > Set RTSP Access Password > Set Password.
- 2. Enter the new password.
- 3. Select Change to save the new password.



RTMP

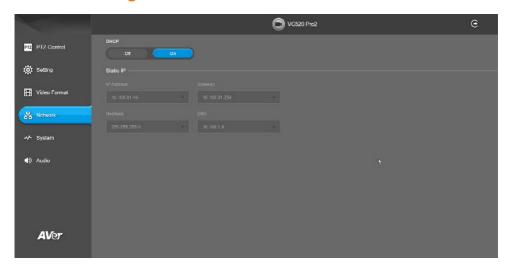
Set up for uploading the camera's live view to the broadcasting platform (e.g. YouTube).

Select Video Format > RTMP.

- Locate the RTMP server URL and stream key from the broadcasting platform and enter in Server URL and Stream Key fields.
- 2. Select **Start** to begin uploading the live video of the camera to the broadcasting platform.
- 3. Select **Stop** to stop uploading the video.



Network Settings



DHCP

Enable/disable DHCP function.

Select Network > DHCP > Off or On.



Static IP

Assign a fixed IP address to the camera. Please turn off the DHCP function.

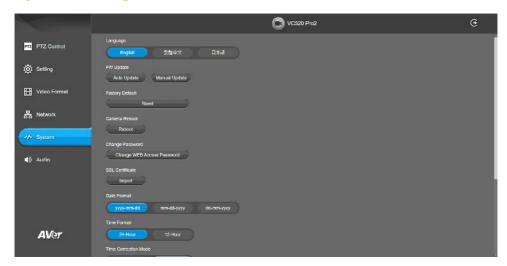
- 1. Select Network > DHCP > Off.
- 2. Click pencil icon and enter the **IP Address**, **Gateway**, **NetMask**, and **DNS** in the corresponding fields.
- 3. Select **Confirm** to complete the setting.







System Settings



Language

Select the language of the system.

Select System > Language > English, Traditional Chinese, or Japanese.



Firmware Update

Update the camera's firmware.

Select System > FW Update > Auto Update or Manual Update.



- Auto Update: The system will check firmware version from AVer server and request to update.
- Manual Update: To update the firmware from specific location.

After updating, the camera will **reboot** and the connection will be lost. Please wait for few minutes and always keep the power cable connected. If unplugging the power during this process, it will cause damage of the device.

Factory Default

Reset the camera back to factory default setting.

- 1. Select System > Factory Default > Reset.
- 2. User can choose to keep current IP address or back to default.
- 3. Select Continue to reset back to factory default.

[Note] When factory default is activated, the password of Webpage login will not be set to default. For security concerns, to reset password of webpage access, please download PTZApp 2 to reset it.



Camera Reboot

Restart the camera manually.

- 1. Select System > Camera Reboot > Reboot.
- 2. Select Continue to reboot the camera.

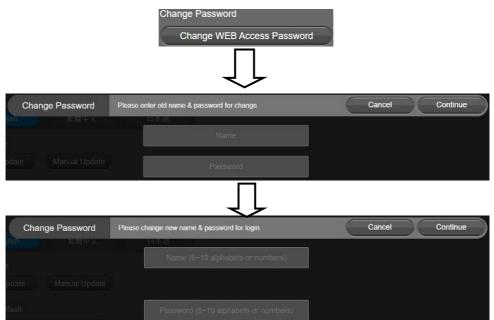


Camera Reboot Reboot

Change Password

Change the web login password. The default password is aver4321.

- 1. Select System > Change Password > Change WEB Access Password.
- 2. Enter the old account and password. Select Continue.
- 3. Enter the new account and password. Select Continue to save the new setting.
- 4. If users forget the password and want to revert back to the default password, please use PTZApp 2 to reset it.

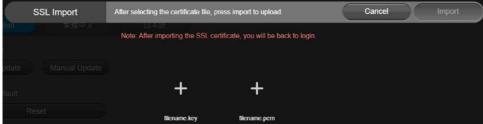


SSL Certificate

Import the SSL certificate from specific location.

- 1. Select System > SSL Certificate > Import.
- 2. Select the type by clicking "+".
- 3. Direct the file location.
- 4. Select Import.





Date Format

Select the date format.

Select System > Date Format > yyyy-mm-dd, mm-dd-yyyy, or dd-mm-yyyy.



Time Format

Set up the time format.

Select System > Time Format > 24-Hour or 12-Hour.



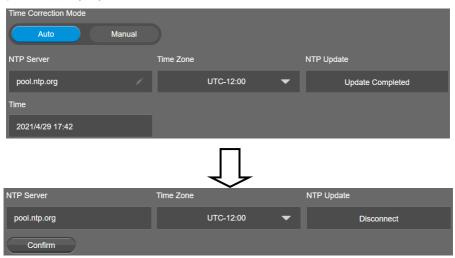
Time Correction Mode

Adjust time automatically or manually.

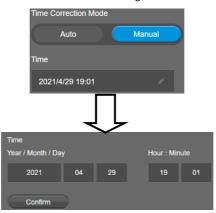
Select System > Time Correction Mode > Auto or Manual.

Auto: The system time will be set by NTP server on the network. Click the pencil icon of NTP Server and enter the URL of NTP server. Select the Time Zone. Select NTP Update to save setting. Select Confirm to start auto time adjustment.

[Note] Our default NTP server is located in the USA. If this does not work in your country, please manually key in the desired NTP server.



Manual: User can set up time manually. Click the pencil icon and enter the Year, Month, Day, Hour, and Minute. Select Confirm to save the settings.



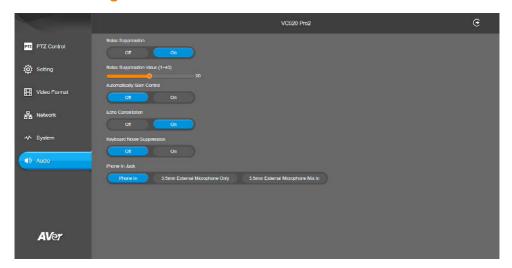
Information

Display the information of Model Name, Firmware Version, Serial Number, IP Address, and MAC Address.

Select System > Information.



Audio Settings



Noise Suppression

It is to reduce ambient noise.

Select Audio > Noise Suppression > Off or On.

When enabling the noise suppression function, please set value of noise suppression (1~40).



Automatically Gain Control

Enable/disable the auto gain control. It is to control ambient sound level and maintain a suitable output, despite variation of the one at the input.

Select Audio > Automatic Gain Control > Off or On.



Echo Cancellation

Enable/disable echo situation

Select Audio > Echo Cancellation > Off or On.



Keyboard Noise Suppression

Enable/disable keyboard noise reduction.

Select Audio > Keyboard Noise Suppression > Off or On.



Phone In Jack

Set Phone in input source.

Select Audio > Phone In Jack > Phone In, 3.5mm External Microphone Only, or 3.5mm External Microphone Mix In.



- Phone In: When the mobile phone is connecting to Phone in port, please select "Phone In" option.
- **3.5mm External Microphone Only:** The speakerphone will transfer the sound that it receives from the external microphone (connected on phone in port) to far site.
- 3.5mm External Microphone Mix In: The speakerphone will transfer the sound that it receives from the external microphone (connected on phone in port) and speakerphone to far site.

PTZApp 2

In PTZApp 2, user can change the IP address setting of VC520 Pro2, configure the parameters of the camera, set up AI tracking functions and some advanced image and audio settings, pan, tilt, and zoom the camera.

Install PTZApp 2

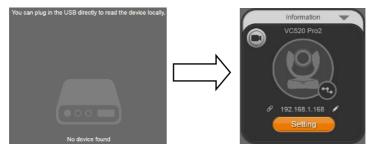
Please go to https://www.aver.com/download-center (Global Headquarters), or https://www.averusa.com/download-center (European Headquarters), or https://www.averusa.com/business/support/ (USA) to download the PTZApp 2. After downloading, double-click on the file and follow the on-screen instructions to complete the installation. After installing the PTZApp 2, double-click on the PTZApp 2 icon to run the application.

Use PTZApp 2 with USB Devices

- 1. Run your video application and make a video call.
- During your video call, you can use the PTZApp 2 to pan, tilt and zoom the camera in/out and enable/disable the true WDR, brightness, and sharpness feature.
- 3. Launch PTZApp 2 (12) and it will open in Chrome browser automatically.



4. Choose "USB devices" and connect VC520 Pro2 to PC/laptop with USB cable. When the camera is 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 () to 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 AVer USB Cameras. Backlight control equals to WDR function in VC520 Pro2.



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

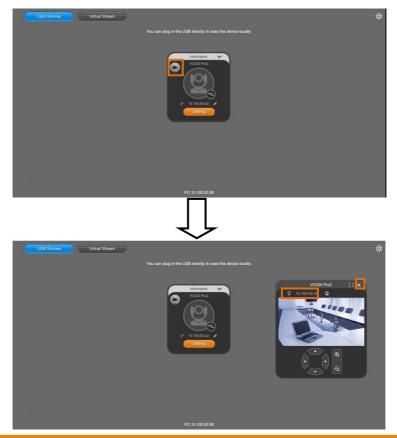


7. **Information:** Click the drop-down triangle icon to review the information of camera. To minimize the information, click the triangle or the bottom area of the information icon.



8. **Camera:** Click the camera icon to view the camera live view. IP address is displayed as well. Click the X icon to close the camera live view. If the live video did not appear, please check the camera and the laptop/PC connection to make sure all are correct and well connected.

The resolution of this small live view is 640x480 resolutions.



Full Screen: PTZApp 2 can switch to full screen mode. Click " icon and video screen will 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.

The resolution of full screen mode is 1080p.





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



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



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







- PTZ Control: Use control panel to set up preset positions. Since most of operations are the same as web page, refer to <u>Set Up the Preset</u> section (page 26) for detailed setup.
- > Setting: To set up parameters of the camera. Since most of operations are the same as web page, refer to Camera Settings, Image Settings, and RS232 Settings section (pages 27~34) for detailed setup.
- > System: To set up system. Since most of operations are the same as web page, refer to System Settings section (pages 39~44) for detailed setup.
- Audio: To set up audio parameters. Since most of operations are the same as web page, refer to Audio Settings section (pages 44~45) for detailed setup.

The following items are different from web page in System.

Trouble Shooting

> I/O Port: Except USB port, user can enable or disable all I/O ports.



> Trouble Shooting: Click Start and Output to output log to save in local PC.



> Test Speakerphone: Click Start and Start to check the speakerphone status. It will require





10. Click the icon to display the connected devices to the VC520 Pro2.



11. **PTZApp 2:** To quit the application, right-click the icon on the system tray and select "**Quit**". If you can't launch PTZApp 2 right after installation, please right –click the icon and choose "**Restore**".



Install EZLive

Please go to https://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 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

