

# **PTC500S**

**User Manual** 

#### **IMPORTANT NOTICE**

- ♦ PLEASE READ THE INSTRUCTIONS IN THIS MANUAL BEFORE INSTALLING THE PTC500S TRACKING CAMERA.
- DO NOT DISASSEMBLE OR MODIFY THE ITEMS BY YOURSELF. CONTACT THE DEALER FOR HELP WHEN THE ITEMS IS FAILED TO WORK.
- ♦ CONNECT THE DEVICES WITH PROPER CABLES.
- ♦ TO REDUCE RISK OF ELECTRIC SHOCK ONLY USE INDOORS.
- ♦ AVOID INSTALLING AT HUMID ENVIRONMENT.

#### **Federal Communication Commission Interference 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 pro-vide reasonable protection against harmful interference when the equipment is operate din 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

#### **European Community Compliance Statement (Class A)**



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

**Warning** - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

#### DISCLAIMER

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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

[별표 4]

#### 사용자안내문

사 용 자 안 내 문

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

※ 사용자 안내문은 "업무용 방송통신기자재"에만 적용한다.

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#### INTRODUCTION

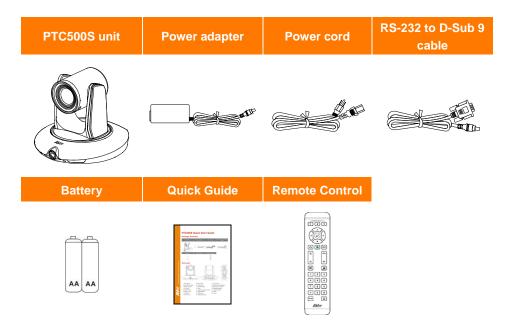
AVer PTC500S is a professional tracking camera which can be wide area, stage or segment mode depended on user's subject target. The PTC500S use body motion and image analysis algorithm to tracking target; the target subject no need to wear any signal transmit device. The PTC500S can communicate with recording system through RS232, RS485 or network interface. The PTC500S has stable system, easy to use, and suitable for classroom, meeting room, and any lecture or course environment.

## **Package Contents**

The following items are included in the package. Please check if each item is available and confirm if there are damage before using.

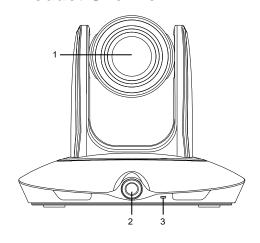
#### [Note]

- Do not disassemble or modify the items by yourself. Contact the dealer for help when the items is failed to work.
- 2. Store the items in a dry place away from moisture.



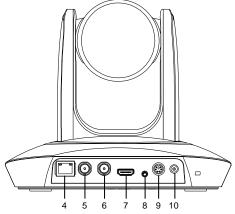
[Note] The power cord will vary depending on the standard power outlet of the country where it is sold.

#### **Product Overview**



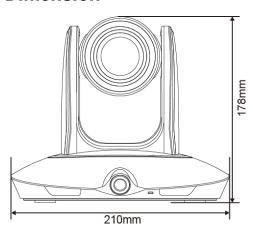
- 1. PTZ camera
- 2. Panoramic camera
- 3. Power indicator
- 4. RJ-45 port
- 5. 3G-SDI 2 port(Panoramic view)

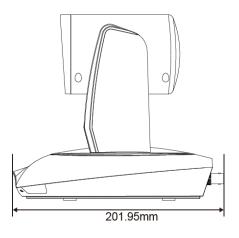
\*Line input level: 1Vrms(max.)



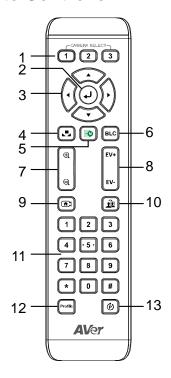
- 6. 3G-SDI 1 port(PTZ view)
- 7. HDMI port(PTZ view)
- 8. Audio in port\*
- 9. RS-232 port
- 10. Power jack

# **Dimension**





#### **Remote Controller**



1. Camera select

**[Note]** Only channel No.1 is available. Before you use remote, please press channel 1 first.

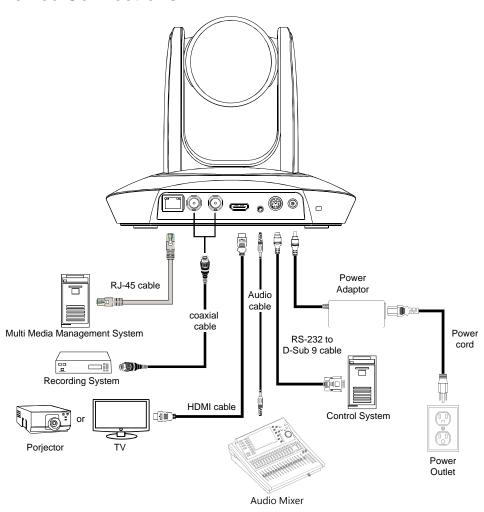
- 2. Enter
- 3. Camera direction control
- 4. White balance
- 5. OSD menu
- 6. Back light control
- 7. Zoom in/out
- 8. Exposure compensation
- 9. Back to zero position((home preset)

[Note] Press and hold for 3 seconds to turn on or turn off the PTC500S unit.
Only support at PTC500S FW version
0.0.1000.08 and above.

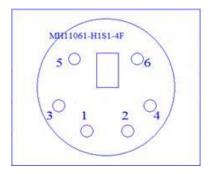
- 10. Tracking on/off
- 11. Number buttons
- 12. Profile
- 13. Preset

# **CONNECTIONS**

#### **Device Connections**



# **RS232 Pin Definition**



Pin	Definition
1	RS232_DTR
2	RS232_DSR
3	N.C.
4	RS232_TXD
5	GND
6	RS232_RXD

# **MODE INTRODUCTION**

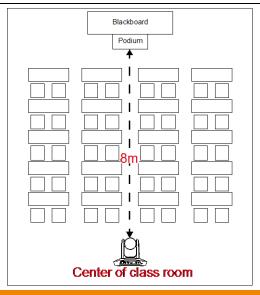
#### Wide Area Mode

#### ♦ Application

- This mode is suitable for teacher or lecturer tracking in normal classroom. The algorithm is based on face detection.
- Regardless of the target close to or away from PTC500S, the tracking camera will automatically zoom in/out to maintain the appropriate size and proportion.
- If the tracking target is locked, PTC500S will not be affected by the other moving objects.

#### ♦ Limitation

- This mode is easily affected by the brown objects or the color similar to skin. Things like cartons and wood furniture.
- It should be used in bright environment. If the light is not enough, it will cause PTC500S unable to distinguish the target face and lead to the tracking failure.
- ➤ It could not be used on the environment with high bright contrast. For example, the environment is with IFP or projectors. When the target enters or leaves the high bright contrast zone, it is risky for PTC500S to lose the tracking target.
- Install height range (from floor): 2 ~ 3m; 2.4m is suggested.
- Distance range to podium: 4~15m; 8m is suggested.
- Position: Center of class room.



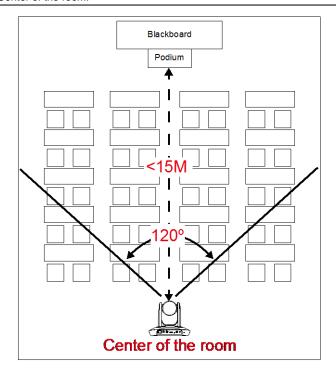
# **Stage and Segment Mode**

#### **♦** Application

- It's suitable for complicate environment. It's the remedy for teacher mode. Due to absolute motion tracking, PTC500S will not be affected by the color of wood furniture or the high bright contrast.
- Suitable for only one person in the tracking zone.

#### ♦ Limitation

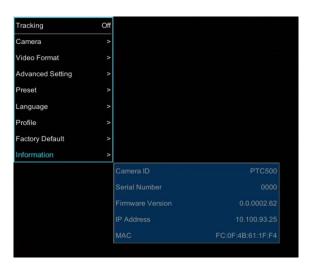
- Tracking is only available for horizontal movement. It will not auto zoom in/out for target close to or leaving away from PTC500S
- Due to absolute motion checking, it is unable to check who the target is or who the interference is. It doesn't have anti-interference ability.
- Due to the FOV limit, the tracking zone is only available within 120 degrees.
- Distance limitation <15M</p>
- Install height range (from floor): 2 ~ 3m; 2.4m is suggested.
- Distance range to podium: 4~15m; 8m is suggested.
- Position: Center of the room.



# **WEB SETUP**

#### Make a Connection to PTC500S via Browser

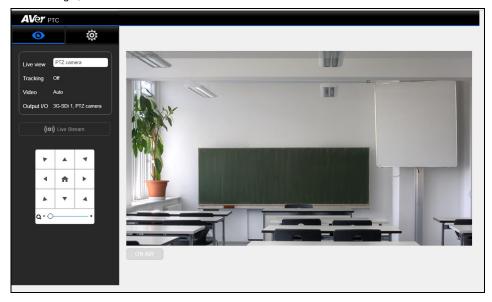
1. Find the IP address of PTC500S: call out OSD menu of PTC500S. Use ▲ and ▼ buttons on remote controller to go to "Information" to find the IP address information.



- 2. Open the browser on your PC and enter the IP address of PTC500S.
- 3. Enter the password of PTC500S to login. The default password is "admin".



4. After login, User should see the main interface of PTC500S.



# Make a Connection to PTC500S via AVer IPCam Utility

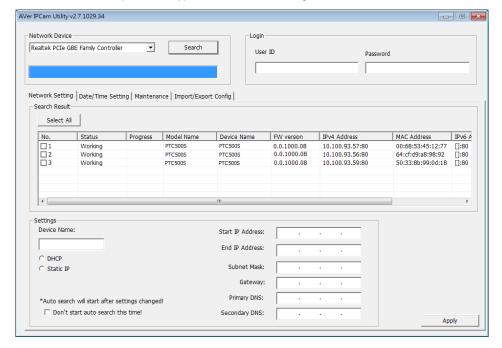
[Note] The PTC500S FW version 0.0.1000.08 and above supports IPCam Utiltiy application.

To find the IP address of your cameras, you can execute the IPCam Utility installer. Follow the below steps to find the IP address of camera.

- 1. Download the IPCam Utility from <a href="http://www.aver.com/download-center">http://www.aver.com/download-center</a> .
- 2. Run the IPCam Utility.
- 3. Click Search, and all available devices will be listed on the screen.
- 4. Select a camera from the list.
- 5. The corresponding fields of IP address will display.
- 6. Double-click on the IP address of camera from the list can connect to camera through the browser.

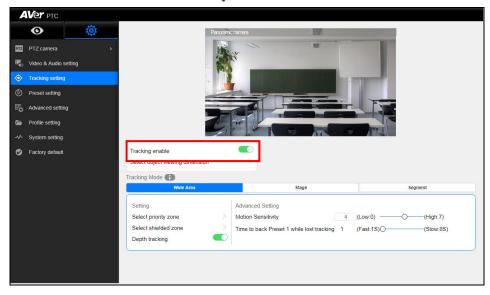
#### [Note] If IPCam utility cannot find the camera, please check following:

- 1. Please make sure the Ethernet connection of camera is well connected.
- 2. The camera and PC (IPCam utility) are in the same LAN segment.



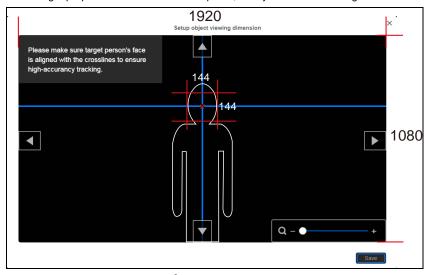
# **Enable Tracking Function**

Turn on and off the tracking function. Select  $\bigcirc$  > Tracking setting > Tracking on.



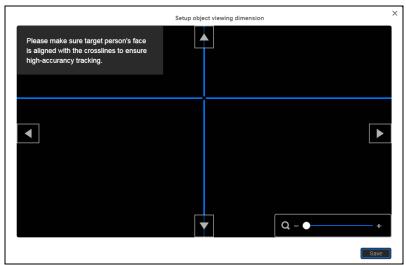
# **Setup Object Viewing Dimension**

Set the size of tracking object on the screen. Aim the intersection of blue line can get best curacy of tracking. The illustration shows the minimum request. Set the person proportion more than the illustration. If target proportion is smaller than the photo, it may cause the tracking failure.



To set the object size for tracking select **O** > **Tracking setting** > **Setup object viewing dimension** (Also see <u>Object Viewing Dimension Setting</u> chapter).

Use  $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangleleft$ ,  $\blacktriangleright$  and zoom in/out to adjust object size. Then, click "Save" to save the setting.



# **Tracking Mode Instruction**

View the each tracking mode's brief instruction, feature, and use environment.

	Tracking mode instructions ×		
	Wide area	Stage	Segment
Introduction	Accurately track a chosen target anywhere in a crowd.	Track target in all lighting conditions with high accuracy.	Tracking by segment: stay fixed on one area until target moves to next area.
Features	The person tracking function captures every movement.	Horizontal continuous high-accuracy target tracking.	Track up to 4 fixed locations based on target's position.
Mostly used for	Classrooms Presenters moving through a crowd.	Stage presentations     Stage performances     Target projectors behind	After school podium. Classroom podium. Multiple panels need to be displayed.

#### Wide Area Mode

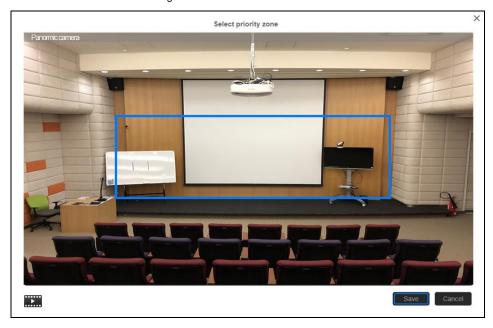
The PTC500s will start tracking when object enter the priority zone and the face of object is detected.

#### **Setup Priority Zone**

If PTC500S detects motions in the defined zone and PTC500S will be triggered to track. If priority zone doesn't setup, then, all the panoramic view will be the default active zone.

[Note] The screen of priority zone setting is based on panoramic camera view.

- 2. An online tutorial will display. User can watch to learn how to setup tracking zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In Select priority zone screen, drag and select the area that wants to be tracking (a blue frame will show on screen). To re-select the area, just drag and select another wanted area.
- 4. Click "Save" to save the setting.

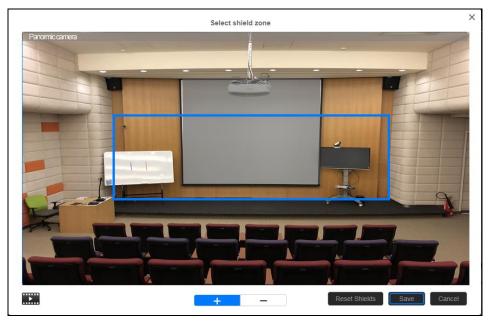


#### **Setup Shielded Zone**

Define the area that user doesn't want camera to track. The shield zone should be within the active zone. 8 shield zones can be set.

[Note] The screen of shielded zone setting is based on panoramic camera view.

- 2. An online tutorial will display. User can watch to learn how to setup shield zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In Shielded tracking zone screen, click the "+" and select the area in tracking zone that don't want to be tracking (a gray block will show on screen). For example: Shielded the projector screen and TV that may influence the tracking. To delete the shield zone area, click "-"and select the shield to delete it. Or select "Reset Shields" to delete all shields.
- 4. Select "Save" to save the setting.



#### Stage Mode

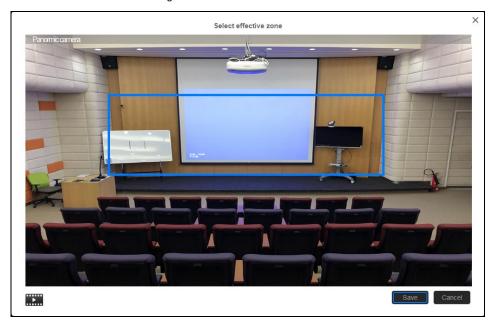
The PTC500S will start tracking when there is an object moving in effective zone.

#### **Setup Effective Zone**

If PTC500S detects motions in the defined zone and PTC500S will be triggered to track. If tracking zone doesn't setup, then, all the panoramic view will be the default active zone.

[Note] The screen of effective zone setting is based on panoramic camera view.

- 1. Select **O** > Tracking > Stage > Select effective zone.
- 2. An online tutorial will display. User can watch to learn how to setup tracking zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In Select effective zone screen, drag and select the area that wants to be tracking (a blue frame will show on screen). To re-select the area, just drag and select another wanted area.
- 4. Click "Save" to save the setting.

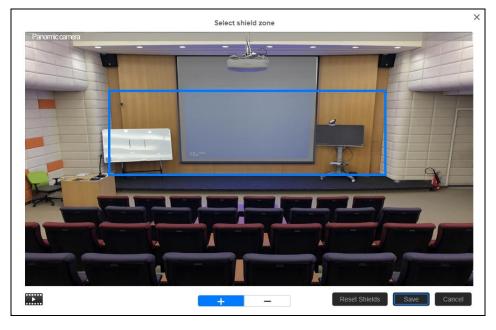


#### **Setup Shielded Zone**

Define the area that user doesn't want camera to track. The shield zone should be within the active zone. 8 shield zones can be set.

[Note] The screen of shield zone setting is based on panoramic camera view.

- 2. An online tutorial will display. User can watch to learn how to setup shield zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In Shielded tracking zone screen, click the "+" and select the area in tracking zone that don't want to be tracking (a gray block will show on screen). For example: Shielded the projector screen and TV that may influence the tracking. To delete the shield zone area, click "-"and select the shield to delete it. Or select "Reset Shields" to delete all shields.
- 4. Select "Save" to save the setting.

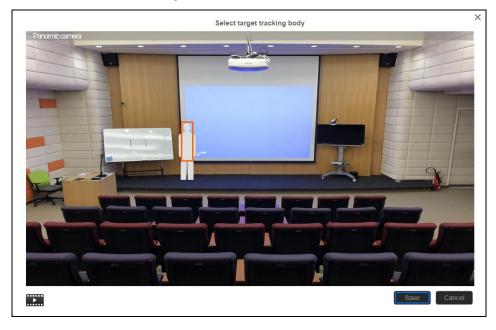


#### **Setup Target Tracking Body**

Define the width of tracking target. 1 target zone can be set.

[Note] The screen of target tracking body is based on panoramic camera view.

- 2. An online tutorial will display. User can watch to learn how to setup tracking zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In select target tracking body screen, drag and set the width of object that wants to be tracked (an orange frame will show on screen). To re-set the width of object, just drag again.
- 4. Click "Save" to save the setting.



# **Segment Mode**

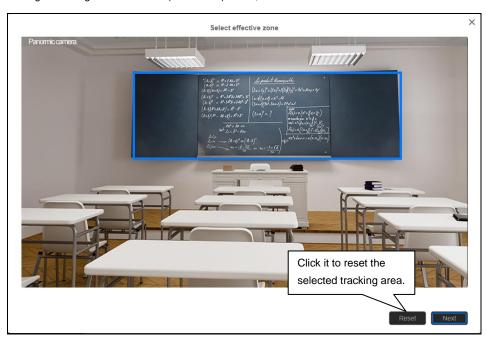
The PTC500S will start tracking when object is moving between the blocks.

#### **Setup Effective Zone**

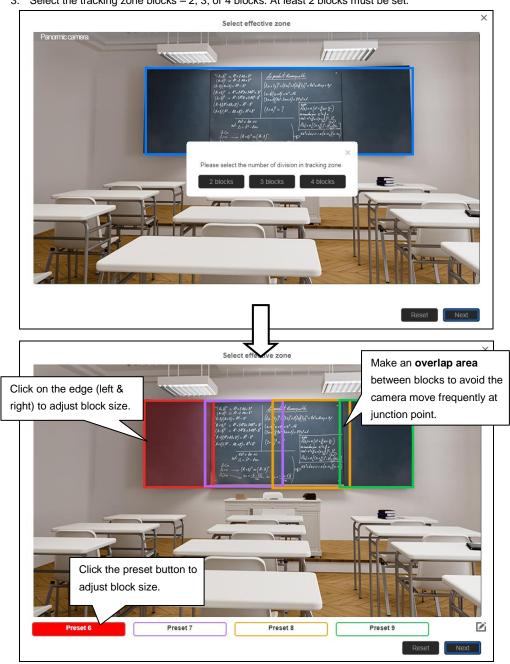
If PTC500S detects motions in the defined zone and PTC500S will be triggered to track. If effective zone doesn't setup, then, all the panoramic view will be the default active zone. The effective zone can be defined from 2 to 4 blocks.

[Note] The screen of effective zone setting is based on panoramic camera view.

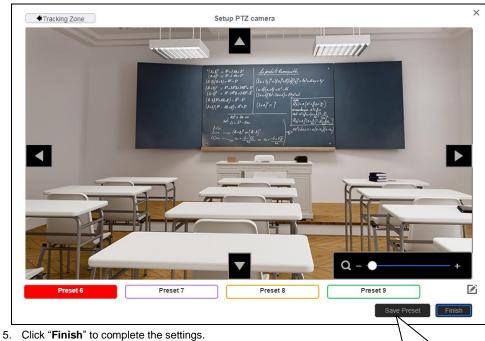
- 1. Select **O** > Tracking setting > Segment > Select effective zone.
- 2. Drag a tracking area on screen (blue frame). Then, click "Next" button.



3. Select the tracking zone blocks – 2, 3, or 4 blocks. At least 2 blocks must be set.



4. Click "Next" to set the position of tracking zone. Click preset button and use ▲,▼,◀,▶, Zoom +/to adjust to the desire position. When each time preset position is set, click "Save" to save the settings.



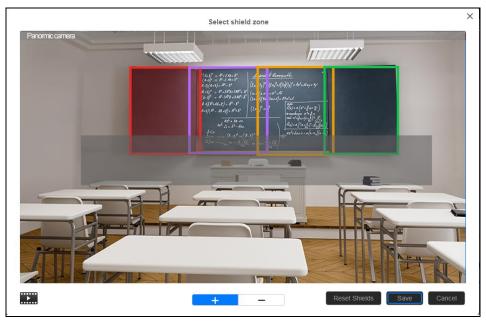
When each time preset position is set, click "Save" to save the settings.

#### **Setup Shielded Zone**

Define the area that user doesn't want camera to track. The shield zone should be within the active zone. 8 shield zones can be set.

[Note] The screen of shield zone setting is based on panoramic camera view.

- 2. An online tutorial will display. User can watch to learn how to setup shield zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In Shielded tracking zone screen, click the "+" and select the area in tracking zone that don't want to be tracking (a gray block will show on screen). For example: Shielded first row of student that may influence the tracking. To delete the shield zone area, click "-" and select the shield to delete it. Or select "Reset Shields" to delete all shields.
- 4. Select "Save" to save the setting.



#### **Setup Target Tracking Body**

Define the width of tracking target. 1 target zone can be set.

[Note] The screen of target tracking body is based on panoramic camera view.

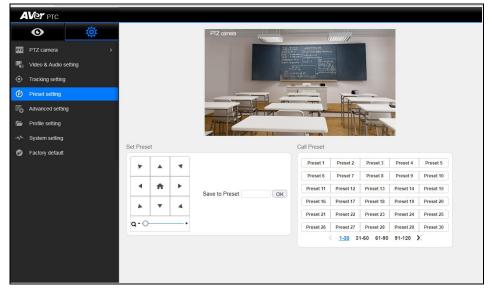
- 2. An online tutorial will display. User can watch to learn how to setup tracking zone. Click **Skip** to stop tutorial. To watch again, select to play online tutorial.
- 3. In select target tracking body screen, drag and set the width of object that wants to be tracked (an orange frame will show on screen). To re-set the width of object, just drag again.
- 4. Click "Save" to save the setting.



## **Preset Setup**

Define the specific location to view when select preset number (1~255). When PTC500s lose tracking, it will back to the preset 1 position.

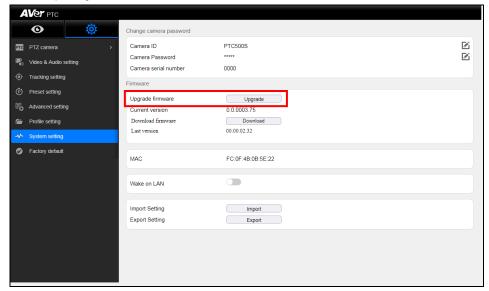
- 1. Open the browser and enter the IP address of PTC500S to login to PTC500S.
- 2. Select O > Preset Setting.
- 3. Use the direction control panel to adjust the PTC500S to desires position.
- 4. Next, select the preset number in "Save to Preset" column and click "Save" button to save the preset.



- 5. Select preset number in Call Preset section can view preset position view.
- 6. After call preset, the tracking will be off. Remember to **turn on** the **tracking** manually. Or press on remote controller.

# **Firmware Update**

- 1. Download the newest firmware from <a href="http://www.aver.com/download-center">http://www.aver.com/download-center</a> .
- 2. Connect to camera through browser.
- 3. Select System > Firmware > Upgrade firmware > Upgrade.
- 4. Select the firmware and select "Upload" button.
- 5. After updating, refresh the browser.



# Using RTSP connect to Camera

Use RTSP player connecting to camera; please enter the following RTSP URL in your application such as VLC, PotPlayer, or QuickTime.

PTZ camera: rtsp:// IP address of PTC500S:554/live\_st1

For example: rtsp://192.168.1.1:554/live\_st1

Panoramic camera: rtsp://IP address of PTC500S:8554/live\_st2

For example: rtsp://192.168.1.1:8554/live\_st2

# **OSD SETUP**

# **Before You Begin**

Make sure all connections are connected successfully before using the PTC500S. Connections error will cause no image showing or no reaction. (For more information, please refer to INSTALLATION chapter.)

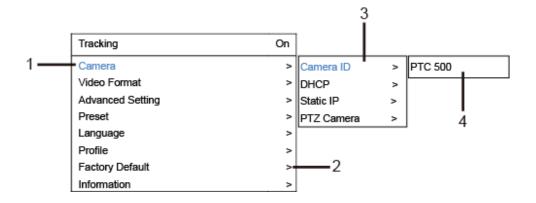
#### For the First Time Use

# **Trigger OSD Menu**

Press button on remote controller to call out OSD menu. Use ▶ to enter sub-menu, use ▲

and  $\nabla$  to move to the selection and use  $\bigcirc$  to confirm the selection. Press  $\triangleleft$  button can back to previous level of menu.

1	Blue text indicates the current selection.
2	">" means has sub-menu or value selection.
3	Sub-menu
4	Column for enter value or value selections.



#### **Setup IP Address**

Setup IP address of PTC500S.

There are two ways to setup IP address of PTC500S. Please follow the steps below to setup the IP address.

#### Static IP Address

Assign a fix IP address for PTC500S.

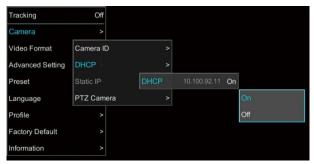
- 1. After starting-up, press button on remote control to call out OSD menu.
- Turn the DHCP off first. Go to Camera > DHCP > DHCP > Off then press ▶ or enter button to confirm the selection. The menu selection will switch to "Static IP" when DHCP off is applied.
- Use ▲, ▼, Enter button, and on-screen keyboard to setup the "IP", "Gateway", "Mask" and "DNS".



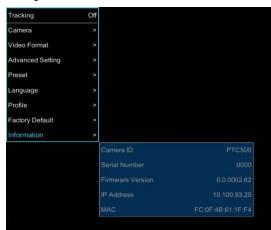
#### Dynamic IP Address(DHCP)

Get IP address from your local DHCP server.

- 1. After starting-up, press button on remote control to call out OSD menu.
- Use ▲ and ▼ buttons to select the Camera > DHCP > DHCP > On, then press ► or enter button
  to get IP address from local DHCP server.

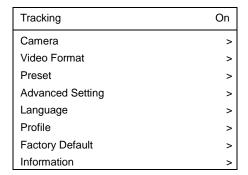


3. Use ▲ and ▼ buttons go to "Information" to check the IP address information.



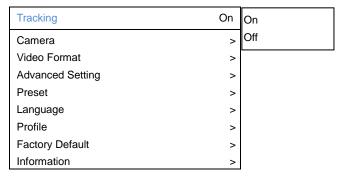
# **OSD Tree Map**

#### Main



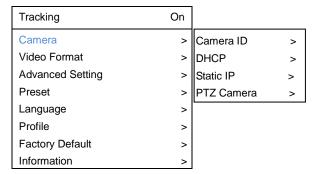
#### **Tracking**

- User can enable or disable auto-tracking.
- PTC500S will not track on object automatically when the feature is disabled.
- To enable auto-tracking, please select "On".
- To disable auto-tracking, select "Off".



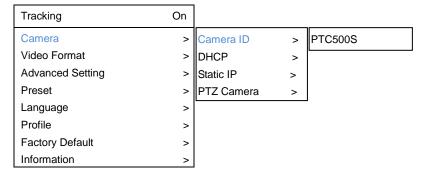
#### Camera

In the section, users can change camera ID, network setting and adjust parameter of camera settings.



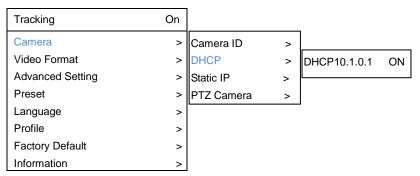
#### **Camera ID**

To change camera ID, please select Camera > Camera ID.



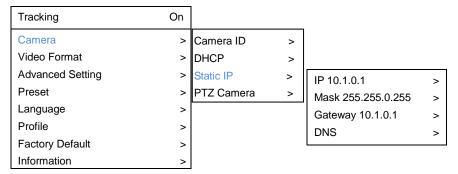
#### **DHCP**

To enable DHCP, select Camera > DHCP.



# Static IP

To setup network as a static IP, select **Camera > Static IP** (Please set DHCP off before the Static IP setting)



## **PTZ Camera**

To adjust the parameters of PTZ camera, select **Camera** >**PTZ Camera**.





Camera Mode Full Auto	>
Full Auto	>
Shutter Priority	>
Iris Priority	>
Manual	>
White Balance	>
Shading Correction	>
Pan/Tile Speed	1
Zoom Speed	Low
Digital Zoom Limit	12
PTZ Zoom Focus	Off
Power Up	Home
Frequency	Auto
Contrast	2
Saturation	5
Sharpness	Medium
NosieReduction	Medium

## **Camera Mode**

There are 4 modes of camera mode, you can select one from  ${\bf Camera} > {\bf PTZ} \; {\bf Camera} > {\bf Camera} > {\bf Mode}.$ 

		1			
Camera Mode Full Auto Full Auto Shutter Priority Iris Priority	> >	Full Auto Shutter Priority Iris Priority	> > >	Slow Shutter Maximum Gain Back Light compens	Off 24dB Off
Manual	>	Manual	>	Exposure	0
White Balance Shading Correction	>	Full Auto	>		
Pan/Tile Speed Zoom Speed Digital Zoom Limit	1 Low 12	Shutter Priority Iris Priority Manual	> >	Speed Maximum Gain Exposure	1/30 24dB 0
PTZ Zoom Focus Power Up Frequency	Off Home Auto	Full Auto Shutter Priority	> >		
Contrast Saturation	2 5	Iris Priority Manual	> >	Slow Shutter Iris	Off F6.8
Sharpness NosieReduction	Medium Medium			Maximum Gain Exposure	24dB 0
		Full Auto Shutter Priority Iris Priority	> > >		
		Manual	>	Maximum Gain Speed	24dB 1/30

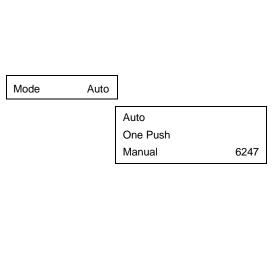
Iris

F6.8

## **White Balance**

To adjust white balance value, select **Camera > PTZ Camera > White Balance**.

Camera Mode Full Auto	^
Full Auto	>
Shutter Priority	>
Iris Priority	>
Manual	>
White Balance	>
Shading Correction	>
Pan/Tile Speed	1
Zoom Speed	Low
Digital Zoom Limit	12
PTZ Zoom Focus	Off
Power Up	Home
Frequency	Auto
Contrast	2
Saturation	5
Sharpness	Medium
NosieReduction	Medium



# **Shading Correction**

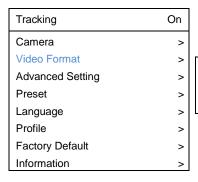
To adjust shading correction, select **Camera > PTZ Camera > Shading Correction** (The option is for the screen corner shadow fixing.)

Camera Mode Full Auto	>
Full Auto	>
Shutter Priority	>
Iris Priority	>
Manual	>
White Balance	>
Shading Correction	>
Pan/Tile Speed	1
Zoom Speed	Low
Digital Zoom Limit	12
PTZ Zoom Focus	Off
Power Up	Home
Frequency	Auto
Contrast	2
Saturation	5
Sharpness	Medium
NosieReduction	Medium

Upper Left	Off
Upper Right	Off
Bottom Left	Off
Bottom Right	Off

# **Video Format**

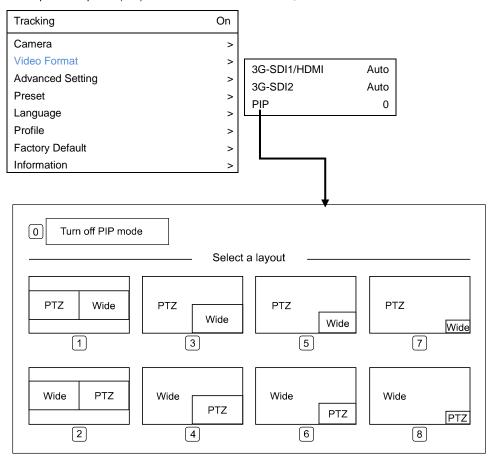
To adjust Video Format, select Video Format from OSD menu.



3G-SDI1/HDMI Auto 3G-SDI2 Auto PIP 0

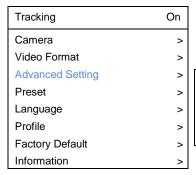
### **PIP Mode**

Select picture-in-picture(PIP) mode. To turn off the PIP mode, select mode 0.



# **Advanced Setting**

To adjust RS232 protocol, address and baud rate, select Advance Setting from OSD menu.



RS232 Protocol	VISCA
Address(ADDRD)	1
Baud Rate	9600
VISCA-over-IP	off

## **Preset**

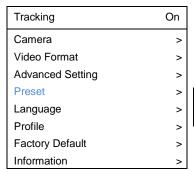
PTC500S allows you to set 10 preset locations via remote controller.

### ■ To set up preset point:

- 1. Enter OSD and turn off the tracking function.
- 2. Move camera to the prefer location and zoom distance.
- 3. Press bottom > **Preset** > **Set** and use arrow key to assign a preset number and press enter button on remote controller.

[Tip] Shortcut of setting a preset location as following:

Hold on the "P" button until the message shows up. Then, press number you want to set, ex: 1 and press enter.





## ■ To call a preset location:

Press bottom > **Preset** > **call** and use arrow key to select which preset number you would like to recall -> press enter button on remote controller.

[Tip] Shortcut of calling a preset location: press "P" > press number you want to recall, ex: 1.

# Language

To change language, go to OSD menu > Language.



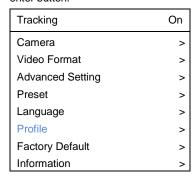


## **Profile**

PTC500S allows you to save 5 profiles.

To set the profile, go to OSD menu > **Set** and use arrow key to assign a number and press enter button.

To call the profile, go to OSD menu > **Apply** and use arrow key to call an assigned number and press enter button.





# **Factory Default**

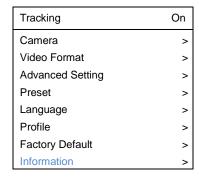
To reset the PTC500S to default setting, go to OSD menu > Factory Default > Yes and press enter button.





## Information

To check out information on the PTC500S, ex: FW version. Go to OSD menu > Information.



Camera ID	PTC500
Serial Number	0000
Firmware Version	0.0.0002.12
IP Address	10.1.0.1
MAC	FB:5F:4B:61:1F:4F

# **Hot Key**

Press certain button on remote controller to perform hot key function.

Button	Action	Function
<b>(</b>		Power on/off camera.
	Press and hold(3secs)	[Note] Only support at PTC500S FW version
		0.0.1000.08 and above.
3	Press three times(333)	Enable/Disable tracking function
		When the hot key takes effect, you will see "tracking
		on" or "tracking off" on the right bottom side.
6	Press six times(666666)	Enable/Disable AVer Logo
		When the hot key takes effect, you will see "AVer"
		logo on the right bottom side.
7	Press seven times(7777777)	Show the tracking indicator
		When the hot key takes effect, you will see the
		tracking indicator on the target face.
8	Press eight times(88888888)	Set PTC500S IP address as default
		IP(192.168.1.168.)
9	Press nine times(999999999)	Password Reset mechanism:
		When the hot key takes effect, the password of
		entering Web UI will go back the default "admin".

# **FAQ**

#### 1. How to define the zoom level of tracking target?

It's determined by Setup Object Viewing Dimension. You should stand on the assigned location as a proportional scale and zoom in/out to the proportion that you want. The following tracking will based on this proportion.

#### 2. How preset 1 has influence in the tracking settings?

When tracking cam loses the target, the position camera will go back to preset1.

#### 3. How does tracking work in Wide Area mode?

When object enter the priority zone, PTZ camera will move to the position of object and do the face detection. After face is detected, PTZ camera will start tracking object in all area.

#### 4. How does tracking work in Segment mode?

The tracking operation only works inside effective zone. When object is outside of effective zone, the camera will stop tracking object.

### 5. How to avoid it start tracking other person in the same area?

It's hard to do it. The algorithm is based on what the camera see. It is not intelligent enough to judge who should track or not if 2 or more persons are in the active zone. It will randomly choose one to track.

6. Will tracking be lost when we use PTC500S in a situation which the projector is turned on? Yes, it might happen in "Wide Area mode". But we suggest to use "Stage mode" when the projector is turned on. Stage mode can be used for any lighting conditions.

### 7. What is the definition of HOME position?

Home is the default position after camera booting. User can define position aftercamera booting in below WebUI PTZ > PTZ > power up ACT.

### 8. What about Preset 2 ~9 are used for anything related to tracking?

If you turn off tracking, PTC500S is a regular PTZ. User can manipulate it to assign position via center control system command. The other presets are these usages.

- This camera supports several profiles; does each profile have a different PRESET1?Each profile has its own preset definition.
- **10.** If we want to stop tracking and will to focus on specific location, how should I do? Press "P" and the preset number. The camera will go to the assigned location.
- 11. In Wide area mode, I already masked the areas that might have something like president photo or something similar to human, but why the camera is still attracted to these areas.

The shielding zone is only for motion shielding. In complicate environment, we suggest to use stage mode to overcome it.