

Marshall

Broadcast A/V Division

CV625-TB/TW/TBN/TWN

25X AI Tracking and Flow PTZ Camera


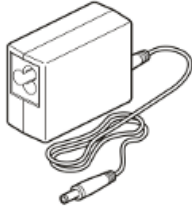
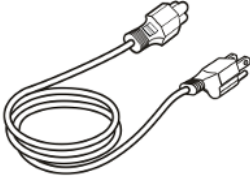


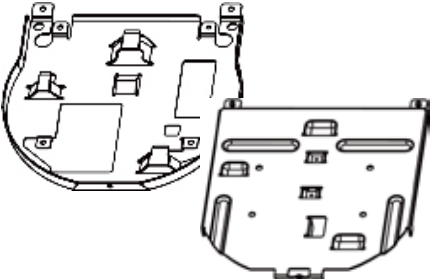
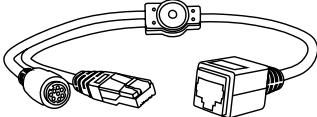



User Manual

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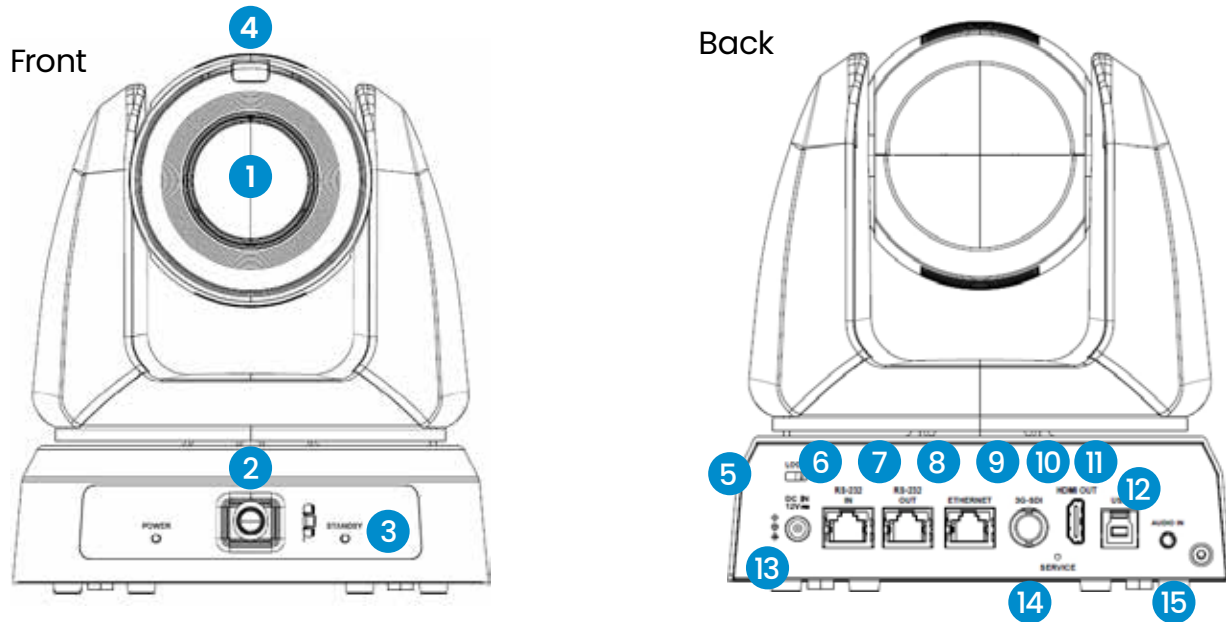
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Chapter 1: Package Contents

Camera	Power Adapter	Power Cord	USB 3.0 Cable-2m (Type B - Type A)
		 Appearance may vary depending on country/ region	
Remote Control	Metal Plates A & B	Y-ADP-RS232	M3 Screws Silver x8/ Black x2
			

Chapter 2: Product Appearance

2.1: I/O Interface



NO.	Item	Function Description
1.	Main Camera Lens	PTZ camera lens
2.	Panoramic Lens	Panoramic camera lens Note When the camera is installed at a height above 2 meters, we recommend adjusting the tilt position. Refer to 3.2.5 Tilting the Panoramic Lens
3.	LED Indicators	Displaying the status of the camera, refer to 2.2 LED Indicator
4.	Tally Lamp	Displays the Tally Lamp status of the camera
5.	Lock	Safety lock slot
6.	RS232 IN	RS-232 port, up to 7 cameras can be connected. Pin out please refer to 3.3.2 RS-232 Pin Definition
7.	RS232 OUT	
8.	Ethernet	Network port, with PoE+ (IEEE802.3at) support
9.	3G-SDI	3G-SDI output (BNC 75Ω / supports SMPTE 425M)
10.	HDMI OUT	Video output
11.	USB3.0	Connect to the computer's USB port; delivers USB video
12.	Audio In	3.5mm Line in
13.	DC IN 12V	DC supply connecting port
14.	Service	Safety lock slot
15.	Lock	Safety lock slot

2.1: LED Indicator

Status	Power	Standby
Power not connected	No Light	No Light
Startup in progress (Initialization)	Green	Orange
Power ON (In use)	Green	No Light
Standby	No light	Orange
Tracking / Framing Mode	Green Flickering	Green Flickering
Privacy Mode	Orange	No Light

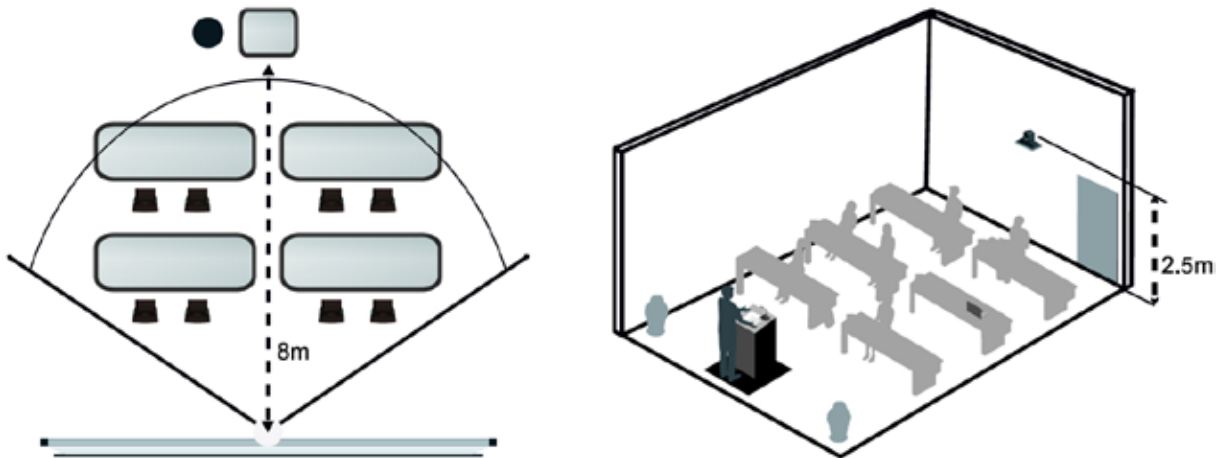
2.1: Tally Lamp

The Tally lamp function can be enabled by an RS-232 command. Please refer to the RS-232 command set document

Chapter 3: Installation Instructions

3.1: Scenario

CV625-TB/TW/TBN/TWN/TBN/TWN supports a tracking range of 2-18m



3.2: Installation Instructions

PTZ installation and connection requires special skills. It is important to securely install the device. Pay attention to your safety and to the safety of those around you during the installation. Ensure the safety of the installation environment. Do not install the device to an unstable ceiling or at a height that may risk injury to people below.

3.2.1 Please ensure installation safety, please do not mount the device on an unstable ceiling or in any location where it may fall, as this could lead to accidents.

3.2.2 Please check that accessories in the box are complete. Please contact the supplier about any shortage, and make sure to keep the accessories in the box.

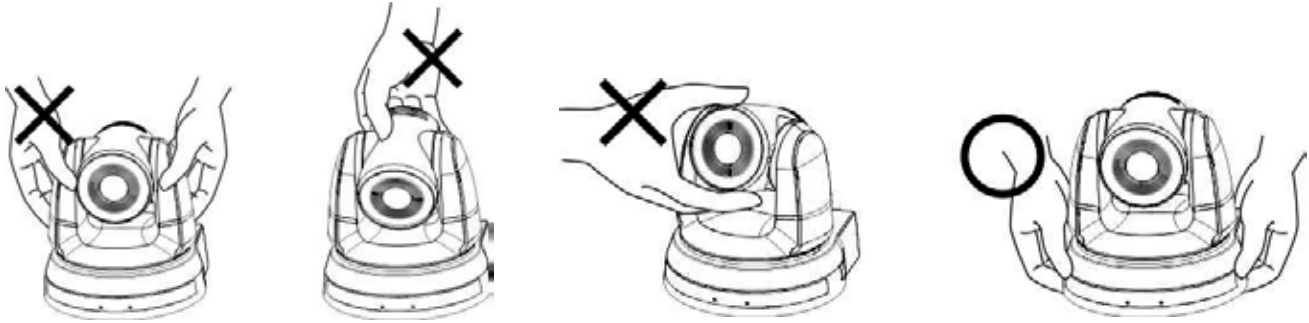
3.2.3 Please choose an appropriate location for installation of camera in advance. Please determine the installation site according to the following requirements:

(A) Confirm the position for the object to be captured.

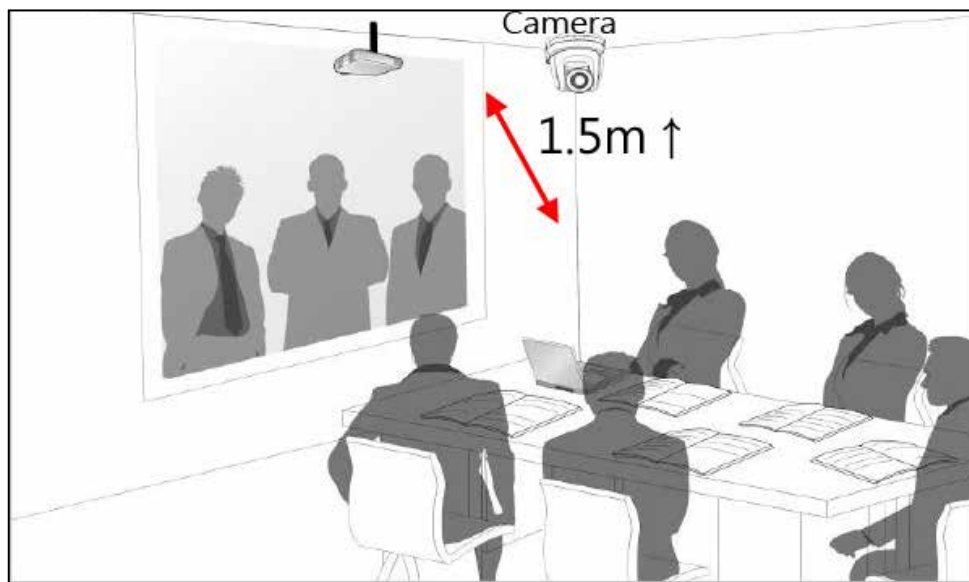
(B) Confirm whether the camera is set at a proper distance from light sources

3.2.4 Handling Instructions

- Do not hold the camera by its pan/tilt head.
- Do not manually rotate the camera head. Improper rotation may result in damage.



- Before installation, confirm the camera orientation relative to the object to be captured. It is recommended that the camera should be set at more than 1.5 meters from the object to be captured. Adjust the position to achieve your required shooting angle.

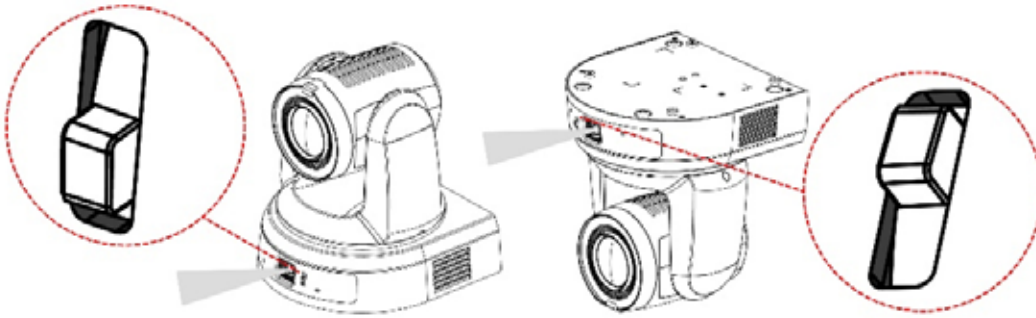


- The Camera (including metal plates) weighs approximately 2.7 kg. For ceiling mount, use a hanger that has obtained UL security approval to prevent the unit from falling.
- Regularly check the stability and strength of the camera installation.

3.2.5 Tilting the Panoramic Lens

The panoramic lens supports three tilt positions: **Up / Normal / Down**

- When the camera is installed at a height above 2 meters, it is recommended to adjust the angle of the lens.
- Upright Installation: Adjust to the [Down] position.
- Inverted Installation: Adjust to the [Up] position.
- After adjusting the tilt angle, please go to [Tracking]> [Lens Tilt Direction] and select the corresponding value in the web interface.



3.2.6 Installing the camera on the desk

Place the camera on a flat desk to ensure normal operation.

3.2.7 Mounting the camera to the ceiling

(A) Prepare the following items:

- Accessories in the box (metal plates A, B, M3 screw silver x 8, black x 2)
- 4x screws for locking the ceiling mounted hanger
- Drilling, screwdriver and ladder
- For dimensions of the camera and metal plates, please refer to **Chapter 7**

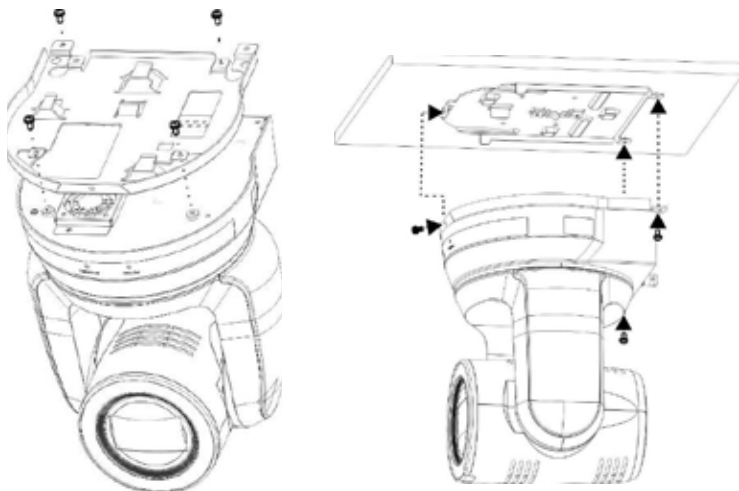
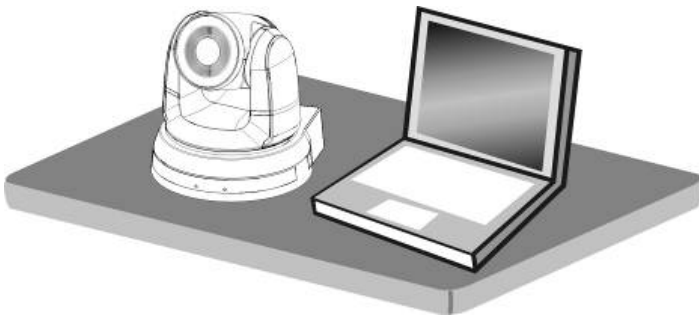
Addendum

(A) Installation Steps

1. Fix the **Metal Plate A** to the camera base with:
2. 4x M3 silver screws
3. Lock the **Metal Plate B** on ceiling mounted hanger

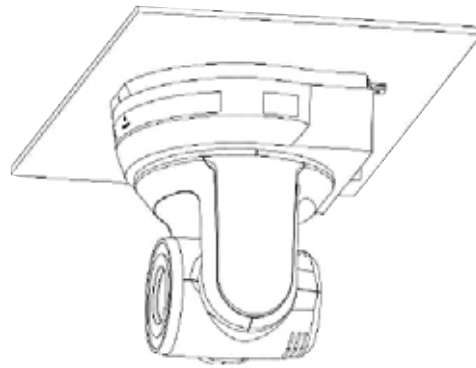
! Caution:

- Please use a hanger that has obtained UL security approval.
- Please ensure space for cable access.



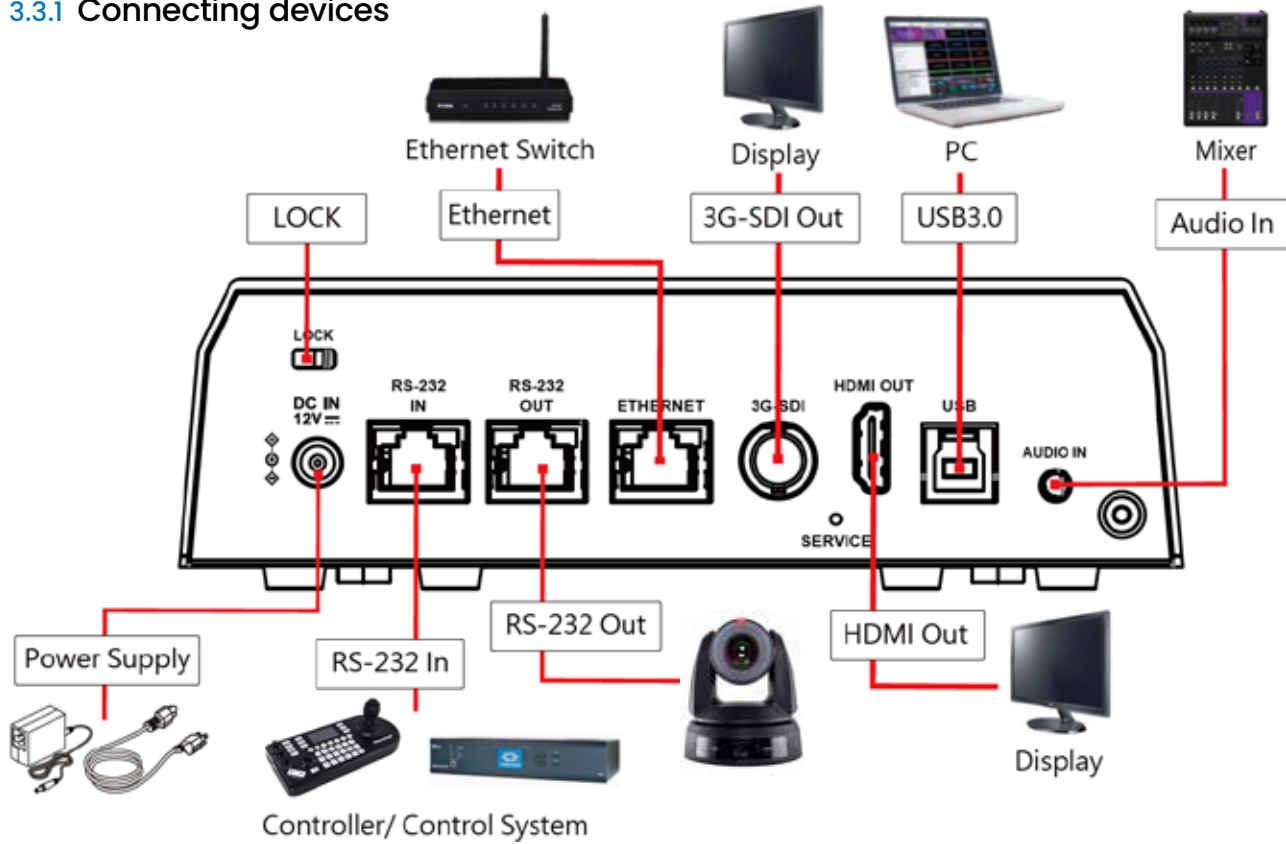
3.2.8 How to Remove

1. Remove the connecting cables from the camera
2. Loosen the three screws that fix the metal plates A and B by pushing to the left to remove the camera
3. Remove the three screws



3.3: Connection

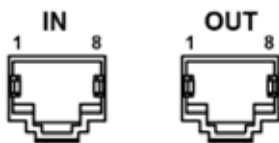
3.3.1 Connecting devices



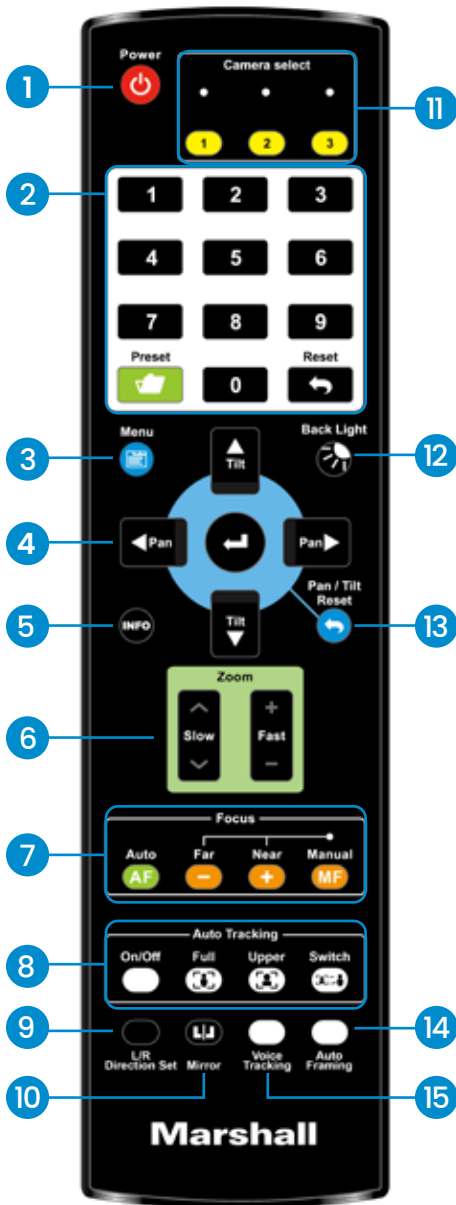
NOTE: Ethernet port supports PoE+ (IEEE802.3at)

3.3.2 RS-232 Pin Definition

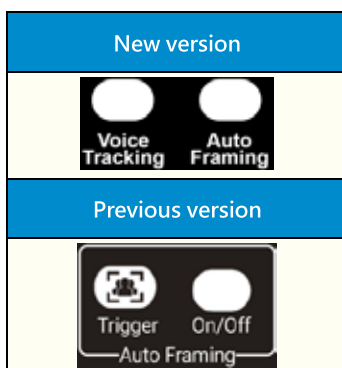
NOTE: Daisy Chain for up to 7 connected cameras



Pin No.	IN	OUT
1	NA	NA
2	NA	NA
3	GND	GND
4	TX	RX
5	RX	TX
6	DTR	DSR
7	NA	NA
8	NA	NA



No.	Item	Description
1.	Power	Power on / off
2.	Preset	<ul style="list-style-type: none"> ■ 0-9: Click to call the preset ■ Preset: Assign a preset number (0-9) to save the current position ■ Reset: Select a preset number (0-9) to clear its position
3.	Menu	Display OSD menu
4.	Pan/ Tilt/ Enter	<ul style="list-style-type: none"> ■ Pan / Tilt: Move the camera head ■ Home / Enter: Go back to Home position / Execute
5.	Info	Status information
6.	Zoom	<ul style="list-style-type: none"> ■ Fast: high speed zoom / ■ Slow: low speed zoom
7.	Focus	<ul style="list-style-type: none"> ■ Auto: Auto focus ■ Manual: Enable Manual Focus ■ Far/ Near: Adjust the focus in Manual mode
8.	Auto Tracking	<ul style="list-style-type: none"> ■ On/Off: Enable/Disable Auto Tracking ■ Full: Frames presenter's full body ■ Upper: Frames presenter's torso ■ Switch: Switch target to a different presenter
9.	L/R Direction Set	L/R Direction / Normal
10.	Mirror	Rotate the image (OFF / Mirror / Flip / Rotate)
11.	Camera select	Choose Camera ID 1 - 3
12.	Back Light	Turn on/off back light compensation
13.	Pan/Tilt Reset	Clear the Pan/Tilt setting
14.	Auto Framing (or ON/ OFF)	Enable/ Disable Auto framing ※Please refer to Note 1 for details.
15.	Voice Tracking (or Trigger)	VC-TR61/ VC-TR61N not supported ※Please refer to Note 1 for details.



***Note 1: The labeling of buttons #14/ #15 may vary depending on the remote control version. Please refer to the image on the left for details. (The labeling differs, but the functions are the same.)**

#14 Auto Framing = Auto Framing On/Off

#15 [Voice Tracking] or [Trigger]:

- When used with a camera that supports voice tracking: on/ off the voice tracking function.
- When used with a camera that does not support voice tracking:
 - **Single-lens:** Auto framing will reset to wide angle and reframe automatically.
 - **Dual-lens:** No corresponding action. Dual-lens cameras feature a built-in wide-angle lens for improved framing, eliminating the need for manual calibration.

4.2: Setting Menu

Press [MENU] on the remote control to call the on-screen menu. Default is indicated in bold

Layer 1	Layer 2	Layer 3	Description
Exposure	Mode	Full Auto / Shutter Priority/ Iris Priority/ Manual/ White Board	Exposure mode setting
	Exposure Comp	On/ Off	Turn on/off Exposure Compensation
	Exposure Comp. Level	-6- C -4	Adjustable after Exposure Comp. is activated
	Spot Light	On/ Off	Turn on/ off Spot Light
	Spot Light Position	X(0-6)Y(0-4)	Adjustable after Spot Light is activated
	Gain Limit	8- 30 dB	Max. limit value of electron gain
	WDR	Off / 1/ 2/ 3	WDR settings
	Anti-Flicker	50Hz/ 60Hz/ Off	Activate the anti-flicker function to eliminate flicker from lighting.
	Shutter Speed	1/10000-1/25	Adjustable when the Exposure mode is set to Shutter Priority or Manual
	Iris Level	F1.8- C -F11/ Off	Adjustable when the Exposure mode is set to IRIS Priority or Manual
Gain Level	0 ~45dB	Adjustable when the Exposure mode is set to Manual	
White Balance	Mode	1.Auto 2.Indoor 3.Outdoor 4.One Push WB 5.ATW 6.Manual 7.Sodium Lamp	Select the color temperature 1. 4000k - 7000k 2. 3200k 3. 5800k 4. 1700k - 10000k 5. 1700k - 10000k 6. Manual 7. 2800k
	One Push Trigger	ENTER	One push trigger
	Manual Red	0- C -128	Adjustable when the white balance mode is set to Manual
	Manual Blue	0- C -128	Adjustable when the white balance mode is set to Manual
Tracking	Type	Auto Tracking / Auto Framing	

Layer 1	Layer 2	Layer 3	Description
Picture	3D NR	Off / Low/ <u>Typ</u> / Max	3D noise reduction
	Image Mode	<u>Default</u> / Custom	Users can customize the selected image mode
	Gamma	0- <u>C</u> -3	Adjustable when Image Mode set to Custom
	Brightness	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Contrast	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Saturation	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Sharpness	0- <u>C</u> -11	
Pan Tilt Zoom	Pan/Tilt Limit	On/ <u>Off</u>	On/ Off Set angle limit
	Pan Right Limit	0- <u>170</u>	Limit the panning angle (right side)
	Pan Left Limit	<u>-170</u> -0	Limit the panning angle (left side)
	Tilt UP Limit	0- <u>90</u>	Limit the tilt angle (up)
	Tilt Down Limit	<u>-30</u> -0	Limit the tilt angle (down)
	Pan Flip	On/ <u>Off</u>	Reverses the Pan direction
	Tilt Flip	On/ <u>Off</u>	Reverses the Tilt direction
	Preset Speed	5/ 25/ 50/ 80/ <u>120</u> deg/sec	Set the robotic and zoom speed of the camera
	PTZ Speed Comp	On/ <u>Off</u>	Enable the zoom speed independent from the robotic speed
	D-Zoom Mode	<u>On</u> / Off	Set the digital zoom limit
	Limit	<u>2x</u> -8x	<div style="border: 1px solid gray; padding: 2px; width: fit-content;">Note</div> Digital zoom is not supported with: <ul style="list-style-type: none"> ■ 4K resolution ■ 1080P/ 720P, Stream/ UVC outputs
D-Effect	Mirror	<u>Off</u> / Mirror/ Flip/ Mirror+Flip	Activate image rotation and/or mirroring
Auto Focus	AF Sensitivity	Low/ <u>Middle</u> / High	Changes the sensitivity of the auto-focus

Layer 1	Layer 2	Layer 3	Description
	AF Frame	Center Area/ <u>All Area</u>	Changes the focusing zone to the selected mode <ul style="list-style-type: none"> ■ Central area: focusing will be performed based on the center ■ Full Frame: focusing will be calculated based on the full screen
	Zoom tracking	On/ <u>Off</u>	Focus mode during lens zooming (It can be set to Manual Focus (MF) mode)
	PTZ Assist	On/ <u>Off</u>	Available when Focus is in Manual Mode <small>Note</small> PTZ Assist is triggered only when the camera has moved in any axis. It will not dynamically respond to changes in the scene.
Ethernet	DHCP	<u>On/ Off</u>	Enable/Disable dynamic host configuration
	IP Address	<u>192.168.100.100</u>	Configurable when DHCP is set to Off
	Subnet mask	<u>255.255.255.0</u>	
	Gateway	<u>192.168.100.254</u>	
Audio	Audio In	<u>Line In</u>	3.5m Line In
	Audio Enable	On/ <u>Off</u>	Turn on/off audio output
	Audio Volume	0- <u>C</u> -10	Volume Setting
	Audio Delay	On/ <u>Off</u>	When the audio is not synchronized with the video, enable this function to set an audio delay time
	Audio Delay Time(ms)	<u>-10</u> ~-500ms	Set audio delay time
	Encode Sample Rate	<u>48 (AAC)</u>	Set the encode type and sample rate
System	Prompt	On/ <u>Off</u>	Turn on/off the prompt information on the display
	IR Receive	<u>On/ Off</u>	Turn On/off the infrared reception. When off, the remote control will not be able to control the camera. Re-start the camera to re-activate.
	IR Select	<u>1/ 2/ 3</u>	Pair the remote controller with the camera.

Layer 1	Layer 2	Layer 3	Description
	Tally Lamp	On/ <u>Off</u>	Enables the camera's tally lamp.
	Tally CMMD Mode	Normal/ <u>Link</u>	<p>Set whether the tally lamp is linked with RS232 commands.</p> <ul style="list-style-type: none"> ■ Normal (Not linked): The tally lamp and mode are set separately. <ul style="list-style-type: none"> ■ When the tally lamp is on but the default mode is off, an additional command is required to set the indicator light mode ■ When the tally lamp is off, setting the mode will not trigger the indicator light ■ Link: <ul style="list-style-type: none"> ■ When the tally lamp is on, the default mode is a red light ■ When the tally lamp is off, setting the mode will turn on the tally lamp.
	Tracking Led Status	On/ <u>Off</u>	When enabled, LED on the front panel will flash green while the camera is tracking.
	Language	<u>English</u>	
	Initial Position	<u>Last MEM</u> / 1st Preset	<p>After turning on the camera, you can select the lens to be returned to <u>Last MEM</u> or 1st Preset</p> <p><small>Note</small> 1st Preset = Preset 0</p>
	Motionless Preset	On/ <u>Off</u>	The image will freeze when Preset is executed. Freeze will be released after the Preset move is completed
	Privacy Mode	On/ <u>Off</u>	When the camera is turned off via the remote control or software, the lens will automatically turn to the bottom right to ensure the user's privacy
	Protocol	<u>VISCA</u>	Supports VISCA protocol
	Baud Rate	<u>9600</u> /38400	Transmission speed of the control signal
	VISCA Address	<u>0</u> -7	The camera ID address can be manually assigned.

Layer 1	Layer 2	Layer 3	Description
	Output Mode	2160P 59.94/50/29.97/25 1080p 59.94/50/29.97/25 720p 59.94/50/29.97/25 1080i 59.94/50	Set the output resolution (1080i is only available via HDMI. If selected, SDI will still output 1080p)
	Factory Reset	On/ <u>Off</u>	Engage factory default settings
Status			Display the current settings information

Chapter 5: Network Setting & Web Interface

5.1 Connecting Camera to Network

5.1.1 Connection

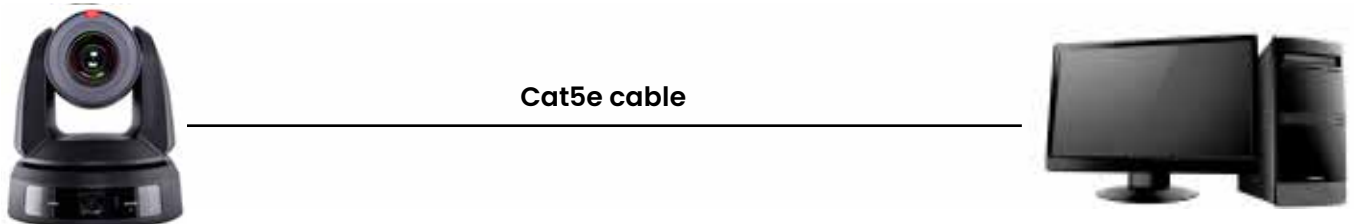
Two common connection methods are shown below

1. Connect via switch or router

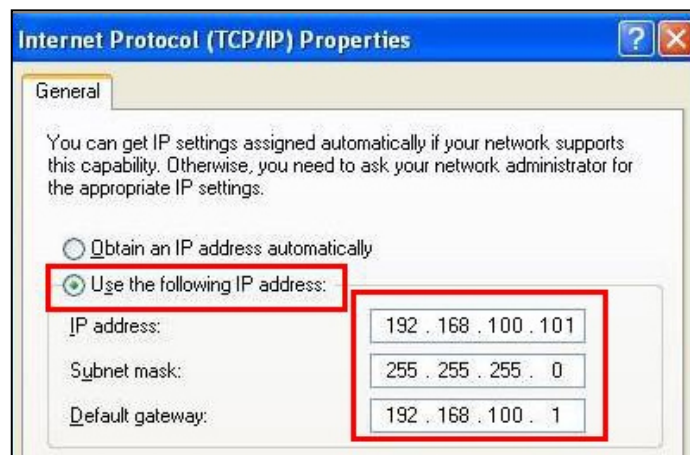


2. Connect directly via an Ethernet cable. The computer's IP address must match the network segment used by the camera.

E.g. The camera's default IP address is 192.168.100.100. The computer's IP address should be set to the same segment, such as 192.168.100.101.



■ Modify the PC's network settings



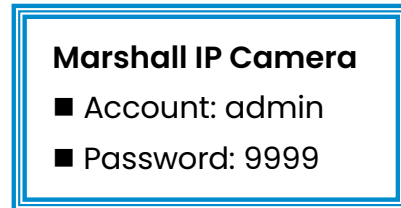
5.1.2 Use a Browser to view Images

- Open the browser, and enter the IP address of the camera in the address bar

E.g.: <http://192.168.100.100> (default IP address)

- Enter the Username and Password

NOTE: Please refer to 5.2.12 System-User to change the default password.



5.1.3 Use an RTSP Player to View Live Images

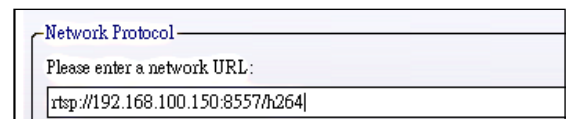
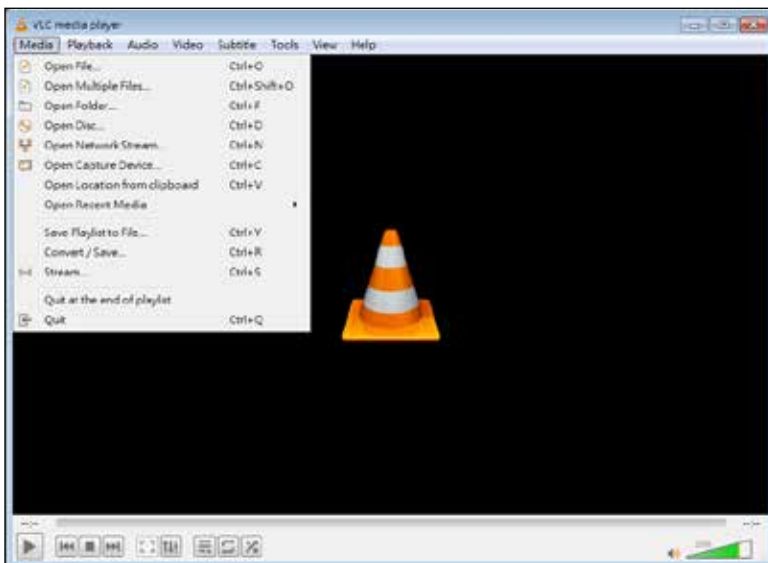
Free software can be used for RTSP connection, such as VLC, Quick Time or PotPlayer. RTSP connection address formats are as follows:

- RTSP Stream 1 => <rtsp://camera IP:8554/hevc>
<rtsp://camera IP:8557/h264>
- RTSP Stream 2 => <rtsp://camera IP:8556/h264>
- Panoramic Camera Output => <rtsp://camera IP:8553/h264>

If password authentication is enabled, the RTSP connection address is as follows:

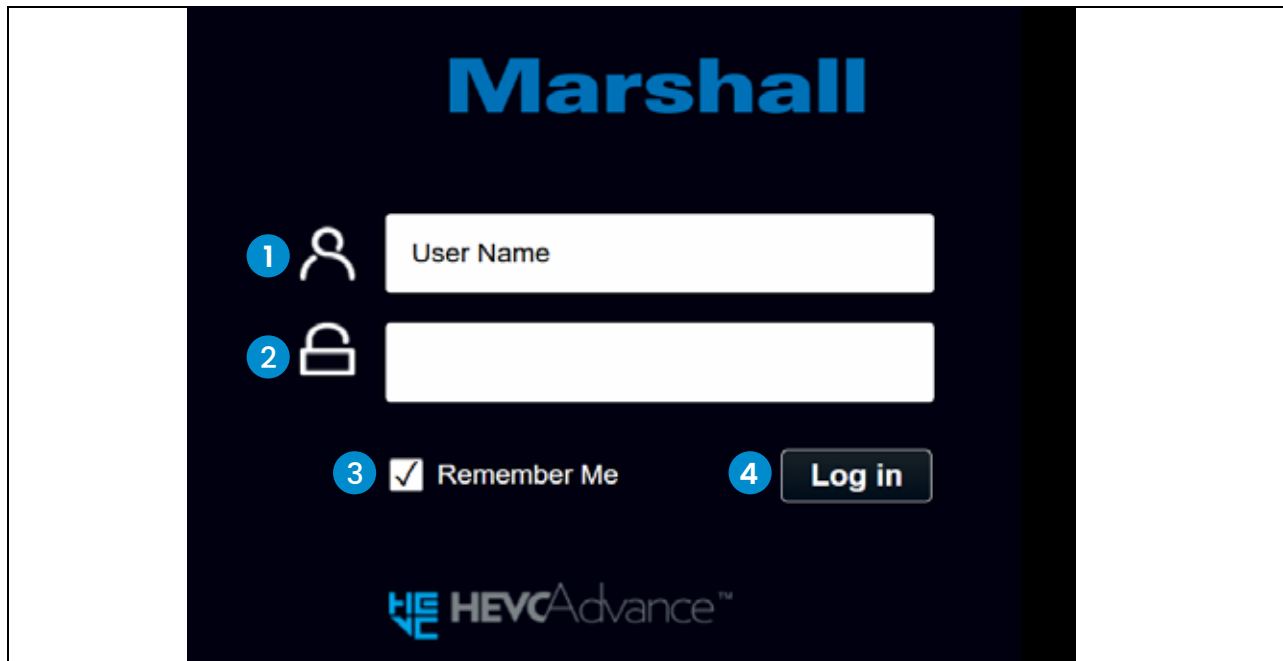
- [rtsp://Username: Password@VC IP address:8557/stream1\(or stream2\)](rtsp://Username: Password@VC IP address:8557/stream1(or stream2))
- To enable password authentication function, please refer to [5.2.10 System-Network](#)

Example: Open the VLC software, click [Open Network Streaming], and enter the URL: <rtsp://192.168.100.150:8557/h264>



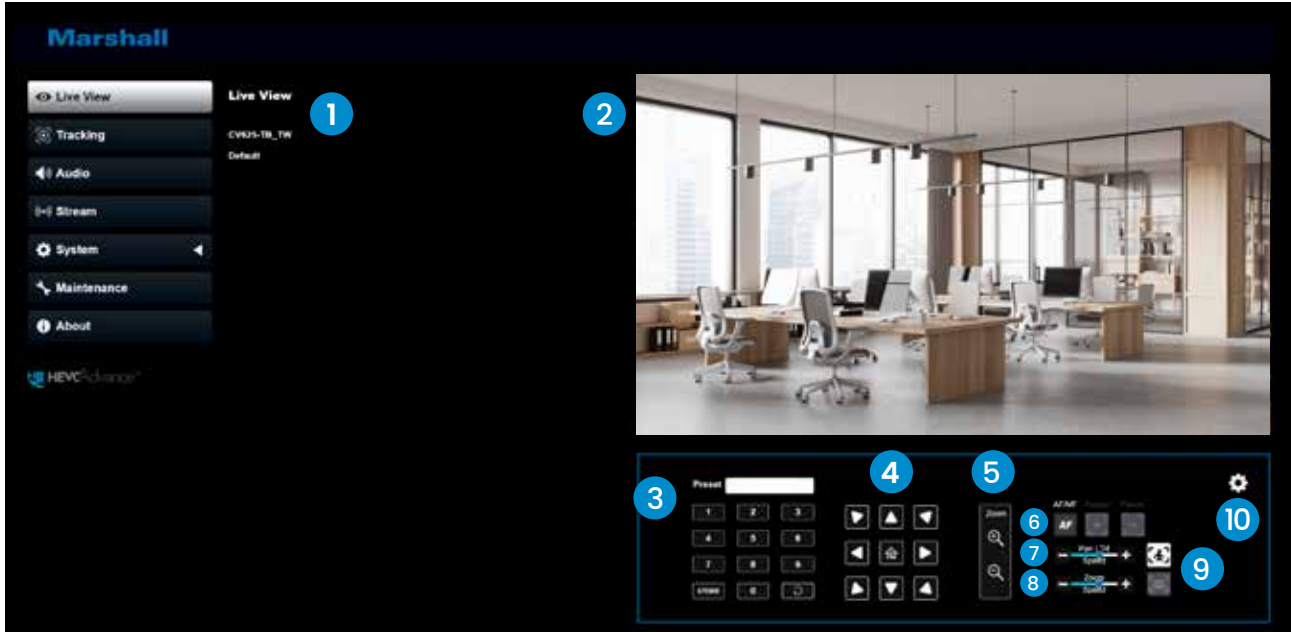
5.2 Web interface functions

5.2.1 Log in



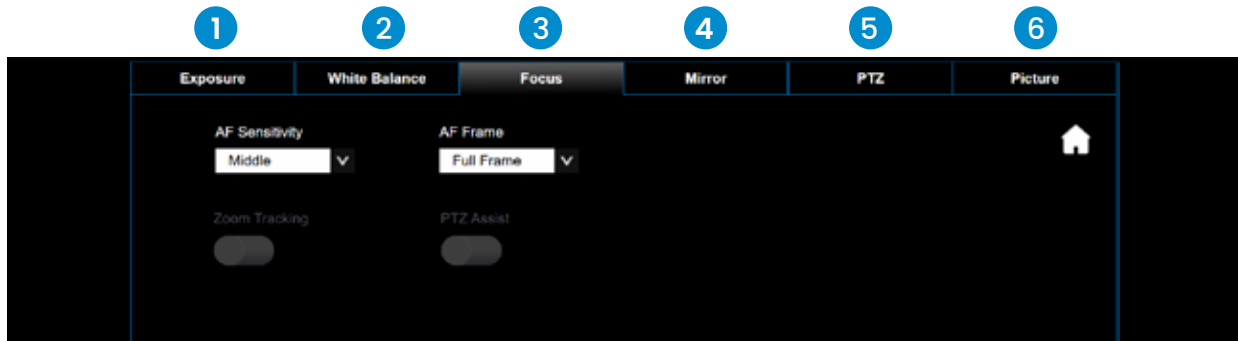
No	Item	Function Descriptions
1	User name	Enter user login credentials (default: admin)
2	Password	Enter user password (default: 9999) <small>Note</small> Please refer to 5.2.12 System-User to change the default password
3	Remember Me	Save the user name and password. When you log in next time, there is no need to re-enter them
4	Login	Log into the web interface


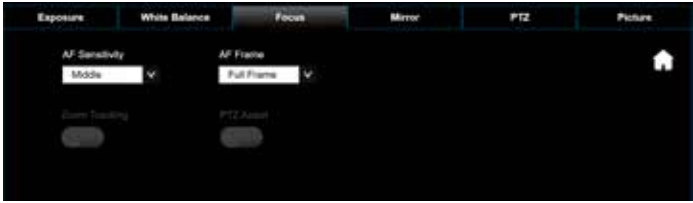
5.2.2 Live View

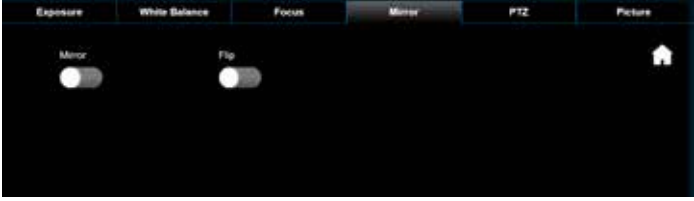




No	Item	Function Descriptions
1	Camera ID/ Location	Display camera ID/ Location Please refer to 5.2.8 System-Device
2	Preview screen	Display the live view of the camera
3	Preset setting	Select the number first and then select Store or Load
4	Pan/Tilt	Adjust the Pan/Tilt position of the camera
5	Zoom	Zoom In/Zoom Out
6	AF/ MF	Switch Auto Focus/ Manual Focus.
7	Pan/ Tilt Speed	Adjust the pan/ tilt speed
8	Zoom speed	Adjust the zoom speed
9	Tracking	Enable/ Disable Auto Tracking/ Auto Framing Note Select Auto Tracking or Auto Framing
10	Camera Setting	Please refer to 5.2.3 Live View - Camera Setting for related settings

5.2.3 Live View - Camera Setting



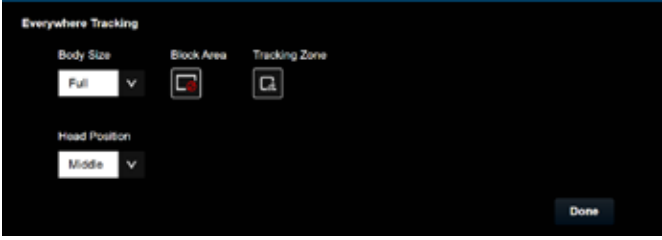

No	Item	Descriptions
1.	Exposure	<ul style="list-style-type: none"> ■ Mode: Exposure mode (Full Auto/ Shutter Pri/ Iris Pri/ Manual/ White Board) ■ WDR: set the level to change the dynamic range of the picture ■ Exposure Comp. Level: select exposure compensation level ■ Gain Level: adjust gain level (adjustable under “Manual” mode.) ■ Iris Level: adjust the aperture (adjustable under “Manual” or “Iris Priority” mode) ■ Shutter Speed: adjust the shutter speed (adjustable under “Manual” or “Shutter Priority” mode) ■ Anti-Flicker: Activate to eliminate flicker from lighting ■ HDR: Enable/Disable HDR (HDR is not supported when the resolution is set to 59.94 or 50 fps).
2.	White Balance	 <ul style="list-style-type: none"> ■ Mode: Select the color temperature ■ One Push: Executes a one-time color temperature adjustment (configurable in [One Push WB] mode) ■ Manual Red/Blue: Manually adjust red/blue color temperature
3.	Focus	 <ul style="list-style-type: none"> ■ AF Sensitivity: change the sensitivity of the auto focus. ■ AF Frame: Changes the focusing zone to the selected mode. ■ Zoom Tracking: The focus mode during lens zooming (can be set in “Manual”) ■ PTZ Assist: Available when Focus is in Manual Mode <p>Note PTZ Assist is triggered only when the camera has moved in any axis. It will not dynamically respond to changes in the scene.</p>

4.	Mirror	 <ul style="list-style-type: none"> ■ Mirror: Set image mirroring ■ Flip: Set the mode at which the image is turned
5.	Pan Tilt Zoom (PTZ)	 <ul style="list-style-type: none"> ■ Pan/Tilt Limit: Enable to set the pan/tilt limit ■ Pan/Tilt Flip: Set On to reverse the Pan/Tilt direction. ■ Preset Speed: Set the rotation speed of the robotic head when a Preset is executed ■ Initial Position: Set the camera lens to return to the Last MEM or the 1st Preset after POWER ON <small>Note</small> 1st Preset= Preset 0 ■ D-Zoom Mode: Enable/ Disable digital zoom ■ D-Zoom Limit: Set the digital zoom limit <small>Note</small> Stream/ USB/ 4K resolution does not support digital zoom PTZ Speed Comp: The Pan/Tilt robotic speed will vary according to the zoom position ■ Motionless Preset: Image will freeze when a preset is activated. Freeze will be released after a Preset camera move has been completed
6.	Picture	 <ul style="list-style-type: none"> ■ 3D noise reduction: 3D noise reduction settings ■ Image Mode: Users can customize image parameters ■ Brightness: Adjustable when Image Mode is set to Custom ■ Gamma: Adjustable when Image Mode is set to Custom ■ Saturation: Adjustable when Image Mode is set to Custom ■ Sharpness: Adjusts the sharpness level ■ Contrast: Adjustable when Image Mode is set to Custom
7.	PTZ Control	Go back to PTZ Control page

5.2.4 Tracking



No	Item	Descriptions
1.	Camera ID/Location	Display camera ID/ location. Please refer to 5.2.8 System-Device
2.	PTZ preview	Display the live view of the main lens.
3.	Panoramic preview	Display the live view of the panoramic lens
4.	Lens Tilt Direction	Set the tilt position for the panoramic lens Note Ensure the setting matches the actual installed tilt angle of the camera. Please refer to 3.2.5 Tilting the Panoramic Lens
5.	People Count	Display the number of people visible to the panoramic camera
6.	Tracking	Enable/ Disable Auto Tracking/ Auto Framing Note <ul style="list-style-type: none"> ■ Select Auto Tracking or Auto Framing ■ Not applicable with [Center Stage] mode
7.	Zoom	Zoom In/Zoom Out image
8.	Pan/ Tilt	Adjust the Pan/Tilt of the camera Note PTZ setting is not supported when tracking is enabled
9.	Take turn	Switch the target Note Applicable in [Auto Tracking] mode only
10.	Setting Area	Display the configured tracking and blocked areas in the panoramic preview screen. Note Applicable in [Auto Tracking] mode only
11.	Designated ID	Display individuals the camera has detected Target ID can be switched by clicking on a subject with the mouse Note Not applicable in [Center Stage] mode
12.	Tracking Mode	Set the Tracking Mode <ul style="list-style-type: none"> ■ Auto Tracking: Everywhere Tracking/ Stage Tracking/ Partition Tracking ■ Center Stage ■ Auto Framing: Auto Framing/ Partition Framing

13.	Sensitivity	Set tracking sensitivity
14.	Tracking Speed	Set tracking speed
15.	Target Lost Time	Set a delay to take action after a tracking target is lost
16.	Target Lost Action	Set the action after a tracking target is lost
17.	Auto-trigger zone	<p>After a person enters the area for 3 seconds, tracking/ framing will be triggered</p> <p>Note</p> <ul style="list-style-type: none"> ■ [Tracking Mode]> [Center Stage] is not supported. ■ Enabling Auto Tracking/ Auto Framing will disable the [Auto-trigger zone] function ■ Stopping Auto Tracking/ Auto Framing will reactivate the [Auto-trigger zone] function
18.	Tracking Mode Setting	Advanced settings for tracking
18.1	Everywhere tracking	 <ul style="list-style-type: none"> ■ Body Size: Set Full/ Half Body ■ Head Position: Set the head position of the person in the screen ■ Block Area: Click the left mouse button to draw a frame on the panoramic view to set a blocked area ■ Tracking Zone: Click the left mouse button to draw a frame on the panoramic view to set a designated tracking area
18.2	Stage Tracking	 <ul style="list-style-type: none"> ■ Body Size: Set Full/ Half Body ■ Head Position: Set the head position of the person in the screen ■ Block Area: Click the left mouse button to draw a frame on the panoramic view to set a block area ■ Tracking Zone: Click the left mouse button to draw a frame on the panoramic view to set a designated tracking area
18.3	Partition Tracking	Set Partition Tracking. Up to 4 zones can be set