

LumensCMS Auto Tracking Camera Image Management Software User Manual

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LumensCMS Auto Tracking Camera Image Management Software



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Instructions on Software Installation and Tracking Settings

System Requirements

- Operating System: Windows 7 32 bits/64 bits or higher
 - Windows XP is not supported
 - MAC OS is not supported
- CPU: Intel i3 or higher level processor
- · Memory: 4G RAM or above

• Min Hard Drive Space: 1GB or above

Connecting Camera to Network

Two common connection methods are shown below:

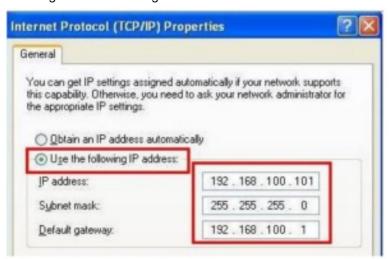
1. Connecting via switch or router



2. To connect directly through network cable, the IP address of the computer should be changed so that it is on the same network segment as the camera E.g.: The factory-preset default IP address of VC-TR1 is 192.168.100.100. The computer IP address must be set with the same network segment, such as 192.168.100.101, so that the computer can be connected correctly with the camera



• Change network settings

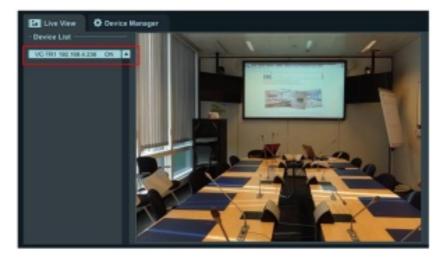


Connect LumensCMS Software with VC-TR1

1. Please download the software from [Support] > [Download] page on Lumens official website



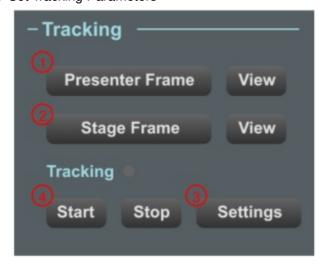
- 2. Open the LumensCMS software, and add in the camera
 - Automatically add it in— First, turn on the camera. After opening the LumensCMS software, VC-TR1 will be automatically added to the list for about 5 7 seconds. Double-click the camera to display the screen



- Manually add it in- Open the Device Manager page
- > Search Device:
- ●[Refresh]> ② Click the camera > ③ [Add to Device Manager], ④ Enter the camera password (Default is 9999)
- ➤ Go back to ⑤ [Live View] page. Double-click the camera added to the list to display the screen



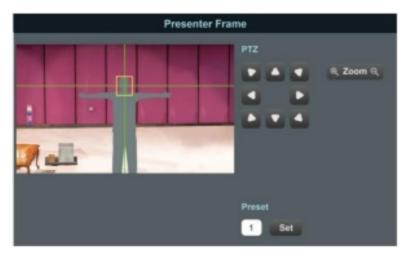
3. Set Tracking Parameters



1. Presenter Frame

Operate the PTZ to set the tracking screen. This setting determines the magnification and the vertical angle of the PTZ during tracking

- * Recommendation: The face shall be in the yellow auxiliary frame. After straightening the arms, the best distance between the left and right sides and the frame is to accommodate at most 2 people
- <Remark> Presenter Frame is same with the setting of Preset 1. You can also set up from the remote control



2. Stage Frame

Operate the PTZ to set the stage screen. This setting switches to the Stage Frame screen automatically when the camera loses the tracking target

<Remark> Stage Frame is same with the setting of Preset 0. You can also set up from the remote control



3. [Settings]> [Tracking Area]

Click Tracking Area, drag the mouse to customize the tracking area (green frame) When the target appears in the tracking area, the VC-TR1 will start the tracking.

* Recommendation: When setting the tracking area, you have to make sure there is only one tracking target moving in this area. Excluding the probability of non-tracking targets appearing in this area is required

■ Everywhere Tracking:

After being checked, the target will still be tracked automatically if it is outside the green tracking area frame

■ Blocked Area(1-8):

Draw the Blocked Area, the Blocked Area can block the motion detection (but not the face detection).



4.Click Start to start tracking

Software Function Descriptions

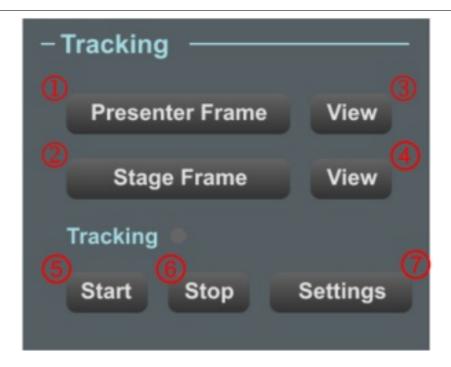
Launch Screen (Live View)



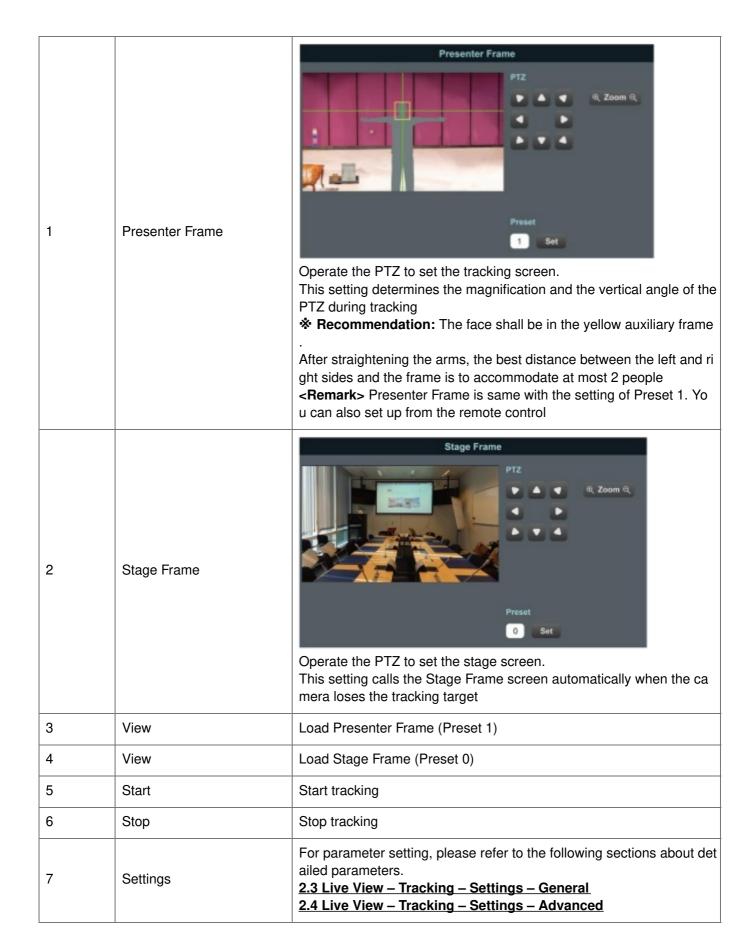
No	Item	Function Descriptions
1	Live View	Preview the camera screen, control tracking and PTZ function
2	Device Manger	Search and manage the available cameras
3	Device List	List of controllable cameras
4	Tracking	Control the auto tracking function of the camera

5	PTZ control	Control the PTZ of the camera, menu, Preset, image parameters
6	Preview Screen	Support up to the four-pane preview screen
7	Snapshot	Take snapshots and save in the designated path
8	Recording	Recording and save in the designated path
9	Audio In	Turn on/off the sound of LumensCMS software
10	Close all screens	Click to close all preview screens
11	Screen Switch	Switch the selected screen to a single window or go back to the four-p ane preview screen
12	Computer's performance st atus	Display computer's performance status
13	Stand By/Wake Up	Stand By/Wake Up the selected cameras in Device list
14	About	In formation of software version and release date
15	Lumens CMS Settings	 Language: English Snapshot location: Select the path to save the snapshots Recording location: Select the path to save the recordings

Live View – Tracking



No Item Function Descriptions



Live View - Tracking - Settings - General

No	Item	Function Descriptions

•	1	Tracking Are a	Drag the mouse to customize the tracking area (green frame). When the target appears in the tracking area, the VC-TR1 will start the tracking.
	2	Everywhere Tracking	After being checked, the target will still be tracked automatically if it is outside the green tracking area
	3	Blocked Are a	Draw the Blocked Area. The Blocked Area can block the motion detection (but not the face detection).
	4	Enable smar t switch	 OFF: Turn off the smart switch function. The camera will follow the setting of the Target lost action. PTZ Main Stream: Turn on PTZ Stream smart switch function. The mode will follow the setting of the smart switch mode. Panoramic Stream: Turn on Panoramic Stream smart switch f unction. The mode will follow the setting of the smart switch m ode.
	5	Target lost a ction	 Stage Frame: Returning to the stage frame when the camera I oses the target Presenter Frame: Returning to the presenter frame when the camera loses the target Stay: Staying in place when the camera loses the target.
	6	Smart switc h mode	 Close-up when still: Switches to Panoramic View when the target is moving. Switches to Close-up when the target is still. Close-up is determined by the Presenter frame. Close-up when slow moving: Switches to Panoramic View when the target is moving. Switches to Close-up when the target is moving slowly or still. Close-up is determined by the Present er frame. Continuous following: Close-up when auto tracking the targe to Switches to Panoramic View when the camera loses the targe et. Close-up is determined by the Presenter frame.
•	7	Partition	Select to draw the tracking area of the preset. When the target en ters this tracking frame, the preset screen will be loaded automatically until the target leaves the tracking frame. A (Blue): Preset 101 / B (Orange): Preset 102 C (Yellow): Preset 103 / D (Purple): Preset 104

Settings
General Advanced
Tracking When Power On
Ott
Tracking Parameters

Low High Slow Fast Slow Fast Slow Fast

1

3 4 6

(8)

TExpert Mode —

Service Zone

	8	Multi-People Detection	After selecting, the camera will call when two or more targets app ear in the Tracking Area (green frame) 1. Multi-People Frame (Preset 2) 2. Stage Frame (Preset 0) 3 Panoramic View
, and the second	9	Multi-People Frame	Click to set multi-people detection (Preset 2) screen
Ï	10	Reset	Reset to the initial setting
Î	11	Save	Save parameters
°	12	Return	Return to Live view

Tracking Area

When the target appears in the tracking area, the VC-TR1 will start the tracking.

*Recommendation: When setting the tracking area, you have to make sure there is only one tracking target moving in this area. Excluding the probability of non-tracking targets appearing in this area is required

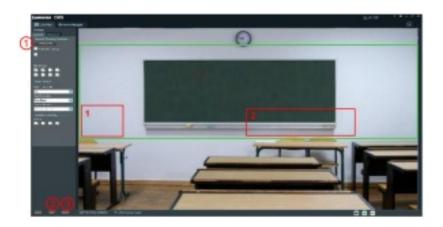
- 1. Click Tracking Area, drag the mouse to customize the tracking area (green frame)
- 2. Click Save to save the settings
- 3. Click Return to return to the Live View screen



Blocked Area

Draw the blocked area (red frame). You can set 8 blocked areas in total. The blocked area can block the motion detection (but not the face detection).

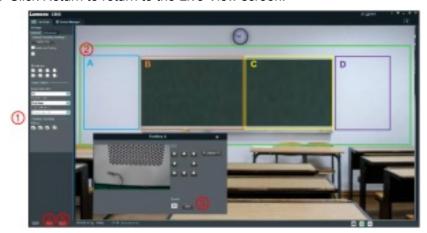
- 1. After being checked, drag the mouse to draw the blocked area (red frame)
- 2. Click Save to save the settings
- 3. Click Return to return to the Live View screen



Partition

Draw the Partition area. You can set 4 Partition areas in total.

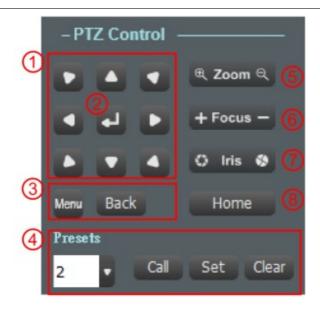
- 1. Check Partition
- 2. Drag the mouse to draw the Partition tracking area
 - A: Blue frame
 - B: Orange frame
 - · C: Yellow frame
 - D: Purple frame
- 3. Set the preset position for Preset
 - A: Preset 101
 - B: Preset 102
 - C: Preset 103
 - D: Preset 104
- 4. Click Save to save the settings
- 5. Click Return to return to the Live View screen.



Live View - Tracking - Settings - Advanced

	No	Item	Function Descriptions
	1	Tracking When Power On	Turn on/off Auto Tracking after the camera boots up
	2	Reset	Reset to the initial setting
Settings General Advanced Tracking When Pureer On Off	3	Sensitivity	The bigger the value, the higher the tracking sensitivity and the more small movement can be detected
Tracking Parameters (2) Secret	4	Pan speed	The PTZ horizontal moving speed during tracking
Title Company Show Fresh 4 Title Company Show Fresh 7 Lost Size Show Fresh 2	5	Tilt speed	The PTZ vertical moving speed during tracking
7 Expert Mode Ox/Off 8 Service Zone	6	Lost time	The time before returning to target lost action setting when the camera loses the target
Service Zone	7	Expert Mode	Turn on/off identifier When the green light next to the button is on, the tracking ide ntifier will be turned on
Reset Save Return (9) (0) (1)	8	Service Zone	For engineers use only
	9	Reset	Reset to the initial setting
	10	Save	Save parameters
	11	Return	Return to Live view

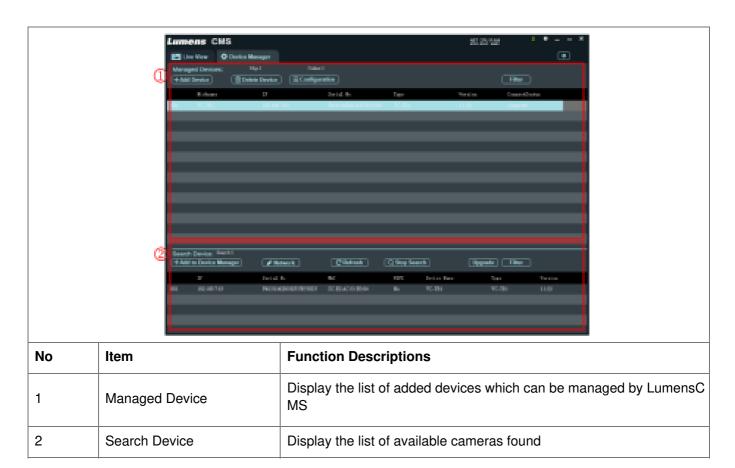
Live View – PTZ Control



No	Item	Function Descriptions
1	←→ ↑₩₩₩	Control the PTZ direction
2	Enter	Enter the next layer of the menu
		Enter: Turn on or off the menu
3	Menu / Back	Back: Return to the previous layer of the menu
4	Preset	Number: Enter the preset number from 3 to 255 (Special preset can not be used as general preset. Please refer 2.5.1 Special Preset Function Descriptions) for more details about the related function d escriptions Call: Load the preset of the set Set: Set the preset of the set Clear: Clean the preset of the set
5	Zoom	Zoom setting
6	Focus	Focus Setting
7	Iris	Iris setting
8	Home	Restore the PTZ to the initial position

Special preset	Function	Remark
80	Start tracking	
81	Stop tracking	
95	Enter or exit the setting menu	
96	Clear 0 – 64 preset	
99	Reboot the machine	
121	Output the PTZ screen	HDMI/ SDI
122	Output the panoramic screen	HDMI/ SDI
123	PTZ and panoramic PIP screen	HDMI/ SDI

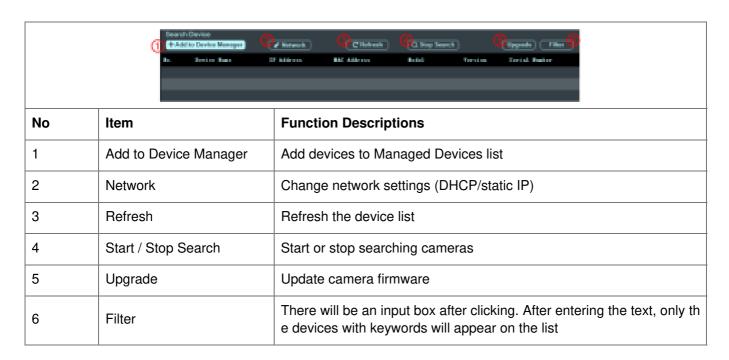
Device Manager



Device Manager – Managed Device

	He Add Davice Del	into Device Configuration 17 Address Mr. Address British Presion Device Parker Device
No	Item	Function Descriptions
1	Add Device	After entering data, you can add devices manually. The user name ca nnot be changed
2	Delete Device	Delete the selected devices
3	Configuration	Set the selected devices
4	Filter	There will be an input box after clicking. After entering the text, only the devices with keywords will appear on the list

Device Manager – Search Device



Device Manager - Configuration - Streams



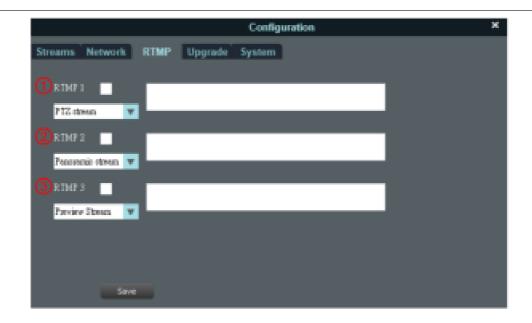
No	Item	Function Descriptions
1	Stream	Set IP streaming. There are 3 IP streaming options: PTZ, Panoramic, Pre view stream
2	Resolution	There are 4 resolution settings: QVGA, D1, HD720P, and HD1080P The d ifferent streaming sources provide different resolution settings • PTZ: Support up to HD1080@60 • Panoramic: Support up to HD1080@30 • Preview: Support up to HD720@30 Caution: The resolution of IP streaming is set independently, which is not subject to the resolution setting of DIP SWITCH and MENU
3	Bitrate type	Select CBR (Constant Bit Rate) / VBR (Variable Bit Rate)
4	Bitrate (Kbps)	Users enter bitrate
5	Frame rate	Select frame rate 50 / 60 option is subject to the maximum FPS limit of DIP SWITCH
6	GOP	50 / 60 option is subject to the maximum FPS limit of DIP SWITCH
7	Video encoding	The encoding type. H.265 and H.264 encoding are available
8	Encoding Profile	The encoding level. Base, Main and High Profile setting are available for s election
9	Channel	The audio channel setting. Currently only Mono setting is supported
10	Audio Encoding	The audio encoding type supported by the current device. Currently only AAC is supported

11	Audio sample rate	The audio sample rate. Currently only 48 KHz is supported
12	Audio bitrate	The audio encoding setting. Currently only 48 Kbps is supported
13	Audio source	The audio input method. Currently only LineIn is supported
14	Volume	Drag the volume bar to set the volume. The adjustable range is 0 – 100

Device Manager – Configuration – Network

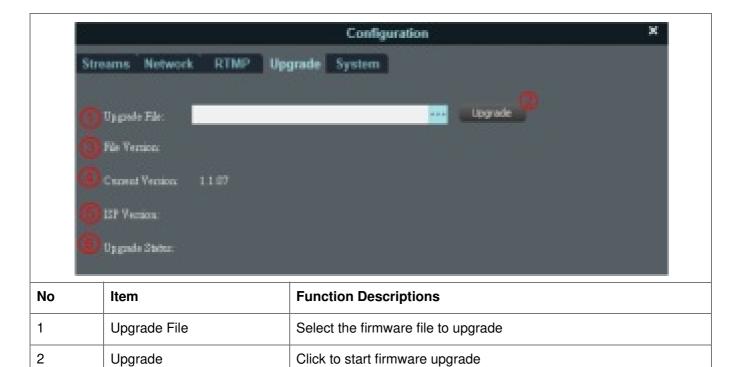


No	Item	Function Descriptions
1	IP Assignment	Select Static IP or set DHCP auto configured IP
2	IP Address	IP address setting
3	Subnet Mask	Subnet mask setting
4	Gateway	Gateway setting
5	Primary DNS	Primary DNS setting
6	Secondary DNS	Secondary DNS setting
7	RTSP port	RTSP port setting. Default is 554
8	APP port	APP port setting. Default is 5000



No	Item	Function Descriptions
1	RTMP 1	Set the streaming which is live streamed to RTMP1 server. Select the signal source, check the box to save it and start live streaming
2	RTMP 2	Set the streaming which is live streamed to RTMP2 server. Select the signal sou rce, check the box to save it and start live streaming
3	RTMP 3	Set the streaming which is live streamed to RTMP3 server. Select the signal sou rce, check the box to save it and start live streaming

Device Manager – Configuration – Upgrade



Displaying the version of the selected upgrade firmware file

Displaying the current firmware version of the machine

The ISP version for judgment of engineers only

Displaying the status of upgrade firmware

Device Manager – Configuration – System

File Version

ISP Version

Current Version

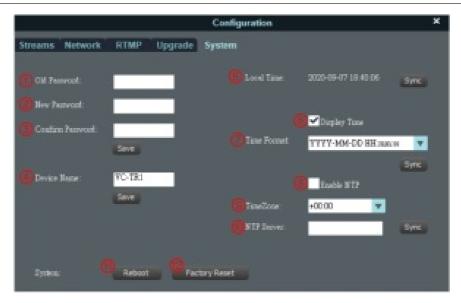
Upgrade Status

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6



No	Item	Function Descriptions
1	Old Password	Enter the old password
2	New Password	Enter the new password
3	Confirm Password	Confirm the new password
4	Device Name	Set the camera name
5	Local Time	Displaying the current local time
6	Display Time	Turn on/off time display
7	Time Format	Time display format setting
8	Enable NTP	Enable NTP auto time zone setting
9	TimeZone	Select the time zone of your location
10	NTP Server	You can set the NTP Server by yourself. Confirm and click Sync to syn chronize
11	Reboot	Reboot the camera
12	Factory Reset	Restore the camera to the factory reset

Troubleshooting

This chapter describes problems you may encounter while using VC-TR1 and LumensCMS software. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1.	After enabling tracking , the target size does n ot meet expectations	You can adjust the setting by Presenter Frame. Set the scale size by the designated position, and zoom to the desired scale
2.	When stopping trackin g, can the screen stay at the designated posit ion?	By Stage Frame function, you can set the desired position to stay as the position for stopping tracking
3.	How to activate and st op the tracking function?	It can be activated and stopped via [Start]/[Stop] in the CMS software. In add ition, F1/F2 on the remote control can be used to activate and stop the function
4.	How to make the came ra direct to a designate d position instead of tr acking the presenter (t arget) during tracking?	You can set by Partition Tracking This function is to set the customized area. When the tracking target appear s in the specific position, the camera will automatically direct to the preconfig ured Preset position
5.	After using the mask fr ame function, why doe s the camera still track ing the target when it a ppears in the mask fra me?	The mask frame will only turn off moving object detection, not face detection. When TR1 already detects the target tracking face, even the target enters the mask area, TR1 will keep tracking the target until the target leav es the tracking area
6.	Turn on/off Expert Mod e	Expert Mode is to show the identifier fame after enabling tracking. It helps users to know the current detection precision and if there is any on-site tracking issue caused by environment interference (Blue/red one is the face detection fame, and green one is the object detection frame)
7.	How to change the def ault path of recording and snapshots?	Access the LumensCMS main screen and click the tool icon (LumensCMS C onfiguration) to change the recording path
8.	LumensCMS cannot c onnect to VC-TR1	 Please confirm that the computer and the camera are in the same networ k segment Please refer <u>Chapter 7 DIP Switching Setting in the VC-TR1 User Manual</u> to make sure the dial is set to Ethernet output





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