

Intelligent Director: CaptureVision LC300/LC300S with VC-TR40 AT

Pair Lumens VC-TR40 PTZ cameras with CaptureVision LC300/LC300S to enable the Intelligent Director function. Each VC-TR40 PTZ camera needs to run the VC-TR40 AT firmware which can be downloaded from the Lumens website. The AT firmware only differs from the standard version in tracking functions; all other functions are the same.

1 What is the difference between VC-TR40 & VC-TR40 AT?

VC-TR40 and VC-TR40 AT firmware have different tracking functions.

a. VC-TR40 tracks or frames a target in the tracking zone. Available modes:

- Everywhere Tracking, Stage Tracking, Partition Tracking, Auto Framing, Partition Framing

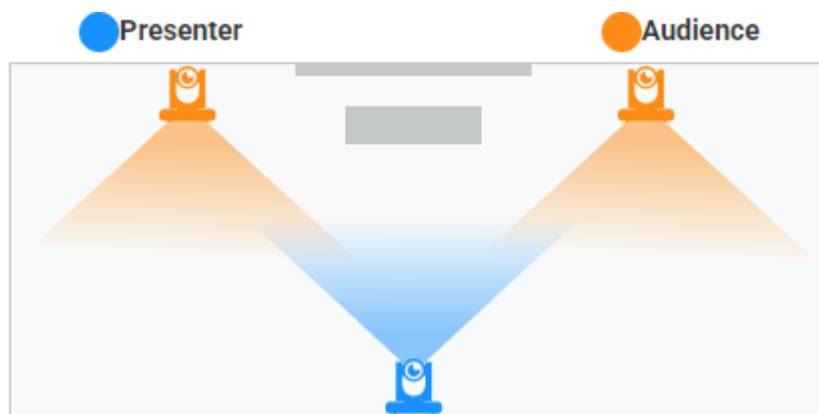
b. VC-TR40 AT offers two modes:

- Presenter Mode: The camera tracks the target within the tracking zone. Tracking behavior is the same as VC-TR40 Everywhere Tracking.
- Audience Mode: The camera starts tracking when it detects a target standing up and stops when the target sits down.

2 Installed scenario for VC-TR40 AT

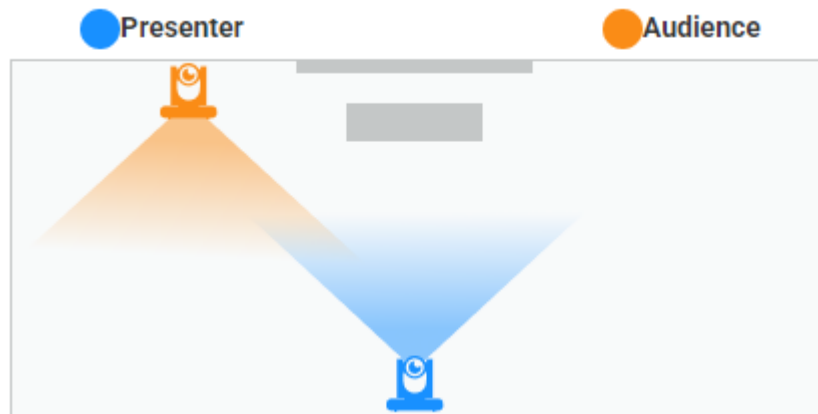
2.1 Scenario for 3x VC-TR40 AT cameras (single presenter camera and two audience cameras) - suitable for a conference room.

- Install the presenter camera at the back of a room, facing the podium or presentation area.
- Audience Cameras: Install at the front of a room, facing the audience.



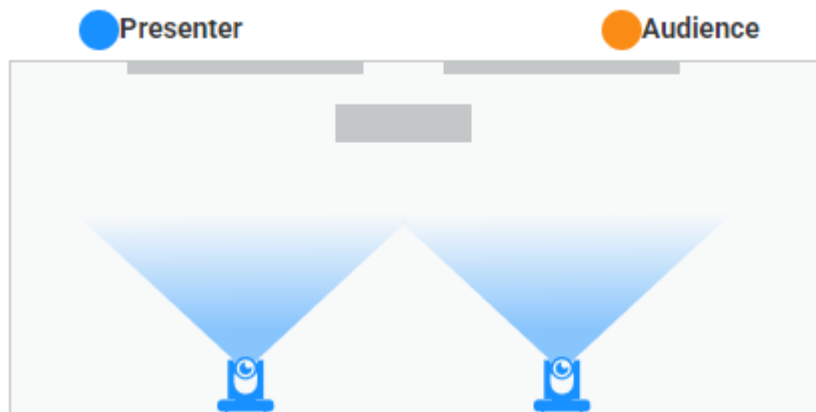
2.2 Scenario for 2x VC-TR40 AT cameras in a smaller classroom or meeting space.

- Install camera 1 at the back of a room to capture the presenter.
- Install camera 2 at the front of a room to capture the audience.



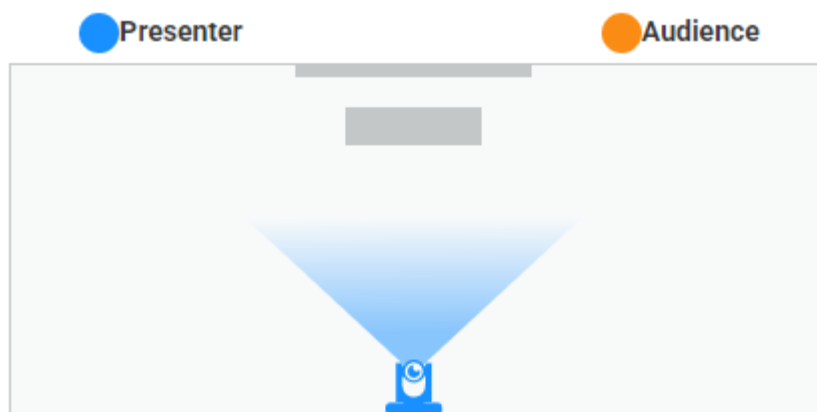
2.3 Scenario for 2x VC-TR40 AT cameras covering a large stage area.

- Install both cameras at the back of a room to track the presenter.



2.4 Scenario for 1x VC-TR40 AT* in a small stage area.

- Install the camera at the back of a room to capture the presenter.



3 How to update VC-TR40 to VC-TR40 AT?

- 3.1 Download VC-TR40 AT firmware from www.MyLumens.com (the latest version is VUD200).
- 3.2 Connect the camera with a network cable and enter VC-TR40's IP address in your web browser
- 3.3 Go to [Maintenance] -> [Update], select the new firmware file and click Upgrade.

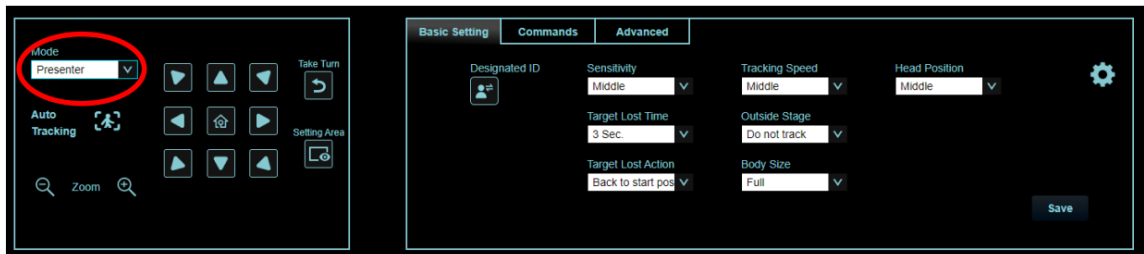
- 3.4 Do not power off the camera. After 5-8 minutes the process will finish.
- 3.5 Clear cache and cookies. Enter the camera's IP address on the browser and go to [Maintenance] -> [Update] to conduct a factory reset.
- 3.6 If the user wants to revert to the original VC-TR40 firmware, download the latest VC-TR40 firmware from www.MyLumens.com. Now repeat steps 3.1-3.5. The camera will return from VC-TR40 AT to VC-TR40.

Please note that the VC-TR40 firmware must be at least VXA109 before it can be updated to the VC-TR40 AT version.

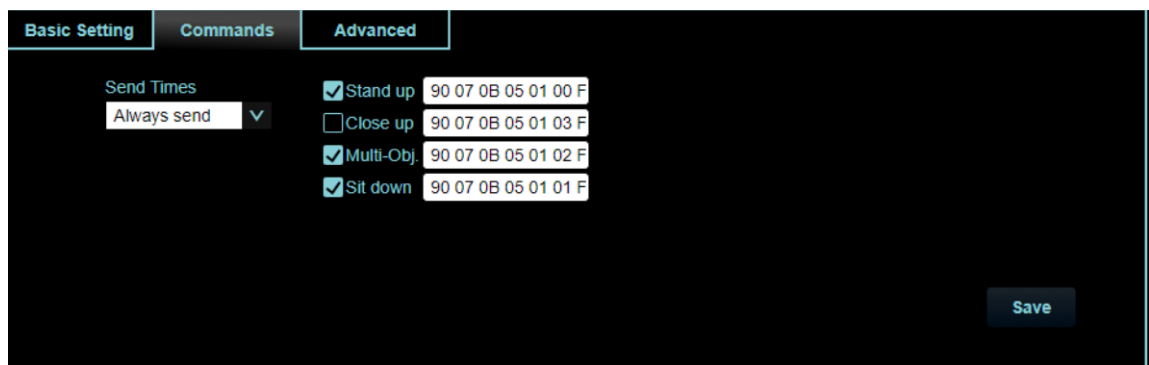
4 How to set up Intelligent Director on LC300/LC300S and VC-TR40 AT

You will need a CaptureVision LC300/LC300S and at least one VC-TR40 AT (up to a maximum of 3). Connect them to the same LAN. We will use three VC-TR40 AT units as an example.

- 4.1 Go to Mode setting in the web interface. On the "Tracking" tab, set one VC-TR40 AT into "Presenter Mode", and the other cameras to "Audience Mode".



- 4.2 First, let's configure the VC-TR40 AT Audience Mode camera. Go to the "Command" tab in the webpage, select "Always send", tick Stand up, Multi-Obj., and Sit down, and click "Save".



- 4.3 Continue to configure the VC-TR40 AT Audience Mode camera. Go to “Advanced” tab, and follow the same settings as in the screen grab below. Director IP is your LC300/LC300S IP; the Device port is 52382. Click “Save”.

- 4.4 Next, configure the VC-TR40 AT Presenter Mode camera. Go to the webpage. Under “Command” tab, in Send Times select > Always send; in Up / Down Stage Select > Detect; in Detect Type select > Multi-Obj Detect; in Behavior Detect select > Normal. Tick Target Appear, Target Miss, Go Up Stage, and Go Down Stage, and click Save.

- 4.5 Continue to configure the VC-TR40 AT Presenter Mode camera. Go to the “Advanced” tab, and follow the same settings as shown below. The Director IP is your LC300/LC300S IP. The Device port is 52382. Click “Save”.

- 4.6 Go to [System] -> [Output] to edit name of each VC-TR40 AT (this will help later settings).

For detailed explanations of the settings on the Commands tab, please refer to the VC-TR40 user manual.

- 4.7 Let's configure the LC300. Go to its web interface "Source" > "Network Source Manager". Add three VC-TR40 AT units into network sources.

Network Source

Refresh

Host Name	IP Address	MAC	Manufacturer	Status	Connected	Delete
VC-TR40-AT-P1	192.168.4.118	DC:E2:AC:02:E0:41	Lumens	OK	OK	
VC-TR40-AT-A2	192.168.4.115	DC:E2:AC:02:E0:0B	Lumens	OK	OK	
VC-TR40-AT-A1	192.168.4.120	DC:E2:AC:02:E1:19	Lumens	OK	OK	

- 4.8 Go to the "Video Channel Manager" tab and click "Edit". Put the VC-TR40 AT Presenter Mode camera into Channel 2, VC-TR40 AT Audience Mode camera 1 into Channel 3, VC-TR40 AT Student Mode camera 2 into Channel 4, and click "Apply".

Network Stream

Total Source:

Channel 1: HDMI 1

Channel 2: HDMI 2
VC-TR40-AT-P1

Channel 3: HDMI 3
VC-TR40-AT-A1

Channel 4: HDMI 4
VC-TR40-AT-A2

Cancel Apply

- 4.9 Go to the "Intelligent Director"
- Select Scene Trigger Timing. You can choose Anytime, Recording only, Streaming only, Recording or Streaming.
 - Select Template. You can choose Presenter*1 、Audience*2, Presenter*1 、Audience*1, Presenter*1, Presenter*2.
 - Set up each camera with a Trigger Event, camera priority, and corresponding Scene. Then click Apply and turn on Intelligent Director.

Example:

Audience1 sets Trigger Event is Stand up 、Priority is 1

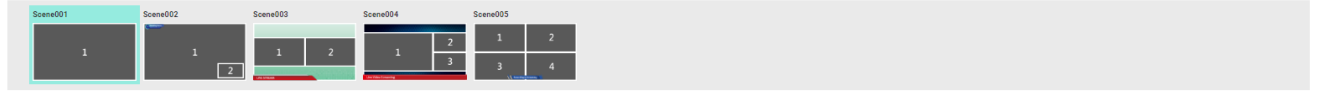
Audience2 sets Trigger Event is Stand up 、Priority is 2

Presenter sets Trigger Event is Target Found 、Priority is 3

Target lost sets Priority is 4

Target Lost Action

Priority : 4

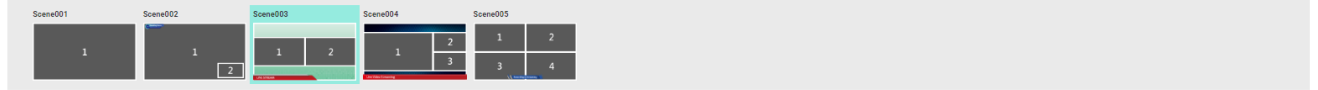


Presenter Settings

Camera : VC-TR40-AT-P1(192.168.4.118)

Trigger Event : Target Found

Priority : 3

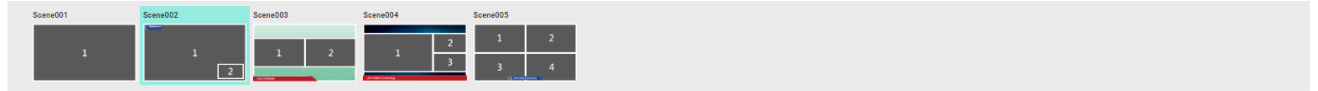


Audience No.1 Settings

Camera : VC-TR40-AT-A1(192.168.4.120)

Trigger Event : Stands-Up (Audience)

Priority : 1

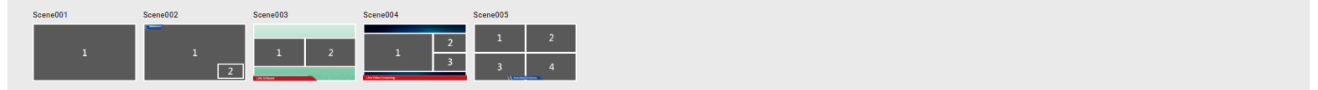


Audience No.2 Settings

Camera : VC-TR40-AT-A2(192.168.4.115)

Trigger Event : Stands-Up (Audience)

Priority : 2



Apply

Intelligent Director

on

Trigger Timing : Anytime

Template : Presenter*1_Audience*2

