

AVer TR530 Camera Integration used with

Kaltura Streaming Service

(February 2022)

Steps to integrate the Aver TR Cameras into the Kaltura Streaming Service

Kaltura offers live and on-demand video SaaS solutions to thousands of organizations around the world, engaging hundreds of millions of viewers at home, at work, and at school.

AVer has high quality image Cameras (TR530 / PTZ330) that will integrate with these workflows for peak performance and ease of use. We will show the configuration process for the TR530 Camera and the various Kaltura video products.

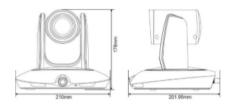
TR530/320 Tracking Camera Quick Start Guide

There are some pre-requisites for this to happen, see below.

• AVer TR530 Camera and accessories.

Package Contents Camera unit Power adapter RS-232 to D-Sub 9 cable Power cord Quick Guide Remote Controller Overview PTZ camera 9 RS-232 port 17. Zoom in/out 2. Panoramic camera 10. Power jack 18. Exposure compensation 3. Power indicator 11. Camera select 19. Home position 4. RJ-45 port 12. Enter 20. Tracking on/off 5. 3G-SDI 2 port 13. Camera direction control 21. Number buttons 14. White balance 6. 3G-SDI 1 port 22 Profile 7. HDMI port 15. OSD menu 23. Preset 8. Audio in port* 16. Back light control *Audio input level: 1Vrms(max.) P/N: 300AU9P1-ECV

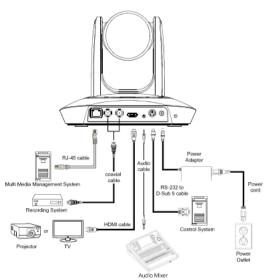
Dimension



Important Camera Setup

Installation Suggestion:

- Install height: 2~3m (6.56~9.84 feet). 2.4m (7.87 feet) is recommended. If the camera height is too low, tracking may be compromised. Please raise the camera to at least 6.56 feet.
- Distance from podium:
- TR320: 4~10m (13~33 feet)
- TR530: 4~15m (13~49 feet)



- Chrome Browser, version 79.0.3945.xxx and later.
- If a Kaltura login is not available, create one at: <u>https://corp.kaltura.com/products/video-for-business/kaltura-video-platform/free-trial/</u> and follow the prompts.
- Windows 10 Pro OS used in this setup.

Kaltura Setup

- 1. There are a couple of different ways to interact with Kaltura with the AVer Pro-AV camera, they are:
 - Upload from Desktop
 - Bulk Upload
 - Upload from URL
 - Create Live Stream Entry



- 2. We will focus on the "Live Stream" aspect in Kaltura.
- 3. Login to you Kaltura account, then select "Create" at the top of the screen, it will ask what you want to do, in this case select "Create Live Stream Entry".

Stream Type	Kaltura Live Streaming (HDS/HLS/DASH)	\checkmark
Name	* Rm Aver Test TR530	
Description	TR530 Camera	
Live Transcoding Profiles	Passthrough	\checkmark
Live DVR	Off	
	Seeking to previous parts of the live stream. The DVR window is 2 hours by default.	
Recording	On	
	Append recorded content to a single entry	\checkmark
Preview Mode	Off	

4. For "Stream Type", I selected the Kaltura Live Streaming, after selecting "Create"; you should now see "Success".

Success	
Live Stream Entry has been created successfully. Do you want to view entry details?	
Yes No	

Kaltura Setup (continued)

5. You should now be looking at an entry with the name you had selected when creating the Live Stream.

CONTENT STUDIO ANALYTICS SERVICES DASHBOARD	CREATE 🗅 🐵 🕺
ENTRIES MODERATION PLAYLISTS SYNDICATION CATEGORIES	UPLOAD CONTROL BULK UPLOAD DROP FOLDE
43 Entries	Q Search Entries
Thumbnail Name	ID Type Created On v Duration Plays Status
Rm Aver Test TR530	1_r9rk6lzs v ^{3a} 02/14/2020 10:00 N/A 0 Ready ***

6. Next, select the Thumbnail or name of Stream; it will bring you to the following screen.

CONTENT				CREATE	
	ENTRIES MODERATION PLAYLISTS SYM	IDICATION CATEGORIES		UPLOAD CONTROL BULK UPLOA	D DROP FOLDERS
\leftarrow	Rm Aver Test TR530			View Analytics ··· Save	< →
	ID: 1,r9rk6izs $_{\rm Q}{}^{\rm lb}$ Creation Date: 02/14/2020	Last Update: 02/14/2020 Ow	ner: rich.moscoso@aver.com Moderation: Auto Approved Plays: 0		$\wedge \vee$
	Currently not broadcasting	Metadata			Jumpto v
	video will play once broadcasting starts	Name	Rm Aver Test TR530		
	broadoasting starts	Description	TR530 Camera		
	🗠 Share & Embed 📑 Editor				
	Metadata	Tags			
	Thumbnails	Categories			
	Access Control		Browse Categories		
	Scheduling	Offline Message			
	Live Stream				
	Related Files	Reference ID			
	Clips				
	Users	Terms Of Use			
		sharedRepository			

7. Next, press the "Live Stream" selection, you should now be looking at the following screen.

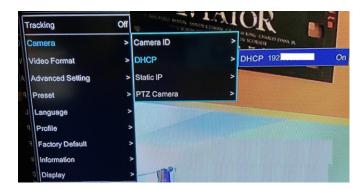
CONTENT	STUDIO ANALYTICS SERVICES DASHB	OARD		CREATE
	ENTRIES MODERATION PLAYLISTS SY	NDICATION CATEGO	RIES	UPLOAD CONTROL BULK UPLOAD [
÷	Rm Aver Test TR530	20 Last Update: 02/14/.	2020 Owner: richumoscoso@aver.com Moderation: Auto Approved Plays: 0	View Analytics ··· Save
	Currently not broadcasting video will play once broadcasting starts «\$ Share & Embed 🖻 Editor Metadata	Live Stream Broadcasting URL Primary URL: Backup URL:	rtmp://1.	
	Thumbnails Access Control Scheduling	Stream name:	1 Supert XML for FMLE Live Content Detailed Recort	
		RTSP Broadcastin	g URLs	
	Live Stream	Primary URL:	rtsp Co	
	Related Files	Backup URL:	rtsp://1 Pa	
	Clips			
	Users	Live Stream Config		
		DVR Status:	Off	
		Recording:	On	

Kaltura Setup (continued)

- 8. Next, select the two squares to the right of the Primary RTMP URL, this will copy the string and permit you to paste into the TR530 Camera's setting.
- 9. Before continuing, we will discuss the setup of the TR530 camera.

TR530 Camera Setup

10. Connect the TR530/320 camera via Network connection; verify IP address of Camera in order to connect via browser. Select the "Menu" icon on the remote and navigate to the "Camera->DHCP->" setting, verify it is set to DHCP "On" in order to grab an available IP address. If you are reserving IP addresses, verify it is set to the correct IP address and that DHCP is set to "Off".



11. Once you have the IP address setup, type the IP address in your Chrome browser (Setup on same subnet) and you should now see a login to the TR530 camera shown below.



- 12. The default password is "admin".
- 13. Next, you should now see the main login screen with a "Live View" of the PTZ Camera.



TR530 Camera Setup

14. Next, select the settings gearbox

, then select "Network Setting". You

should now see the following dialog box.

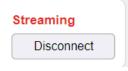
A	Ver		
	•	Network	
PTZ	PTZ camera >	DHCP enable IP address Netmask	
4	Video & Audio setting	192	
윪	Network setting		
	Tracking setting	Gateway DNS	
Ì	Preset setting		Apply
P _o	Advanced setting	RTMP Server (PTZ)	
۲	Profile setting	Server URL Stream Key	
~~	System setting		Connect
ø	Factory default	RTSP (PTZ camera: rtsp://Camera IP 554/live_st1, Panoramic camera: rtsp://Camera IP.8554/live_st2)	
		Password Confirmation	

Ö

- 15. Next, notice the RTMP Server URL selection, this is where you will "paste" the earlier copied URL string from Kaltura.
- 16. Next, select the two squares to the right of "Stream Name" to copy that information, and then paste it to the TR530 cameras "Stream Key" selection.
- 17. Next, once Server URL and Stream Key information has setup, select "Connect".

erver URL	Stream Key	
		Connect

18. Next, a red "Streaming" text should be displayed to indicate you are now streaming. This is where you would also "Disconnect" from the stream.



19. Next, go back to the Kaltura login, it will take approximately 1-2minutes, depending on your network speeds, but the thumbnail should go from "black/off Air" to "Live".



Kaltura Setup (continued)

- 20. Next, select "play" and you should be viewing "Live" video from the TR530 camera.Note: There is roughly a 25-30 second video delay from source to the thumbnail.
- 21. To end the "Streaming" session, select "Disconnect from the TR530 camera interface.

St	reaming	
	Disconnect	

- 22. Going back to the Kaltura web interface, it will again take 1-2 minutes for the thumbnail to update and show that the stream has ended.
- 23. This concludes the tutorial on setting up the TR530 camera with Kaltura Streaming on a basic level.