

AVer TR530 Camera Integration used with Kaltura Streaming Service

February 2020

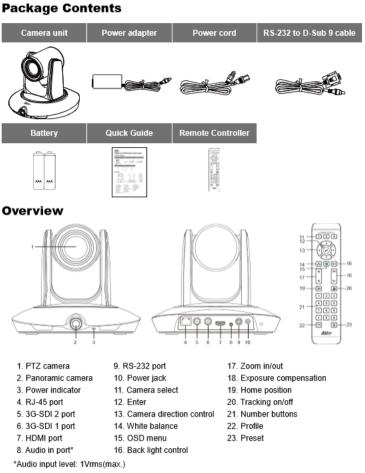
Steps to integrate the Aver TR Cameras into the Kaltura Streaming Service

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

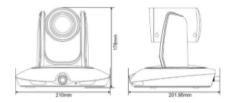
• AVer TR530 Camera and accessories.

TR530/320 Tracking Camera Quick Start Guide



P/N: 300AU9P1-ECV

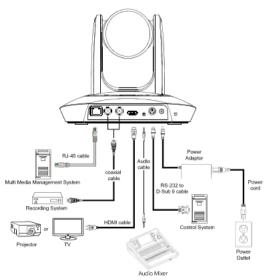
Dimension



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.
- 1. There are a couple of different ways to interact with Kaltura with the AVer 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)	\sim
Name	*	Rm Aver Test TR530	
Description		TR530 Camera	
Live Transcoding Profiles		Passthrough	\sim
Live DVR		Off	
		Seeking to previous parts of the live stream. The DVR window is 2 hours by default.	
Recording		On On	
		Append recorded content to a single entry	\sim
Preview Mode		Off	

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

		Suc	cess		
L	ive Stream E Do you	intry has b u want to v			
		Yes	N	o	

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	D	ھ چ	ર ઉ
	ENTRIES MODERATION PLAYLISTS SYNDICATION CATEGORIES				UPLOAD CONT	ROL BULI	(UPLOAD	DROP FO	LDERS
	43 Entries	Q. Search Er	ntries	L _D F	iter Categories	· 7	Refine	× .	0
	Thumbnail Name	ID	Туре	Created On 🗸	Duration	Plays	Status		
	Rm Aver Test TR530	1_r9rk6izs	e [®]	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 SYN	IDICATION CATEGORIES		UPLOAD CONTROL BULK	UPLOAD DROP FOLDERS
\leftarrow	Rm Aver Test TR530			✓ View Analytics	Save \leftarrow \rightarrow
	ID: 1_r9rk6izs v ^a Creation Date: 02/14/2020	0 Last Update: 02/14/2020 O	wner: rich.moscoso@aver.com Moderation: Auto Approved Plays: 0		$\wedge \mathbf{v}$
	Currently not broadcasting	Metadata			Jump to 🗸
	video will play once broadcasting starts	Name	Rm Aver Test TR530		
	broadcasting starts	Description	TR530 Camera		
	📽 Share & Embed 🛛 🖺 Editor				
	Metadata	Tags			
	Thumbnails	Categories			
	Access Control		Browse Categories		
	Scheduling	Offline Message			
	Live Stream				
	Related Files				
	Clips	Reference ID			
	Users	Terms Of Use			
		sharedRepository Add			

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

CONTENT STUDIO ANALYTICS		CREATE D
ENTRIES MODERATION	PLAYLISTS SYNDICATION CATEGO	NIES UPLOAD CONTROL BULK UPLOAD
← Rm Aver Test TR5	30	View Analytics Save
ID: 1_r9rk6izs 💩 Creatio	on Date: 02/14/2020 Last Update: 02/14/	/2020 Owner: rich.moscoso@aver.com Moderation: Auto Approved Plays: 0
Currently n broadcastir	ng	
video will play broadcasting s	tarts Broadcasting URI	Ls
	Primary URL:	rtmp://1G
🗞 Share & Embed	Editor Backup URL:	rtmp://1.
Metadata		Re-Generate Stream Token
Thumbnails	Stream name:	1 1 %
Access Control		Export XML for FMLE Live Content Detailed Report
Scheduling		
Live Stream	RTSP Broadcastir	ng URLs
Live Stream	Primary URL:	rtsp G
Related Files	Backup URL:	rtsp://1
Clips		
Users	Live Stream Conf	iguration
	DVR Status:	Off
	Recording:	On

- 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

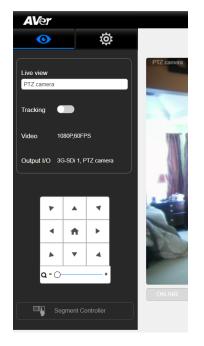
10. Connect the TR530/320 camera via Network connection; verify IP address of Camera in order to connect via browser. Select the "Menu" icon on the remote and navigate to the "Camera->DHCP->" setting, verify it is set to DHCP "On" in order to grab an available IP address. If you are reserving IP addresses,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



14. Next, select the settings gearbox



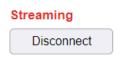
now see the following dialog box.

•	Network		
PTZ camera	DHCP enable	Netmask	
Video & Audio setting			
몲 Network setting	1		
Tracking setting	Gateway	DNS	
්) Preset setting	192	192	Apply
C Advanced setting	RTMP Server (PTZ)		
Profile setting	Server URL	Stream Key	
-V ^L System setting	(max 1)		Connect
Factory default	RTSP (PTZ camera: rtsp://Camera IP 554/live	e_st1; Panoramic camera: rtsp://Camera IP:8554/live_st2)	
	Password Confirmation		

- 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".

eam Key	
********	Connect
re	ream Key

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".



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.

Streaming	
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.