

AVer TR530, PTZ310/330, and TR3xx/TR3xxV2 Cameras

Streaming with Vimeo

(February 2022)

Steps to integrate the Aver TR and PTZ Cameras with Vimeo

AVer Pro-AV has high quality image Cameras (TR530/320, PTZ310/330, TR3xx/TR3xxV2) that will integrate with Vimeo workflows for peak performance and ease of use. We will show the configuration process for these camera lines and Vimeo streaming service. There are some pre-requisites for this to happen, see below.

- Chrome Browser, version 79.0.3945.xxx and later.
- Vimeo account.
- Windows 10 Pro OS used in this setup.

PTZ310/330 Camera

• AVer PTZ330/N Camera and accessories.



PTZ310/330 Camera RTMP Streaming to Vimeo Camera Settings

 Connect the PTZ310/330 camera via the Network RJ45 connection; verify IP address of Camera to connect via Web browser. Locate the remote, select the "Menu" icon on the remote and navigate to the "Network->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 "OFF" and that the correct IP address has been set.

Camera				
Video Output				
Network	DHCP	On	Off	
Advanced Setting	Static IP		On	
System				

Go to **Camera > DHCP > DHCP >On**.

After turning DHCP on, go to <i>Information</i> to view the IP address.

Camera Video Output Network Advanced Setting				
System	Camera Selector Status OSD Language	2 On English		
	Information		Model Name	PTZ310
	Factory Default		Version	0.0.0000.32
			IP Address	192.168.0.100
			MAC	50:33:8b:9a:94:38

2. Once you have the IP address setup, type the IP address in your Chrome browser (Setup on same subnet) and you should now see the login to the PTZ330 camera shown below.

Sign in			
http://192.10 Your connec	68.0.106 tion to this site is not private		
Username	[
Password			
		Sign in	Cancel

The default Username/Password is "administrator" or "admin / admin".
 *Note: If this is the first time accessing the PTZ330 camera via the Web login it will ask you to change the Username/Password.

PTZ310/330 Camera RTMP Streaming to Vimeo (continued)

4. Next, you should now see the main login screen with a "Live View" of the PTZ Camera.



Next, after selecting the Video & Audio setting, verify that you have either "Stream Only" selected or "USB + Streaming" selected, depending on your setup. Select your Stream Video Output standard, Bitrate, Framerate, Encoding, etc. *Note: Some servers require minimum bitrate of 2.5Mbps for their environment.

AV er	Video Mode	· · ·	
Live View	Stream Only USB Only	USB + Streaming NDI	
Camera Settings	Stream Video Output	Bitrate	Encoding Type
Video & Audio	1920x1080	16Mbps 512Kbps 1Mbps	H 264 MUPEG
Retwork	30 •	2Mbps 4Mbps 8Mbps	VBR CBR
Advanced Settings	Audio Input Type	16Mbps 32Mbps Audio Volume 5	
-v System	Line In MIC In	0 10	
	Encoding Type	Sampling Rate	
	● ● AAC G.711	48K T	

*Note: Once streaming has started do not change the Stream Video Output on the fly, you will need to "STOP" streaming, change the Stream Video Output, then "Start" the stream again.



PTZ310/330 Camera RTMP Streaming to Vimeo (continued)

6. Next, select the *Network* setting; this is where you will enter the RTMP *Server URL* and *Stream Key*. *RTSP Security* to either "On" or "Off" depending if you want encryption when using *RTSP*.

AVer	DHCP
O Live View	On Off IP Netmask
Camera Settings	192.168.0.107 255.255.255.0
Video & Audio	Gateway DNS
器 Network	192.168.0.1 192.168.0.1 Confirm
Advanced Settings	RTMP Settings RTSP Security
System	Server URL On Off
	Stream Key
	Start Stream STOP

- 7. Next, go to your Vimeo account and login to obtain the *Server URL* and *Stream name/key*. Once obtained, you will copy that information and paste it into the PTZ Camera *Server URL* and *Stream Key* fields.
- 8. Next, select *Live Events;* there you will have different options for "Destinations", Vimeo, Facebook, YouTube, LinkedIn, and an option to "Add" an RTMP.



9. There are 2 tabs available, one for *WebCam* and another for *Connect (RTMP)*, select Connect (RTMP).

estinations	Webcam	Connect (RTMP)				
Vimeo Share View						
Facebook Connect		Connect to your encoding software Paste the URL and stream key into your software's settings and				
YouTube Connect	Mannen et	begin streaming. RTMP URL				
Linkedin		rtmp://rtmp-global.cloud.vimeo.com/live				
KTMP Add	Stream with Studio Up your game with Studio, our live production switcher software — free when you upgrade to Vimeo Premium.	Stream key Add backup stream gradott				
	Premium. ↓ Try for free	Preview stream before going live				

- 10. Next, copy *RTMP URL* and *Stream key* information, either by using the Clipboard selection or highlighting and using the keyboard "ctrl-c".
- Next, go back to the PTZ WebLogin and select *Start Stream*; this will begin the stream to
 Vimeo. You should see a Streaming icon appear to indicate the stream process has started.



12. To verify, go to your Vimeo account and verify the video feed stream from the PTZ330





13. To end the streaming feed from the PTZ camera, go to the WebLogin and select "STOP".

14. To verify on Vimeo, go back to your Vimeo account, it should now be displaying a "Black" screen.

imeo Events	> My live demo		Uni	nown Event set
Destinations Dest	inations		① To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream	
	Vimeo Share	View	LOW-RES PREVIEW	RTMP
Polls EA	Facebook	Connect		
	YouTube	Connect		
Stream health in	LinkedIn	Connect		
÷	RTMP	Add		

15. This concludes the AVer PTZ310/330 Camera Streaming within the Vimeo environment.

TR320/530 (Tracking) Camera RTMP STREAMING to Vimeo

1. Connect the TR320/530 camera via the Network RJ45 connection; verify IP address of Camera to connect via Web browser.

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)
 TR530: 4~15m (13~49 feet)



 Connect the TR530 camera via the RJ45 Network Cat5E (or better) cable; verify IP address of Camera to connect via Web browser. If IP address is not known, locate the remote, select the "Menu" icon and navigate to the "Camera->DHCP->" setting, verify DHCP is set to "On" in order to grab an available IP address. If you are reserving IP addresses, verify it is set to "OFF" and that the correct IP address has been set.

Go to Camera > DHCP > DHCP > On.



After turning DHCP on, go to **Information** to view the IP address.

Tracking	Off	
Camera	>	
Video Format	>	
Advanced Setting	>	
Preset	>	
Language	>	
Profile	>	
Factory Default	>	
Information	> Firmw	0.0.1000.38
Display	> IP Add	10.100.93.34
	MAC	

TR320/530 (Tracking) Camera RTMP STREAMING to Vimeo (continued)

- Another way to find the Camera IP address (On same Subnet) is to use the AVer IPCam Utility to find the camera. AVer software can be found here: <u>https://www.aver.com/download-center</u>.
- 3. Next, type the IP address in your Chrome browser (Setup on same subnet) and you should now see a login to the TR320/530 camera shown below.



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



6. Next, select the settings gearbox **even**, then select *Video & Audio setting*, this is

where you can select Video Output, Audio, and the type of Streaming mode to use and Streaming video standard.

A	Ver	
	•	Video Output Audio Input
PTZ	PTZ camera >	3G-SDI 1/ HDMI:PTZ Camera 1080P/60 Audio line in format 3G-SDI 2 Panoramic - 1080P/60 9711 AAC
날 》 몲	Video & Audio setting Network setting	IP Streaming Mode
	Tracking setting	Mode 1 Mode 2
	Preset setting	Mode 1
P _o	Advanced setting	PTZ Panoramic Select PTZ or Panoramic for streaming
₽ ~~	Profile setting System setting	PTZ camera
ø	Factory default	Resolution/fps Team-ou team-ou read-ou 4eam-ou 4eam-ou bps (Bits per second) 6M 4M 2M
		Save Cancel

Mode 1: You will use either the PTZ Camera OR Panoramic Camera view for your stream with varying video selections.

Mode 2: There will be 2 simultaneous streams from PTZ and Panoramic views set to (1080p/30) with adjustable **bps** (bits per second) if selected.

P Streaming Mode						
Mode 1						
Mode 2						
PTZ camera						
Resolution	1080P/30					
bps (Bits per second)	6.0M	3.0M	1.5M			
Panoramic camera						
Resolution/fps	1080P/30					
bps (Bits per second)	6.0M	3.0M	1.5M			

7. Next, select *Network Setting*. You should now see the following information displayed.

A	Ver			
	•	Network		
P17	PTZ carnera >	DHCP enable	Netmask	
BR ()	Video & Audio setting	10.	255 . 255 . 255 . 0	
윪	Network setting	Gateway	DNS	
٢	Tracking setting	Galeway	UNS	
ø	Preset setting	10		Apply
Po	Advanced setting	RTMP Server (PTZ)		
1	Profile setting	Server URL	Stream Key	
	System setting	rtmp://a.rtmp		Connect
0	Factory default	RTSP (PTZ camera: rtsp://Camera IP.554/live_st Password Confirmation	1; Panoramic camera: rtsp://Camera IP:8554/live_st2)	

*Note: It is a good idea to verify the Gateway of your network, this is how the camera stream will access the *WWW*.

- 8. Next, notice the *RTMP Server URL* selection, this is where you will "paste" the URL string from Vimeo as well as the *Stream Key* from Vimeo.
- Next, go to your Vimeo account and login, select *Live Events;* there you will have different options for "Destinations", Vimeo, Facebook, YouTube, LinkedIn, and an option to "Add" an RTMP.



TR320/530 (Tracking) Camera RTMP STREAMING to Vimeo (continued)

10. There are 2 tabs available, one for *WebCam* and another for *Connect (RTMP)*, select Connect (RTMP).

vents > My live demo		Ready to stream Event setup Ge Liv
Destinations	Webcam	Connect (RTMP)
Vimeo Share View		
Facebook Connect		Connect to your encoding software Paste the URL and stream key into your software's settings and
YouTube Connect	2AAAAAAAA	begin streaming. RTMP URL rtmp://tmp-global cloud vimeo com/live
KTMP Add	Stream with Studio Up your game with Studio, our live production switcher software — free when you upgrade to Vimeo	Stream key Add backup stream reases
	Premium.	Preview stream before going live ①

- 11. Next, copy *RTMP URL* and *Stream key* information, either by using the Clipboard selection or highlighting and using the keyboard "ctrl-c".
- 12. Next, go to the TR Camera WebLogin, *Network Setting*, and paste the Server URL and Stream Key information into the fields provided.

RTMP Server (PTZ)		
Server URL	Stream Key	
rtmp://a.rtmp.		Connect

 Next, to begin the Stream from the TR Camera, select *Connect*, you should see a red "Streaming" text appear, to indicate you are now streaming. This is where you would also "Disconnect" from the stream.

Streaming	
Disconn	ect

14. To verify, go to your Vimeo Live Dashboard and verify the video feed from the TR320/530 camera.



15. To end the streaming feed from the TR camera, go to the WebLogin and select "Disconnect".

TR320/530 (Tracking) Camera RTMP STREAMING to Vimeo (continued)

16. To verify on Vimeo, go back to your Vimeo account, it should now be displaying a "Black"

reen.				
vimeo	Events > My live demo		Unknown	Event setup
+ Destinations	Destinations		O To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.	
🖓 Chat	Vimeo Si	hare View	LOW-RES PREVIEW	RTMP setti
Illi Polls Q&A	Facebook	Connect		
Graphics	YouTube	Connect		
ዠ Stream health	in LinkedIn	Connect		
	KTMP	Add		

17. This concludes the AVer TR320/530 Camera integration within the Vimeo environment.

TR3xx/TR3xxV2 AI Tracking Camera

AVer has NEW TR AI Tracking cameras available, from the original TR311, TR311HN, TR313, to the NEWER TR313V2 cameras. These cameras use advanced artificial intelligence (AI) technology to effectively track your speaker or Zone track without a dedicated camera operator. All the cameras have the same Tracking Modes and can be setup to stream via RTMP the same way. We will compress the camera models in this document to be TR3xx/TR3xxV2, the process is the same for all the new camera models.

AVer TR3xx Camera and accessories











A/TECHNOLOG WINNER

Package Contents



Screw(x3)

Screw(x3)

TR3xx/TR3xxV2 Camera RTMP Streaming to Vimeo Camera Settings

 Connect the TR3xx/TR3xxV2 camera via an RJ45 Network Cat5E (or better) connection; verify IP address of Camera to connect via Web browser. If IP address is not known, locate the remote, select the "Menu" icon on the remote and navigate to the "Network->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 "OFF" and that the correct IP address has been set.

Camera			
Video Output			
Network	DHCP	On	Off
Advanced Setting	Static IP		On
System			

After turning DHCP on, go to **System > Information** to view the IP address.

Camera	Camera Selector	3	Model N	ame TR31
Advanced Setting	Status OSD	ON	Firmware	Version 0.0.0005.4
Video Output	Language	English	IP	192.168.1.223
Network	NDI	OFF	MAC	00:18:1A:06:38:04
	CameraiD Aver,		lens	AA3
	Tally	Enable	mcut	4A0C858
	Information		1	
	Factory Default	QFF		
		1000		181

 Once you have the IP address setup, type the IP address in your Chrome browser (Setup on same subnet) and you should now see the login to the TR3xx/TR3xxV2 camera shown below.

Sign in			
http://192.16 Your connect	e.		
Vour connection to this site is not private Username Pessword			
Password			
		Sign in	Cancel

The default Username/Password is "administrator" or "admin / admin".
 *Note: If this is the first time accessing the TR3xx/TR3xxV2 camera via the Web login, it will ask you to change the Username/Password. Please write down the new credentials.

4. Next, you should now see the main login screen with a "Live View" of the PTZ Camera.



 Next, after selecting the Video & Audio setting, verify that you have either "Stream Only" selected or "USB + Streaming" selected, depending on your setup. Select your Stream Video Output standard, Bitrate, Framerate, Encoding, etc.

***NDI Mode:** If NDI is selected, the USB output is disabled, this is by design.

AVer	Priority Mode	0		
Live View	2160p	1080p		
Camera Settings	Power Frequency	• •		
Video & Audio		94Hz 60Hz		
品 Network	Video Mode			
• Tracking Settings	USB + Streaming Stream Only USB Only	~		
-v- System	USB + Streaming NDI	Bitrate		Encodin
	1920x1080	✓ 4Mb	ps	~
	Framerate	I-VOP	Interval (S)	1s Rate Co
AV er	• • 2160p 1080p			
Live View	Power Frequency			
Camera Settings	50Hz 59.94Hz 60Hz			
Video & Audio	Video Mode			
몲 Network	USB + Streaming V	1		
Tracking Settings	Stream Video Output	Bitrate	Encoding Type	
_v∕- System	1920x1080 ~	4Mbps 512Kbps	✓ ○ H.264	H.265
	Framerate 60 ~	1Mbps 2Mbps 4Mbps	Rate Control	•
		8Mbps 16Mbps 32Mbps	VBR	CBR
	Audio Input Type	, Auto	10	
	Line In MIC In Encoding Type	0 Sampling Rate		
	AAC	48K	~	

***Note:** Some RTMP servers require a minimum bitrate of 2.5Mbps for their environment.

6. Next, select the *Network* setting; this is where you will enter the RTMP *Server URL* and *Stream Key*. *RTSP Security* to either "On" or "Off" depending if you want encryption when using *RTSP*.

*Note: Once streaming has started do not change the Stream Video Output on the fly, you will need to "STOP" streaming, change the Stream Video Output, then "Start" the stream again.

AV er	DHCP O		
O Live View	On Off IP	Netmask	
Camera Settings	192.168.0.223	255.255.255.0	
Video & Audio	Gateway	DNS	
品 Network	192.168.0.1	192.168.0.1	Confirm
• Tracking Settings	RTMP Settings	RTSP Security	
-vv- System	Server URL rtmp://a.rtmp.youtube.com/live2/	On Off	
	Stream Key Cyyg-I Start Stream STOP		
	SRT Settings		
	Destination IP Port	Encryption	

- Next, go to your Vimeo account and login to obtain the Server URL and Stream name/key. Once obtained, you will copy that information and paste it into the TR Camera Server URL and Stream Key fields.
- 8. Next, select *Live Events;* there you will have different options for "Destinations", Vimeo, Facebook, YouTube, LinkedIn, and an option to "Add" an RTMP.

vimeo	Manage vid	leos 🗸	Watch 🗸	Solutions 🗸	Upgrade
+ New vide	0	L	ive ev	vents	
Home					
Videos	•				
Create	•				
Live events					
Showcases	•				
Vimeo Pro					

9. There are (2) tabs available, one for *WebCam* and another for *Connect (RTMP)*, select Connect (RTMP).



10. Next, copy *RTMP URL* and *Stream key* information, either by using the Clipboard selection or highlighting and using the keyboard "ctrl-c".



Next, go back to the TR WebLogin and select *Start Stream*; this will begin the stream to
 Vimeo. You should see a Streaming icon appear to indicate the stream process has started.



12. To verify, go to your Vimeo account and verify the video feed stream from the TR3xx/TR3xxV2 camera.



13. To end the streaming feed from the TR camera, go to the WebLogin and select "STOP".

14. To verify on Vimeo, go back to your Vimeo account, it should now be displaying a "Black" screen.

vimeo	Events > My live demo		Unknown	Event setup	Go
← Destinations	Destinations		① To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.		×
Chat II Polis 2] Q&A ☑ Graphics	Vimeo Share Facebook YouTube	View Connect Connect	LOW-RES PREMEW	RTMP settin	igs
🖌 Stream health	in Linkedin	Connect			
					\$×

15. This concludes the AVer TR3xx/TR3xxV2 Camera Streaming within the Vimeo environment.

Check the AVer Pro-AV Website for additional support documentation.

https://www.averusa.com/pro-av/support/