

AVer TR320/530, PTZ310/330, and TR310/333 Cameras

Streaming with Vimeo (October 2020)

Steps to integrate the Aver TR and PTZ Cameras with Vimeo

AVer Pro-AV has high quality image Cameras (TR320/530, PTZ310/330, TR310/333) that will integrate with Vimeo workflows for peak performance and ease of use. We will show the configuration process for both the TR and PTZ 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 Network RJ45 connection; verify IP address of Camera in order 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.

Go to Camera > DHCP > DHCP >On.

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

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

Camera					
Video Output					
Network					
Advanced Setting					
System	Camera Selector				
	Status OSD	On			
	Language	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://192.16 Your connec	58.0.106 tion to this site is not private		
Username			
Password			
		Sign in	Cancel

3. 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 a minimum bitrate of 2.5Mbps for their environment.

AV er	Video Mode	• •	
O Live View	Stream Only USB Only	USB + Streaming NDI	
Camera Settings	Stream Video Output	Bitrate	Encoding Type
Video & Audio	1920x1080 Framerate	16Mbps 512Kbps 1Mbps	H 264 MUPEG
Handreich Network	30	AMbps BMbps	O ● 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 6.711	48K v	

*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
	On Off
C Live View	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
-v- 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
VouTube Connect	110 mm	begin streaming RTMP URL rtttp://itting.global.cloud.vimeo.com/live
RTMP Add	Stream with Studio Up your game with Studio, our live products owitcher software — free when you upgrade to Vimeo Premium.	Stream key + Add backup stream recover
	\pm 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.

vimeo	Events > My live demo		Unknown	Event setup
Cestinations	Destinations		① To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.	
Chat	Vimeo	Share View	LOW-RES PREVIEW	RTMP setti
Polis	Facebook	Connect		
Graphics	YouTube	Connect		
Stream health	in LinkedIn	Connect		
		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 Network RJ45 connection; verify IP address of Camera in order 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 RJ45 Network Cat5E (or better) cable; verify IP address of Camera in order 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.

Tracking	Off			
Camera	>	Camera ID		
Video Format		DHCP	> DHCP 10.100.93.34 On	On
Advanced Setting		Static IP		Off
Preset		PTZ Camera		
Language				
Profile				
Factory Default				
Information				
Display				

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	> Firmware Version	0.0.1000.38
Display	> IP Address	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	
	O	Video Output Audio Input
PTZ	PTZ camera 3	3G-SDI 1/ HDMI:PTZ Camera 1080P/60
	Video & Audio setting	
몲	Network setting	IP Streaming Mode
	Tracking setting	Mode 1 Mode 2
	Preset setting	Mode 1
P _o	Advanced setting	PTZ Panoramic
1	Profile setting	Select PTZ or Panoramic for streaming
	System setting	PTZ camera PTZ camera 1080P/50 1080P/50 720P/30 480P/30
Ø	Factory default	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.

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

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

AVer				
0	ø	Network		
PTZ PTZ camera	*	DHCP enable	Netmask	
Video & Audio set	ting	[10].[[255 , 255 , 255 , 0	
器 Network setting	1	Cataway	DNR	
Tracking setting		Galeway	UNS	
Preset setting		10		Apply
Ro Advanced setting		RTMP Server (PTZ)		
n Profile setting		Server URL	Stream Key	
-v- System setting		rtmp://a.rtmp		Connect
Factory default		RTSP (PTZ camera: rtsp.//Camera IP.5/ Password Confirmation	54/live_st1; 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).

ents > My live demo		Ready to stream Event setup Color
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 Linkedin Connect		begin streaming. RTMP URL rtmp.//rtmp.global cloud vimeo com/live
E RTMP Add	Stream with Studio Up your game with Studio, our live production switcher software — free with the your uproved to Mimoo	Stream key Add backup stream trackon
	Premium.	Preview stream before going live

- 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.

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.

Disconnect

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".

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

SC	reen.			
	vimeo	Events > My live demo	Unknown	Event setup Go Live
	+ Destinations	Destinations	To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.	×
	C Chat III, Polis ② Q&A S Graphics ☆ Stream health	Vineo Share View	LOW-RES PREVIEW	RTMP-settings
				¢×

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

TR310/333 AI Tracking Camera

AVer has (5) NEW TR AI Tracking cameras available, they are the TR310, TR311HN, TR311, TR313, and TR333. 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.



AVer TR310/330 Camera and accessories



TR310/333 Camera RTMP Streaming to Vimeo Camera Settings

 Connect the TR310/333 camera via RJ45 Network Cat5E (or better) connection; verify IP address of Camera in order 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.

Go to Network > DHCP > On.

Came	ra			
Video Outp	ut			
Netwo	rk DHCP	On	Off	
Advanced Setti	ng Static IP		On	
Syste	m			

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

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

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 TR310/333 camera shown below.

Sign in				
http://192.16 Your connecti	8.0.106 ion to this site is not private	ł		
Username	1			
Password				
			Sign in	Cancel

3. The default Username/password is "administrator" or "admin / admin". ***Note:** If this is the first time accessing the TR310/333 camera via the Web login it will ask you to change the Username/Password.

TR310/333 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.

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

AVer	Priority Mode	•		
Live View	2160p	1080p		
Camera Settings	Power Frequency			
Video & Audio	50Hz 59.94	4Hz 60Hz		
品 Network	Video Mode			
• Tracking Settings	USB + Streaming Stream Only USB Only	~		
-v/- System	USB + Streaming NDI		Bitrate	Encodi
	1920x1080	~	4Mbps	~
	Framerate		I-VOP Interval (S)	1s Rate C
AVer	2160p 1080p			
Live View	Power Frequency			
Camera Settings	50Hz 59.94Hz 60Hz			
Video & Audio	Video Mode			
格 Network	USB + Streaming 🗸			
• Tracking Settings	Stream Video Output	Bitrate	Encoding Type	
-v∕- System	1920x1080 ~	4Mbps 512Kbps	✓ ● H.264	О Н.265
	Framerate 60 V	1Mbps 2Mbps 4Mbps 8Mbps 16Mbps	Rate Control	O CBR
	Audio Input Type Lino In MIC In	32Mbps , Auto	10	
	Encoding Type	Sampling Rate	~	

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

TR310/330 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*.

***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.

AVer	DHCP		
O Live View	On Off	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	
-√- System	Server URL rtmp://a.rtmp.youtube.com/live2/	On Off	
	Stream Key Cyyq-		
	Start Stream STOP		
	SRT Settings		
	Destination IP Port	Encryption	

- 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 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 🛛	anage vid	eos ∽ Watch ∽	Solutions 🗸	Upgrade
+ New video		Live ev	vents	
Home				
Videos	۲			
Create	۲			
Live events				
Showcases	۲			
Vimeo Pro				

TR310/333 Camera RTMP Streaming to Vimeo (continued)

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.

RTMP Settings		RTSP Security	
Server URL	((0))	0	0
rtmps://	imp/	UII	UII
Stream Key			
10157	15		
Start Stream	STOP		

12. To verify, go to your Vimeo account and verify the video feed stream from the TR310/333





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		To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.		×
Chat	Vimeo	Share View	LOW-RES PREVIEW	RTMP setti	ngs
Illi Polis	f Facebook	Connect			
Graphics	YouTube	Connect			
ዠ Stream health	in LinkedIn	Connect			
	K RTMP	Add			
					¢×

15. This concludes the AVer TR310/333 Camera Streaming within the Vimeo environment.

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

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