

AVer TR320/530 and PTZ310/330 Cameras Streaming with Vimeo

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Steps to integrate the Aver TR and PTZ Cameras into Vimeo

AVer Pro-AV has high quality image Cameras (TR320/530 and PTZ310/330) 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.

PTZ310/330 Camera

• AVer PTZ330/N Camera and accessories.



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

RTMP Streaming from PTZ310/330 Camera to Vimeo

Go to Camera > DHCP > DHCP > On.

 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.

Tracking	Off				
Camera	>	Camera ID			
Video Format	>	DHCP	DHCP 10.100.93.34	On	On
Advanced Setting	>				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	00:18:1A:00:54:87

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 connect	8.0.106 ion to this site is not private		
Username	1		
Password			
		Sign in	Cancel

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

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.

	Video Mode O Stream Only USB Only	USB + Streaming NDI	
Camera Settings	Stream Video Output	Bitrate	Encoding Type
Video & Audio	1920x1080	16Mbps ▼ 512Kbps 1Mbps	H 264 MUPEG
器 Network		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		

*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.

RTMP Settings	
Server URL	
Stream Key	
Start Stream	STOP

2. 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*.

AV er	DHCP		
Live View	On Off		
_	IP	Netmask	
Camera Settings	192.168.0.107	255.255.255.0	
Video & Audio	Gateway	DNS	
格 Network	192.168.0.1	192.168.0.1	Confirm
Advanced Settings	RTMP Settings	RTSP Security	
v System	Server URL	On Off	
-vv- System	Server URL Stream Key		
System			

- 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.
- 4. 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 videos	✓ Watch ✓	Solutions 🗸	Upgrade
+ New video		Live ev	vents	
Home				
Videos	\odot			
Create	\odot			
Live events				
Showcases	\odot			
Vimeo Pro				

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

estinations		Webcam	Connect (RTMP)
Vimeo :	Share View		
f Facebook	Connect		Connect to your encoding software
YouTube	Connect		Paste the URL and stream key into your software's settings and begin streaming.
		ALL ALL YOU WANTED	RTMP URL
n LinkedIn	Connect		rtmp://rtmp-global.cloud.vimeo.com/live
RTMP	Add	Stream with Studio	Stream key
		Up your game with Studio, our live	÷
		production switcher software — free when you upgrade to Vimeo	+ Add backup stream UPGIADE
		Premium.	Preview stream before going live (i)

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

7. 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.



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



- 9. To end the streaming feed from the PTZ camera, go to the WebLogin and select "STOP".
- 10. To verify on Vimeo, go back to your Vimeo account, it should now be displaying a "Black" screen.

Destinations	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	To include datample, and a completation new or you even. You deterior will see up ingregating around.	
Polls	Facebook	Connect	LOTING FRENCH	RTMP
Q&A Graphics	YouTube	Connect		
Stream health	in LinkedIn	Connect		
	RTMP	Add		

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

RTMP STREAMING from TR320/530 (Tracking) Camera 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. Places raise the camera to at least 6.56 feet
- 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	
Advanced Setting	>	Static IP		
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	0.0.1000.3
Display	> IP Address	10.100.93.3
	MAC	00:18:1A:00:54:8

- 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

, 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.

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A	Ver	
	O	Video Output Audio Input
PTZ	PTZ camera Video & Audio setting	3G-SDI 1/ HDMI:PTZ Camera 1080P/60 Image: Comparison of the
몲	Network setting	IP Streaming Mode
۰ ک	Tracking setting Preset setting	Mode 1 Mode 2 Mode 1
¢	Advanced setting	PTZ Panoramic
1	Profile setting	Select PTZ or Panoramic for streaming PTZ camera
-~-	System setting	Resolution/fps 1080P/60 1080P/30 720P/30 480P/30
ø	Factory default	bps (Bits per second) 6M 4M 21/
		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.

	Мо	de 1	
Mode 2			
PTZ camera			
Resolution	1080P/30		
bps (Bits per second)	6.0M	3.0M	1.5M
Panoramic camera			
	1080P/30		
Resolution/fps	6.0M	3.0M	1.5M
bps (Bits per second)	0.011	0.0m	1.011

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

4	Ver				
	•	@	Network		
PTZ	PTZ camera	>	DHCP enable	Netmask	
	Video & Audio	setting	10	255 . 255 . 255 . 0	
섊	Network setting	J.	1	1 1 1 1	
۲	Tracking setting	g	Gateway	DNS	
ø	Preset setting			10	Apply
¢	Advanced setti	ng	RTMP Server (PTZ)		
1	Profile setting		Server URL	Stream Key	
	System setting		rtmp://a.rtmp		Connect
0	Factory default	3	RTSP (PTZ camera: rtsp:///Camera IP-554/live_str Password Confirmation	; 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.
- 9. 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.

vimeo 🛛	lanage vid	eos 🗸 🛛 Watch 🗸	Solutions 🗸	Upgrade
+ New video		Live ev	vents	
Home				
Videos	\odot			
Create	€			
Live events				
Showcases	۲			
Vimeo Pro				

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

Events > My live demo		Ready to stream Event setup Go Live
Destinations	Webcam	Connect (RTMP)
Vimeo Share View Facebook Connect YouTube Connect In Linkedin Connect KTMP Add	<image/> <section-header><section-header><section-header><text></text></section-header></section-header></section-header>	Connect to your encoding software Aste the URL and stream key into your software's settings and begin streaming.

- 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

13. 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	
Disconnect	

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

Vimeo Share View	To increase bandwidth, this is a low-resolution view of your event. Your audience will see the high-quality stream.
Facebook Connect YouTube Connect LinkedIn Connect	RTMP 0
RTMP Add	
	CTEVE RAY

- 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" screen.

vimeo	Events > My live demo		Unknown	Event setup	Go Liv
Destinations	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	inge
III Polis	Facebook	Connect		R IMP Sold	1195
Q&A	YouTube	Connect			
Graphics	in LinkedIn	Connect			
	RTMP	Add			
	≺ RIMP	Auu			
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17. This concludes the AVer TR320/530 Camera integration within the Vimeo environment.