

# AVer PTZ 310/330 Camera Integration used with vMix

## March 2020

### Steps to integrate the Aver PTZ Cameras into the vMix Software

vMix offers different options for mixing video sources, live streaming, Video Delivery Solution, or Webcasting and Live Events.

**AVer** has high quality image Cameras (PTZ310 / PTZ330) that will integrate with these workflows for peak performance and ease of use. We will show the configuration process for the PTZ 330 Camera and the vMix Production Software. There are some pre-requisites for this to happen, see below.

• AVer PTX330/N Camera and accessories.



- Chrome Browser, version 79.0.3945.xxx and later.
- vMix 23 Software for Windows, currently version (23.0.0.39), approx. 350MB in size.

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- .Net Framework 3.5 installed for VMix Software.
- Windows 10 Pro OS used in this setup.

- 1. If vMix software is not installed, install and follow the prompts.
- 2. There are 3 main ways to integrate the AVer PTZ camera with vMix, they are:
  - USB Connection
  - NDI (PTZ330N and PTZ310N only)
  - (Streaming) Input and Output
- 3. **USB Connection**: Connect the AVer PTZ330/N Camera to a USB port on the PC using the USB to Micro-USB cable provided and verify that Windows does see the device in the "Device Manager" window.



4. Next, open the vMix software and select "Add Input" located on the lower left of display.



5. You should now see the following dialog box.



6. Next, select Camera, there will be a drop down menu for Camera selection, select the AVer PTZ330 camera.

In	put Select					×
	Video	Camera:	PTZ330	~ /	1	Use VMR
0	DVD	Input:	Sample Input HP HD Camera			
Þ		Resolution:	P12330			
	Camera	Frame Rate:				
$\Box$	NDI / Desktop Capture					
(1) A	Stream / SRT	Video Format:				
₽	Instant Replay	Audio Device.				
	Image Sequence / Stinger	Audio Format:				
Ü	Video Delay					
	Image					
	Photos					
亘	PowerPoint					
	Colour		Show legacy devices			
₽	Audio					
Ŧ	Audio Input					
Т	Title / XAML					
, հյլն	Flash					
1	Virtual Set					
	Web Browser					
(1	Video Call			Number 2	~ ок	Cancel

- 7. Select the Resolution and Frame rate as well as Video Format and Audio, then select "OK" once configured.
- 8. You will be brought back to the vMix Main page, you should now see video in the Input display.



9. Next, select the "Settings/Gear" icon next to Record; this will open the selections for the Recording Setup for both Audio and Video.

Recor	ъ	
PS: 30 Render Time	<b>::</b> 11 ms	
Recording Setup		×
1 2		Output 1 V
AVI	Filename:	C:\Users\v002712\Documents\vMixStorage\capture.mp4
WMV		Browse
WMV Streaming	Size:	1920x1080 ~
MP4	Frame Rate:	NTSC 29.97p ~
FFMPEG vMix AVI	Bit Rate: Profile:	8 Vibps H264Baseline Vibe Hardware Encoder
		Fault Tolerant
	Audio:	Master V
	Audio Delay:	0 Milliseconds
	Audio Bit Rate:	128 v Kbps
	New File Every:	None ~ Minutes
(い) WAV File Record		OK Cancel

- 10. Once the selections have been made, select "OK" to confirm.
- 11. When you are ready to Record, select the "Record" button and you should see the "Settings/Record/I" selection turn red, as well as the a red REC icon in the Preview Out.



12. Once you are ready to "Stop" recording, select the RECORD button, a pop-up will appear asking if you are ready to "Stop Recording".

vMix	$\times$
? Stop Reco	ording?
Yes	No

13. The recorded media can be found where you had selected the Filename earlier in the "Recording Setup", typically located in "C:\Users\Rich\Documents\vMixStorage\capture.xxx".

## Network Device Interface (NDI) / Desktop Connection:

NDI is a high performance standard that allows anyone to use real time, ultra-low latency video on existing IP video networks.

For this configuration the AVer camera will have later firmware installed and is designated as a PTZ330N or PTZ310N, the "N" designates that the camera has the ability to integrate with the NewTek NDI protocol. You can go to <u>https://www.ndi.tv/</u> to learn more about NDI or download the NDI Virtual Input application if needed.

 First step is to verify that your PTZ330N/310N camera is setup for NDI, use the WebLogin and go to the "Video & Audio" settings, verify that the "NDI" radio button has been selected for Video Mode.
 \*Note: The camera will need to re-boot when changing to/from NDI video mode.

AVer	Video Mode	_	_					
O Live View	Stream Only	USB Only	USB + Streaming	O NDI				
Camera Settings	Stream Video Output		Bitrate			Encoding Type		
Video & Audio	1920x1080 Framerate	T	8Mbps		<b>T</b>	H 264	MJPEG	
Retwork	60	Y			10	O VBR	CBR	
Advanced Settings	Audio Input Type	_	Audio Volume	_	_	_		_
-vv- System	Line In	O MIC In	0	•	5 10			
	Encoding Type		Sampling Rate	_				
	AAC	G.711	48K		٣			

2. Next, go to vMix and select "Add Input", located in the lower left of the display, it will open the "Input Select" window.

1 B	ank				2	Bi	anik						
Close	Quick Play	Cut			Clo	se	Qui	ck Pl	ay	Cut			
1 2	3 1	-	₽	٠		2	3	4			-	۰	
Ad	d Input	•	٠	Re	con	ł							\$
720pt	U EX FPS	: 60 R	ender	Time	: 1 n	ns (	GPU	Mem	<b>:</b> 0	% CP	U vMix:	0 9	6 Te

3. Next, select "NDI / Desktop Capture" setting, you should see a selection for AVER-PTZ330 and also the live video camera capture.



- Next, select the AVER-PTZ330 NDI device and "OK" at the bottom of the screen.
   \*Note: The Number field should be assigned/incremented automatically when this happens.
- 5. You should now have a new NDI AVER video Input assigned to vMix as a source.



## STREAMING

### **RTSP Input to the vMix system**

 Connect the PTZ330 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.

Camera     System     Camera Selector     2       Video Output     Internor Reduction     Off Model Name     P       Power Saving     Orf     Version     0.0       Internor Reduction     IP Address     192.11       Advanced Setting     Static IP     >       System     System     MAC     00:18:1a:00				Camera Video Output Network				
Camera Video Output Network DHCP On Advanced Setting Static IP > System				Advanced Setting	Camera Selector			
Camera       Language       English         Video Output       Power Saving       Off       Version       0.0         Network       DHCP       On       Information       >       P Address       192.10         Advanced Setting       Static IP       >       Advanced Setting       Static IP       >				P prom	Status OSD	On		
Video Output     Off     Model Name     Internet Reduction     Off     Model Name     Internet Reduction     0.0       Network     DHCP     On     Information     IP Address     192.10       Advanced Setting     Static IP     >       System	Camera				Language	English		
Video Output     Pews Baving     Off     Version     0.0       Network     DHCP     On     Information     IP Address     192.10       Advanced Setting     Static IP     >       System	o dillioi di				Latency Reduction		Model Name	PTZ330-B
Network         DHCP         On         IP Address         192.1           Advanced Setting         Static IP         >         >         Advanced Setting         >         MAC         00:18:1a:0	Video Output				Power Saving	Off	Version	0.0.0000.51
Network         DHCP         On         Factory Default         > MAC         00:18:1act           Advanced Setting         Static IP         >         >         >         >         >         >         >         >         >         >         >         >         >         >         >         >         00:18:1act         >         <					Information		IP Address	192.168.0.106
Advanced Setting Static IP > System	Network	HCP	On		Factory Default	>	MAC	00:18:1a:04:a4:30
System	Advanced Setting	tatic IP	>					
	System							
AVer	- Jordin			AVer				
							144	

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										
nttp://192.168.0.106 Your connection to this site is not private										
Username										
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.

<b>AV</b> er	
O Live View	
Camera Settings	
Video & Audio	
Network	
Advanced Settings	
🦡 System	
	Camera Control

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

AVer	Video Mode	•	
Live View	Stream Only USB Only	USB + Streaming NDI	
Camera Settings	Stream Video Output	Bitrate	Encoding Type
Video & Audio	1920x1080 Framerate	BMbps      I-VOP Interval (S)      1s	Rate Control
Retwork	30	▼ 1 ⊙ 10	o o VBR CBR
Advanced Settings	Audio Input Type	Audio Volume 5	
	● O Line In MIC In	0 10	
	Encoding Type	Sampling Rate	
	• • • • • • • • • • • • • • • • • • •	48K <b>V</b>	

6. Next, select the "*Network*" setting, set the "RTSP Security" to "Off". Once you are finished with Streaming, you can put the RTSP Security back to "On", ensuring there is nothing being broadcast.

<b>AV</b> er	DHCP		
	O Off		
O Live View	IP.	Netmask	
Camera Settings	192.168.0.106	255.255.255.0	
Video & Audio	Gateway	DNS	
品 Network	192.168.0.1	192.168.0.1	Confirm
Advanced Settings	RTMP Settings	RTSP Security	
-v~ System	Server URL	On Off	
	Stream Key		
	1_wkpffdtj_1		
	Start Stream STOP		

7. Next, go to vMix and select "Add Input", located in the lower left of the display, it will open the "Input Select" window.

1 Blank				2 B	lank			
Close Quick	k Play C	ut Loop		Close	Quick Play	Cut		
1 2 2	4 6.	io 🖵	٠	1 2			P	٠
Add Inpu	t -	٠	Re	cord				٠
/20p60 E	X FPS: 0	Render	lime:	1 ms	GPU Mem:	0 % CP	U vMix:	0% T

8. Next, select the "*Stream / SRT*" setting, where the URL setting is type in the following syntax for the PTZ330 RTSP feed,

"rtsp://Camera IP:554/live\_st1", where Camera IP is the actual IP address of the camera.

In	put Select						×
$\mathbf{\Sigma}$	Video	Stream Type	RTSP over UDP		~	]	
0	DVD	URL	rtsp://192.168.0.105:554/live_st1			]	
$\mathbf{\overline{\mathbf{b}}}$	List	Buffer	3	00 milliseconds	Low Latency Mode		
	Camera						
Ţ	NDI / Desktop Capture						
(A)	Stream / SRT						
R	Instant Replay						
R	Image Sequence / Stinger						
Û	Video Delay						
	Image						
R	Photos						
밒	PowerPoint						
	Colour						
Ţ	Audio						
1	Audio Input						
Т	Title / XAML						
կլլՈլ	Flash						
•	Virtual Set						Clear
	Web Browser						
	Video Call			N	Number	OK	Cancel

9. Next, select "OK", you should now be seeing camera video on your vMix display streaming from the PTZ330 camera.

1 RTSPUDP rtsp://192.168.0.105:554/	2 Colour Bars	
Close Quick Play Cut Loop	Close Quick Play Cut Loop	
1 2 3 4 Audio 🗖 🏞	1 2 3 4 Audio	
Add Input 🔺 🇱 Rec	cord	External
720n60 EX EPS: 60 Render Time:	1 ms GPILMem: 6 % CPILvMix: 2 %	Total: 9%

## Streaming RTMP Output

To connect to a streaming service like YouTube, Twitch, Facebook, etc., from vMix, do the following steps.

1. In vMix select the gear icon located next to "Stream"

Select "Add" at the top of the

window, give it a name, then select "OK".



- 2. Next, select the "Destination" you want to stream to, in this example we are using YouTube Live.
- Next, you will need your YouTube "Stream Key" in order to complete the process, go to your account and find the "Encoder Setup" information, copy the "Stream name/key" information. You may have to switch to "Classic view" to find it quicker.

ENCODER SETUP		
Server URL rtmp://a.rtmp.youtube.com/live2		
Stream name/key	Reveal	

4. Next, go to the vMix Stream Key selection and paste that information into the space provided.

Streaming Settings					-			
Profile	YouTube			~	Add	Delete		
	1 2 3	3						
Destination	Destination YouTube Live				~			
Stream Key	Stream Key							
				YO	u Tu	be		
					Sign Up			
Quality	H264 720p 2.5mbps AAC 128kbps			*				
Application	FFMPEG ~							
Start All	Start 1	View Status			Save and	Close		

5. Next, select "OK", then select "Stream" and it should change color, from grey to orange, then red.



6. You can select more streams like Facebook, StreamingChurch.tv, Twitch, etc. the process would be the same way.



7. To verify, go to your YouTube Live Dashboard and verify the video feed from vMix.



8. To end the streaming feed from vMix, select "Stream", another window will pop up, select "Yes" to stop streaming, the indicator will turn back to grey.



9. To verify on YouTube, go back to your YouTube Live Dashboard, it should now be displaying "OFFLINE".



10. This concludes the AVer PTZ310/330 Camera integration within the vMix Software.

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