

AVer TR320/530 and PTZ310/330 Cameras HDMI/USB

with Panopto (March 2020)

Steps to integrate the AVer TR and PTZ Cameras via HDMI / USB with Panopto

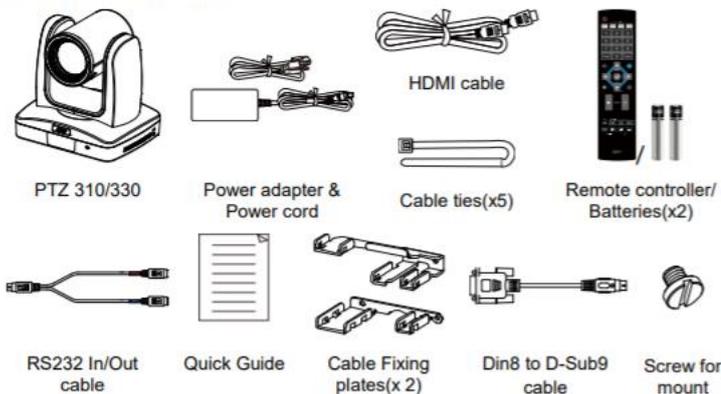
AVer Pro-AV has high quality image Cameras (TR320/530 and PTZ310/330) that will integrate with Panopto workflows for peak performance and ease of use. We will show the configuration process for both the TR and PTZ Camera lines and Panopto software.

Panopto has an easy to use online video platform solution for video management, recording, live streaming, video search, quizzing, analytics, and more.

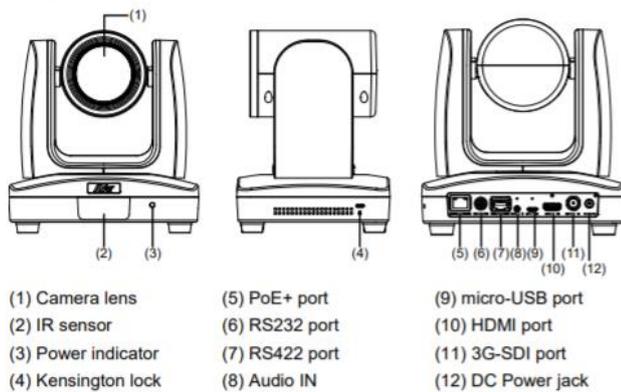
PTZ310/330 Camera

- AVer PTZ330/N Camera and accessories.

Package Contents



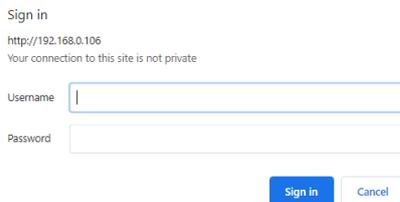
Overview



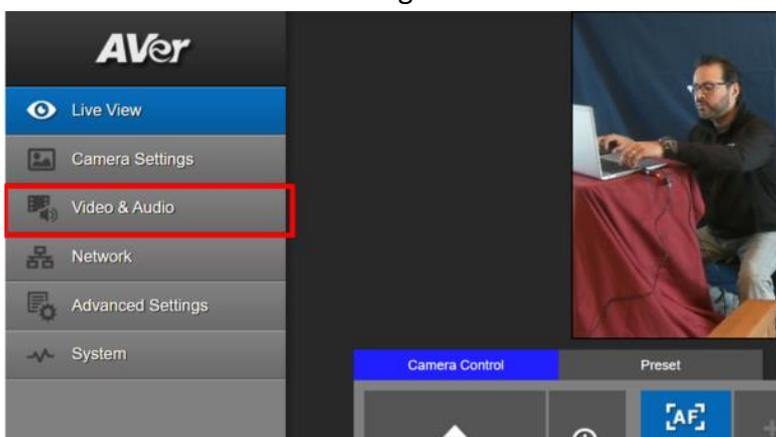
- Chrome Browser, version 79.0.3945.xxx and later.
- Panopto user account.
- Windows 10 Pro OS, i7 Processor, 16GB Memory, used in this setup.

PTZ Camera Video Output to the Panopto System

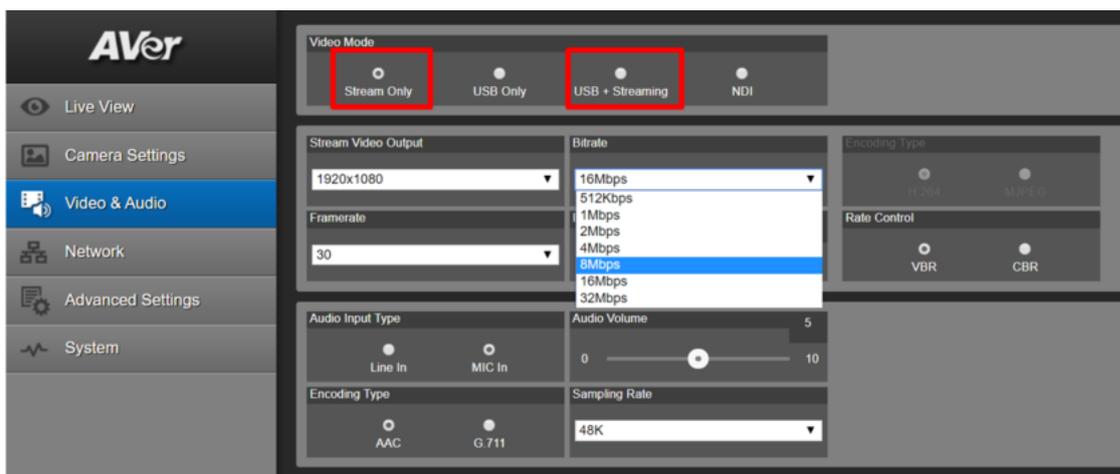
1. Type the IP address of the camera in your Chrome browser (Setup on same subnet) and you should now see the login to the PTZ310/330 camera shown below.



2. 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.
3. Next, you should now see the main login screen with a “Live View” of the PTZ Camera.



4. Next, after selecting the *Video & Audio* setting, verify the Video Mode you are in. In this setup you should *NOT* be in NDI and *Stream Only* Video Mode, as it will disable the USB output.
***Note:** Some servers require a minimum bitrate of 2.5Mbps for their environment.



The PTZ Camera will have an SDI/HDMI output in ALL modes.

	Stream Only (Various)	USB Only (Various)	USB + Streaming (Various)	NDI (1080p/60)
SDI Output	✓	✓	✓	✓
HDMI Output	✓	✓	✓	✓
USB Output	x	✓	✓	x
RTSP Output	✓	x	✓	✓

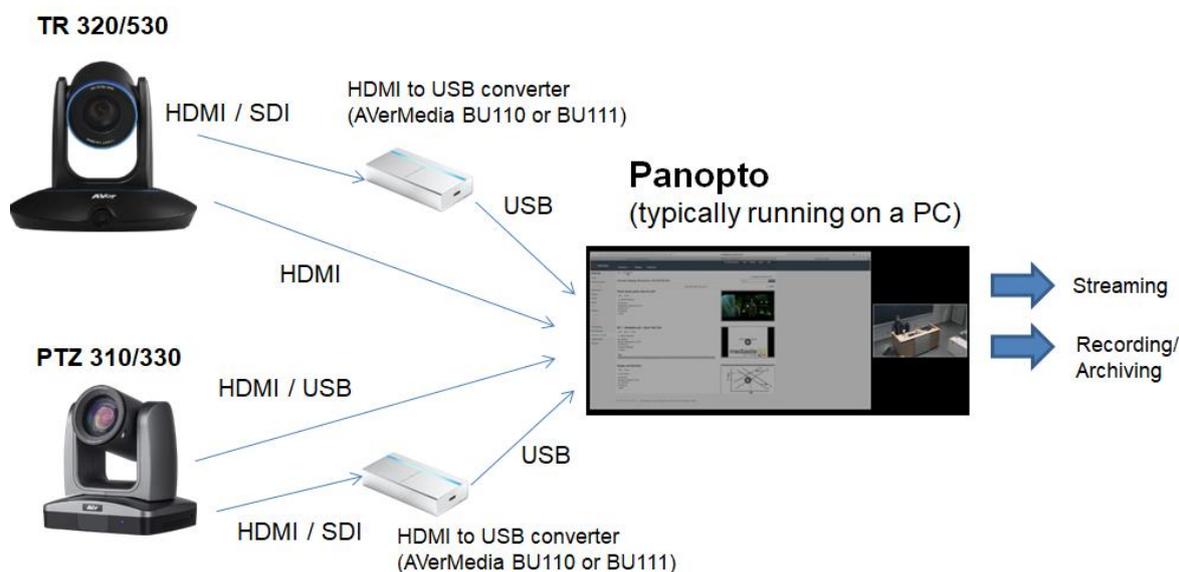
PTZ Camera HDMI/USB connection to Panopto

When connecting the cameras to a Panopto laptop or desktop, the PTZ310/330 provides HDMI, SDI, and USB output. If you are using a desktop with a video card, they can typically have a direct HDMI input connection with high performance data transfer.

If you are using a laptop to capture video, a portable HDMI to USB dongle like the AVer Media BU110 and BU111 provides a high speed, high quality connection.

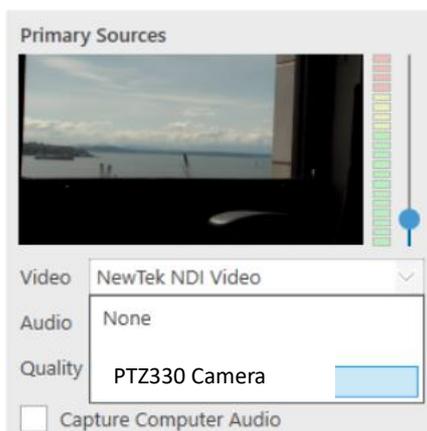
Two Likely Scenarios:

- HDMI or USB direct connection
- HDMI / SDI connection using an AVer Media converter to USB

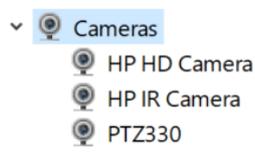


Panopto for Windows System Video Input (HDMI / USB)

1. Go to the Panopto's desktop client; select the PTZ camera source from the list.

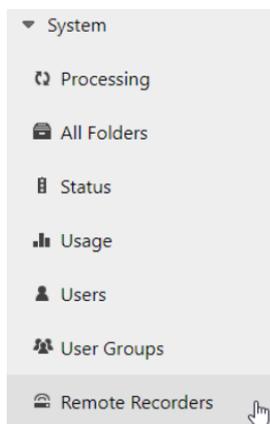


2. Next, you should be seeing the NDI video from the PTZ camera. If you don't see any video, in Windows, open Device Manger and verify the PTZ330 is listed under cameras.



Panopto Remote Recording

1. As an Administrator, from the Panopto VCMS select *System -> Remote Recorders*.



2. Next, select the remote recorder you have configured with the PTZ330 Camera input, and choose the configuration.
3. Next, select the PTZ330 Camera source as a Primary or secondary source. You can also choose to select the Line (PTZ330 Audio) source if you are using the input as an audio source as well.

Preview

Remote Recorder Information

Configuration

Schedule

Access

Name	Panopto Remote Recorder Edit
Machine Name	Panopto Remote Recorder
Machine IP	217.138.114.37
Version	5.6.0.39953

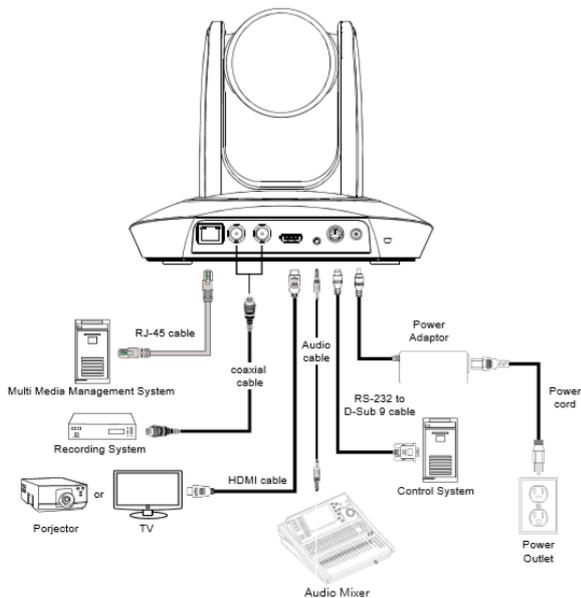
Device Configuration

Capture	Device Name	Primary Video	Primary Audio
<input type="checkbox"/>	Microsoft Camera Front	<input type="checkbox"/>	
<input type="checkbox"/>	Microsoft Camera Base	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	PTZ330 Camera	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Line (Newtek HD1 Audio)		<input type="checkbox"/>
<input checked="" type="checkbox"/>	Microphone Array (Realtek High Definition Audio(SST))		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Capture Screen		
<input checked="" type="checkbox"/>	Capture Slides		
<input type="checkbox"/>	Capture Computer Audio		

4. You are now able to record into Panopto with your configured PTZ 330 Camera source.

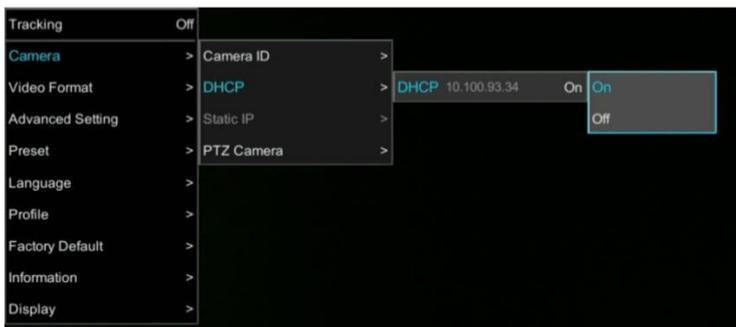
TR320/530 Camera Video Output to the Panopto System

Device Connections

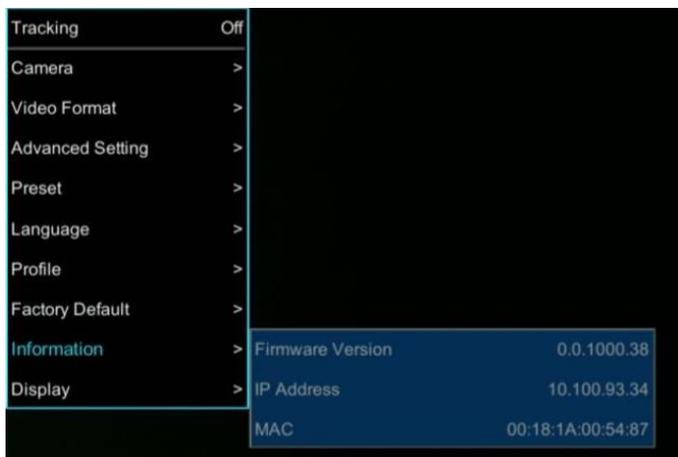


1. Connect the TR530 camera via RJ45 Network Cat5E (or better) cable; verify IP address of Camera in order to connect via Web browser. If IP address is not known, locate the remote, select the “Menu” icon and navigate to the “**Camera->DHCP->**” setting, verify DHCP is set to “On” in order to grab an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

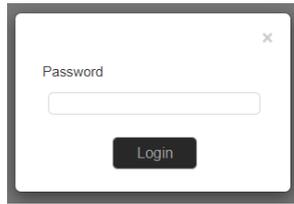
Go to **Camera > DHCP > DHCP >On**.



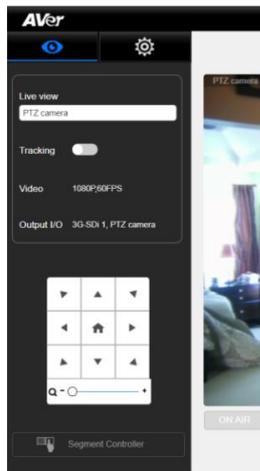
After turning DHCP on, go to **Information** to view the IP address.



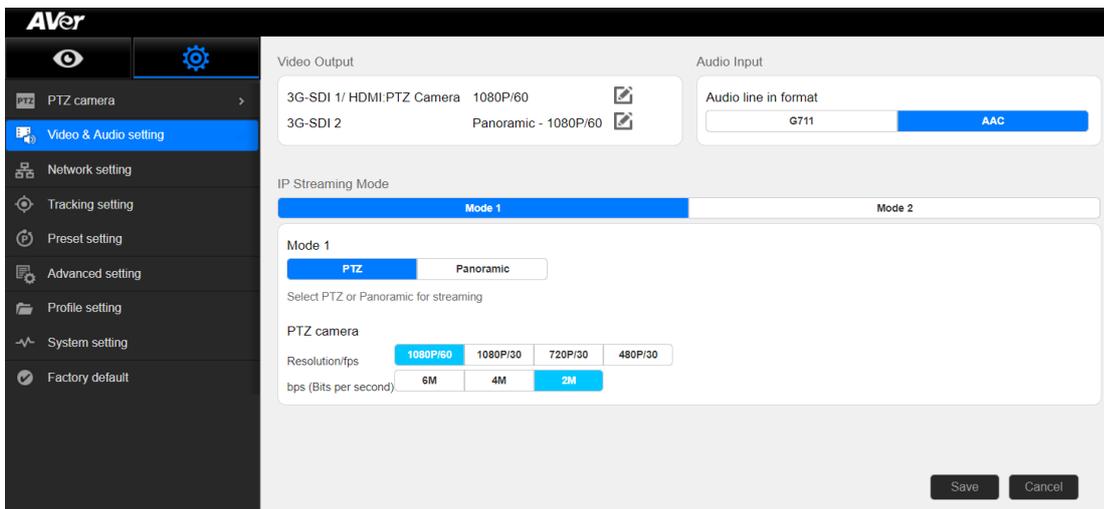
- Another way to find the Camera IP address (On same Subnet) is to use the AVer IPCam Utility to find the camera. AVer software can be found here: <https://www.aver.com/download-center>.
- Next, type the IP address in your Chrome browser (Setup on same subnet) and you should now see a login to the TR320/530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



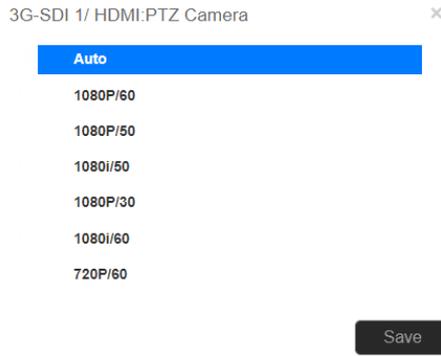
- The default password is "admin".
- Next, you should now see the main login screen with a "Live View" of the PTZ Camera.



- Next, select the settings gearbox , then select *Video & Audio setting*, this is where you can select the Video Output of the TR320/530.



7. Next, selecting 3G-SDI / HDMI will open the following window, allowing you to choose which video standard or set to Auto.



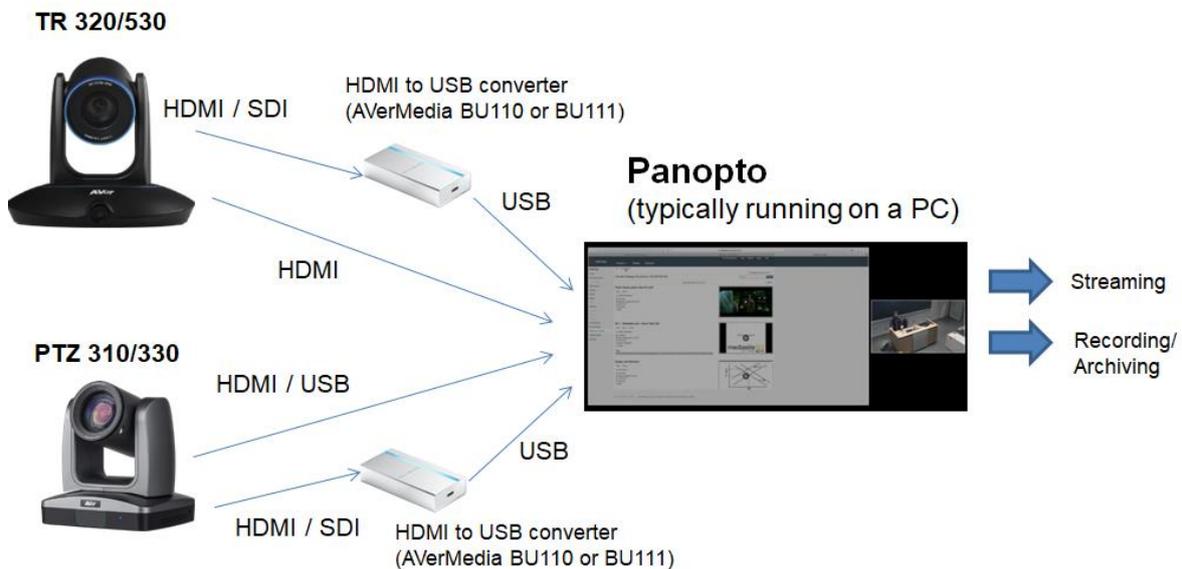
***Note:** Only the standards listed are available currently, no 29.97/59.94 selection.

TR320/530 Camera HDMI/USB connection to Panopto

The PTZ camera does offer USB output, the TR camera does not. If the PC you are using happens to have an HDMI Input connection, you can direct connect to it. If there is no HDMI Input and you are using a laptop to capture video, a portable HDMI/SDI to USB dongle like the AVer Media BU110 and BU111 provides a high speed, high quality connection.

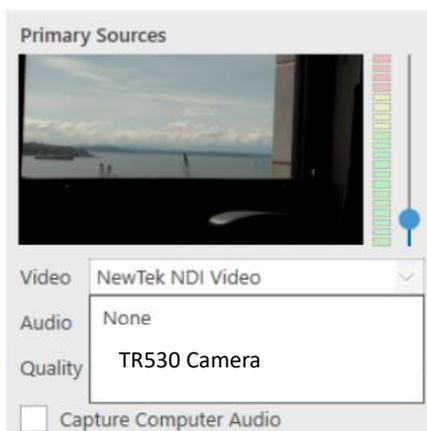
Likely Scenario:

- HDMI / SDI connection using an AVer Media converter to USB



Panopto for Windows System Video Input (HDMI to USB)

3. Go to the Panopto's desktop client; select the TR530 camera source from the list.

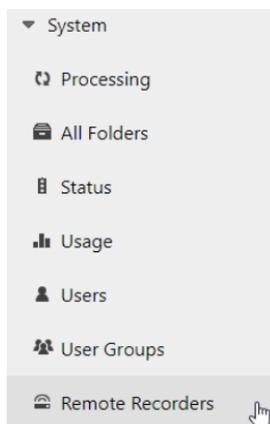


4. Next, you should be seeing the USB video from the TR camera. If you don't see any video, open *Device Manger* in Windows and verify the TR530 is listed under cameras.



Panopto Remote Recording

5. As an Administrator, from the Panopto VCMS select *System -> Remote Recorders*.



6. Next, select the remote recorder you have configured with the PTZ330 Camera input, and choose the configuration.
7. Next, select the TR530 Camera source as a Primary or secondary source. You can also choose to select the Line (TR530 Audio) source if you are using the input as an audio source as well.

Preview

Configuration

Schedule

Access

Remote Recorder Information

Name	Panopto Remote Recorder Edit
Machine Name	Panopto Remote Recorder
Machine IP	217.138.114.37
Version	5.6.0.39953

Device Configuration

Capture	Device Name	Primary Video	Primary Audio
<input type="checkbox"/>	Microsoft Camera Front	<input type="checkbox"/>	
<input type="checkbox"/>	Microsoft Camera Rear	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	TR530 Camera	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Line (NewTek NDI Audio)		<input type="checkbox"/>
<input checked="" type="checkbox"/>	Microphone Array (Realtek High Definition Audio(SST))		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Capture Screen		
<input checked="" type="checkbox"/>	Capture Slides		
<input type="checkbox"/>	Capture Computer Audio		

8. You are now able to record into Panopto with your configured TR530 Camera video source.