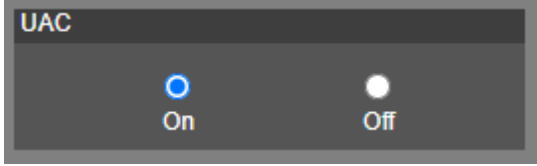
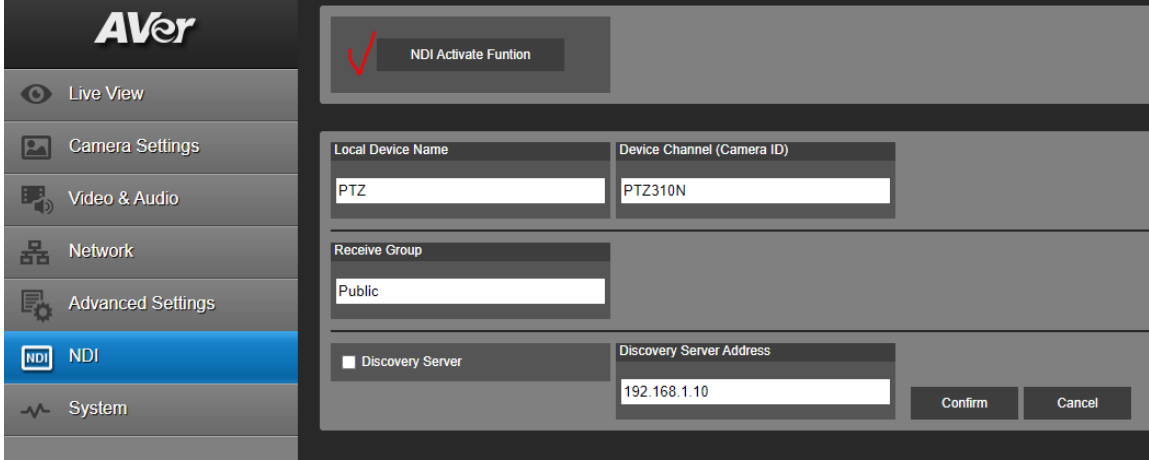

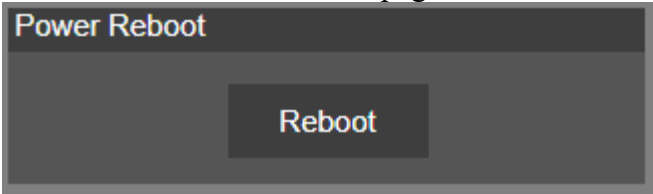

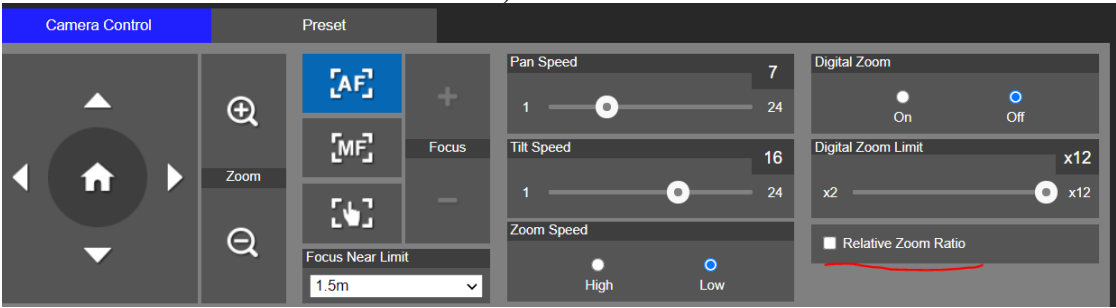
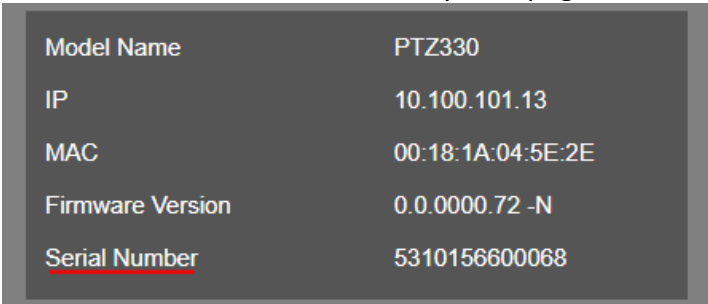


Products: PTZ310/PTZ310W/PTZ310N/PTZ330/PTZ330W/PTZ330N

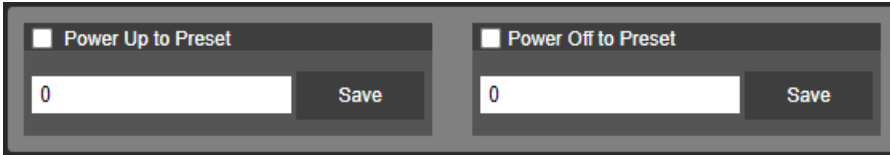
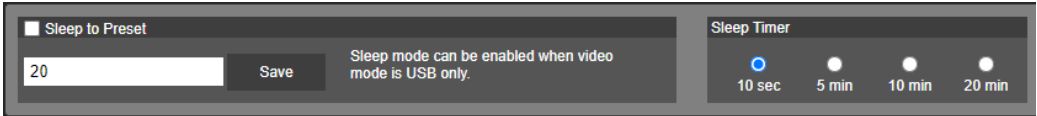
FW version	V0.0.0000.78																																														
Release date	2022/07/01																																														
New feature	<p>1. Able to set UAC on/off via the webui. (Video & Audio > UAC)</p>  <p>2. Added the ability to do NDI activation function and settings.</p>  <p>**To Get an NDI license key. This camera is compatible with NDI HX of NewTek, Inc. To use NDI HX, you are required to purchase the license key Newtek, Inc. https://www.newtek.com/ndihx/products/upgrade/</p> <p>3. Added VISCA inquire command</p> <table border="1" data-bbox="337 1297 1515 1759"> <thead> <tr> <th>Inquiry Command</th> <th>Command packet</th> <th>Reply Command Packet</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>CAM_FocusPosInq</td> <td>8x 09 04 48 FF</td> <td>y0 50 0p 0q 0r 0s FF</td> <td>pqrs: Focus Position</td> </tr> <tr> <td>CAM_Preset Inq</td> <td>8x 09 04 3F FF</td> <td>y0 50 pp FF</td> <td>Return the last preset number which has been operated pp:01 - FF</td> </tr> <tr> <td rowspan="2">CAM_SmartFrame Inq</td> <td rowspan="2">8x 09 36 69 01 FF</td> <td>y0 50 02 FF</td> <td>ON</td> </tr> <tr> <td>y0 50 03 FF</td> <td>OFF</td> </tr> <tr> <td rowspan="2">CAM_SmartShoot Inq</td> <td rowspan="2">8x 09 36 69 02 FF</td> <td>y0 50 02 FF</td> <td>ON</td> </tr> <tr> <td>y0 50 03 FF</td> <td>OFF</td> </tr> <tr> <td rowspan="2">CAM_Preset FreezeInq</td> <td rowspan="2">8x 09 04 62 02 FF</td> <td>y0 50 02 FF</td> <td>Preset Freeze On</td> </tr> <tr> <td>y0 50 03 FF</td> <td>Preset Freeze Off</td> </tr> <tr> <td>CAM_PT Slow Inq</td> <td>8x 09 06 44 FF</td> <td>y0 50 0p FF</td> <td>p: 2=On, 3=Off</td> </tr> <tr> <td>CAM_Prset speedInq</td> <td>8x 09 7E 04 1C FF</td> <td>y0 50 0p 0p FF</td> <td>pp:01 to 06</td> </tr> <tr> <td>CAM_Firmware versionInq</td> <td>8x 09 36 69 04 FF</td> <td>y0 50 0p 0q 0r 0s 0t 0u 0v 0w FF</td> <td>fw_ver: p.q.rstu.vw</td> </tr> <tr> <td>CAM_ICRModelInq (IR Cut)</td> <td>8x 09 04 01 FF</td> <td>y0 50 0p FF</td> <td>p: 2=On, 3=Off</td> </tr> </tbody> </table> <p>4. Added support for LLDP (POE extension).</p>	Inquiry Command	Command packet	Reply Command Packet	Comments	CAM_FocusPosInq	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: Focus Position	CAM_Preset Inq	8x 09 04 3F FF	y0 50 pp FF	Return the last preset number which has been operated pp:01 - FF	CAM_SmartFrame Inq	8x 09 36 69 01 FF	y0 50 02 FF	ON	y0 50 03 FF	OFF	CAM_SmartShoot Inq	8x 09 36 69 02 FF	y0 50 02 FF	ON	y0 50 03 FF	OFF	CAM_Preset FreezeInq	8x 09 04 62 02 FF	y0 50 02 FF	Preset Freeze On	y0 50 03 FF	Preset Freeze Off	CAM_PT Slow Inq	8x 09 06 44 FF	y0 50 0p FF	p: 2=On, 3=Off	CAM_Prset speedInq	8x 09 7E 04 1C FF	y0 50 0p 0p FF	pp:01 to 06	CAM_Firmware versionInq	8x 09 36 69 04 FF	y0 50 0p 0q 0r 0s 0t 0u 0v 0w FF	fw_ver: p.q.rstu.vw	CAM_ICRModelInq (IR Cut)	8x 09 04 01 FF	y0 50 0p FF	p: 2=On, 3=Off
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Improvements	<p>1. Improved RTMP audio on Vimeo</p> <p>2. Improved White Balance/ One Push function to save the R gain / B gain value.</p>																																														
Known issue	<p>1. When the video mode via the web is set to IP streaming only or NDI only; then when</p>																																														

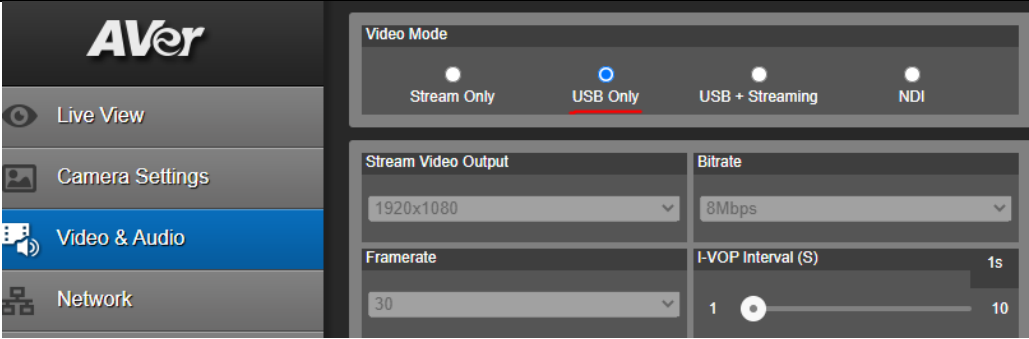
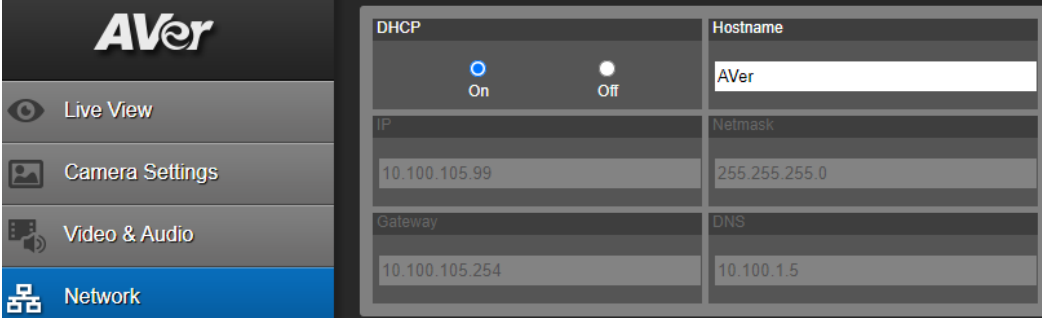
the USB port is connected to a PC, users will still see the device name on the PC, but will not have any USB streaming output.

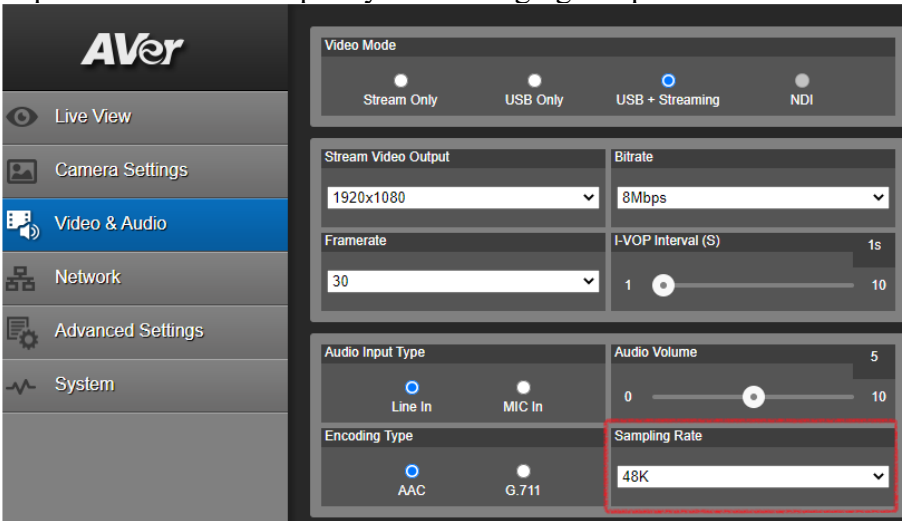
2. NDI5 reliable UDP Feature isn't supported.

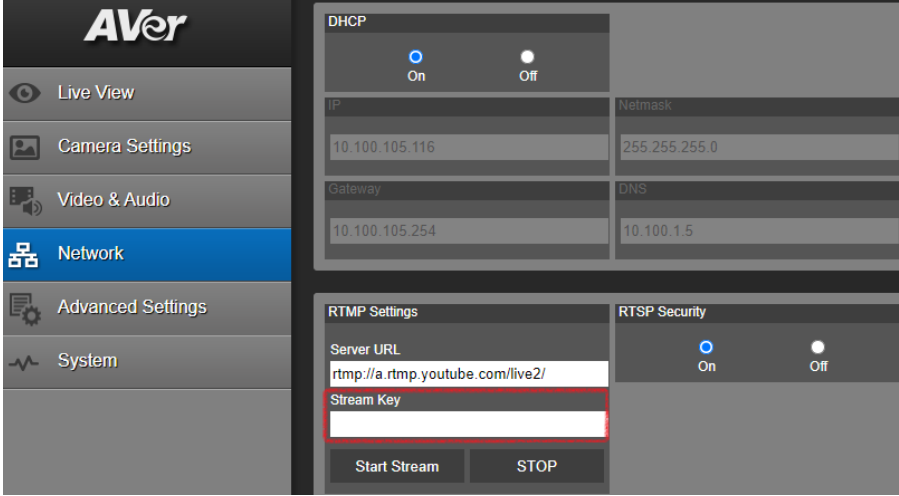
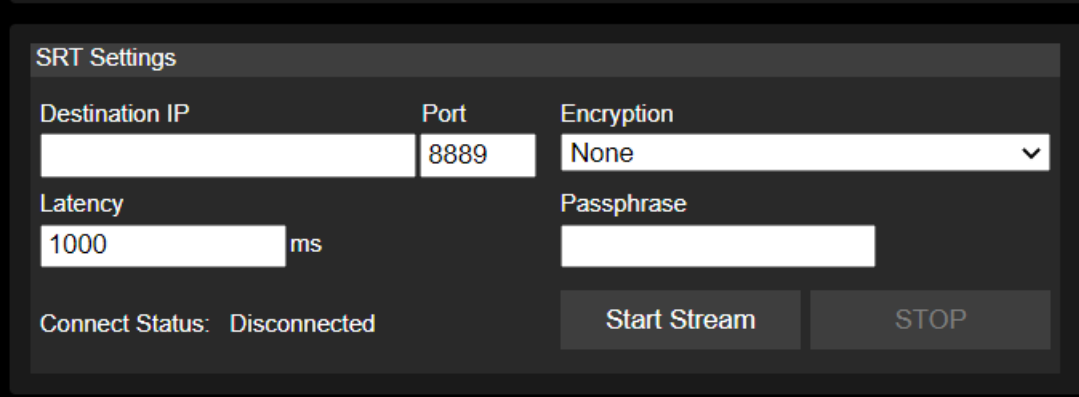
FW version	V0.0.0000.75		
Release date	2022/02/08		
New feature	<p>5. Able to set video output resolution in webpage. (Video& Audio >Video Output)</p>  <p>6. Able to reboot camera in webpage.</p>  <p>7. Added the ability to enable and disable HTTPS and update certificate.</p>  <p>8. Added ability to change PT speed in relation to current Zoom ratio. (Live View> Camera control > Relative Zoom Ratio)</p>  <p>9. Able to see serial number info in system page</p>  <p>10. NDI 5 (NDI HX) is now enabled on the PTZ310N and PTZ330N camera, (Note: Reliable UDP isn't supported yet.) *Following list is simple description of NDI version</p> <table border="1" data-bbox="354 1913 1500 1990"> <tr> <td>NDI Version</td> <td>NDI Features/Enhancements</td> </tr> </table>	NDI Version	NDI Features/Enhancements
NDI Version	NDI Features/Enhancements		

	1	Initial Release
	2	Cross subnet support via Access Manager, ARM encoding support, iOS SDK
	3	NDI-HX support, Option for multicast transport with FEC, PTZ support.
	3.5	Defaults to Unicast UDP transport method with FEC.
	3.6	Packet level bonding improvements.
	3.7	Discovery improvements.
	3.8	Performance Enhancements, NDI Embedded SDK for FPGA development.
	4	Multi-TCP Transport mode, HDR 16-bit support, Native synchronized recording, Discovery Server, NDI HX2
	4.1	Performance improvements.
	4.5	New Multi-TCP implementation, Lower latency with NDI-HX, Predictable port numbers for firewall rules, Improvements to codec quality.
	4.6	Can support NDI-HX2 encoding on PC's using NVENC.
	5	Reliable UDP transmission, Redundant discovery server support, NDI 5 Tools (Bridge, Remote, Audio Direct, FCP-X output)
Improvements	3. Improve controller compatibility (Lumens's controller). 4. Preset setting in Zoom room APP.	
Known issue	3. When the video mode via the web is set to IP streaming only or NDI only; then when the USB port is connected to a PC, users will still see the device name on the PC, but will not have any USB streaming output. 4. NDI5 reliable UDP Feature isn't supported.	

FW version	V0.0.0000.70
Release date	2021/04/13
New feature	N/A
Improvement	<p>11. Added Power Up to Preset position setting on Web UI. 12. Added Power Off to Preset position setting on Web UI.</p>  <p>13. Added Sleep to Preset position setting on Web UI, this is for ZOOM cert from 2021 April.(visit ZOOM website of announcement: https://support.zoom.us/hc/en-us/articles/360033608731-Certified-Zoom-Rooms-Devices)</p>  <p>P.S Sleep mode can only be activated when in “USB Only” Video mode, when the USB video is stopped, camera will count down before going into the Sleep position.</p>

	 <p>14. Added Lens Distortion Correction enable/disable button on webpage of PTZ330/PTZ330N.</p> <p>15. Added ability to change “Hostname” of camera on Web UI.</p> 
Improvements	<p>5. Supports NDI4.6.2 version on the PTZ310N/330N.</p> <p>6. OBS Plug-in update.</p> <p>7. Fixed bug associated with SW Captureshare snapshot.</p>
Known issue	<p>5. When the video mode via the web is set to IP streaming only or NDI only; then when the USB port is connected to a PC, users will still see the device name on the PC, but will not have any USB streaming output.</p>

FW version	V.66
Release date	2021/01/27
New feature	N/A
Improvement	<p>1. Improved RTSP video streaming quality.</p> <p>2. Improved RTSP audio quality after changing sample rate.</p>  <p>3. Improved RTSP “Stream Key” information sync, no need to reboot the camera.</p>

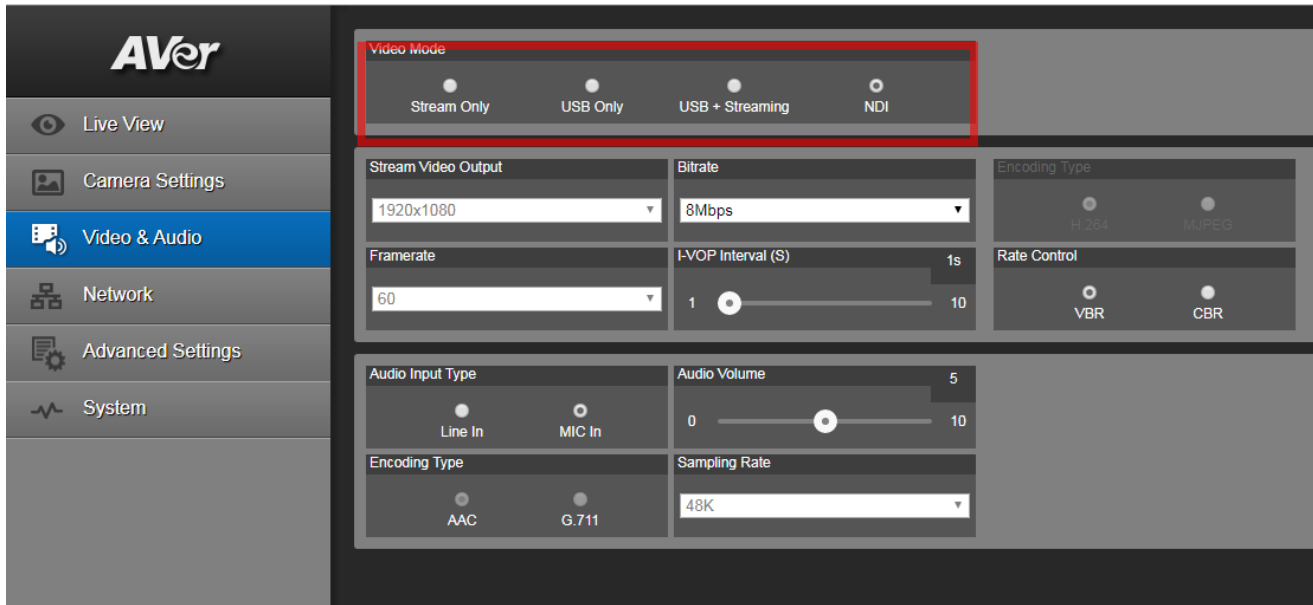
	 <p>4. Improved FW update process on web page.</p>
Known issue	When the video mode via the web is set to IP streaming only or NDI only; then when the USB port is connected to a PC, users will still see the device name on the PC, but will not have any USB streaming output.
FW version	V.61
Release date	2020/10/14
New features	<ol style="list-style-type: none"> 1. Long pressing remote control button “Pan-Tilt Fast” turns on RTMP. 2. Long pressing remote control buttonPan-Tilt Slow” turns off RTMP. 3. Long pressing remote control button “EV+” turns on SmartShoot. 4. Long pressing remote control button “EV- ”to turn off SmartShoot. 5. PTZ330 now supports LDC(LENS Distortion Correction). 6. Added support for PTZ manager. 7. Added support for Captureshare. 8. Added support for SRT. 
Known Issues	<ol style="list-style-type: none"> 1. Web GUI has known compatibility issue with the Apple MAC Safari browser. Please use the Chrome browser on Apple devices for the meantime. 2. When the video mode via the web is set to IP streaming only or NDI only; then when the USB port is connected to a PC, users will still see the device name on the PC, but will not have any USB streaming output.

FAQ (For PTZ310N and PTZ330N models only):

There are 4 types of video modes that can be selected and each one only supports a single function:

- Stream only: Supports RTSP/RTMP only
- USB: Supports USB port output only

- USB + Streaming: Supports RTSP/RTMP and USB simultaneously.
- NDI: Supports NDI output only.



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