



PTZ310UNV2

12X 4K AI NDI PTZ Camera

NDI | HX3

SRT
READY



Capture Your Events With the Best Quality Video and the World's First UHD NDI HX3 Camera with AI!

The AVer PTZ310UNV2 12X 4K AI NDI PTZ Camera is our latest generation of PTZs to offer the best image quality, video streaming support and AI functionality. The camera offers 4K resolution, 8MP picture with 60fps and simultaneous output of HDMI/IP/NDI HX3/3G-SDI. The PTZ310UNV2 is the world's first UHD NDI HX3 camera for better video with reduced latency – using a fraction of the bandwidth of NDI® high bandwidth. The PTZ310UNV2 features Zoom and Microsoft Teams video mode for easy conference setups and the SRT protocol to optimize video streaming performance across unpredictable networks. Built-in AI functions provide preset content areas or adjust FOV to capture everyone on screen.



4K Resolution



12X Optical Zoom



HDMI, IP, NDI HX2,
USB, 3G-SDI



Supports PoE+



8MP Picture



AI Functions



4Kp60

- Simultaneous output at 4Kp60 with HDMI/NDI/IP



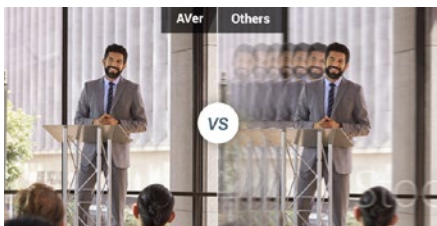
Harness the Magic of NDI/HX3

- Includes the most recent edition of the NDI protocol is NDI® version 3 (NDI® HX3)
- Features 4Kp60 NDI output with latency less than 100ms



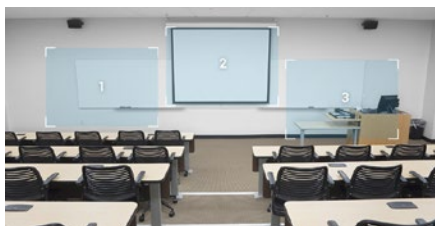
Seamless Content Capture with SmartShoot AI Functions

- Optimize your camera controls for automatic content capturing between preset areas
- Create a multi-camera feel across all your preset zones
- Save time and effort with a variety of shooting ranges



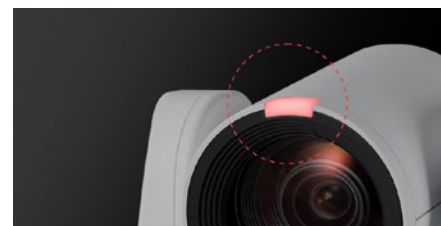
Advanced Motion Control

- Achieve precise camera movement during recording
- Pan/tilt rotation maneuvers as small as 0.1° per step and as fast as 200°
- Customizable speed controls allow you to optimize your recording



Prepare for Any Angle

- Up to 256 different preset locations through VISCA via RS232 and RS422 functionality
- Simplified IR remote and the ability to set 10 preprogrammed preset locations
- Easy manual control of the recording view with outstanding preset locations



Tally Light

Simplify multi-camera live video productions with an illuminated red light on the active camera.



Free Software for Users and AV Managers

Whether you need a simple tool to control your PTZ or TR camera, or manage over a hundred on your network, AVer has great options. [CaptureShare](#) and [PTZ Management for desktop](#) and [AVer PTZ Control Panel for iPad](#) have you covered. For new voice tracking features, look to [PTZ Link](#). Visit our [support page](#) for easy download of our desktop software.



Compatible Software



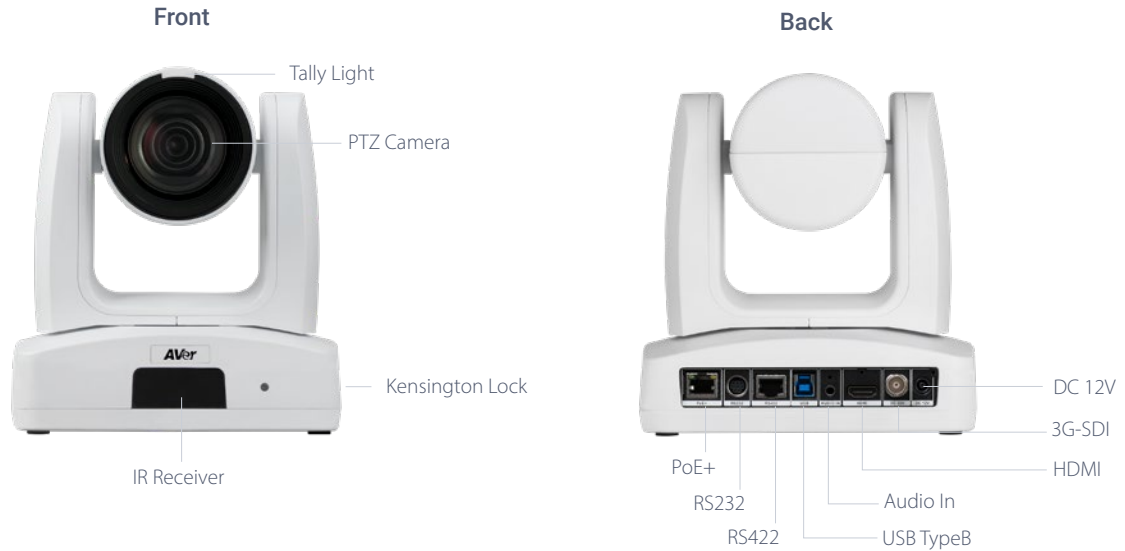
Product Specifications

PTZ310UNV2

Camera	Image Sensor	1/2.8" 4K Exmor CMOS	
	Effective Picture Elements	8 Megapixels	
	Output Resolutions	4K/60, 4K/59.94, 4K/50, 4K/30, 4K/29.97, 4K/25, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50	
	Minimum Illumination	0.46 lux (IRE50, F1.6, 30fps)	
	S/N Ratio	> 50dB	
	Gain	Auto / Manual	
	TV Lines	1400 (Center/Wide)	
	Shutter Speed	1/1 to 1/32,000 sec	
	Exposure Control	Auto, Manual, Priority AE(Shutter, IRIS), BLC, WDR	
	White Balance	Auto, Manual, ATW, One Push	
	Optical Zoom	12X	
	Digital Zoom	1X	
	Total Zoom	12X	
	Viewing Angles	DFOV : 79.2° (Wide) to 7.5° (Tele), HFOV : 72.1° (Wide) to 6.3° (Tele), VFOV : 44.0° (Wide) to 3.7° (Tele)	
	Focal Length	f = 3.9 mm (Wide) to 46.8 mm (Tele)	
	Aperture (Iris)	F = 1.6 (Wide) to 2.8 (Tele)	
	Minimum Working Distance	0.3 m (Wide), 1.5 m (Tele)	
	Pan / Tilt Angles	Pan : ±170°, Tilt : +90° / -30°	
	Pan / Tilt Speed (Manual)	Pan : 0.1° to 100° / sec, Tilt : 0.1° to 100° / sec	
	Preset Speed	Pan : 200° / sec, Tilt : 200° / sec	
	Preset Positions	10 (IR), 256 (RS-232, RS-422, IP)	
	Camera Control - Interfaces	RS-232 (DIN8), RS-422 (RJ45), IP	
	Camera Control - Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP)	
	Image Processing	Noise Reduction (2D / 3D), Flip, Mirror	
Power Frequencies	50 Hz, 60 Hz		
AI Functions	Modes	SmartShoot	
	Audio - Channel	2ch Stereo	
	Audio - Codec	AAC-LC	
Interface	Video Outputs	3G-SDI, HDMI, IP, USB	
	Audio Outputs	3G-SDI, HDMI, IP, USB	
	Audio Input	MIC in, Line in	
General	Power Requirement	AC 100 - 240V to DC 12V/2A	
	Power Consumption	19W	
	PoE	PoE+	
	Dimensions (W x H x D)	180.0 x 192.0 x 145.0 mm	
	Net Weight	2.0 (±0.1) kg	
	Application	Indoor	
	Tally Light	Yes	
	Security	Kensington Slot	
	Remote Control	Infrared	
	Operating Conditions	Temperature : 0 °C to +40 °C ; Humidity : 20% to 80%	
	Storage Conditions	Temperature : -20 °C to +60 °C ; Humidity : 20% to 95%	
	IP Streaming	Resolution	4K 60fps
		Network Video Compress Formats	H.264, H.265, MJPEG
Maximum Frame Rate		4K 60fps	
Bit-Rate Control Modes		VBR, CBR (selectable)	
Range of Bit-Rate Setting		512 Kbps to 120 Mbps	
Network Interface		10 / 100 / 1000 Base-T	
Multi-Stream Capability		5: HDMI / RTSP / NDI HX2 / USB(4Kp60) & 3G-SDI(1080P60) or 4: HDMI / RTSP / NDI HX3(4Kp60) & 3G-SDI(1080P60)	
Network Protocols		IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP	
	NDI*HX3 Capability	Yes	
	NDI* Genlock Capability*	Yes	
USB	Connector	USB 3.0 Type-B	
	Video Formats	MJPEG, YUY2	
	Maximum Video Resolution	2160p	
	USB Video Class (UVC)	UVC 1.1	
	USB Audio Class (UAC)	UAC 1.0	
Web UI	Live Video Preview	Yes	
	Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control	
	Camera / Image Adjustment	Exposure, White Balance	
	Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS	

Software Tools	IP Search and Configuration Tool	Support Windows® 7 or later
	PTZ Management	Support Windows® 7 or later
	PTZ Control Panel	Supports iOS & iPadOS® 11 or later
	PTZ Link	Supports Windows® 7 or later, macOS® 10.14 or later
	OBS Plugin for PTZ Cameras	Supports Windows® 8 or later, macOS® High Sierra v10.13 or later
	CaptureShare	Supports Windows® 7 or later, macOS® 10.14 or later
Warranty	Camera	5 Years
	Accessories	1 Year
Package Contents	Camera, Drilling Paper, Ceiling Mount Bracket (x2), Quick Start Guide, Cable Fixing Plate, M2 x 4 mm Screw (x3), Power Adapter & Power Cord, 1/4"-20 L=6.5 mm Screw (x2), Remote Control, M3 x 6 mm Screw (x3), DIN 8 to D-Sub 9 Cable, RS-232 In/Out Y Cable, Cable Ties (x4)	
Optional Accessories	AVer CL01 PTZ Camera Controller, L-Type Ceiling Mount	
Ordering Info	Part Number	PT310UNV2

Hardware Specifications



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