



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



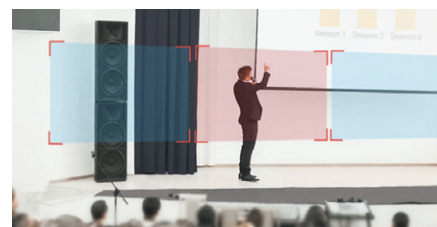
4Kp60

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



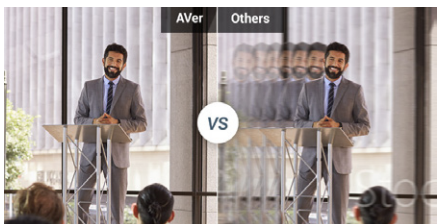
Harness the Magic of NDI/HX3

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



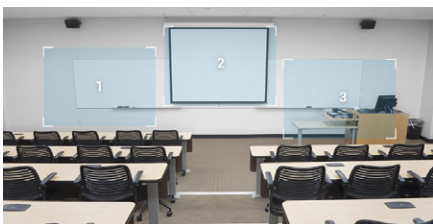
Seamless Content Capture with SmartShoot AI Functions

- 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



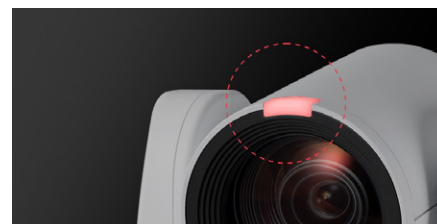
Advanced Motion Control

- 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



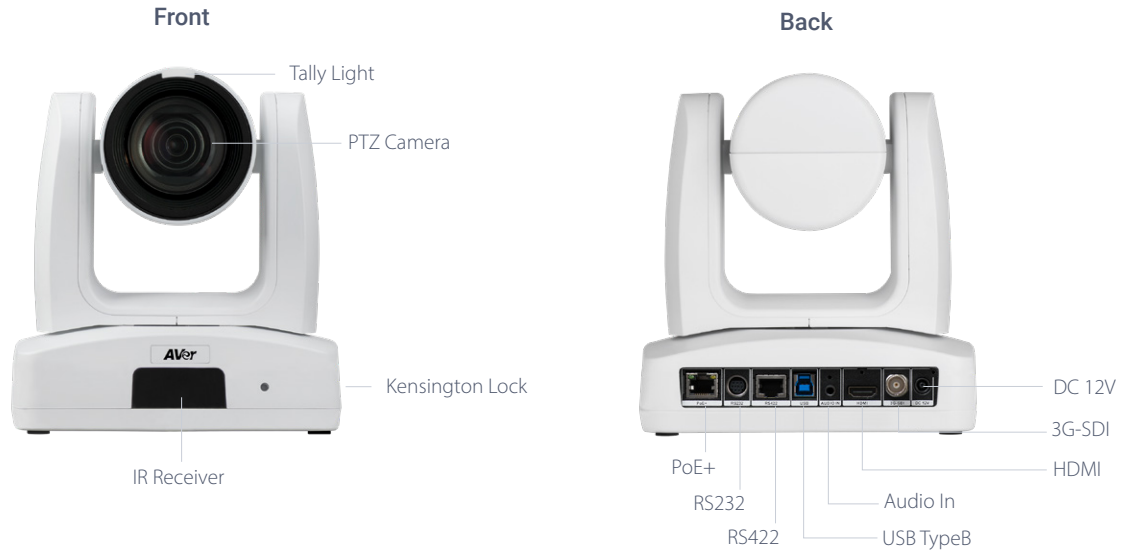
Product Specifications

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 : 80.6° (Wide) to 7.7° (Tele), HFOV : 72.8° (Wide) to 6.7° (Tele), VFOV : 44.1° (Wide) to 3.8° (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 / IP / NDI HX2 / USB(4Kp60) & 3G-SDI(1080P60) or 4: HDMI / IP / 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 | |
| USB | NDI* Genlock Capability* | Yes | |
| | 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 | |

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| 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 |
| Warranty | Camera | 3 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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