PTZ310N
PTZ330N

NDI PTZ
Live Streaming Camera
Capture Your Events in True-to-life Video Quality with NDI-HX Connectivity

The AVer PTZ310N/330N NDI PTZ Live Streaming Camera is the latest camera with NewTek NDI® integrated. It combines both standard SDI and HDMI connections as well as Ethernet/NDI network connectivity for HD video streaming, recording, and broadcasting. The PTZ310N/330N can output HD video and audio while receiving control signal and power over a single connection. Pan, tilt, zoom, recording settings, and more can also be adjusted remotely over Ethernet.

Seamless Content Capture with SmartShoot
- 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

One-Touch Face Targeting with SmartFrame
- Instantly adjusts your FOV to fit everyone on-screen at stunning speed
- Start recording presentations, lectures, and more with no hassle
- Easily capture multiple people with one camera

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 255 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

Compatible Software

![CRESTRON](image) ![echo](image) ![Extron](image) ![KALTURA](image) ![vMix](image)
![telestream](image) ![zoom](image) ![Panopto](image) ![NewTek](image)
## Product Specifications

### Camera
- **Image Sensor**: 1/2.8” 1080p 60fps Exmor CMOS
- **Effective Picture Elements**: Approx. 2.1 megapixels
- **Output Resolution**: Auto, 1080p60, 1080p/1920x1080, 1080i/1920x1080, 720p/1920x1080, 720p/1920x1080, 720p/1920x1080, 720p/1920x1080
- **Minimum Illumination**: R50: 0.47 lux (F1.6, 10fps), 0.43 lux (R50, F1.6, 10fps)
- **S/N Ratio**: > 50dB
- **Gain**: Auto / Manual
- **TV Line**: 800 (Center/Wide) / 800 (Corner/Wide)
- **Shutter Speed**: 1/1s to 1/32,000s
- **Exposure Control**: Auto, Manual, Priority AE (Shutter, Iris), BLC
- **White Balance**: Auto / Indoor / Outdoor / One-push / Manual (2500 ~ 10000)
- **Optical Zoom**: 12X
- **Digital Zoom**: 12X
- **Horizontal/Viewing Angle**: 72.1° (Wide) ~ 6.8° (Tele)
- **Focal Length**: f = 3.9mm (Wide) ~ 46.8mm (Tele)
- **Aperture (F/stop)**: F = 1.6 (Wide) ~ 2.8 (Tele)
- **Minimum Working Distance**: 0.3m (Wide), 1.5m (Tele)
- **Pan/Tilt Angle**: Pan: -170°, Tilt: -90° ~ 30°
- **Pan/Tilt Speed (Manual)**: Pan: 0.1 ~ 100°/Sec, Tilt: 0.1 ~ 100°/Sec
- **Pan/Tilt Speed**: Pan: 0.1 ~ 100°/Sec, Tilt: 0.1 ~ 100°/Sec
- **Preset Position**: Pan: 160° / Sec, Tilt: 160° / Sec
- **Preset Position**: Pan: 160° / Sec, Tilt: 160° / Sec
- **Preset Position**: Pan: 160° / Sec, Tilt: 160° / Sec
- **Camera Control - Interface**: RS232 (DIN8) / RS422 (RJ45)
- **Camera Control - Protocol**: NDV/HX, VISCA (RS232/422/IP), CGI (IP)
- **Image Processing**: Noise Reduction (2/3D), Flip, Mirror
- **Power Frequency**: Auto / 50Hz / 60Hz
- **Audio - Channel**: 2ch (Stereo)
- **Audio - Codec**: AAC-LC (48/44.1/32/24K), G.711/PCM (16/8K)
- **Audio - Sample Rate**: 48 / 44.1 / 32 / 24 / 16 / 8Khz
- **Audio Output**: 3G-SOX, HDMI, AV
- **Audio Input**: MIC / Line-in / 3.5mm

### Interface
- **Video Output**: 3G-SOX, HDMI, IP, USB
- **Power Requirement**: AC 100V ~ 240V to DC 12V/5A
- **Audio - Channel**: 2ch (Stereo)
- **Audio - Codec**: AAC-LC (48/44.1/32/24K), G.711/PCM (16/8K)
- **Audio - Sample Rate**: 48 / 44.1 / 32 / 24 / 16 / 8Khz

### General
- **Power Requirement**: AC 100V ~ 240V to DC 12V/5A
- **PoE**: 802.3af (Class 4, PSE)
- **Operating Condition**: Temperature: 0°C ~ 40°C, Humidity: 20% ~ 80% (No Condensation)
- **Storage Condition**: Temperature: -20°C ~ 60°C, Humidity: 20% ~ 95% (No Condensation)
- **Dimensions**: L = 180mm, W = 145mm, H = 183.5mm
- **Weight**: 1.741kg
- **Application**: Indoor
- **Security**: Kensington Slot
- **Remote Control**: Infrared
- **Accessory**: Remote control, 12V/5A power adapter

### IP Streaming
- **Resolution**: Up to 1080p
- **Video Format**: YUV, MJPEG
- **USB Video Class**: UVC1.1
- **USB Audio Class**: UAC1.0
- **Live Video Preview**: Yes
- **Camera PTZ Control**: Pan / Tilt / Zoom / Focus / Preset Control
- **Camera Image Adjustment**: Exposure / White Balance / Picture
- **Network Configuration**: DHCP / IP Addr / Gateway / Netmask / DNS
- **Software Tools**: AVer PTZ Management, CaptureShare

### USB
- **Connector**: Micro USB 2.0
- **Video Format**: YUV, MJPEG
- **Maximum Video Resolution**: Up to 1080p
- **USB Video Class**: UVC1.1
- **USB Audio Class**: UAC1.0

### WebUI
- **Live Video Preview**: Yes
- **Camera PTZ Control**: Pan / Tilt / Zoom / Focus / Preset Control
- **Camera Image Adjustment**: Exposure / White Balance / Picture
- **Network Configuration**: DHCP / IP Addr / Gateway / Netmask / DNS
- **Software Tools**: AVer PTZ Management, CaptureShare

### Warranty
- **Camera**: 3 Years with AVerCare
- **Accessories**: 1 Year
- **NDI Streaming**: NDI/HX, SRT, IP, PC/LC, UDB, AVE (MCP, GMP), H3P, EP3, RTCP, RTSP, RTMP, VISCA over IP
- **Software Tools**: AVer PTZ Management, CaptureShare

### Ordering Info
- **Part Number**: PAPTZ310N (Gray Color), PAPTZ330N (Gray Color)

## Hardware Specifications

**Front Panel**
- DC 12V
- RS232
- RS422
- Micro-USB
- Audio In
- HDMI

**Back Panel**