AVer

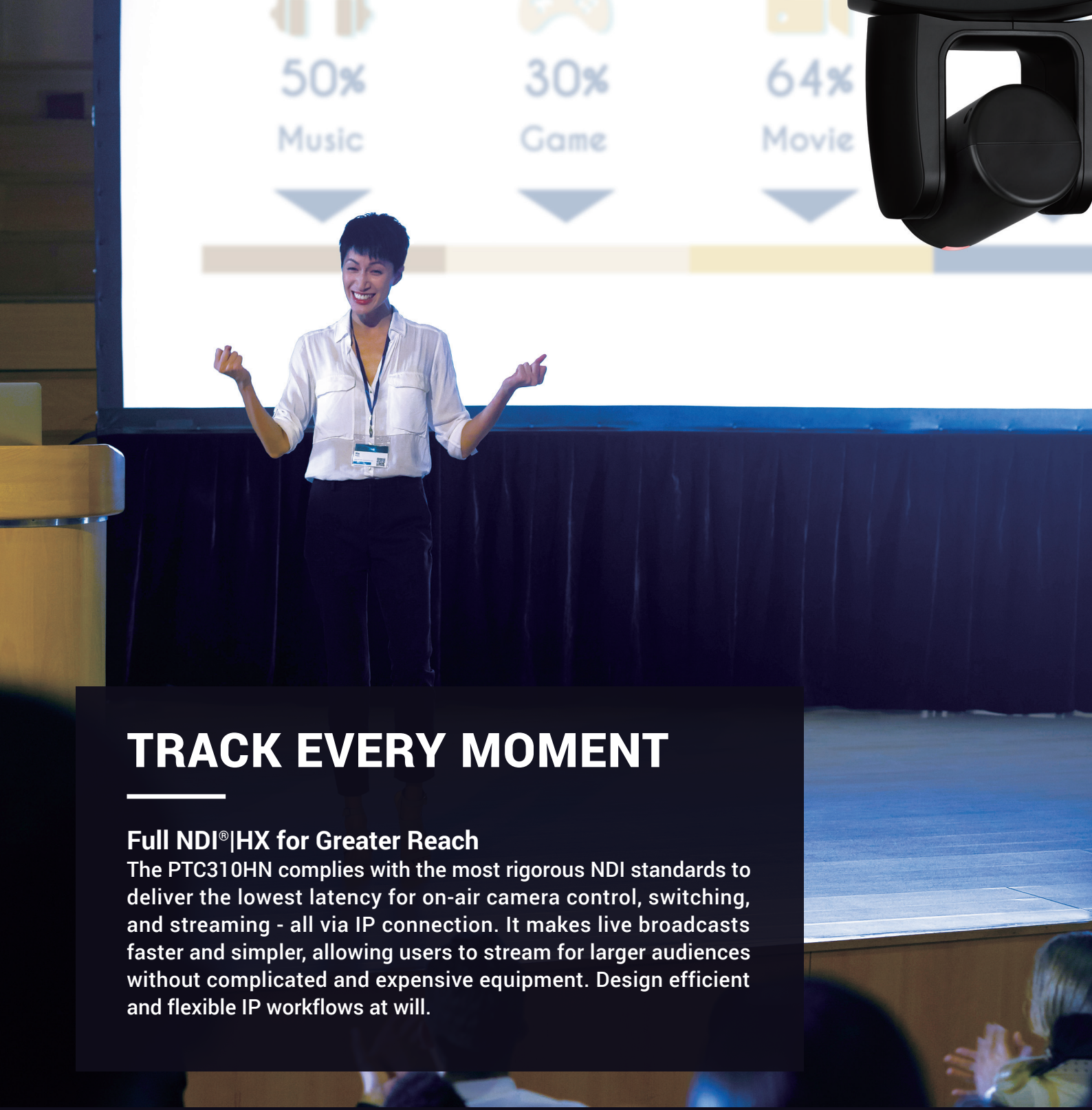


PTC310HN

AI Auto Tracking PTZ Camera

NDI® | HX





TRACK EVERY MOMENT

Full NDI®|HX for Greater Reach

The PTC310HN complies with the most rigorous NDI standards to deliver the lowest latency for on-air camera control, switching, and streaming - all via IP connection. It makes live broadcasts faster and simpler, allowing users to stream for larger audiences without complicated and expensive equipment. Design efficient and flexible IP workflows at will.

- NDI HX2
- 4K Ultra HD Resolution
- 12X Optical Zoom
- IP/HDMI/USB
- Human Detection AI
- Presenter Mode
- Zone Mode
- RTSP/RTMP Livestreaming
- Intuitive Web UI
- Upside-Down Installation

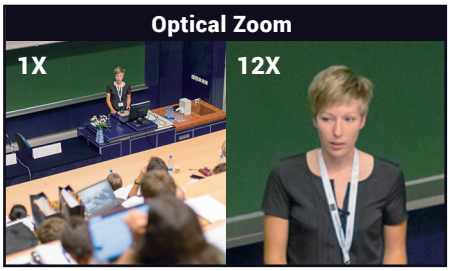
4K Output Resolution

Equipped with 4K resolution, the PTC310HN provides ultra-precise auto tracking. The PTC310HN also features a Sony sensor that maintains a truly impressive video performance through every frame of your production.



12X Optical Zoom & 2X Sensor Zoom

The zoom power of the PTC310HN reaches an incredible 24X (12X optical and 2X sensor zoom). It works even while the camera is panning and tilting, allowing you to highlight content and rapidly change shooting angles. Operate a closer and clearer video feed with the unbeatable PTZ performance of the PTC310HN.



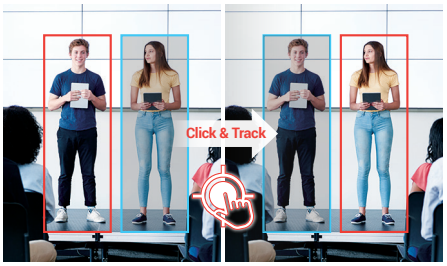
Human Detection AI

Welcome AVer's most advanced AI tool yet—Human Detection. This highly accurate processing function enables the PTC310HN to easily detect and capture human forms and moving objects in seconds. Never miss a tracking target again.



Click & Track

Redirect focus in an instant with the PTC310HN. Simply click on a target to quickly adjust the shooting angle and initiate precise tracking. This advanced feature is easy for anyone to operate via both remote control and intuitive Web UI.



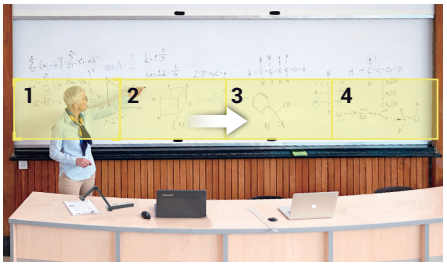
Presenter Mode

Track your target everywhere with Presenter Mode. This feature gives presenters the flexibility to leave the stage and interact with the audience, all while being continuously tracked. The camera stays locked on its target, even if other people or objects get in the way.



Zone Mode

Zone Mode enhances your ability to capture content on multiple displays. Create up to four Content Zones to steadily capture the content on display rather than the presenter's movements.



Product Specifications

Camera	
Image Sensor	1/2.8" 4K Exmor CMOS
Effective Picture Elements	8 Megapixels
Output Resolutions	4K/30, 4K/29.97, 4K/25, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/50, 720p/60, 720p/59.94, 720p/50
Minimum Illumination	0.4 lux (IRE50, F1.6, 30fps)
S/N Ratio	≥ 50 dB
Gain	Auto, Manual
TV Line	1400 (Center)
Shutter Speed	1/1 to 1/32,000 sec
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR
White Balance	Auto, Manual
Optical Zoom	12X
Digital Zoom	12X
Sensor Zoom	2X
Viewing Angles	DFOV : 78° (Wide) to 7° (Tele) HFOV : 70° (Wide) to 6° (Tele) VFOV : 42° (Wide) to 3° (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
Audio	
Channel	2ch Stereo
Codecs	AAC-LC (48 / 44.1 / 32 / 24K), G.711, PCM (8K)
Sample Rates	48 / 44.1 / 32 / 24 / 16 / 8 KHz
Web UI	
Live Video Preview	Yes
Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control
Camera/Image Adjustment	Exposure, White Balance, Picture
Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS
Warranty	
Camera	3 Years
Accessories	1 Year

AI Auto Tracking Functions	
Tracking Modes	Presenter Mode, Zone Mode
Interface	
Video Outputs	HDMI, IP, USB
Audio Outputs	HDMI, IP, USB
Audio Inputs	MIC in, Line in
General	
Power Requirement	AC 100 - 240V to DC 12V/5A
Power Consumption	18W
PoE	PoE+
Dimensions (W x H x D)	180.0 x 183.5 x 145.0 mm
Net Weight	1.7 (±0.1) kg
Application	Indoor
Tally Lamp	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 30fps
Network Video Compress Formats	H.264, H.265, MJPEG
Maximum Frame Rate	4K 30fps
Bit-Rate Control Modes	VBR, CBR (selectable)
Range of Bit-Rate Setting	512 Kbps to 32 Mbps
Network Interfaces	10 / 100 / 1000 Base-T
Multi-Stream Capability	2 (RTSP / Web Page), 1080p 60fps (max.)
Network Protocols	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP
NDI®|HX Capability	Yes (NDI HX2)
USB	
Connector	USB 3.0
Video Format	MJPEG
Maximum Video Resolution	2160p
USB Video Class (UVC)	UVC 1.1
USB Audio Class (UAC)	UAC 1.0
Software Tools	
IP Search and Configuration Tool	Support Windows® 7 or later

Package Contents

Camera, Remote Control, RS-232 In/Out Cable, Din 8 To D-Sub 9 Cable, Power Adapter, Power Cord, Cable Ties (x 5), Screws (x 10), Cable Fixing Plates (x 2), Ceiling Mount Brackets (x 2), Quick Start Guide

Optional Accessories

AVer CL01 PTZ Camera Controller, L-Type Wall Mount

** Specifications may vary depending on location and are subject to change without notice.*

Product Appearance

Front



Back



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Distributor/Dealer