

AVer



PTC310U

AI Auto Tracking PTZ Camera



TAIWAN EXCELLENCE
SILVER AWARD 2021



AI



PRECISION MATTERS

The PTC310U AI Auto Tracking PTZ Camera makes powerful and reliable Pro AV capability available to everyone. Drawing inspiration from the AVer Professional PTZ Camera family, the PTC310U features in-house AI functions like Presenter Mode and Zone Mode auto tracking, thanks to Human Detection processing. Combine the 12X Optical Zoom lens and 4K resolution with hybrid auto tracking and smooth PTZ functions for broadcasting, streaming, or recording. Your exciting journey of audio and video capturing starts here!



4K Ultra HD Resolution



12X Optical Zoom



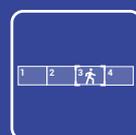
IP/HDMI/
USB/3G-SDI



Human Detection AI



Presenter Mode



Zone Mode



Intuitive Web UI



Exclusive Ceiling Mount

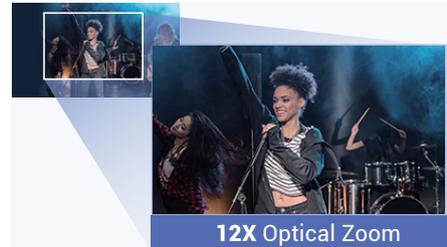
4K Output Resolution

Equipped with 4K resolution, the PTC310U provides ultra-precise auto tracking. The PTC310U also features a Sony sensor that maintains a truly impressive video performance through every frame of your production.



12X Optical Zoom

The zoom power of the PTC310U camera reaches an incredible 24X (including 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 PTC310U.



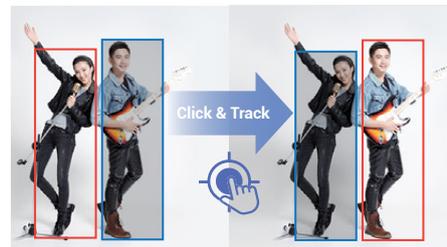
Human Detection AI

Welcome AVer's most advanced AI tool yet—Human Detection. This highly accurate processing function enables PTC310U 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 PTC310U. 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		AI Auto Tracking Functions	
Image Sensor	1/2.8" 4K Exmor CMOS	Tracking Modes	Presenter Mode, Zone Mode
Effective Picture Elements	8 Megapixels	Interface	
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	Video Outputs	3G-SDI, HDMI, IP, USB
Minimum Illumination	0.4 lux (IRE50, F1.6, 30fps)	Audio Outputs	3G-SDI, HDMI, IP, USB
S/N Ratio	≥ 50 dB	Audio Inputs	MIC in, Line in
Gain	Auto, Manual	General	
TV Line	1400 (Center)	Power Requirement	AC 100 - 240V to DC 12V/5A
Shutter Speed	1/1 to 1/32,000 sec	Power Consumption	18W
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR	PoE	PoE+
White Balance	Auto, Manual	Dimensions (W x H x D)	180.0 x 183.5 x 145.0 mm
Optical Zoom	12X	Net Weight	1.7 (±0.1) kg
Digital Zoom	12X	Application	Indoor
Sensor Zoom	2X	Tally Lamp	Yes
Viewing Angles	DFOV : 78° (Wide) to 7° (Tele)	Security	Kensington Slot
	HFOV : 70° (Wide) to 6° (Tele)	Remote Control	Infrared
	VFOV : 42° (Wide) to 3° (Tele)	Operating Conditions	Temperature : 0 °C to +40 °C Humidity : 20% to 80%
Focal Length	f = 3.9 mm (Wide) to 46.8 mm (Tele)	Storage Conditions	Temperature : -20 °C to +60 °C Humidity : 20% to 95%
Aperture (Iris)	F = 1.6 (Wide) to 2.8 (Tele)	IP Streaming	
Minimum Working Distance	0.3 m (Wide), 1.5 m (Tele)	Resolution	4K 30fps
Pan/Tilt Angles	Pan : ±170°, Tilt : +90° / -30°	Network Video Compress Formats	H.264, H.265, MJPEG
Pan/Tilt Speed (Manual)	Pan : 0.1° to 100° / sec, Tilt : 0.1° to 100° / sec	Maximum Frame Rate	4K 30fps
Preset Speed	Pan : 200° / sec, Tilt : 200° / sec	Bit-Rate Control Modes	VBR, CBR (selectable)
Preset Positions	10 (IR), 256 (RS-232 / RS-422 / IP)	Range of Bit-Rate Setting	512 Kbps to 32 Mbps
Camera Control - Interfaces	RS-232 (DIN8), RS-422 (RJ45), IP	Network Interfaces	10 / 100 / 1000 Base-T
Camera Control - Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP)	Multi-Stream Capability	2 (RTSP / Web Page), 1080p 60fps (max.)
Image Processing	Noise Reduction (2D / 3D), Flip, Mirror	Network Protocols	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP
Power Frequencies	50 Hz, 60 Hz	NDI® HX Capability	Yes (optional)
Audio		USB	
Channel	2ch Stereo	Connector	USB 3.0
Codecs	AAC-LC (48 / 44.1 / 32 / 24K), G.711, PCM (8K)	Video Format	MJPEG
Sample Rates	48 / 44.1 / 32 / 24 / 16 / 8 KHz	Maximum Video Resolution	2160p
Web UI		USB Video Class (UVC)	UVC 1.1
Live Video Preview	Yes	USB Audio Class (UAC)	UAC 1.0
Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control	Software Tools	
Camera/Image Adjustment	Exposure, White Balance, Picture	IP Search and Configuration Tools	Support Windows® 7 or later
Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS		
Warranty			
Camera	3 Years		
Accessories	1 Year		
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



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