



**HEARING  
EVERY WORD.  
SEEING EVERY  
DETAIL.**

**AVer MD331UI**

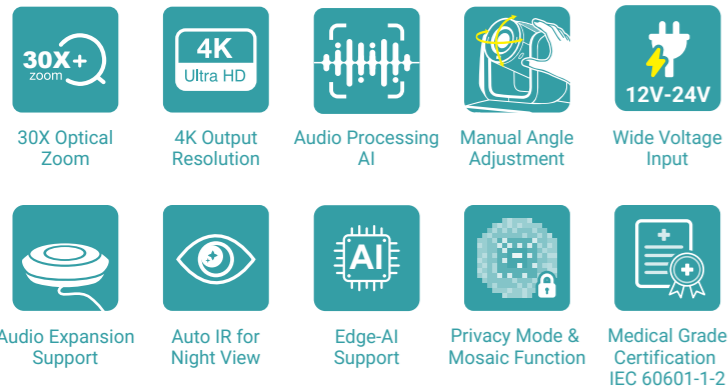
Medical Grade PTZ Camera



# AVer MD331UI

## Medical Grade PTZ Camera

Designed for virtual rounding and remote care, the MD331UI is built to meet the demands of fast-paced and unpredictable clinical environments. Beyond delivering lossless 4K Ultra HD clarity with 30X optical zoom, it features embedded two-way audio – and takes it further with AVer's Audio Processing AI, ensuring focused sound pickup on the patient. Compliant with IEC 60601-1-2 EMC standards, this medical grade PTZ camera also integrates an on-device clinical AI engine for real-time monitoring. When clinicians can see every detail and hear every word the patient says, care stays seamless – and every virtual round feels as natural as being there in person.



### Audio Processing AI: Hear Every Patient Clearly

Advanced Audio Processing AI captures the patient's voice clearly while minimizing environmental background noise, allowing remote clinicians to hear the patient without distraction.

### Effortless Camera Positioning: Zero-Lag Healthcare Workflow

Nurses can manually fine-tune the camera's position without needing to recalibrate, as the system retains its absolute positioning. This allows quick, intuitive adjustments while maintaining a smooth and uninterrupted care workflow.

\* Manual tilt of the camera head should not exceed 90°.

† This feature is designed for fine adjustments; we do not recommend frequent or continuous manual repositioning.

### Ready for Battery-Powered High-Mobility Care

Experience uninterrupted clinical workflows with a 12–24V wide voltage input and optional Wi-Fi® connectivity, enabling seamless integration with battery-powered medical carts. Image Stabilization ensures a steady, blur-free view for remote specialists – even when the cart is moving between wards.

\* By default, MD331UI supports the AVer Wi-Fi® Dongle. Third-party accessories may be supported through project-based system integration.

### Expandable Audio Coverage for Any Ward Layout

The MD331UI comes with a built-in two-way audio for seamless communication, and for larger environments or multi-bed wards where greater audio coverage is needed, an external speakerphone can also be connected to ensure every corner of the room is reached.

\* By default, MD331UI supports the AVer Expansion Speakerphone. Third-party accessories may be supported through project-based system integration.

# Product Specifications

Camera		Operating Conditions	
Image Sensor	1/2.8" 4K Sony Exmor CMOS	Temperature	0 °C to +40 °C ; Humidity : 20% to 80%
Effective Picture Elements	8 Megapixels	Storage Conditions	Temperature : -20 °C to +60 °C ; Humidity: 20% to 95%
Output Resolutions	Resolution: 4K / 1080p / 720p Frame Rates: 60 / 59.94 / 50 / 30 / 29.97 / 25	<b>Audio</b>	
Minimum Illumination	0.7 lux (IRE50, F1.6, 30fps)	Channel	2ch Stereo
S / N Ratio	≥ 50 dB	Codec	AAC-LC (48K)
Gain	Auto, Manual	Built-in Microphone	Yes, 2 Microphones
TV Line	1000 (Center / Wide)	<b>Interface</b>	
Shutter Speed	1/1 to 1/10,000 sec	Video Outputs	HDMI®, IP, USB
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR	Audio Outputs	HDMI®, IP, USB
White Balance	Auto, Manual	Audio Inputs	N/A
Optical Zoom	30X	<b>IP Streaming</b>	
Digital Zoom	1X	Resolution	4K 60fps
Total Zoom	30X	Network Video Compress Formats	H.264, H.265, MJPEG
Viewing Angles	DFOV: 75.5° (Wide) to 3.1° (Tele)	Maximum Frame Rate	4K 60fps
	HFOV: 68.0° (Wide) to 2.7° (Tele)	Bit-Rate Control Modes	VBR, CBR
	VFOV: 41.7° (Wide) to 1.5° (Tele)	Range of Bit-Rate Setting	512 Kbps to 64 Mbps
Focal Length	f = 4.3 mm (Wide) to 129 mm (Tele)	Network Interface	10 / 100 / 1000 Base-T
Aperture (Iris)	F = 1.6 (Wide) to 4.7 (Tele)	Multi-Stream Capability	2 (RTSP / Web Page), 4K 60fps (max.)
Minimum Working Distance	0.1 m (Wide), 1.2 m (Tele)	Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP
Pan / Tilt Angles	Pan: ±170°, Tilt: ±90°	<b>USB</b>	
Preset Positions	10 (IR), 256 (IP)	Connector	USB Type-B 3.2 Gen 1
Camera Control - Interface	USB, IP	Video Format	MJPEG, YUY2
Camera Control - Protocols	USB, VISCA, CGI (IP)	Maximum Video Resolution	2160p
Image Processing	Mirror / Flip / Freeze / WDR / BLC	USB Video Class (UVC)	UVC 1.1
Image Stability	Yes	USB Audio Class (UAC)	UVC 1.0
Power Frequencies	50 Hz, 60 Hz	<b>Web UI</b>	
AI Function		Live Video Preview	Yes
Modes	Face / Eyes Tracking, Fall / Bed Egress Detection	Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control
Privacy		Camera / Image Adjustment	Exposure, White Balance
Protection Modes	Local Privacy Mode, Mosaic Function	Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS
<b>General</b>		<b>Software Tools</b>	
Power Requirements	Adapter: AC 100 - 240V to DC 12V / 3.34A Power Input: DC 12-24V, 60W Max.	ViewCare	Supports Windows® 10 or later
Power Consumption	60 W	Room Management	Supports Windows® 7 or later, macOS® 11.6 or later
PoE	N / A	<b>Warranty</b>	
Dimensions (W x H x D)	195.0 x 222.4 x 155.0 mm	Camera	3 Years
Net Weight	2.6 kg	Accessories	1 Year
Housing Material	Anti-UV	<b>Package Contents</b>	
Application	Indoor	Camera, Remote Control, Power Adapter, Power Cord, USB 3.0 Type-A to B Cable, Quick Start Guide	
IR Night Vision	Yes	<b>Optional Accessories</b>	
Security	Kensington Slot	L-Type Wall Mount, Ceiling Mount Bracket, AVer CL01 PTZ Camera Controller, AVer Expansion Speakerphone, AVer Wi-Fi® Dongle	
Remote Control	Infrared		

\* Specifications may vary depending on location and are subject to change without notice.  
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 ‡ All HDMI trademarks and trade dress are registered trademarks or trademarks of HDMI Licensing Administrator, Inc.

# Product Appearance

Front



- 1 Camera Lens
- 2 Speaker
- 3 Microphone
- 4 Microphone Array
- 5 LED Indicator

Back



- 1 RJ-45
- 2 HDMI®
- 3 USB Type-A (USB Host)
- 4 USB Type-B 3.2 Gen 1
- 5 RJ-45 (Audio Expansion)
- 6 DC 12-24V
- 7 Kensington Slot



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