

“Sharp vision, seamless communication”

PTZ Professional Camera

Model: CLA-CAM12



4K
Quality



AI Presenter
Tracking



PoE



Remote
Control



Multiple
Interfaces



SUMMARY

• Engineered for versatility, this camera is the ideal solution for corporate negotiations, remote learning, telemedicine, and beyond. Featuring a 4K UHD CMOS image sensor paired with a 12x ultra-long zoom lens, it delivers crystal-clear visuals with exceptional detail, no matter the distance. Designed for seamless integration, the camera is equipped with a full-function USB interface, enabling quick and reliable connections to laptops, conference hosts, and other devices. This ensures effortless setup for remote communication, making it a powerful tool for modern collaboration and professional environments.

FEATURES

❖ 4K Ultra HD Image Quality

Powered by a high-quality 1/2.5-inch UHD CMOS sensor, the camera delivers stunning 4K Ultra HD visuals with exceptional clarity. With support for UVC PTZ control, it ensures precise and flexible operation for professional environments

❖ High-Quality Optical Zoom + Wide-Angle Lens

Equipped with a custom-built 8 million ultra-high-resolution lens, the camera offers a wide 71° horizontal field of view and up to 12x optical zoom. This combination provides sharp, detailed images whether capturing subjects up close or across the room.

- ❖ **AI Presenter Tracking**
Featuring proprietary technology, the camera intelligently identifies the speaker's figure, appearance, and outfit. As the presenter moves, it automatically tracks and keeps them centered in the frame. Even if interruptions occur or the speaker exits, the system quickly reacquires and resumes tracking upon reentry.
- ❖ **Power over Ethernet (PoE)**
Simplify installation with PoE capability, enabling power supply, control, and audio-video signal transmission through a single Ethernet cable. This reduces clutter and streamlines setup for professional deployments.
- ❖ **Advanced H.264 Encoding**
Supports H.264 streaming with Slice and SVC encoding modes, making it ideal for high-end USB conference video applications. This ensures efficient compression without compromising image quality.
- ❖ **Flexible Remote Control**
Multiple control options are available, including RS232 (with RS485 optional), network, and USB. This versatility allows users to manage camera settings with ease across different platforms.
- ❖ **Dual Streaming Capability**
The camera can simultaneously output two streams in formats such as YUY2, MJPEG, or H.264. This alleviates decoding pressure on the host system and ensures smooth, reliable performance.
- ❖ **Low-Light Performance**
Designed for challenging environments, the camera uses a CMOS image sensor with a 55dB signal-to-noise ratio and advanced 2D & 3D noise reduction. This technology minimizes image noise and delivers clear visuals even in dim lighting conditions.
- ❖ **Multiple Interfaces**
Offering maximum connectivity, the camera supports simultaneous output of three 4K ultra-clear video streams via USB 3.0, HDMI, and network interfaces. This ensures compatibility with a wide range of professional setups.

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SPECIFICATIONS

Main Features		Control Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P
Uncompressed Video Output	HDMI (optional): 4KP30fps,4KP29.97fps,4KP2 5,1080P30,1080P29.29, 1080P25	Power Interface	JEITA type (DC IN 12V) / USB Type-C (DC IN 5V/ PoE)

Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51M		Network Interface	
Scanning Mode	Progressive		Video Compression	H.265 / H.264 / MJPEG
Focal length	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6		Video Stream	First Stream, Second Stream
Digital Zoom	16x		First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576 etc.
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)		Second Stream Resolution	720x480, 320x240 etc.
Shutter	1/30s ~ 1/10000s		Video Bit Rate	First Stream: 32kbps~51200kbps
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR		Bit Rate Control	VBR, CBR
Backlight Compensation	Support		Frame Rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Digital Noise Reduction	2D&3D Digital Noise Reduction		Audio Compression	AAC
SNR	≥55dB		Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Horizontal FOV	71° ~ 8.2°		Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
Vertical FOV	42.7° ~ 4.5°		USB Features	
Pan Angle	±170°		Operating System Supported	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Tilt Angle	-30° ~ +90°		Color System / Compression	YUY2 / H.265 / H.264 / MJPEG
Pan Speed	2.7°~ 35.7°/S		Video Format	YUY2: 1440P@30fps (max.) MJPEG: 2160P@30fps (max.) H.264 AVC: 2160P@30fps (max.) H.264 SVC: 2160P@30fps (max.) H.265 AVC: 2160P@30fps (max.)
Tilt Speed	2.7°~ 31.5°/S		USB Audio	Support
Image Flip	Support		USB video Communication Protocol	UVC 1.1~1.5
Image Freeze	Support		UVC PTZ Control	Support

PoE+	Support	General Specifications		
Preset Position	255		Input Voltage	DC 12V/DC 5V/PoE(802.3af)
Preset Accuracy	0.1°		Input current	12V 1.0A(Max.) / 5V 1.5A(Max.)
Interfaces				
			Operating Temperature	-10°C ~ 40°C
HD Output	1×HDMI1.4b(optional)		Storage Temperature	-40 ~ 60°C
Network Interface	1x RJ45: 10M/100M/1000M adaptive Ethernet		Power Consumption	12W (Max.)
Audio Interface	1 x Line In: 3.5mm Jack		Dimension	144mm x 144mm x 166.9mm
USB Interface	1x USB3.0, type-C		Net Weight	1.41Kg