

“From boardrooms to stadiums—always in focus”

PTZ Professional Camera

Model: CLA-CAM30



SUMMARY

• Designed for modern communication and content creation, this professional 4K camera delivers exceptional performance across a wide range of applications including corporate meetings, academic presentations, educational recordings, professional broadcasting, and more. With ultra-high-definition clarity at 60fps and a powerful 30x optical zoom, it ensures every detail is captured with precision. Advanced AI humanoid tracking provides stable and intelligent subject focus, making it ideal for dynamic environments. Equipped with UHD CMOS sensors and a high-performance SoC platform, the camera offers superior image quality and seamless operation. Its versatility makes it perfectly suited for sports venues, press conferences, online live streaming, large-scale conferences, and remote education, offering a reliable solution wherever professional-grade visuals are required.

FEATURES

- ❖ **4K Ultra HD Image Quality**
Utilizing a new generation 1/1.8-inch UHD CMOS sensor with 8.42 million pixels, the camera delivers crisp 4K output at 60fps.

It also maintains backward compatibility with multiple resolutions, including 1080P and 720P, ensuring seamless integration across different systems

- ❖ **30x Optical Zoom**
The ultra-high-resolution telephoto lens provides a wide 59° horizontal field of view and supports up to 30x optical zoom. This allows for clear, detailed recording whether subjects are positioned close to the camera or at a distance.
- ❖ **AI Humanoid Tracking**
Powered by proprietary technology, the camera intelligently identifies the speaker's figure, appearance, and outfit. As the speaker moves, it automatically tracks them to keep the subject centered. Even if interruptions occur or the speaker exits the frame, the system quickly reacquires and resumes tracking upon reentry.
- ❖ **Virtual Studio Integration**

With free-d protocol compatibility, the camera transmits precise tracking data—including pan, tilt, zoom, focus, and aperture—to 3D production software. This enables seamless blending of real-world footage with virtual backgrounds and characters, creating immersive and interactive studio experiences.

❖ **Low-Light Enhancement**

A newly designed CMOS sensor with a 55dB signal-to-noise ratio effectively reduces image noise in dim environments. Combined with advanced 3D noise reduction, the camera ensures sharp, clear visuals even in challenging lighting conditions.

❖ **Dante AV-H Support (Optional)**

For professional audio-visual workflows, the camera can transmit high-quality audio and video in real time via Ethernet. It is fully compatible with Dante products and allows flexible, low-latency routing through Dante Controller using network time protocol.

❖ **NDI®HX Support**

Supporting advanced network video transmission technology, the camera offers plug-and-play deployment with low latency. It enables simultaneous transmission of audio, video, and control signals, simplifying setup and integration

❖ **Flexible Remote Control**

Multiple control options are available, including RS232, RS485, network, and USB. This ensures convenient and adaptable operation across different environments and user preferences.

❖ **Multiple Interfaces**

Connectivity is maximized with HDMI 2.0, 3G-SDI (supporting transmission up to 150 meters at 1080p30), USB, and LAN. These interfaces allow simultaneous output of three HD digital signals, ensuring reliable performance for professional applications.

❖ **Gravity Sensor**

Automatic image flipping function for flexible installation

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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; 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only

Uncompressed Video Output	HDMI:4K60P, 4K59.94P, 4K50P, 4K30P, 4K29.97P, 4K25P, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94; 3G-SDI:1080P60,1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25; 1080I60, 1080I59.94, 1080I50; 720P60, 720P59.94;	Power Interface	JEITA type (DC IN 12V)
Sensor	1/1.8 inches, CMOS, Effective Pixels: 8.42 Megapixels	Network Interface	
Scanning Mode	Progressive	Video Compression	H.265 / H.264 / MJPEG
Focal length	30x, f=7.1mm ~ 210mm, F1.61 ~ F5.19	Video Stream	First Stream, Second Stream
Digital Zoom	16x(Max.)	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 Second Stream: 32kbps~20480kbps
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR	Bit Rate Control	VBR, CBR
Backlight Compensation	Support	Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Digital Noise Reduction	2D&3D Digital Noise Reduction	Audio Compression	AAC
SNR	≥55dB	Audio Bit Rate	96Kbps, 128Kbps
Horizontal FOV	59.2° ~ 2.5°	Protocols	NDI® HX2, SRT, TCP / IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc.
Vertical FOV	34.6° ~ 1.4°	USB Features	

Pan Angle	±170°	Operating System Supported	Windows 7, Windows 8, windows 10, windows 11, MacOS 11.6.6 or higher versions, Ubuntu 18.04.4 lts or higher versions, Android 8.0.0 or higher versions
Tilt Angle	-30° ~ +90°	Color System / Compression	YUY2 H.265 / H.264 / MJPEG
Pan Speed	1.7° ~ 100° /s	Video Format	YUY2: Max.1080P5(USB2.0) YUY2: Max.1080P30(USB3.0); H.264 : Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30
Tilt Speed	1.7° ~ 69.9° /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/PoE+(802.3at)
Preset Accuracy	0.1°	Input current	2A (Max.)
Interfaces	1x HDMI: Version 2.0;1x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard	Operating Temperature	0 ~ 40° C
		Storage Temperature	-40 ~ 60°C
Network Interface	1x RJ45: 10M/100M/1000M adaptive Ethernet	Power Consumption	18W (Max.)
Audio Interface	1 x Line In: 3.5mm Jack; 1 x Line Out: 3.5mm Jack	Dimension	170mm x 196mm x 228mm
USB Interface	1 x USB2.0, Type-A, 1 x USB3.0, Type-B	Net Weight	1.5Kg