4K UHD 30FPS
4K 30fps

Dual-camera Collaboration

Intelligent Tracking

Automatic Program Direct

AI Automatic Generate Whiteboard Video Stream

UHD Intelligent Teaching Camera

MODEL: LVC031E

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MAIN FEATURES

4K UHD VIDEO QUALITY

The camera utilizes a 1/2.7" high-quality 4K CMOS sensor with 8.31 Megapixels, providing an ultra-clear video teaching experience.

AI TRACKING CAPTURE

The camera is equipped with AI algorithms for detecting human heads, faces and bodies. The teacher unit can automatically track and capture the teacher's movements, unaffected by student movements or the presence of large screens. The student unit can accurately detect student standing actions, regardless of other student movements.

INTELLIGENT WHITEBOARD GENERATION

During a class, the camera can automatically remove any obstruction of the whiteboard by capturing human figures, providing real-time unobstructed video streams and snapshots of the whiteboard for easy viewing by students.

INTELLIGENT SWITCHING STRATEGY

The camera features an AI-based automatic switching strategy, allowing real-time switching of different perspectives based on the dynamic conditions in the classroom. This includes panoramic and close-up views of the teacher, panoramic and close-up views of the students and close-up views of the teacher's whiteboard. The switching process is as smooth as manual broadcasting.

DUAL-UNIT DUAL-PERSPECTIVE

The camera offers both a teacher unit and a student unit. The teacher unit has a 44° field of view and supports autofocus, while the student unit has a 95° field of view, capturing the entire classroom scene.

EASY INSTALLATION AND WIRING

The camera supports PoE (Power over Ethernet) connectivity, allowing or a simple and efficient installation. With its compact design, it doesn't take up much space in the classroom. The camera also offers a variety of interfaces, making it compatible with existing school equipment such as large screens, speakers, and monitoring systems.

CAMERA

Sensor	1/2.7", CMOS, 8.31 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens One (For Teacher)	Focal length: f=7.2mm, Wide Angle: 44°
Lens Two (For students)	Focal length: f=2.8mm, Wide Angle: 95°
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
EPTZ	Support
Auto-Focusing	Lens one Support
PoE-Powered	Support
Digital Zoom	8X

USB FEATURES

Operating System	Windows 11, Windows 10, Windows XP, Windows Vista, Windows 7, Windows 8, Mac OS X, Linux
Color System / Compression	H.264 / MJPEG
Video Format	MJPEG: Max 2160P30fps
USB Audio	UAC1.0
USB Video Communication Protocol	UVC 1.1 ~ UVC 1.5

IPC FEATURES

Video Compression	H.265 / H.264 / MJPEG
Video Stream	Primary video stream, Secondary video stream, Tertiary video stream, Quaternary video stream
Primary Video Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360, 320x240, 320x180

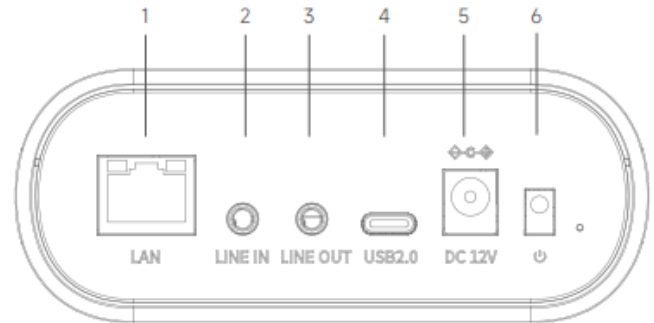| Secondary Video Stream Resolution	3840x2160,1920x1080,1920x1080,1280x720,1024x576,720x576(50Hz),720x480(60Hz),720x408,640x360,480x270
Tertiary Video Stream Resolution	1920X1080,1280X720,1024x576,960x540,720x576(50Hz),720x480(60Hz),720x408,640x360,480x270,320x240,320x180
Quaternary Video Stream Resolution	1024x576,960x540,720x576(50Hz),720x480(60Hz),720x408,640x360,480x270,etc.
Video Bit Rate	32Kbps ~ 16384Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	1~30fps
Audio Compression	AAC / G.711a
Audio Bit Rate	96Kbps, 128Kbps
Support Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB28181, Multicast,etc.

INPUT / OUTPUT INTERFACE

USB	1x USB 2.0; Type-C
Network Interface	1x RJ45: 10M/100M Adaptive Ethernet, PoE support
Audio Interface	1x 3.5mm LINE IN 1x 3.5mm LINE OUT
Power Jack	DC005 (DC 12V)
Indicator light	Power indicator light
Infrared Interface	Support

GENERAL SPECIFICATION

Input Voltage	DC 12V / PoE (802.3af)
Input Current	0.5A (Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6W (Max)
MTBF	>30000H
Dimension	110mm (W) x 96mm (D) x 44mm (H)
Weight	0.2kg

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1 —— LAN
2 —— LINE IN
3 —— LINE OUT
4 —— USB 2.0
5 —— DC 12V
6 —— Indicator Light

Disclaimer

Affected by product configuration and manufacturing process, the actual body size/body weight may be different, please refer to the actual product.
The product images in this specification are for illustrative purposes only. The actual product effect (including but not limited to appearance, color, size) may be slightly different, please refer to the actual product.
In order to provide accurate specifications as far as possible, the text description and picture effects of this specification may be adjusted and revised in real time, so as to match the actual product performance, specifications and other information.

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