

Collab 4K Ultra

ULTIMATE HIGH DEFINITION 4K PTZ CAMERA



Market Leading 4K PTZ Video Conferencing Camera With Vivid Lifelike Video Quality.

Collab 4K Ultra HD camera is featured with advanced ISP processing technology and algorithm to provide high quality image and smooth motion. It supports H.264 / H.265 encoding which makes motion video more fluent and clear under low bandwidth conditions.

- **4K Ultra HD**
 1/2.8 & 1/2.5 inch high quality 4K SONY CMOS sensor or; 8.51 megapixel resolution is up to 4K (3840x2160) and compatible with 1080P, 720P and other resolutions. 4K 60FPS.
- **Optical Zoom Lens**
 12X and 5X optical zoom lens, with 70° & 80° FOV without distortion.
- **Leading Auto Focus Technology**
 Advanced and leading algorithm enables the camera auto focus fast and accurately.
- **Low Noise and High SNR**
 Low noise CMOS ensures super high SNR image. The advanced 2D /3D noise reduction technology reduces the noise while ensuring high image clarity.
- **Multiple Video Outputs**
 HDMI, USB3.0 and LAN support audio.
- **Multiple USB Compression Encoding Format**
 YUY2 MJPEG H.264 NV12 video encoding formats.
- **Multiple Audio Compression Standard**
 Audio in supports AAC, MP3 and G.711A audio compression ; 8000 16000 32000 44100 48000 sampling frequency.
- **Built in gravity sensor**
 Built in gravity sensor supports PTZ auto flip function, easy to install.
- **Multiple network protocol**
 Support s ONVIF, GB/T28181, RTSP, RTMP protocols; RTMP push mode, easy to be connected to streaming server (Wowza FMS)FMS); RTP multicast mode; VISCA control protocol.
- **Control Interface**
 RS422 (compatible with RS485); RS232 in & out ; RS232 cascade connection.

Collab 4K Ultra

TECHNICAL SPECIFICATION

	Collab 4k Ultra 12	Collab 4k Ultra 5
Optical Zoom	12X Zoom	5X Zoom
FOV	Horizontal 6.55°(tele)~69.4°(wide) Vertical 3.66° (tele)~42.8°(wide)	Horizontal 26.51°(tele)~79.18°(wide) Vertical 15.29°(tele)~49.22°(wide)
Aperture	F1.6 F2.8±5%	F2.0 F2.8±5%
Image Sensor	1/2.8 Inch SONY CMOS Sensor	1/2.5 Inch SONY CMOS Sensor
Effective Pixels	8.51M; 16:9	
Video Format	HDMI/SDI video format: 4KP60, 4KP50, 4KP30, 4KP25, 1080P60, 1080P50, 1080i 60, 1080i 50, 1080P30, 1080P25, 720P60, 720P50 USB3.0 Video Output Format: YUY2/NV12: 1920×1080P30 1280×720P30 1024×576P30 960×540P30 800×448P30 640×360P30 640×480P30 320×176P30 MJPEG/H.264: 1920×1080P30 1280×720P30 1024×576P30 960×540P30 800×448P30 640×360P30 640×480P30 320×176P30 USB3.0 downward compatible USB2.0: YUY2/NV12: 640×360P30 640×480P30 320×176P30 MJPEG/H.264: 3840×2160P30 1920×1080 P30 1280×720P30 1024×576P30 960×540P30 800×448P30 640×360P30 640×480P30 320×176P30	
Min Illumination	0.05Lux (F1.8, AGC ON)	
DNR	2D & 3D DNR	
White Balance	Auto/Manual/One Push/Specific Color Temperature	
Focus	Auto/Manual/One Push	
Exposure Mode	Auto/Manual/Shutter Priority/ Aperture Priority/Brightness Priority	
Aperture	F1.8, F11, Close	
Shutter Speed	1/25 1/10000	
BLC	OFF/ON	
Dynamic Range	OFF/Dynamic Level Adjustment	
Video Adjustment	Brightness, Colour, Saturation, Contrast, Sharpness, B/W mode	
SNR	≥50dB	
PTZ Parameters		
Pan Rotation	-170° ~ +170°	
Tilt Rotation	-30° ~ +90°	
Pan Control Speed	-0.1°/s ~ 120°/s	
Tilt Control Speed	-0.1°/s ~ 80°/s	
Preset Speed	Pan: 120°/s, Tilt: 80°/s	
Preset Number	255 Presets (10 presets by remote control)	

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Interface Features		
Interfaces	HDMI, LAN(POE), USB3.0 (Type B, compatible with USB2.0), A IN, RS232 in & out; RS422 (Compatible with RS485), Dial switch, DC12V, Power Switch	
Video Compression	LAN: H.264, H.265 / USB 3.0: MJPG, H264, YUY2, NV12	
Audio-in Interface	Double track 3.5mm linear Input	
Audio Out	HDMI, LAN, USB3.0	
Audio Compression	AAC, MP3, G.711A	
LAN	10M/100M/1000M adaptive Ethernet port, support POE and audio / video output	
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181, VISCA Control Protocols, Remote Upgrade, reboot and reset	
Control Interface	RS232 IN, RS232 OUT, RS422 (RS485)	
Serial Protocol	VISCA/ Pelco D / Pelco P; Baud rate: 115200/38400/9600/4800/2400	
USB Communication Protocol	UVC (video) UAC (audio)	
Power Interface	HEC3800 (DC12V)	
Power Adapter	In: AC110V AC220V ; Out: DC12V/2.5A	
Input Voltage	DC12V±10%	
Input Current	<1A	
Power Consumption	<12W	
Other Parameters		
Storage Temp	-10°C ~ +60°C	
Storage Humidity	20% ~ 95%	
Working Temp	-10°C ~ +50°C	
Working Humidity	20% ~ 80%	
Dimension	181 (L) x 115 (W) x 149 (H) mm	
Usage	1.15 kg	
Other Parameters		
Standard	Power supply & adapter, RS232 Cable, USB3.0, IR Remote control, User Manual	
Optional	Wall/Ceiling Mount	



Use Any Computer Conferencing App
Collab cameras makes applications like Zoom Video Conference, as well as Microsoft Lync, Skype, and GoToMeeting, come alive with realistic full HD wide-angle video quality. Plug it directly into our Collab LaunchPad Display with built-in Collab Core or other PC with USB 3.0, without a separate capture device.

