

Horizon Series

HVC30 | 4K UHD 30X Advance PTZ Video Conference Camera



Key features

- Superior Imaging: 8.42 MP CMOS sensor with 30X optical zoom and 16X digital zoom.
- Wide FOV: Horizontal 3°–59°, Vertical 1.68°–33°, Diagonal 3.54°–65.9°.
- Image Enhancements: Auto white balance, backlight compensation, 2D/3D digital noise reduction.
- Precise PTZ Control: $\pm 165^\circ$ pan, -30° to $+90^\circ$ tilt, 255 preset positions (0.1° precision).
- Multiple Video Outputs: 4K HDMI, 3G-SDI, USB 3.0, H.264/H.265 video encoding.
- Networking: PoE, RTSP, RTMP, Onvif, AI tracking, remote control via RS-232C/RS-422.
- Compact & Durable: Operating temperature 0°C–50°C,

Product Overview

The Macsys UVC30 is a professional-grade PTZ Conferencing camera built to meet the demands of high-quality video production, broadcasting, and live streaming. Featuring an 8.42 MP CMOS sensor and an impressive 30X optical zoom, the UVC30 excels at capturing both wide and detailed shots with incredible clarity. The camera offers a wide field of view from 3° to 59° horizontally, making it versatile enough for a variety of environments. With advanced image enhancement features such as backlight compensation, 2D/3D noise reduction, and AI tracking, the UVC30 delivers reliable, high-quality visuals in diverse lighting conditions. Its multiple video output options include 4K HDMI, 3G-SDI, and USB 3.0, providing flexibility for a variety of applications. With PoE support, 255 preset positions, and precise pan-and-tilt control, the UVC30 ensures smooth, dynamic performance and ease of use for remote video production.

Technical Specification

Features	Detail
Sensor	1/2.8" Progressive CMOS, 8.42 MP
Optical Zoom	30X
Digital Zoom	16X (max)
Focus	f = 5.2–148.4 mm
Iris	F1.5–F4.8
HOV (Horizontal FOV)	3°–59°
HOV (Vertical FOV)	1.68°–33°
HOV (Diagonal FOV)	3.54°–65.9°
Shutter	1/25–1/10,000 s
White Balance	Auto, Shutter priority
Backlight Compensation	Support
Digital Noise Reduction	2D/3D
S/N Ratio	≥50dB
Image style	Normal, Clear, Bright, Beauty
Image Flip	Image reverse, Mirror flip
Screen display mode	Horizontal, vertical
AI	AI tracking
Pan movement	±165°
Tilt Movement	-30° - +90°
Pan movement speed	1.r - 86.7°/S
Tilt movement speed	1.7° - 52.2°/S
Image freeze	Support
PoE	Support
Preset position	255 (including special preset position)
Preset position precision	0.1°
Video output	HDMI: 4KP30fps, 4KP25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50 3G-SD1: 1080P60rps, 1080P50,1080P30,1080P25,720P60,720P50
OSD Menu	LENS OSD, DOME OSD

Technical Specification

Features	Detail
Video output interface	
HDMI	1 x HDMI 1.4b x 1
3G-SDI	1 x 3G-SDI; BNC type, 800mVp-p, 750, SMPTE 424M standard
LAN	1 x RJ45: 10M/100M/self-adaptable LAN
Audio input	1 x Line IN, 1 x 3.5mm audio input socket
USB	1x USB 3.0 Type-C
Power supply	JEITA (DC IN 12V)
Communication control interface	1x RS-232C IN: 8 pin DIN, 30m max, VISCA/PELCO-D/PELCO-P protocol 1x RS-232C Out: 8 pin DIN, 30m max, VISCA/PELCO-D/PELCO-P protocol 1x RS422: 4 PIN Phoenix, 1200m max distance, VISCA/PELCO-D/PELCO-P protocol
Baud Rate	38400bps, 9600bps, 4800bps, 2400bps
Network features	
Video encoding	H.265/H.264/MJPEG
Streaming	Main stream: 3840x2160,1920x1080,1280x720 Sub-stream: 704x576,640x480,640x360,576x480,352x288,320x240,320x180
Video bit rate	Main stream: 100bps-40960kbps Sub-stream: 100bps-4096kbps
Bit rate control	Variable or fixed bit rate
Frequency	5fps-30fps
Audio encoding	AAC, G.726, G.711a, G.711u
Audio bit rate	32kbps, 40kbps, 48kbps, 64kbps, 96kbps, 128kbps
Network protocols	TCP/IP, HTTP, RTSP, RTMP/RTMP, Onvif, DHCP, Multicast, GB/T28181
USB connector info	
Support OS	Windows7, Windows8, Windows10, Windows11, MacOS, Linux2.4.6 or later versions, Kylin, UOS, Android included UVC related driver versions.
Color space	YUY2/H.264/MJPEG

Technical Specification

Features	Detail
Video output format	H.264,MJPEG,YUY2: 3840x2160,2560x1440,1920x1080,1600x896,1280x720,1024x768, 1024x576,720x576,960x540,848x480,800x600,800x448,640x480,640x360,480x272, 325x288, 320x240 H.264,MJPEG: 3840x2160,2560x1440 support 30fps, 25fps, 20fps, 15fps, 10fps, 5fps. Other resolutions support 60fps, 30fps, 25fps, 20fps, 15fps, 10fps, 5fps. YUY2: 3840x2160,2560x1440 support 15fps, 10fps, 5fps. Other resolutions support 60fps, 30fps, 25fps, 20fps, 15fps, 10fps, 5fps.
USB video	UVC1.0, UVC1.1, UVC1.5
UVC PTZ Control	Support
General info	
Power supply	JEITA Type DC12V 2A or PoE(802.3af)
Consumption	< 12W
Working Environment	Working temperature 0°C-50°C, working humidity 0%-95%, Storage temperature -40°C-60°C
Dimension (LxWxH)	224mm.132mmx162mm
Weight	1500g
Color	Gray



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