

Horizon Series

HVC21 | 4K UHD 21X Advance PTZ Video Conference Camera



Key features

- High-Resolution Imaging: 8.42 MP CMOS sensor with 21X optical zoom and 16X digital zoom.
- Wide FOV: Horizontal 4.2°–59.8°, Vertical 2.36°–33.63°, Diagonal 4.88°–66.92°.
- 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: HDMI, 3G-SDI, USB 3.0, 4K video support, H.264/H.265 encoding.
- Networking: PoE, RTSP, RTMP, Onvif support, remote control via RS-232C/RS-422.
- Compact & Durable: Operating temperature 0°C – 50°C ,

Product Overview

The Macsys UVC21 is a high-performance PTZ Conferencing camera designed to deliver superior image quality and flexibility for a range of professional applications including live streaming, broadcasting, and video conferencing. Equipped with an 8.42 MP Progressive CMOS sensor and 21X optical zoom, the UVC21 provides outstanding resolution and wide-angle coverage, with a horizontal field of view (FOV) ranging from 4.2° to 59.8°. The camera's advanced image processing features such as backlight compensation and 2D/3D digital noise reduction ensure crystal-clear performance even in challenging lighting conditions. Offering multiple video outputs including 4K HDMI, 3G-SDI, and USB 3.0, the UVC21 integrates seamlessly into various video setups. Additionally, its PoE support, 255 preset positions, and precise PTZ control (with $\pm 165^\circ$ pan and -30° to $+90^\circ$ tilt) make it an ideal choice for applications requiring remote control and flexibility.

Technical Specification

Features	Detail
Sensor	1/2.8" Progressive CMOS, 8.42 MP
Optical Zoom	21X
Digital Zoom	16X (max)
Focus	f = 5.33–107 mm
Iris	F1.65–F3.8
HOV (Horizontal FOV)	4.2°–59.8°
HOV (Vertical FOV)	2.36°–33.63°
HOV (Diagonal FOV)	4.88°–66.92°
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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