4K HDMI PTZ Video Camera

Crisply-detailed 4K Pan-Tilt, Optical Zoom Streaming Video Camera with TOF

ZowiePTZ streaming video camera is the latest 4K Ultra HD PTZ camera from Zowietek, featuring HDMI output and simple versatile controls for video conference and live video production workflow. It is very cost effective and professional grade to replace existing 1080p cameras to enter 4K video era.

ZowiePTZ equips Sony Ultra-HD 4K back-illuminated and stacked Exmor R CMOS sensor that offers crystal clear and rich color accurate video with improved low light sensitivity. It delivers truly stunning pictures in all shoot modes and conditions. The camera varies in 12x, 18x lossless optical zoom lens that is capable of zoom-in with high magnification for detailed close-up view. The camera can output 4K quality video via HDMI and simultaneously with embedded audio.

The camera is also IP based camera. The video streaming is an easy way to connect live video in LAN, feed to OBS, vMix, zoom, teams, Skype, YouTube and Facebook etc.

Features most comprehensive web control with live web preview, shortcut of streaming, recording, OSD. Full control ZowiePTZ camera, all from a super easy to use web by tablet, smartphone, PC, web Joystick and Xbox joystick. Pan, Tilt, Zoom, Preset set/recall, preview, all major camera control can be easily, user friendly performed at the ZowieWeb UI.

Built-in front tally light for multi-camera live production ensure on air talent will always know which one is live. And the tally status can instantly visible and live at all phone, PC and Pad connected, far more than 360 degree. Built-in MIC is also available.

The Neutral Density-ND filter mount is designed to use any density standard ND, UV or polarized lens to assure capturing high-quality video footage possible in any light conditions.

ZowiePTZ can be controlled remotely via IP VISCA , or via serial PELCO, VISCA RS232, RS485/422 from a PC or dedicated camera controller. Meanwhile, the camera can also controlled.

RESTful API is available for own DIY automation and system integrator. The API is across all Zowietek Ecosystem of PTZ cameras, POV cameras, encoders, decoders and future cloud support. Plus, the discover feature can discover all above devices and display their name, IP in a glance.

The camera can be powered by either DC or PoE, this make it can be power up to one hundred meters away, accessed and controlled by network. Single cable for Video, Audio, Power and Tally.

The ZowiePTZ is a affordable professional grade PTZ camera that can be used in a wide variety of broadcast and professional A/V applications.

Highlights:

◇ Sony Ultra-HD 4K back illuminated and stacked 1/2.3" sensor
◇ Crisply-detail, low noise 4K video
◇ High quality 12x, 18x optical zoom lens
◇ Support Zoom, Teams, Meet, Webex
◇ Built-in tally light PVW/PGM in multi-camera productions
◇ AAE, ASE, AE and manual multiple exposure modes with zone option
◇ Auto, manual, color temp, one push white balance
◇ Multiple focus zones, Auto, Manual, One Push focus supported
◇ Fast, precise assistant auto-focus with TOF (Time-of-FIght)
◇ Simultaneous 4K HDMI outputs with embedded audio
◇ Up to 4K30 hardware video encoder
◇ H.264 HP/MP/BP or H.265/HEVC MP codec
◇ Up to 50mbps bitrate, high bandwidth video stream for best quality
◇ RTSP, SRT, RTMP(s) steaming up to 4K30
◇ Low latency SRT streaming
◇ Direct standalone streaming to CDN like YouTube etc, no PC required.
◇ Video scale down, Vertical/Portrait crop and rotation streaming support
◇ Simultaneous live out in different RTMP SRT RTSP and multiple CDN
◇ Adaptive AAC audio for both embedded audio and analog
◇ Analog stereo line in audio input
◇ Support USB Microphone
◇ 255 preset position and 10 shortcuts supported
◇ RS232/485/422 PELCO/VISCA, IP VISCA remote control
◇ Simple setup and configuration via login protected web interface
◇ Comprehensive control via by PC, smartphone, iPad, Controller and Panel
◇ Live video feed to PC, phone and iPad
◇ Flexible WYSIWYG OSD, text, logo and stamp image overlay, user-friendly
◇ Automatic gyroscope mount direction detection
◇ Rich and clear working or operating status in front LED display at a glance
◇ Easy access and plug-and-play installation by mDNS or hotspot
◇ Standard ND UV Polarized lens thread
◇ With standard camera tripod mount
◇ RESTFUL API supported for DIY automation and system integrator
◇ OEM/ODM support

4K HDMI PTZ Video Camera

For Video Conference, multiple Streaming and live video Preview

Specification

Power :

Input	: 12VDC 1A max, 12W Max. POE (IEEE 802.3af)
Consumption	: ~8W Typical

Camera :

Image Device	: Sony 1/2.3" Back-illuminated and stacked Exmor R CMOS
Effective Pixels	: 3840(H) x 2160(V)
Aperture/IRIS	: F2.4, F1.67-3.67
Electronic Shutter	: AUTO, 1/25(30), 1/50(60), 1/90, 1/100, 1/120, 1/125, 1/180, 1/250, 1/300, 1/500, 1/600, 1/725, 1/1000, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000
Lens Zoom Ratio	: 12x, 18x
Focal Length	: f3.85-46.2mm, f5.5-99mm
FOV(D/H/V)	: 12x, Wide:81.1°/73.0°/43.1°, Tele:7.99°/6.97°/3.92° 18x, Wide:63.1°/51.9°/39.7°, Tele:3.7°/3.0°/2.2°
Gamma Control	: 9 options
Noise Reduction	: 2D/3D, 8 levels
White Balance	: Auto, One Push, R/B Gain, Color Temp, Lock
Color Temp.	: 3000-6500K
Focus	: Auto/Manual/One Push with AF Lock
Focus Zone	: 6 zones and Point Focus
TOF-assisted focus	: 12x only
Exposure	: AE/AAE/SAE/M with AE lock
Mirror/Flip	: Automatic/Manual
Style	: 7 options
Control	: English/Chinese IR OSD Menu
Flicker Cancel	: Auto/50/60
ND/UV/PL Mount	: 58mm

Video :

Video Encoder	: H.264 HP/MP/BP, H.265 MP, MJPEG Baseline
Resolution	: 4K2160p25/30, 1080p25/30/50/60 1080i50/60, 720p50/60
Bit Rate	: Max. 50Mbits/s, adjustable
Frame Rate	: 24/25/30fps, 50/60fps for 1080/720p
Codec	: H.264/265
Rate Control	: CBR/VBR
Live Preview	: Web, HDMI
OSD	: WYSIWYG editor

Network : *Some model don't have Network

LAN	: 100/1000Mbps Gigabit
WIFI	: 802.11a/b/g/n/ac, Dual Band
Bluetooth	: V5.0
WEB	: http, https

Streaming :

Streaming Out	: RTMP/SRT*/RTP/UDP/RTSP, SRT
Bit Rate	: Max. 50mbits/s, adjustable
Main Video Stream	: Up to 4K30
Secondary Stream	: Up to 720p
Record Format	: mp4, mov, ts
Storage	: TF, USB and NAS
Rotation	: 0/90/180/270°, native vertical streaming
UVC	: MJPEG up to 1080p60, H.264 up to 4K30

Video :

HDMI Out	: 1.4b, 4:2:2(YCbCr)

Audio :

Sampling	: 32, 44.1, 48KHz
Encoder	: AAC, MP3, 16bit
Bitrate	: 32-192kbps
Line Input	: 0.7VRMS，20K, 2CH，AGC
Microphone	: Int. Dual MIC omni-direction, 2.0V bias
Source	: Line In, MIC (External Power Bias)
Audio Output	: HDMI

Pan/Tilt and Control :

Protocol	: IP VISCA, VISCA, Pelco P/D, OnVIF IR, RESTFUL API
Control	: Phone, Pad, PC, Controller, Web, IR
OSD Menu	: Support
PAN/Tilt	: +/-173°, +90°/-53° Adaptive
P/T Speed	: P: 0.05 to 100°/s, T: 0.05 to 50°/s
Preset Position	: 255, 0 for home position
Preset speed	: 10 levels

Software :

Firmware	: Upgradeable, Linux OS

Interface :

Power	: 1 x JEITA, DC IN
USB	: USB TYPE A, Right Angle
HDMI Output	: 1 x TYPE A, Receptacle
RS485/422	: 1 x Phoenix Port 4, 3.81 pitch, Tx/Rx
VISCA	: 2 x MDIN-8 Female, Tx/Rx
Audio In	: 1 x 3.5mm Jack
Network Optional	: 1 x RJ45, Gigabit, PoE
IR	: 1 x Remote Control
Tally	: 1 x Auto/Manual, Top-Front
Visible	: 2 x LED, bi-color Power and Status

Physical and Environment

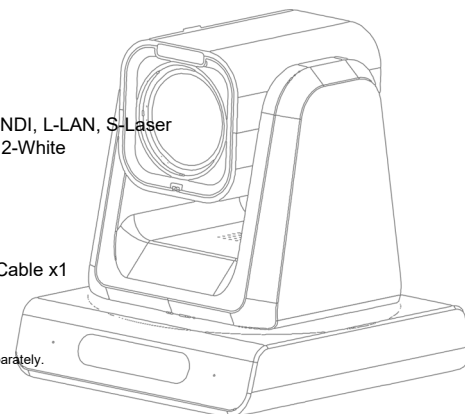|	
Size (W x D x H)	: 161 x 183 x 186mm (6.34" x 7.2" x 7.32")
Weight	: 1.294kg (2lb 13.64 oz)
Operating	: 0°C to 45°C(32°F to 113°F), Indoor
Storage	: -20°C to 60°C(-4°F to 140°F)
Mount	: 1/4"-20UNC tripod, Ceiling and Wall mount
Material	: Plastic, Dark gray and Silver

Certification
CE, FCC

Ordering
30671-XYZ
Z=1-12x, 2-18x
Y=(VNLS)$_{10}$: V-Vertical, N-NDI, L-LAN, S-Laser
X=0-Black, 1-Silver/Black, 2-White

Accessories
Power Adapter x 1
Wall Mount Set x1
RS232 to MDIN-8 VSICA Cable x1
USB A to A Cable x1
Phoenix Plug x 1
Quick User Guide
*Accessories is optional and sold separately.

* All specifications are subject to change without notice.
* Accessory supply may be different for different product options.
* Actual object may differ from what you see from the catalog.