

POVZoom - 4K Optical Zoom Camera

Optical Zoom, Auto Focus, Ultra compact, POE, multiple streaming and NDI@HX3

ZowieCAM 4K POVZoom camera crafted in an compact, durable aluminum body. It is the universal 4K Ultra HD POV 18x/25x optical zoom camera with streaming capability plus featuring NDI@HX3, PoE and distinct tally light. It is rugged, small form-factor, light weight and professional for critical streaming applications. It is cost effective, easy to use, user friendly with top, bottom and side standard tripod mounts. ZowieCAM supports popular USB Type-C charger, PoE 802.3af, WIFI6 and a range of innovative modern features. It is a standalone streaming IP camera with HDMI, SDI UVC output, no PC required.

The POVZoom has two standard 1/4" tripod mounts and gyroscope detection. The design makes it flexible to mount anywhere but always with correct video direction automatically.

The camera features affordable 18x/25x optical zoom Lens, variable aperture and auto focus plus 16x digital zoom capability. It assures the video always crisp, focus sharp with proper video size. That makes it so flexible to fit various applications.

The Sony Ultra-HD 4K back-illuminated and stacked sensor offers crystal clear and rich color accurate video with improved low light sensitivity. It has 4K HDMI, 3G SDI and NDI output simultaneously with embedded audio.

Streaming on-the-go, turn compact ZowieCAM into NDI enabled real-time, low-latency high-quality video over IP workflow. NDI@HX3 is even better than or equivalent to USB camera. It allows seamless integration of the camera to any NDI environments over a single network cable. It can also work as a webcam and record video to TF or NAS.

The camera can be powered by any handy USB type C power adapter, any DC power adapter via type C to DC adapter or PoE up to 100 meters. Single cable for Video, Audio, Power and Tally in addition to NDI. All above makes it can be easily installed anywhere.

Build-in innovative large touch LCD screen can help to setup the camera quickly and conveniently in the field. You can even watch the camera video and setup the camera by the phone besides HDMI or SDI monitor.

Cut the Cord, Keep the Quality. Stop compromising on wireless video. The POVZoom Camera leverages Wi-Fi 6 with 2T2R MIMO technology to double your data efficiency. This massive boost in throughput allows you to stream high-bitrate NDI@HX3 signals with the same stability and clarity you'd expect from a wired connection.

The camera has built-in Tally light for multi-camera live production. It supports VISCA over IP or NDI full control from a distance. The Tally can sync to vMix, OBS and Tricaster.

The state-of-art, all-in-one ZowieCAM POVZOOM cameras offer system integrators, streaming professionals, scientific researchers and OEM partners a flexible and affordable solution to stream high quality video over network and video source.



Highlights :

- ◆ Innovative large touch LCD screen control and setting in the field
- ◆ 18x/25x optical zoom lens with auto focus in POV camera
- ◆ Sony Ultra-HD 4K back illuminated and stacked 1/2.3" sensor
- ◆ Crisply-detail, low noise 4K video
- ◆ Built-in tally light PVW/PGM in multi-camera productions
- ◆ Accurate auto exposure with zone option
- ◆ Auto, manual, color temp, one push white balance
- ◆ Image freeze support
- ◆ Simultaneous 4K HDMI and 3G SDI outputs with embedded audio
- ◆ Up to 4K30 hardware video encoder
- ◆ H.264 HP/MP/BP or H.265/HEVC MP codec
- ◆ NDI@HX3 support with better quality and very smallest delay
- ◆ Up to 50mbps bitrate, high bandwidth video stream for best quality
- ◆ NDI@HX, RTSP, SRT, RTMP(s) streaming up to 4K30
- ◆ NDI or streaming over WIFI
- ◆ Low latency SRT streaming
- ◆ Direct standalone streaming to CDN like YouTube, 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
- ◆ IP VISCA control, NDI@ and Web 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
- ◆ Easy access and plug-and-play installation by mDNS
- ◆ Automatic rotation for vertical/portrait output and encoding
- ◆ Multiple standard tripod mounts also for vertical/portrait video
- ◆ Handy and convenient USB-C, DC, or single cable PoE power
- ◆ RESTFUL API supported for DIY automation and system integrator
- ◆ With two standard 1/4" camera tripod mount
- ◆ OEM/ODM support

4K NDI POVZoom Camera

H.264/H.265 HEVC, Low latency, Multiple Streaming and Live Video Preview

Specification

Power:

Input	: USB TYPE C, 25W : 12V DC, 12W and above : PoE(802.3af), CAT5e above
Consumption	: <12W Max

Camera:

Image Sensor	: Sony 1/2.3" Back-illuminated and stacked Exmor R CMOS
Effective Pixels	: 3840(H) x 2160(V)
Aperture/IRIS	: F1.67-3.67, F1.6-4.3
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	: 18x, 25x
Focal Length	: f5.5-99mm, f5.3-130mm
FOV(D/H/V)	: 18x, Wide:63.1°/51.9°/39.7°, Tele:3.7°/3.0°/2.2° 25x, Wide:67.9°/55.0°/41.6°, Tele:2.8°/2.3°/1.7°
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	: Yes
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

Video:

Video Encoder	: H.264 HP/MP/BP, H.265 MP
Resolution	: 4K2160p25/30, 1080p25/30/50/60 1080i50/60, 720p50/60
Frame Rate	: 24/25/30fps, 50/60fps for 1080/720p
Codec	: H.264/H.265
Rate Control	: CBR/VBR
Live Preview	: Web, HDMI output, SDI
OSD	: English/Chinese, WYSIWYG editor

Network:

LAN	: 100/1000Mbps Gigabit, PoE
Web	: http, https
WIFI	: 802.11a/b/g/n/ac/ax, 2T2R, Dual Band
Bluetooth	: V5.4

Streaming:

Streaming Out	: RTMP(s)/SRT/RTSP
Bit Rate	: Max. 50mbits/s, adjustable
NDI®	: NDI® HX3/HX2/HX (NDI v5.5, upgradeable)
Recorder	: mp4, mov
Main Video Stream	: Up to 4K
Secondary Stream	: Up to 720p
Portrait	: Vertical streaming

Video

HDMI Out	: 1.4b, YCbCr/RGB 4:4:4
SDI Out	: 3G SDI, 800mVpp, 75ohm, 4:2:2(YCbCr)
NDI	: NDI HX, HX2, HX3
UVC Out	: MJPEG, H.264

Configuration :

Setting	: Smartphone, Tablet, PC, RESTFUL API
OSD	: Text, Logo Caption
LCD	: 3.42", Touch screen
ZowieX	: Windows/macOS, iOS/Android

Camera Control:

Protocol	: VISCA over IP, NDI®, Web, OnVIF
Local	: LCD
WEB	: Browser GUI from desktop or mobile

Audio :

Sampling	: 32, 44.1, 48KHz
Encoder	: AAC, MP3, 16bit
Bitrate	: 32-192kbps
Audio Input	: 0.7VRMS, 20K, 2CH, AGC
Source	: Line In/MIC
Audio Embedding	: HDMI, SDI and NDI

Tally:

Tally LED	: Auto/Manual
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Storage

Network	: TF/NAS
Recorder	: mp4, mov, ts

Software

Firmware	: Upgradeable, Linux OS
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Interface:

Power	: 1 x USB TYPE C, 1 x RJ 45 PoE : 1 x DC 5.5x2.1
HDMI Input	: 1 x TYPE A, Receptacle, 1.4b
Audio In/Out	: 2 x 3.5mm TRS Jack
Network	: 1 x RJ45
USB	: 1 x USB, Type C
Visible	: 1 x LED, Rear
SDI	: 1 x BNC Full size
Tally	: 1 x LED, Front

Physical

Body size	: 122.5L x 76 x 63.2H mm(4.8" x 3.0" x 2.5")
Weight	: 588g (20.7oz) , Black aluminum
Operating	: 0°C to 45°C(32°F to 113°F), Indoor
Storage	: -20°C to 60°C(-4°F to 140°F)
Mount	: 3 x 1/4"- 20UNC

Certification

CE, FCC (In progress)

Ordering

30781-CZZ	
ZZ	=25, 25x =18, 18x =0
C	=1, NDI® HX3

Accessories

USB TYPE C 25W PD Charger	x 1
USB TYPE C Cable	
Quick Start Guide	

*Accessories is optional and sold separately

* All specifications are subject to change without notice.
* Accessories may be different for different product options.
* Actual object may differ from what shown in catalog.