

POVZoom Air - 4K Optical Zoom Camera

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

ZowieCAM 4K POVZoom is a compact, rugged aluminum camera delivering professional 4K Ultra HD video with flexible 18x/25x optical zoom. Designed for critical streaming, this lightweight standalone IP camera now features an integrated 5000mAh battery providing 2.5+ hours of cord-free operation. With top, bottom, and side mounts, it offers a cost-effective, user-friendly solution without requiring a PC.

Superior Visuals & Precision Sync

Equipped with a Sony Ultra-HD 4K sensor, the camera delivers crystal-clear video even in low light. Simultaneous 4K HDMI and NDI output (with embedded audio) ensure flexibility. It features auto/manual focus and 16x digital zoom to keep images sharp. Crucially, it supports NTP (Network Time Protocol) for precise multi-camera synchronization, ensuring your multi-view live productions are perfectly aligned across the network.

Modern Interaction: 3.42" Touch Control

Elevate your on-site experience with the built-in 3.42" wide-aspect touch LCD. This modern interface brings smartphone-like intuitive interaction to the professional field, allowing for rapid parameter adjustments and instant live monitoring. This high-resolution strip screen eliminates the need for bulky external monitors during setup, making it incredibly convenient to configure settings, check focus, and manage streams with just a few taps.

Uncompromising Wireless NDI@HX3 via WIFI 6

Go truly wireless without sacrificing quality. The POVZoom leverages high-throughput WIFI 6 (2T2R MIMO) technology, explicitly guaranteeing stable, low-latency, high-bitrate NDI@HX3 signals that match wired performance. Integrate seamlessly into any NDI environment, utilize a single network cable for data and PoE, or stream wirelessly with full confidence. The camera also functions as a UVC webcam and can record to TF cards or NAS.

Flexible Power & Effortless Control

Deployment is seamless. Power the camera via PoE (up to 100 meters), the internal battery, or any standard USB-C power bank for immediate, "anytime, anywhere" live streaming setups. Integrated gyroscope detection ensures automatic video orientation, while the built-in Tally light syncs with vMix, OBS, and Tricaster for professional multi-camera production.

Versatile Applications for Professionals

From live sports and outdoor events to medical research and studio broadcasts, the ZowieCAM POVZoom is built for versatility. Its small form factor allows for discreet placement in tight spaces, while the rugged build handles the rigors of travel. Whether you are a solo creator or a system integrator, this "all-in-one" solution provides the ultimate freedom to capture and stream high-quality content from any perspective.



Highlights :

- ◇ Professional 4K Ultra HD resolution for stunning high-fidelity video
- ◇ Sony back-illuminated stacked sensor for rich color and low-light sensitivity
- ◇ Versatile 18x/25x optical zoom plus 16x digital zoom for precise detail
- ◇ Advanced auto-focus and variable aperture for crisp and sharp imagery
- ◇ Simultaneous 4K HDMI, NDI@HX3, and UVC outputs for flexible monitoring
- ◇ High-performance NDI@HX3 delivers low-latency video over IP workflows
- ◇ Wi-Fi 6 with 2T2R MIMO technology ensures stable high-bitrate streaming
- ◇ Precision NTP support guarantees perfect multi-camera network synchronization
- ◇ Standalone IP streaming capability eliminates the need for a dedicated PC
- ◇ Full remote management via VISCA over IP or NDI from any distance
- ◇ Integrated 5000mAh battery provides over 2.5 hours of cordless operation
- ◇ Standard USB-C power bank support enables rapid field deployment anywhere
- ◇ PoE 802.3af compatibility delivers power and data over a single cable
- ◇ True wireless freedom combining internal battery power with Wi-Fi 6
- ◇ Built-in 3.42-inch touch LCD offers modern smartphone-like intuitive control
- ◇ Compact and rugged aluminum body designed for professional on-the-go use
- ◇ Automatic gyroscope detection ensures the correct video orientation every time
- ◇ Integrated Tally light syncs seamlessly with vMix, OBS, and Tricaster
- ◇ Multi-side 1/4-inch tripod mounts offer flexible installation in tight spaces
- ◇ Local recording support to TF cards or NAS for secure data backup
- ◇ NDI@HX3, RTSP, SRT, RTMP(s) streaming up to 4K30
- ◇ NDI or streaming over WIFI
- ◇ Flexible WYSIWYG OSD, text, logo and stamp image overlay, user-friendly
- ◇ 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
- ◇ OEM/ODM

POVZoom Air - 4K NDI POVZoom Camera

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

Specification

Power:

Input	: USB TYPE C, PD 12V, 25W
	: 12V DC, 25W
	: PoE(802.3af) 48V, 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, 640p for NDI
Portrait	: Vertical streaming

Video

HDMI Out	: 1.4b, YCbCr4:2:2/RGB 4:4:4
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, NDI and all other streams

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 Output	: 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	: 2 x LED, Rear
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 40°C(32°F to 104°F), Indoor
Storage	: -20°C to 60°C(-4°F to 140°F)
Mount	: 3 x 1/4"- 20UNC

Certification

CE, FCC (In progress)

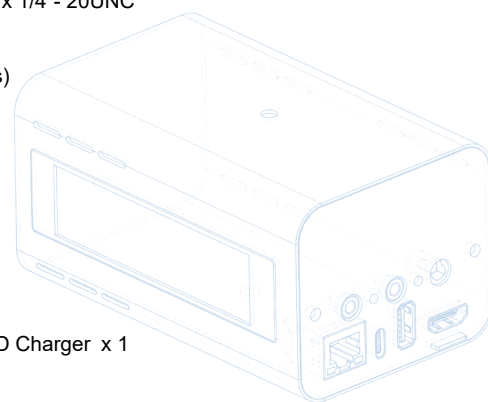
Ordering

30791-CZZ	
ZZ	=25, 25x
	=18, 18x
C	=2
	=3, 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.