

POVZOOM Air - 4K Mini Optical Zoom Camera

Untethered 4K Precision Optical-Hybrid Zoom Wireless NDI®|HX3 Live Production

POVZOOM Air: 4K Mini Optical Zoom Camera is a breakthrough 4K Ultra HD optical zoom camera, precision-engineered into an ultra-compact, durable aluminum body. As the standalone 4K POV camera with optical zoom, it is designed for the "Make Live" generation—offering professional-grade streaming without the clutter of cables. It is rugged, lightweight, and purpose-built for high-stakes live productions, featuring top and bottom standard 1/4" tripod mounts for limitless mounting flexibility.

Innovative Touch Control & Wireless Power: The POVZOOM Air introduces a stunning 3.42" long-aspect touch screen, providing an intuitive interface for real-time monitoring and instant parameter adjustments. True to its "Air" naming, it is powered by a high-capacity 5,000mAh internal battery, delivering 3.5+Hr hours of continuous working time. This completely standalone unit requires no PC to stream, allowing you to go live from anywhere.

Cutting-Edge Optics & Intelligence: Precision Imaging: Features a Sony Ultra-HD 4K back-illuminated stacked sensor for crystal-clear, color-accurate video, even in low light. Equipped with a 3x optical zoom lens (F2.0 aperture) and 12x digital zoom, covering a versatile 90° Wide to 35.8° TELE FOV.

Auto-Orientation: Integrated gyroscope detection ensures your video direction is always correct automatically, regardless of how the camera is mounted.

The ZowieX Ecosystem: Multi-Cam Mastery: Designed for seamless multi-camera live production, the POVZOOM Air offers a comprehensive control suite. ZowieX Desktop Software & App: Full remote management of multiple units from your computer or smartphone, making complex set-ups easy to handle for a single operator.

IR & Bluetooth Remote: Supports dedicated wireless remotes with preset positions, allowing you to jump between wide shots and close-ups instantly with the press of a button.

Tally Light: Built-in tally syncs with vMix, OBS, and TriCaster to signal which camera is "on-air."

NDI®|HX3 over Air & Connectivity: Leveraging WiFi 6 2T2R MIMO technology, the POVZOOM Air provides a robust, high-speed wireless connection optimized for NDI®|HX3 over Air. This allows for real-time, low-latency, high-quality video workflows without a single network cable. It simultaneously supports 4K HDMI outputs for local monitoring and video switcher, while offering the ability to record directly to TF cards or NAS. For charging or secondary power, it utilizes a standard USB Type-C port.

The POVZOOM Air is the ultimate state-of-the-art solution for streaming professionals and system integrators seeking an affordable, flexible, and completely untethered 4K video source.



Highlights:

- ◆ Innovative 3.42" long-aspect touch LCD screen for intuitive on-site control and monitoring
- ◆ High-capacity 5000mAh internal battery supporting 3.5+ hours of continuous working time
- ◆ Built-in WiFi 6 2T2R MIMO technology optimized for NDI®|HX3 over Air
- ◆ 3x optical zoom lens with fast auto focus plus 12x digital zoom capability
- ◆ Sony Ultra-HD 4K back-illuminated and stacked sensor for crystal-clear, low-noise video
- ◆ Built-in high-sensitivity microphone and analog stereo line-in audio input
- ◆ NDI®|HX3 support providing superior quality and extremely low latency over wireless
- ◆ Direct standalone streaming to CDNs like YouTube and TikTok via WiFi, no PC required
- ◆ Comprehensive remote management via ZowieX desktop software and ZowieX App and handy remote control
- ◆ Supports IR and Bluetooth remote control with preset positions for easy multi-cam switching
- ◆ RESTful API supported for professional DIY automation and seamless system integration like Bitfocus
- ◆ Built-in tally light for PVW/PGM status in multi-camera live productions
- ◆ Simultaneous 4K HDMI and 3G-SDI outputs with embedded audio
- ◆ Integrated gyroscope for automatic rotation and vertical/portrait mode streaming
- ◆ Flexible WYSIWYG OSD with text, logo, and time-stamp image overlay
- ◆ Professional hardware encoding up to 4K30 with H.264 and H.265/HEVC codecs
- ◆ Ultra-compact, durable aluminum body with top and bottom standard 1/4" tripod mounts
- ◆ Up to 50Mbps high-bandwidth video stream for broadcast-grade quality
- ◆ Standby mode
- ◆ Smart Bypass Power: Direct USB-C power prevents battery overheating during long streaming sessions.
- ◆ Eco Standby Mode: Recharges efficiently with minimal idle heat and power draw.
- ◆ Natively support vertical portrait streaming up to 1080p60 for short video

POVZOOM Air: 4K Mini Optical Zoom Camera

Ultra-Compact, Wire-Free 4K Streaming: Precision Zoom with Native NDI®|HX3 Anywhere

Specification

Power:

Input	: USB C, PD 9V, 12W min.
Battery	: Lion, 5000mAH Built-in rechargeable
Consumption	: <10W Max
Management	: Smart bypass power mode for thermal protection

Camera:

Sensor size	: Sony 1/2.3"
	: Back-illuminated and stacked Exmor R CMOS
Effective Pixels	: 8Mega Pixels, 3840(H) x 2160(V)
Electronic Shutter	: AUTO, 1/25, 1/30, 1/50, 1/60, 1/90, 1/100, 1/120, 1/125, 1/180, 1/250, 1/300, 1/350, 1/500, 1/600, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000

Gamma Control	: 9 options
Noise Reduction	: 2D/3D
White Balance	: Auto, One Push, R/B Gain, Color Temp, Lock
Color Temp.	: 3000-6500K
Focus	: Manual, AF
Focus Zone	: 6 zones and Point Focus
Exposure IRIS	: AE/AAE/SAE/M with AE lock
Gain	: 0 ~ 16 steps
Focal Length	: f3.3~9.7
Aperture	: f2.0~3.7
FOV(D/H/V)	: Wide:92°/81.4°/50.5°, Tele:35.8°/31.3°/18.2°
	: Distortion < 3%
Zoom Ratio	: 3x Optical Zoom
Hybrid Zoom Ratio	: 2x
Digital Zoom Ratio	: 2x default, 12x Maximum
FOV(D/H/V)	: 90°/77.5°/61°, Distortion < -0.5%
Mirror/Flip	: Automatically
Anti-Flicker	: 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	: LCD, Web, HDMI output
OSD	: English/Chinese, WYSIWYG editor

Network:

Web	: http, https
WIFI	: 802.11a/b/g/n/ac/ax, 2T2R MIMO, Dual Band
Bluetooth	: V5.3
LAN	: POE to TYPE C, not included

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	: Crop and native vertical portrait streaming up to 1080p

Video

HDMI Out	: 1.4b, YCbCr 4:2:2/RGB 4:4:4
NDI	: NDI HX, HX2, HX3
UVC Out	: MJPEG, H.264

Configuration :

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

Camera Control:

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

Audio :

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

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
HDMI Output	: 1x TYPE A
USB	: 1 x USB, Type C
Visible	: 1 x LED, Rear
Tally	: 1 x LED, Front

Physical

Body size	: 120.9L x 52W x 52H mm(4.76" x 2.05" x 2.05")
Weight	: 348g (12.3oz), 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	: 2 x 1/4"- 20UNC

*Thermal protection may trigger an automatic shutdown under high temperatures.

Certification

CE, FCC (FCC-ID: 2A8LX-ZOWIECAM), RoHS, UN38.3

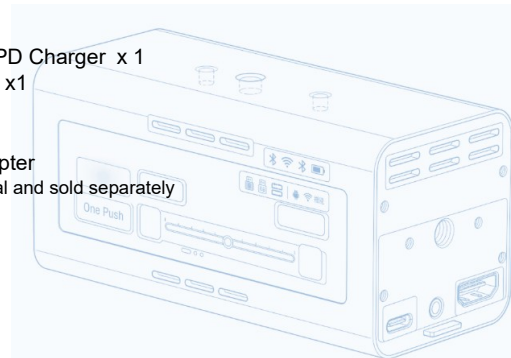
Ordering

30741-NZZ	
ZZ	=03, 3x optical Zoom
N	=2
	=3, NDI® HX3

Accessories

USB TYPE C 25W PD Charger	x 1
USB TYPE C Cable	x1
Remote Control	x1
Quick Start Guide	
*PoE to USB C Adapter	

*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.