ZowieCam POV Camera General FAQ Hub

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Usage Scenarios

Q: Can it be used for live streaming? Show streaming platform compatibility

A: Yes,The camera supports live streaming through RTSP, RTMP(S), SRT, and NDI|HX3 / HX2 / HX workflows. After network configuration, it also supports standalone streaming. Platform compatibility depends on the protocol accepted by the destination system.

Q: Can it be used for video conferencing?

A:Yes.The camera can be used for video conferencing, hybrid meetings, classrooms, and presentation environments, and is best suited to fixed-position workflows.

On Windows systems, it can be connected directly to conferencing software through a UVC workflow.

On macOS systems, install NDI Tools first to receive the NDI stream from ZowieCam, then select NDI Webcam as the video input in conferencing software such as Zoom, Teams, or Google Meet.

Q: How good is its low-light performance?Does it have night vision?

A: The camera is designed for improved low-light imaging and low-noise video capture. For best results, use appropriate lighting and exposure settings.This camera does not support infrared night vision. It supports low-light imaging, but it is not a night-vision camera.

Q: How does this camera compare with other POV cameras?

A:Unlike simpler POV cameras, this model is designed for broader AV and streaming workflows. It supports network streaming, professional outputs (like HDMI/SDI), and is built for fixed-install deployment.

Q: How does it compare with basic NDI cameras?

A: This model combines a compact design with features typically found in multiple devices. It offers 12X digital zoom (and 3X optical zoom on POV Zoom models), simultaneous HDMI/SDI/NDI outputs, and standalone streaming capability—all in one unit.

Q: How does it compare with typical streaming cameras or webcams?

A: This camera is specialized for professional AV integration rather than simple desktop use. It is better suited for fixed AV setups, conferencing environments, live streaming, and multi-camera production workflows.

Video & Imaging Performance

Q: What is the frame rate / what frame rates are available?

A:Supported resolutions include 4K2160p25/30, 1080p25/30/50/60, 1080p50/60, and 720p50/60.

Q: Does it have noise reduction?

A: The camera is designed for low-noise imaging.The camera supports 2D and 3D noise reduction.

Q: What codecs does it support?

A: The camera supports H.264 and H.265 / HEVC workflows.

Q: What is the video bitrate?

A: Bitrate depends on encoding mode, resolution, frame rate, and streaming protocol. Refer to the specification sheet or web control interface for detailed values.

Q: Does the camera support image stabilization?

A:No, this camera does not support image stabilization. For best results, use fixed mounting.

Lens, Zoom & Focus

Q: What is the zoom range / maximum zoom / zoom capability?

A:The POV series supports 12X digital zoom.
The POV Zoom series adds 3X optical zoom, enabling up to 36X hybrid zoom.
Zoom can be controlled locally or via remote controller. Note that only the POV Zoom comes with a remote control.

Q: What are the autofocus capabilities / how fast is autofocus?

A: POV AF(auto focus) models support autofocus and are optimized for fast and accurate focusing in fixed-position workflows. (Only AF models support autofocus.)

Q: Is the lens adjustable?

A: Yes. The camera supports interchangeable lenses to meet different field-of-view requirements.

Q: Do CS/C mount models come with a built-in M12 lens? What are the included M12 lens specifications?

A:No. The CS/C mount model does not come with an M12 lens. The M12 mount model is equipped with a lens designed for a 1/2.8" image sensor with the following specifications:

Effective Focal Length (EFL): 7.2 mm

Aperture: F2.2 ±5%

Field of View (FOV):

Diagonal: 48.3° ±3°

Horizontal: 42.6° ±3°

Vertical: 24.6° ±3°

Maximum Image Circle: Ø7.0 mm

Relative Illumination: >65%

Optical Distortion: < |−1%|

Chief Ray Angle (CRA): <10°

Thread: M12 × P0.5

Barrel Material: Aluminum alloy (LY6061, black)

Resolution: 8.29 MP

Audio, Mounting, Protection & Package

Q: What is the microphone / audio quality like?

A: The camera provides a 3.5 mm audio input.
Earlier versions support active microphone input, while the latest version supports line-in and passive microphone input.

Q: What mounting options are available for the camera?

A:The camera supports fixed-position mounting and tripod installation. It includes a cold shoe adapter and supports standard 1/4"-20 thread mounting.

Q: Is the camera weatherproof, and what protective accessories are recommended?

A:The camera itself is not weatherproof. If outdoor use is required, it should be installed with appropriate protection. For storage or environmental protection, users can select suitable third-party protective cases or enclosures based on the camera's size and mounting configuration.

Q: What is included in the box?

A: The package includes:

4K POV Camera

USB-C Power Adapter

USB-C Cable

Hot Shoe Mount Adapter to 1/4"-20 UNC Thread Hole

Quick Start Guide

Remote controller（only for POV Zoom Model）

Q: Does it come with a remote / remote control?

A: Remote controller is included only with POV Zoom models. Standard POV models do not include a remote controller.

Setup & Workflow

Q: How do I set it up? / Is it easy to set up? / Is there a step-by-step setup guide?

A: Yes. The basic setup steps are: connect the camera to the network, power it by USB-C or PoE/PoE+, then log in to the web control interface through mDNS, hotspot, device discovery, or IP access.

Q: How do I control it / can I control it remotely?

A: The camera can be controlled via the web control interface, the local buttons on the device, and ZowieX.

POV Zoom models also support control via remote controller.

ZowieX supports device control and management on iPad and iPhone, and API control is also available.

Remote operation is supported through network-based control workflows within the same local area network.

Q: What are the best settings for Zoom / how do I set it up for Zoom meetings?

A:For Zoom on Windows, it is recommended to install the camera in a fixed position, keep focus and exposure stable, and use a supported connection workflow.
On Windows systems, the camera can be used directly as a USB camera through UVC workflows.
On macOS systems, conferencing software typically accesses the video stream from ZowieCAM through an NDI workflow.

Q: How do I set up ZowieUI?

A: Initial configuration is performed through the built-in web control interface and supported device discovery methods. For more detailed setup instructions, please refer to the Zowietek Knowledge Base.

Q: How do I set up a multi-camera workflow?

A: Connect all cameras to the same LAN, power them, assign and confirm their network access, then add each device through NDI software, control software, or the selected production workflow.

Q: Which devices is it compatible with?

A:The camera is compatible with common monitors, control consoles, and software that supports RTSP, SRT, or NDI video streams

Q: What is the best output option for streaming?

A: The best output depends on the workflow. Use NDI for NDI-based production, RTMP(S)/SRT/RTSP for network streaming, and HDMI/SDI for direct capture or switching.

Connectivity, Compatibility & Recording

Q:Can it record videos?

A: Type-C is for power supply and cannot be used for video recording. Video recording is only possible via a NAS.

Q:What are the connection requirements and system requirements for using the camera?

The camera provides HDMI output, 3G-SDI output, LAN/PoE+, USB-C power input, and a 3.5 mm audio input for different workflow connections.

Basic operation requires power and network access for control and streaming workflows, as well as a supported device or software path for monitoring, switching, or conferencing use.

For installation and connectivity, use Ethernet for network setup and PoE operation, USB-C for power

when required, and standard HDMI or SDI connections for direct video workflows.
For stable network performance, a suitable CAT-class Ethernet cable is recommended.

Q: What control software is included / supported?

A:This camera features a built-in web-based control interface(ZowieUI). Within the same network environment, ZowieUI can also be used to discover multiple Zowietek devices and manage workflows. Additionally, you can download the ZowieX app to control several ZowieCAMs.