

# 4K PTZ Video Camera

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

**Z**owiePTZ streaming video camera is the latest 4K Ultra HD PTZ camera from ZowieTek, featuring NDI® | HX3, SDI, HDMI and simple versatile controls for 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 and 25x 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, 3G SDI video and NDI simultaneously with embedded audio.

The camera is also IP based camera and NDI-capable up to NDI® | HX3 that is well-known for its high quality, low latency. 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, NDI and decoding streaming. Full control ZowiePTZ camera, all from a super easy to use web by iPad, Phone, 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 by NDI.

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 in addition to NDI.

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 and 25x optical zoom lens
- ◇ 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
- ◇ 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® | HX3, 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
- ◇ 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 NDI® PTZ Video Camera

H.265 HEVC , Low latency, multiple Streaming and live video Preview

## Specification

### Power :

Input : 12VDC 1A max, 12W Max.  
POE (IEEE 802.3af)  
Consumption : ~10W Typical

### Camera :

Image Device : Sony 1/2.3"  
Back-illuminated and stacked Exmor R CMOS  
Effective Pixels : 3840(H) x 2160(V)  
Aperture/IRIS : F1.6-2.8, 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 : 12x, 18x, 25x  
Focal Length : f3.4-40.3mm, f5.5-99mm, f5.3-130mm  
FOV(D/H/V) : 12x, Wide:78.5°/70.8°/42.7°, Tele:7.4°/6.4°/3.6°  
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 : 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  
Resolution : 4K2160p25/30, 1080p25/30/50/60  
1080i50/60, 720p50/60  
Bit Rate : Max. 50Mbps/s, adjustable  
Frame Rate : 24/25/30fps, 50/60fps for 1080/720p  
Codec : H.264/265  
Rate Control : CBR/VBR  
Live Preview : Web, HDMI and SDI  
OSD : WYSIWYG editor

### 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/MJPEG  
Bit Rate : Max. 50Mbps/s, adjustable  
NDI® : NDI® | HX3/HX2/HX  
Main Video Stream : Up to 4K30  
Secondary Stream : Up to 720p  
Record Format : mp4, mov, ts  
Storage : TF, USB and NAS  
Rotation : Native vertical streaming  
UVC : MJPEG up to 1080p60, H.264 up to 4K30

### Video :

HDMI Out : 1.4b, 4:2:2(YCbCr)  
SDI Out : 3G SDI, 800mVpp, 75ohm, 4:2:2(YCbCr), 720p/1080p  
NDI : NDI | HX, HX2, HX3 (NDI 5.5, Upgradeable)

### Audio :

Sampling : 32, 44.1, 48KHz  
Encoder : AAC, MP3, 16bit  
Bitrate : 32-192kbps  
Line Input : 0.7VRMS, 20K, 2CH, AGC  
Microphone : Dual MIC omni-direction, 2.0V bias  
Source : Line In, MIC  
Audio Output : HDMI, SDI and NDI embedded

### Pan/Tilt and Control :

Protocol : IP VISCA, VISCA, Pelco P/D, NDI®, 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 60°/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  
HDMI Output : 1 x TYPE A, Receptacle  
SDI Output : 1 x BNC, Female  
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 : 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

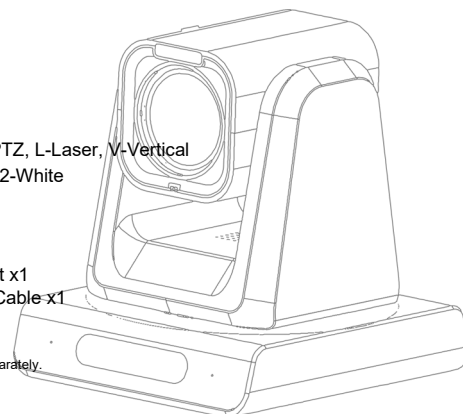
### Ordering

30511-XYZ  
Z=1-12x, 2-18x, 3-25x  
Y=(VLP)<sub>10</sub>: 0-PTZ, 1-NDI PTZ, L-Laser, V-Vertical  
X=0-Black, 1-Silver/Black, 2-White

### Accessories

Power Adapter x 1  
Ceiling and Wall Mount Set x1  
RS232 to MDIN-8 VSICA 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.