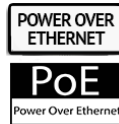# PTZOptics 12X-USB Video Camera

The PTZ Optics 12X-USB is a 1080p cameras with 12X optical zoom for capturing wide angles. With support for USB3.0, HDMI & IP Streaming (H.264) these cameras are ideal for broadcasting live high definition video signals or being utilised in video conferencing applications.

These cameras are suitable for small, medium or large room set-ups.

Be seen in 1080p
Crystal clear High Definition 1080p video with lossless 12X optical zoom letting you get up close to see and interact with your team.

Power Over Ethernet
PTZOptics USB camera models also include PoE (Power Over Ethernet). The Ethernet port can be used for power, control and video/audio streaming.

Three Simultaneous Video Outputs
The PTZOptics 12X-USB can simultaneously send out 1080p video from HDMI, USB3.0 and H.264 IP Streaming for maximum flexibility.

Wide Field of View
The 12X PTZOptics models offer a wide field of view with the ability to zoom into a narrow 6.9 degrees.

Plug-and-Play USB Connectivity
Easily connect your camera to a PC, Mac or Chrome-Box without the need for additional software. For best results use a quad-core processor.

Camera Presets
Access camera presets with the IR remote control. Easily control your cameras pan tilt and zoom along with other fine tuning settings from your remote control.

Network Control & IP Streaming
Every PTZOptics camera offers a future proof solution with H.264 IP streaming and network control built in.

RS-232/RS-485 Camera Control
Integrate the camera into a larger control system such as Crestron, Extron or AMX. Even convert RS-232 to USB and control from your computer.

KEY FEATURES

- 72.5 degree wide-angle lens.
- High performance in low illumination situations.
- Full 1920 x 1080p HD Resolutions up to 30 frames per second.
- 2D and 3D noise reduction with our latest "low noise CMOS sensor".
- Wide Dynamic Range: capable of capturing all features of images when there is a strong contrast between subject and background.
- IP Streaming & Control (Control Software is Open Source)

WHAT'S IN THE BOX

12X Zoom IP Camera
Power Adapter
IR Remote Control
RS-232C to RS-485 Cable
User Manual

Camera & Lens	
Video CMOS Sensor	1/2.7" CMOS, 2.12 Mega Pixels
Frame Rate	1080p/60, 1080p/30, 1080p/25, 720p/60, 720p/50, NTCS, PAL
Lens	12x, F3.5mm~42.3mm, F1.8~F2.8
Lens Zoom	12x, 16x Digital Zoom
Field of View	72.5°
Min Lux	0.5 Lux at F1.8, AGC ON
Shutter Speed	1/30s ~ 1/10000s
SNR	≥55dB
Vertical Flip & Mirror	Supported
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°
Rear Board Connectors	
Video Output Interface	USB3.0, HDMI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)
Pan & Tilt Movement	
Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	10 via IR (255 Presets via Serial or IP)
Physical Specifications	
Dimensions	5.6" x 6.5" x 6.7" (142 x 164 x 169mm)
Weight	3.05 lbs. (1.38Kg)
Electrical Index	
Power Consumption	12W (Max)
Input Voltage	12V DC (10.8—13.0V DC) or PoE802.3af