



V.1.1 - 082024

## Elite 4K Premium Series 12X



This 12x Optical Zoom Camera, equipped with a 1/2.5" CMOS sensor and 8.51 megapixels, delivers 4K UHD resolution at 2160P30 with a wide 78° diagonal field of view. It supports advanced features like digital noise reduction, image flip, and precise PTZ control with 255 preset positions. The camera's integration capabilities include H.264/MJPEG video compression, multiple streaming protocols, PoE, HDMI, and USB connectivity. Its versatile use case spans conference rooms, educational settings, and live streaming applications. With excellent low-light performance, scalable pricing, and flexible configuration options, it is a comprehensive solution for modern video needs.

## Key Features

- 12x Optical Zoom with 16x Digital Zoom** : Captures detailed images even at long distances, ideal for large conference rooms or lecture halls.
- 4K UHD Video Output** : Supports up to 2160P30 resolution, delivering crisp and clear visuals aligned with the trend for high-definition presentations.
- Wide 78° Field of View** : Ensures better room coverage, reducing the need for multiple cameras.
- Advanced Video Compression** : Utilizes H.264 and MJPEG to ensure seamless streaming even with varying network conditions.
- Multi-Protocol Support (NDI, RTSP, Onvif)** : Enables flexible integration into various video systems, addressing recent demands for compatibility and interoperability in professional setups.

## General Specifications

### Camera

**Sensor** : 1/2.5 inches, CMOS, Effective Pixels 8.51

Megapixels

**Lens** : 12x, f4.4mm ~ 52.8mm, F1.8 ~ F2.6

**Diagonal field of view** : 78°

**Video Format** : YUY2 Max. 1080P30; MJPEG: Max. 2160P30; H.264 SVC/AVC: Max. 2160P30

**Signal System** : 4KP30, 4KP25, 1080P30, 1080P25

**Scanning Mode** : Progressive

**Digital Zoom** : 16X

**Minimum Illumination** : 0.5Lux @ (F1.8, AGC ON)

**Shutter** : 1/30 ~ 1/10000s

**White Balance** : Auto, Indoor, Outdoor, One Push, Manual VAR

**Backlight Compensation** : Support

**Digital Noise Reduction** : 2D & 3D Digital Noise Reduction

**SNR** : ≥ 55dB

**Pan Angle** : ± 170°

**Tilt Angle** : -30° ~ +90°

**Pan Speed** : 2.7° ~ 35.7° /s

**Tilt Speed** : 2.7° ~ 31.5° /s

**Image Flip** : Support

**Preset Position** : 255

**Preset Accuracy** : 0.1°

### Network

**Video Compression** : H.264/MJPEG

**Video Stream** : First Stream, Second Stream

**First Stream Resolution** : 3840x2160, 1920x1080, 1280x720

**Second Stream Resolution**: 1920x1080, 1280x720, 1024x576

**Video Bit Rate** : 32kbps ~ 20480kbps

**Bit Rate Control** : VBR, CBR

**Frame Rate** : 50Hz 1fps ~ 25fps, 60Hz: 1fps ~ 30fps

**Audio Compression** : AAC

**Audio Bit Rate** : 96Kbps, 128Kbps, 256Kbps

**Protocols** : NDI@IHX2, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP,SRT,GB/T 28181, Multicast.

### USB

**Operating System Supported** : Windows 7 (only supports UVC1.1 features), Windows 8 and above versions, macOS 10.5 and above version, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers

**USB Video** : Support

**Color System / Compression** : YUY2 / MJPEG / H.264

**USB Video Communication Protocol** : UVC 1.1 ~ 1.5

**UVC PTZ Control** : Support

### General

**USB Interfaces** : 1x USB 3.0 Type-C

**HD Output** : 1x HDMI 1.4b

**Network Interface** : 1x RJ45 10M/100M/1000M adaptive Ethernet

**Audio Interface** : 1x LINE IN 3.5mm Jack

**Control Interface** : 1 x RS485 IN(Optional): 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P.

**Power Interface** : JEITA Type (DC IN 12V)

**Input Voltage** : DC 12V / PoE (802.3af)

**Input Current** : 12V 1.0A (Max)

**Operating Temperature** : -10° C ~ 40° C

**Storage Temperature** : -40° C ~ 60° C

**Power Consumption** : 12W (Max)

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### Dimensions

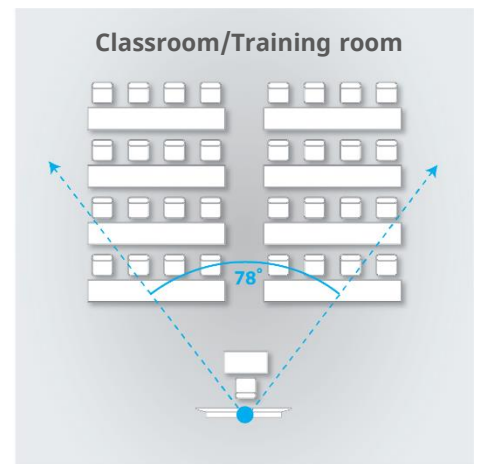
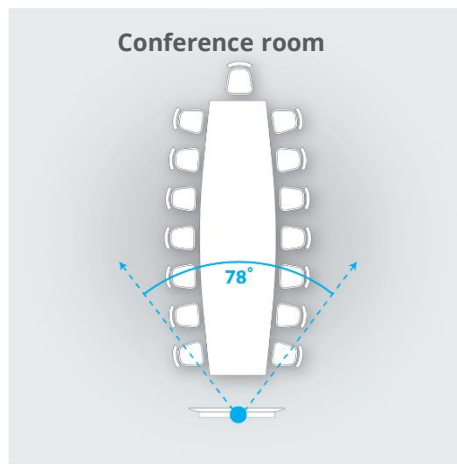
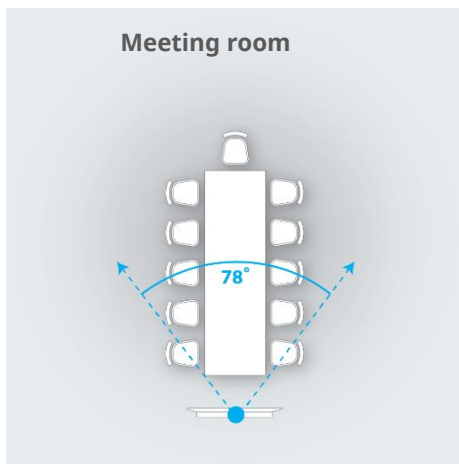
**Length (L) :** 144 mm

**Height (H) :** 173.4 mm

**Depth (D) :** 144 mm

**Net Weight :** 1.41kg

## Application Scenarios



**Disclaimer:-** Room setup diagrams are provided for reference only. Actual room setup and size may vary as per requirements.

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