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Elite 4K Premium Series 20X



This 20x Optical Zoom Camera, equipped with a 1/1.8" CMOS sensor and 8.51 megapixels, delivers 4K UHD resolution at 2160P30 with a wide 60° Horizontal 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

4K UHD

Uses a 1/1.8-inch, high-quality UHD CMOS sensor with a maximum of 8.42 million pixels. Capable of delivering superior 4K (3840x2160) resolution images. Also compatible with various resolutions, including 1080P and 720P.

High-Quality Optical Zoom + Wide-angle Lens

Equipped with a 4K ultra-long zoom lens with 20x optical zoom, 16x digital zoom and a 60 ° FoV. Supports night vision mode, and the infrared filter can switch automatically.

AI Presenter Tracking

Equipped with in-house-developed ReID technology, the device identifies the speaker's figure, appearance, and outfit. As the speaker moves within the room, the camera automatically tracks them, ensuring the target remains centered. Even if there are interferences or the speaker exits the frame, the camera swiftly recaptures and tracks them upon reentry.

Key Features

PoE

Enables power supply, control, and audio-video signal transmission to the camera through a PoE Ethernet cable

Support H.264 Encoding

Supports H.264 streaming with Slice and SVC encoding modes, catering to high-end USB conference video applications.

Remote Control

Various control methods are available, utilizing RS232 (RS485 optional) serial ports, network, and USB to manage camera settings.

Dual Streaming

Simultaneously supports two streams output (YUY2, MJPEG, H.264 in any two modes), alleviating the decoding pressure on the host system

Low Light Performance

The camera ensures clear images in low-light situations by using a CMOS image sensor of 55dB SNR and a 2D & 3D noise reduction to reduce image noise in low-light conditions.

Multiple Interfaces

Supports simultaneous output of three 4K ultra-clear video streams through USB3.0, HDMI¹, and network interfaces.

General Specifications

▼ Camera Spec

Sensor	1/1.8 inches, CMOS, Effective Pixels: 8.42 Megapixels
Signal System	4KP30, 4KP25, 1080P30, 1080P25
Scanning Mode	Progressive
Optical Zoom	20x
Digital Zoom	16x
Horizontal FOV	60° ~ 3.5°
Vertical FOV	35.7° ~ 2.0°
Focal Length	f=6.25mm~125mm, F1.58-F3.95
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 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°

▼ I/O

USB Interfaces	1 x USB 3.0: Type-C
HD Output	1 x HDMI 1.4b ¹
Network Interface	1 x RJ45: 10M / 100M adaptive Ethernet;
Audio Interface	1 x 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)

▼ Network Spec

Video Compression	H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160,1920x1080,1280x720 etc.
Second Stream Resolution	1920x1080,1280x720,1024x576 etc.
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® HX2,TCP/IP,HTTP,RTSP,RTMP(s), Onvif, DHCP, SRT,GB/T 28181,Multicast,etc.

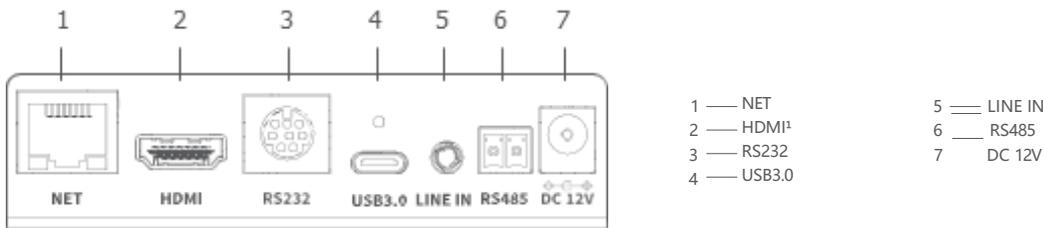
▼ USB Spec

Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, MacOS 10.5 and above version, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUY2 / MJPEG / H.264
USB Video	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support
Video Format	YUY2: Max. 1080P30; MJPEG: Max. 2160P30; H.264 AVC: Max. 2160P30; Support H.264 SVC: Max. 2160P30

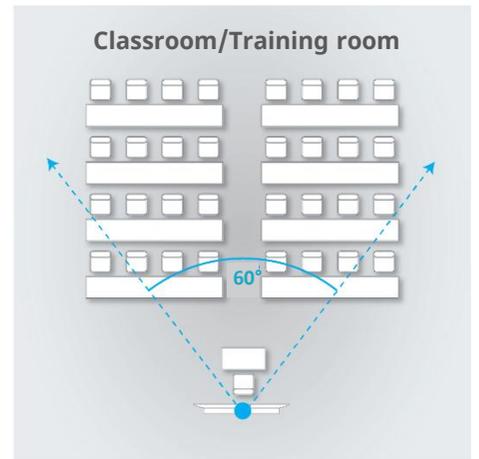
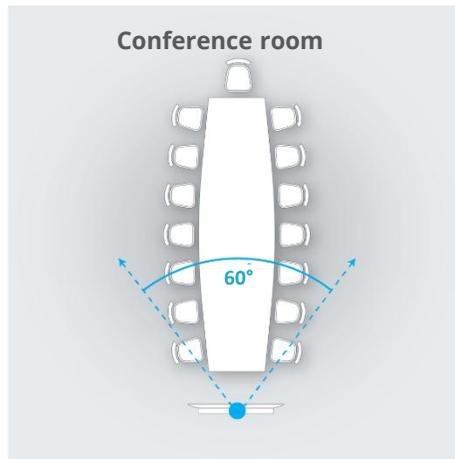
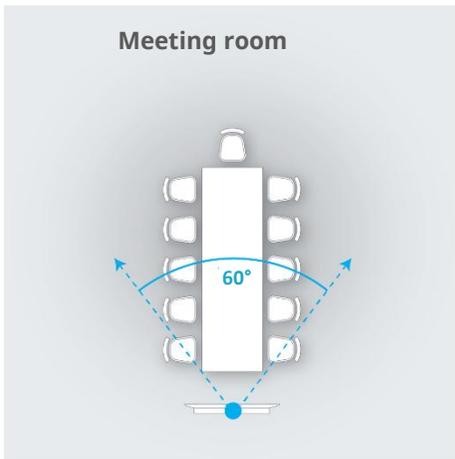
▼ Generic Spec

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.)
Net Weight	1.41kg
Dimension	144mm (W) × 144mm (D) × 168.3mm (H)

Interface Diagram



Application Scenarios



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

Ordering Information

PeopleLink Elite 4K Premium Series 20X

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PPU-PVC-EPS-20X-16DX

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