



V 1.1 - 102024

Elite FHD Pro Series 12X Gen2.1



Designed for remote video conferences, executive meetings, remote education, and training scenarios, the cameras are equipped with HD CMOS image sensors, offering a video resolution of 1080P60fps. With a wide FoV long zoom lens paired with a PTZ, these cameras can cover the entire meeting scene.

Key Features

- 1080 Full HD**

Utilizing a 1/2.8 inch, 2.07 million pixels HD CMOS sensor, delivering superior image quality with a maximum resolution of 1920x1080.

- Wide-angle + Long Zoom**

Features 72.5° wide-angle lens, supporting 12X optical zoom and 16X digital zoom.

- Multiple Control Options**

Supports control through RS232 (optional RS485) serial ports, network, and USB interfaces, meeting various application needs.

- Multiple Power Supply Options**

Supports USB 5V power, 12V power adapter, and PoE.

- H.264 Encoding Support**

Outputting H.264 streams supports Slice and SVC encoding modes, suitable for high-end USB conference video applications.

- Dual-streaming**

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

Key Features

- **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.

- **Multiple Interfaces**

Supports simultaneous output of three 1080P video streams through HDMI, USB3.0, and network interfaces.

- **Supports NDI®|HX2¹ (Optional)** : This camera supports the next-generation network video transmission technology NDI®|HX2, featuring plug-and-play, low latency, and easy deployment. It supports transmission of audio, video, and control signals.

Product Specifications

Camera Spec

Signal System : 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50

Sensor : 1/2.8 inches, CMOS, Effective Pixels: 2.07 Megapixels

Scanning Mode: Progressive

Digital Zoom : 16x

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 : >= 50dB

Pan Angle : ±170°

Tilt Angle : -30° ~ +90°

Pan Speed : 2.7° ~ 35.7° /s

Tilt Speed : 2.7° ~ 31.5° /s

Lens : 12x, f3.5mm-42.3mm, F1.8-F2.8

Horizontal FOV : 72.5° ~6.9°

Vertical FOV : 44.8° ~3.9°

Video Format: YUY2 Max. 1080P60; H.264 AVC Max. 1080P60; MJPEG Max. 1080P60; H.264 SVC (Optional) Max. 1080P60

Frame Rate : 50Hz: 1fps~50fps, 60Hz: 1fps~60fps

Image Flip : Support

Image Freeze : Support

Preset Position : 255

Preset Accuracy : 0.1°

Network Spec

Video Compression : H.264 / H.265

Video Stream : First Stream, Second Stream

First Stream Resolution : 1920x1080, 1280x720, 1024x576 etc.

Second Stream Resolution : 1280x720, 1024x576, 720x480 etc.

Video Bit Rate for First Stream : 32Kbps ~ 10240Kbps

Bit Rate Control : VBR, CBR

Audio Compression : AAC

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

Protocols : NDI®|HX2 (Optional), TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, SRT, GB/T 28181, Multicast etc.

General Specifications

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- relate drivers.

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

UVC Audio : Support

USB Video Communication Protocol : UVC 1.1~1.5

UVC PTZ Control : Support

I/O

USB Interface : 1 x USB 3.0, Type-C

HD Output : 1 x HDMI 1.4b¹

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

Audio Interface : 1 x Line In, 3.5mm Jak

Power Interface : JEITA (DC IN 12V) / USB Type-C (DC IN 5V) / PoE

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

Generic Spec

Input Voltage : DC 12V/DC 5V/PoE (802.3af)

Input Current : 12V 1.0A (Max.) 5V 1.15A

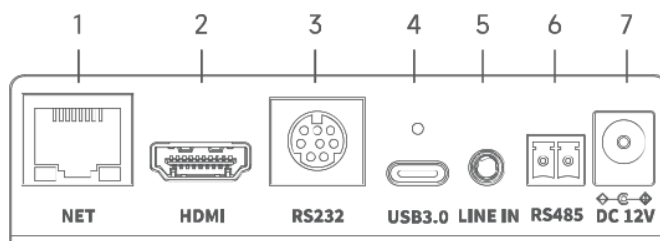
Operating Temperature : -10° C ~ 40° C

Storage Temperature : -40° C ~ 60° C

Dimension : 144mm (W) x 144mm (D) x 166.89mm (H)

Net Weight : 1.41kg

Power Consumption : 12W



1 - NET

2 - HDMI

3 - RS232

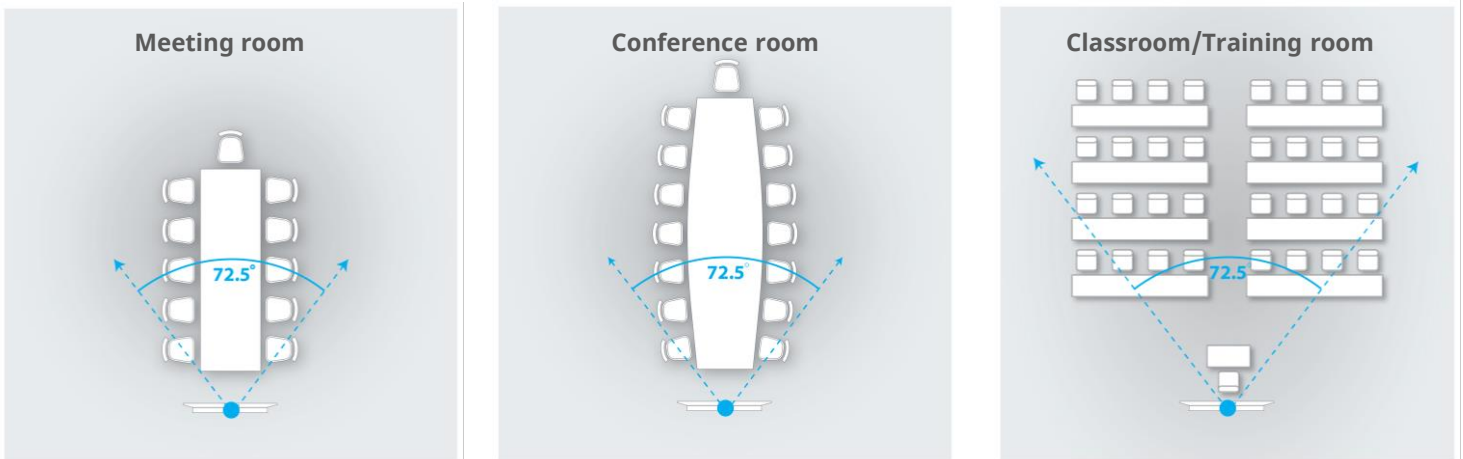
4 - USB3.0

5 - LINE IN

6 - RS485

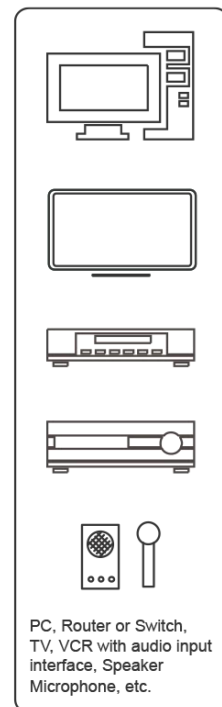
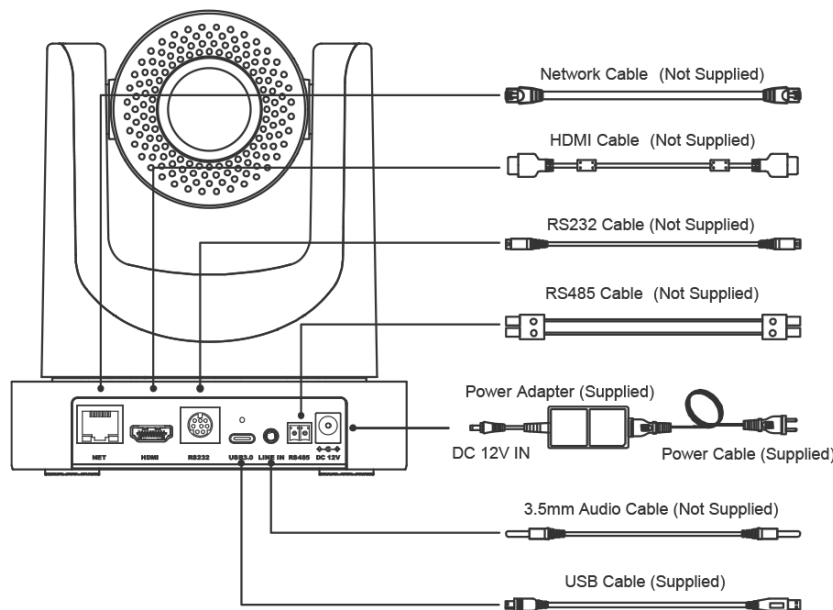
7 - DC 12V

Application Scenarios



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

Connectivity



Ordering Information

Part code

: **PPU-PVC-EPS-12X-16DX-G2.1**

SALES AND INQUIRIES

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