4K Intelligent Educational Box Camera

UAI4JX1801K

4K UHD | **AI Smart Tracking** | **Smart Guide** | **PoC** | **PoE**

Equipped with high quality 4K CMOS sensor, with built-in AI capability and algorithm, the camera can achieve a precise and smooth tracking without any additional equipment.PoE support, best choice for live streaming, conferencing and education.

Features

4K UHD
Use a high -quality 1/2.8 inches UHD CMOS sensor with 8.46million pixels. Support max 4K30fps image output and multiple lower resolutions like 1080p/720p.

AF Lens
The 42 ° lens for the teacher's machine supports auto focus; the low-distortion horizontal angle of student's machine is up to 95 ° ; small lens for big vision, and supports EPTZ.

Multiple Interfaces
3G-SDI(Up to 150meters transmission with 1080P30), LAN, USB. Support 3G-SDI, LAN, USB streaming simultaneously.

Double Modes Supported
Single camera and SDI interface can simultaneously output panoramic and close-up images.

Low Illumination
The new generation high performance CMOS image sensor can significantly reduce the image noise in low illumination. With the 2D and 3D noise reduction algorithms, even in an ultra-low illumination environment,camera can still deliver a sharp and clean image with more than 55dB S/N ratio.

AI Smart Tracking
With the built-in AI capability and algorithms, camera can support multiple tracking modes,including body tracking, hybrid tracking and etc.

PoC and PoE Supported
POC (Power Over Cable) and POE (Power Over Ethernet) ISDN supported; power supply, video, audio and control are integrated.

Product Specification

▼ Camera Spec

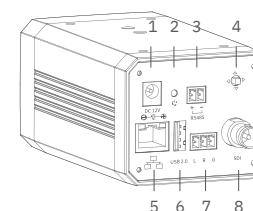|	
Sensor	1/2.8 inches, CMOS, Effective Pixels: 8.46 Megapixels Scanning ModeProgressive
Type of Lens Mount	M12
Lens	（Teacher) Focal length: f=7.2mm, Horizontal FOV: 42° Lens （Student) Focal length: f=2.88mm, Horizontal FOV: 95° Digital Zoom8x
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR Backlight CompensationSupport
Digital Noise Reduction	2D&3D Digital Noise Reduction
EPTZ	Support
Auto Focus	Support（Teacher machine)
PoC	Support
PoE	Support
Select Lens I/II	Corresponding to the teacher/ student tracking mode, respectively

▼ I/O

HD Output	1 x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard, PoC supported
Network	1 x RJ45: 10M/100M/1000M adaptive Ethernet，PoE support
Interface　USB	1 x USB2.0, Type-A
Interface	1 x LINE IN: 3-core phoenix interface
Audio Interface	1 x RS485: 2-core phoenix interface，Max. distance 1200m, VISCA/Pelco-D/Pelco-P protocols
Control　Interface	DC005 type （DC12V)
Power Interface	

▼ Generic Spec

Input Voltage	DC 12V / PoC / POE (802.3af)
Input Current	0.5A（Max.)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6W（Max.)
Dimension	72mm (W) x 60mm (D) x 130mm (H)
Net Weight	0.37kg

▼ Network Spec

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream Third Stream,Fourth Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576, etc.
Second Stream Resolution	3840×2160，1920x1080, 1280x720, etc.
Third Stream Resolution	1920x1080, 1280x720, 1024x576, etc.
Fourth Stream Resolution	1024×576，960×540，720×576(50Hz)，720×480(60Hz)，720×480, etc.
Video Bit Rate	32kbps~16384kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Compression	AAC、G711A
Audio Bit Rate	96Kbps，128Kbps，256Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB/T 28181, Multicast, etc.

Interface Diagram

1 —— DC 12V		5 —— NET	
2 —— Indicator Light		6 —— USB2.0	
3 —— RS485		7 —— LRG	
4 —— Control Switch		8 —— SDI	