Dual-lens 4K Intelligent Auto Tracking PTZ Camera
UAI4VX800I2

Dual Lens · **4K ULTRA HD** / **4KUHD** · **AI Smart Tracking** · **Smart Guide** · **Multiple Interface**

Dual-lens 4K PTZ camera, equipped with high quality 4K 1/2.5' CMOS sensor and ~12X, 71°HFoV lens, built-in omidirectional microphones, provide a smart solution for live streaming, conferencing and education.

Features

4K UHD
Use a high -quality 1/2.5 inches UHD CMOS sensor with 8.51 million pixels. Support max 4K30fps image output and multiple lower resolutions like 720p.

12×Optical Zoom + 71°Wide -angle Lens
4K optical lens, support max 12× optical zoom and 71° horizontal field of view, can cover the demand of Extra-large conferencing room and other scenarios need larger optical zoom.

Panoramic Lens Perspective
The panoramic lens perspective is adjusted (-15 ° ~ +15 °).

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

Integration Design
The All-in-one integration outputs multiple panoramic and close-up HD videos.

Microphone2
The built-in microphone array offers omnidirectional pickup within an effective range up to 6m. The proprietary noise suppression algorithm helps record voice perfectly.

Gravity Sensor1
Support image flipping, apply to head-up/head-down installation.

Multiple Interfaces
HDMI1.4b, 3G-SDI(Up to 150meters transmission with 1080P30), USB3.0, LAN. Support HDMI, 3G-SDI, USB, LAN streaming simultaneously.

Remark:
1.This function is optional.
2.The maximum pickup distance is obtained from the VHD laboratory test, and the actual distance varies depending on the user's environment.

Product Specification

▼ Camera Spec of Close-up Camera

Signal System	HDMI: 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25; SDI: 1080P30, 1080P25;
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Lens	12x, f=4.4mm~52.8mm, F1.8~F2.6
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	3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Angle	±170°
Tilt Angle	±30°
Pan Speed	1.61° ~ 75.56°/s
Tilt Speed	0.44° ~ 15°/s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°

▼ Camera Spec of Panoramic Camera

Signal System	HDMI: 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25; SDI: 1080P30, 1080P25;
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Type of Lens Mount	M12
Lens I	Focal length: f=8.0mm, Horizontal FOV: 48°
Lens II	Focal length: f=1.97mm, Horizontal FOV: 107°
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	3D Digital Noise Reduction
Backlight Compensation	Support
Image Freeze	Support
Image Flip	Support

▼ I/O

HD Output	1 x HDMI, Version 1.4b; 1 x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard

Interface Diagram

1 —— NET	7 —— LINE IN
2 —— USB2.0	8 —— 3G-SDI
3 —— RS232 IN	9 —— USB3.0
4 —— RS232 OUT	1 —— DC 12V
5 —— RS485	0 —— ON/OFF
6 —— HDMI	1
	1
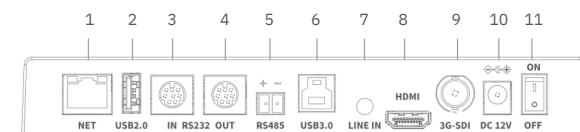
Network interface	1 x RJ45: 10M / 100M /1000M adaptive Ethernet; PoE+ supported
Audio Interface	1 x LINE In: 3.5mm Jack
USB Interface	1 x USB 3.0: Type-B ; 1 x USB2.0: Type-A
Control Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only
Power Interface	1 x DC-005/Φ2.0 type （DC IN 12V）

▼ Network Spec

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream, Third Stream, Fourth Stream
First Stream, Second Stream Resolution	3840x2160,1920x1080,1280x720,1024x576 etc.
Third Stream, Fourth Stream Resolution	720x480, 320x240 etc.
Video Bit Rate	32kbps~51200kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Compression	AAC、G711A
Audio Bit Rate	96Kbps，128Kbps
Protocols	NDI®|HX2,SRT,TCP/IP,HTTP,RTSP,RTMP/RTMP(s),Onvif,DHCP,GB/T28181. Multicast etc.

▼ USB Spec

Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, Mac OS X, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUV / H.264 / MJPEG /NV12
Video Format	YUY2: Max.1080P30; H.264 AVC: Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30
USB Audio	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

▼ Generic Spec

Input Voltage	DC 12V/PoE+ （802.3at）
Input Current	2A （Max.）
Operating Temperature	-10℃ ~ 40℃
Storage Temperature	-40℃ ~ 60℃
Power Consumption	18W （Max.）
Dimension	200mm (W) x 177mm (D) x 165mm (H)
Net Weight	1.76kg