Minrray

UV510K Series

4K UHD PTZ Camera

- **Ultra High-definition Image:** Equipped with a 1/2.8-inch 8.42-megapixel high-quality image sensor, resolution is up to 38400x1920 with frame rate at 60 fps
- **Leading Auto Focus Technology:** Fast, accurate and stable auto focusing technology
- **Multi-Format Video Outputs:** Supports HDMI, SDI, USB, and wired LAN (POE+ functionality optional); SDI supports transmission up to 100 meters at 1080P60 format
- **Low Noise and High SNR:** Low Noise CMOS effectively ensure high SNR of video. Advanced 2D/3D noise reduction technology is used to further reduce the noise while ensuring image resolution
- **Optical Zoom Lens:** It has 12X/20X/30Xoptical zoom lens for options
- **Built-in OLED Display:** Displays output resolution,IP addres
- **Multiple Audio Compression Format:** It supports H.265/H.264 in video compression and AAC, G.711A in audio compression. The resolution can reach up to 3840*2160 at 60 fps.
- **AI Dynamic Tracking:** Equipped with advanced automatic tracking and framing technology, integrating facial and human shape recognition algorithms, providing tracking features for environments such as conference rooms, classrooms, and churches.

Technical Specification

12X(K0)	20X(K1)	30X(K2)
▪ Image Sensor: 1/2.8 inch high quality HD CMOS sensor		
▪ Optical Lens：12X , f=4.1 ～ 49.2 mm	20X , f=5.05 ～ 91.49 mm	30X , f=5.2 ～ 148.4mm
▪ Viewing Angle：6.72°（N）70.4°（W）	3.81°（N）60.04°（W）	2.14°（N）58.1°（W）
▪ Aperture Ratio：F1.8 - F2.68	F1.8 - F2.9	F1.3 - F4.8
▪ Digital Zoom：16X		
▪ Minimum Illumination：0.5Lux(F1.8, AGC ON)		
▪ DNR：2D&3D		
▪ White Balance：Auto/Manual/One push/ Specified Color Temperature (2400K-7100K, adjustable in 100K steps)		
▪ Focus：Auto/Manual/One-push		
▪ Iris：Auto/Manual		
▪ Electronic Shutter：Auto/Manual		
▪ BLC(Backlight Compensation)：On/Off		
▪ Dynamic Range：Off/ Dynamic level adjustment		
▪ Video Adjustment:Brightness, Contrast, Sharpness, Horizontal Flip, Vertical Flip, Black and White Mode, Gamma Curve, Electronic Zoom,DCI, Ultra Low Light Mode		
▪ SNR：＞50dB		
▪ Video Format:**HDMI:**3840x2160/1920x1080P60/59.94/50/30/29.97/25;720P60/59.94/50; SDI:1920x1080P60/59.94/50/30/29.97/25;1920x1080I60/50/59.94;1280x720P60/59.94/ 50 **USB interface video format:** YUY2/NV12:1920x1080/1280x720/1024x576/800x600/800x 448/640x480/640x360/480x270/320x180P30/25/20/15/10/5 **H264/H265/MJPG:**3840x2160/1920x1080/1600x896/1280x720/1024x576/960x540/800x600/800x448/720x576/720x480/640x480/640x360/ 480x270/352x288/320x240@60/30/25/20/15/10/5fps **LAN:Master Code Stream:**H264/H265:3840×2160/2592x1944/2304x1296/1920×1080/1280×720@60/30/25/20/15/10/5fps; **Subcode Stream:**H264/H265:1920×1080/1280×720/640×360/640×480/320×240/320x180@60/30/25/20/15/10/5fps;		
Interface		
▪ Interface：HDMI, SDI, LAN(POE+ support), USB3.0, A-IN, RS232-IN,RS232-OUT, RS485, DC12V power supply		
▪ Video output：HDMI,SDI,LAN,USB3.0		
▪ Video compression formats：LAN:H.265, H.264;USB 3.0:MJPG,H264,H.265,YUY2,NV12		
▪ Video Bitrate：64-40960		
▪ Bitrate Control：Fixed Bitrate, Variable Bitrate		
▪ Frequency：50Hz: 1fps ~ 50fps；60Hz: 1fps ~ 60fps		
▪ Audio In Jacket： Dual audio channel 3.5mm linear input		
▪ Audio Output Interface：HDMI,LAN,USB3.0,SDI		
▪ Audio Bitrate：32Kbps,48Kbps,64Kbps, 96Kbps,128Kbps		
▪ Audio Compression Format：AAC,G.711A		
▪ Network Jacket： 1000M Ethernet port, optional POE+ power supply, supports audio and video output		
▪ Network Protocol：RTSP, RTMP, ONVIF, GB/T28181,SRT,NDI(Optional); supports network VISCA control protocol;		
supports remote upgrade, remote reboot, and remote reset		
▪ Control Jackets： RS232-IN,RS232-OUT,RS485		
▪ Serial Communication Protocol：VISCA/Pelco-D/Pelco-P; supports baud rates of 115200/38400/9600/4800/2400		
▪ USB Communication Protocol：UVC (Video Communication Protocol), UAC (Audio Communication Protocol)		
▪ Power Jacket：HEC3800 power socket (DC12V)		
▪ Power Adapter：Input: AC110V-AC220V Output: DC12V/2A		
▪ Input Voltage：DC12V±10%		
▪ Input Currency/Power Consumption：≤1.5A/≤18W		
Monocular Tracking		
▪ Tracking Modes：Off, Real-time Tracking, Stage Tracking, Area Tracking, and Intelligent Framing		
▪ Tracking Distance：Maximum tracking distance up to 18 meters		
PTZ		
▪ Pan：-110°～+110°		
▪ Tilt：-30°～+90°		
▪ Preset Speed：Pan：60°/s, Tilt：30°/s		
▪ Preset Quantity：User can set 255 presets (10 via IR remote control)		

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