



Minrray®

UV510A series Full HD PTZ Camera

Full HD, Wide View Angle, Multi-protocols, Multiple Video Interfaces, Multi-lens

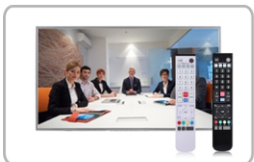
The UV510A series camera offers perfect functions, superior performance and rich interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even under less than ideal bandwidth conditions.

Compatible with all popular applications and cloud systems:



Color Options:
Black / White / gray

Key Features



Multiple Remote Controller

Users can choose infrared remote controller wireless remote controller according to the environmental conditions. 2.4G wireless remote controller is not affected by the angle, distance or infrared interference. Support remote signal pass through function, which is convenient for back-end use.



Superb High-definition Image

UV510A employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.



Trinity image auto-focusing technology

Focus on intelligent image processing, to provide automatic white balance (AWB), automatic exposure (AE), automatic focusing (AF) function, fully automatically adapt to the environment, to achieve the best image effect, perfect trinity image automatic adjustment.



Leading Auto Focus Technology

Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.



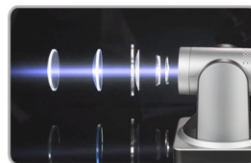
Radio Frequency

adopts 4x4 MIMO and beamforming technology at the transmitting end, with a maximum transmission rate of up to 300Mbps. It has strong penetrating power and long transmission distance; 4 external antennas are used to make the transmission effect better.



Multiple Audio Output Interfaces

Support HDMI, SDI, USB, Wired LAN, Wireless LAN (5G WiFi module and POE optional). SDI supports to transmit 100 meters under the 1080P60 format.



Multiple Optical Zoom Lens

5X, 10X, 12X, 20X, 30X and other optical zoom lens for options. The lens adopts 83.7° wide angle without distortion.



Wide Application

Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

TECHNICAL SPECIFICATION

Model	UV510A-05	UV510A-10	UV510A-12	UV510A-20	UV510A-30
Optical Zoom	5X f=3.1~15.5mm	10X f=4.7~47mm	12X f=3.9~46.8mm	20X f=5.5~110mm	30X f=4.3~129mm
View Angle	20°(tele)--83.7°(wide)	6.43°(tele)---60.9°(wide)	6.3°(tele)--72.5°(wide)	3.3°(tele)--54.7°(wide)	2.34°(tele)--65.1°(wide)
AV	F1.8 – F2.8	F1.6 – F3.0	F1.8 – F2.4	F1.6 – F3.5	F1.6 – F4.7
Sensor	1/2.8 inch high quality HD CMOS sensor				
Effective Pixels	16: 9, 2.07 megapixel				
Video Format	HDMI/SDI/HDBaseT video format: 1080P60/50/30/25/59.94/29.97; 1080i60/50/59.94; 720P60/50/30/25/59.94/29.97				
	U3 interface video format: 1) U3: 1920X1080P60/50/30/25; 1280X720P60/50/30/25; 960X540P30; 640X360P30; 640X480P30;352X288P30; 800X600P30; 2) U3 compatible with U2: 960X540P30; 640X360P30; 1280X720P10/15; 720X576P50; 720X480P60;640X480P30;352X288P30; 800X600P30.				
	U2 interface video format: 176x144/320x240/320x180/352x288/640x480/720x480/720x576/640x360/800X600/960X540/1024X576/1024X768/1280X720/1920X1080P30/25/20/15/10/5				
Digital Zoom	10X				
Minimum Illumination	0.5Lux (F1.8, AGC ON)				
DNR	2D & 3D DNR				
White Balance	Auto / Manual/ One Push/3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K				
Focus	Auto/Manual/One push focus				
Aperture/Electronic Shutter	Auto/Manual				
BLC	ON/OFF				
WDR	OFF/ Dynamic level adjustment				
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve				
SNR	>55dB				

Input/Output Interface

Video Interfaces	UV510A-ST model: SDI, HDMI, LAN, RS232 (input & output), RS485,A-IN, NDI(optional);
	UV510A-U2 model: USB2.0, LAN, RS232 (input & output), A-IN;
	UV510A-U3 model: USB3.0, LAN, RS232 (input & output), A-IN;
	UV510A-HD model: HDBaseT(POE), LAN, A-IN, RS232(input);
	UV510A-HM model: HDMI, LAN, RS232(input);
Video Output Interfaces	UV510A-U2U3 model: USB2.0, USB3.0, HDMI, LAN, RS232(input);
	UV510A-RF model: WiFi(RF), LAN;
Image Stream	HDMI, SDI, LAN(POE for options), USB3.0, USB2.0
Audio Input Interface	Double stream output
Network Interface	A-IN: Double track 3.5mm linear input
Control Interface	100M IP port(100BASE-TX), 5G WiFi (optional)
Power Interface	RS232 (input & output),RS485
	HEC3800 outlet (DC12V)
Power Adapter	2pin waterproof aerial socket (RF model)
Input voltage	Input: AC110V-AC220V; Output: DC12V/1.5A
Input current	DC12V±10%
Power Consumption	1A (Maximum)
	12W(Maximum)

RF parameter

Operating frequency range	5.1—5.9 (GHz)
Transmit power	17dBm
Channel bandwidth	40MHz
Modulation mode	OFDM
Transmission distance	≤300m (Outdoor without blocking)
	≤150m (Indoor without blocking)
Transmission data rate	Max 300Mbps
Anti-interference mode	Manual/automatic channel mode selection

PTZ Parameter

Pan/Tilt Rotation	±170°,-30°~+90°
Pan Control Speed	0.1 -60°/sec
Tilt Control Speed	0.1-30°/sec
Preset Speed	Pan: 60°/sec, Tilt: 30°/sec
Preset Number	255 presets (10 presets by remote controller)

Other Parameter

Dimension	150mm×150mm×167.5mm
Weight (around)	1.4KG
Application	Indoor
Package	Power supply, RS232 control line, USB3.0 connection line (U3 model), USB2.0 connection line (U2 model), Remote controller, Manual

DIMENSION(MM):



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