

UV510A series HD Video Conference Camera



Full HD, PTZ-camera

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 more fluent and clear under low bandwidth conditions.

Key Features:

- **Superb High-definition Image** UV510A adopts **1/2.8 inch**, 2.07 megapixel high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.
- **Multiple Optical Zoom Lens**
5X,10X,12X,20X and other optical zoom lens for options. The lens adopts 83.7° wide angle without distortion.
- **Leading Auto Focus Technology**
Leading auto focus algorithm makes lens auto focus more quickly, accurately and stably.
- **Low Noise and High SNR**
Low Noise CMOS effectively ensure high SNR of camera video. The adoption of advanced 2D/3D noise reduction technology not only further reduces the noise, but also ensuring image sharpness.
- **Multiple Audio Output Interfaces**
Support HDMI, 3G-SDI, USB, Wired LAN, Wireless LAN (optional 5G WiFi module). 3G-SDI supports to transmit 100 meters under the 1080P60 format.
- **Multiple Audio/Video Compression Standard**
Support H.264/H.265 video compression, AAC, MP3 and G.711A audio compression and 1920x1080 resolution with frame rate up to 60fps compression.
- **Audio Input Interface**
Support
8000,16000,32000,44100,48000sampling frequency and AAC, MP3,PCM audio coding.
- **Multiple Network Protocols**
Support ONVIF, GB/T28181,RTSP、RTMP protocols , RTMP push mode, which is easy to link streaming media server (Wowza,FMS), RTP multicast mode and network full command VISCA control protocol.
- **Control Interface**
RS485,RS232. RS-232 supports cascade function, which is convenient for installation.
- **Multiple Control Protocol**
Support VISCA、PELCO-D、PELCO-P ,**NDI** protocols and Automatic identification protocol.
 - **Extremely Quiet PTZ**
Adopting step driving motor mechanism and motor drive controller with high precision is to ensure PTZ works smoothly with low speed and without noise.
- **Low-Power Sleep Function**
Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.
- **Multiple Preset**
Support 255 preset positions (the remote controller is set to 10preset positions).
- **Multiple Remote Controller**
Users can choose infrared remote controller or wireless remote controller according to the environmental conditions.2.4G wireless remote controller is not affected by the angle, distance, infrared interference.
- **Wide Application**
Tel Interrogation and Emergency command systems.

Technical Specification:

Model	UV510A-05	UV510A-10	UV510A-12	UV510A-20	UV510A-30
Camera, Len Parameter					
Sensor	1/2.8 inch high quality HD CMOS sensor				
Effective Pixels	16: 9, 2.07 megapixel				
Video Format	DVI/HDMI/3G-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; 960X540P30; 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				
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)--83.5°(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
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-STmodel: 3G-SDI, HDMI, LAN, RS232(input & output), RS485,A-IN UV510A-U2model: USB2.0, LAN, RS232(input & output), A-IN UV510A-U3model: USB3.0, LAN, RS232(input & output), A-IN UV510A-HDmodel: HDBaseT(POE), LAN, A-IN, RS232(input) UV510A-HMmodel: HDMI, LAN, RS232(input) UV510A-U2U3model: USB2.0, USB3.0, HDMI, LAN, RS232(input) UV510A-RFmodel: WiFi(RF), LAN				
Video Output Interfaces	HDMI、3G-SDI、LAN(POE for options)、USB3.0、USB2.0				
Image Stream	Double stream output				
Video Compression Format	H.264, H.265				

Control Protocol	VISCA/Pelco-D/Pelco-P;Baud Rate:115200/9600/4800/2400bps
Audio Input Interface	A-IN: Double track 3.5mm linear input
Audio Compression Format	AAC/MP3/G.711A
Network Interface	100M IP port(100BASE-TX) 5G WiFi (optional) .
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181, NDI(Optional) , Network VISCA Control Protocol,Support remote upgrade, reboot and reset.
ControllInterface	RS232 (input & output),RS485
Power Interface	HEC3800 outlet (DC12V),2pin waterproof aerial socket (RF model)
Power Adapter	Input: AC110V-AC220V. Output: DC12V/1.5A
Input voltage	DC12V±10%
Input current	1A (Maximum)
Power Consumption	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 (Determined by transmission distance and channel occupancy)
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	
Storage Temperature	-10℃~+60℃
Storage Humidity	20%~95%
Working Temperature	-10℃~+50℃
Working Humidity	20%~80%
Dimension	150mm×150mm×180mm(RF model)
Weight (around)	1.4KG
Using environment	Indoor

Dimension Pictures: (unit:mm)

