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## UV510A series HD Video Conference Camera

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

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.

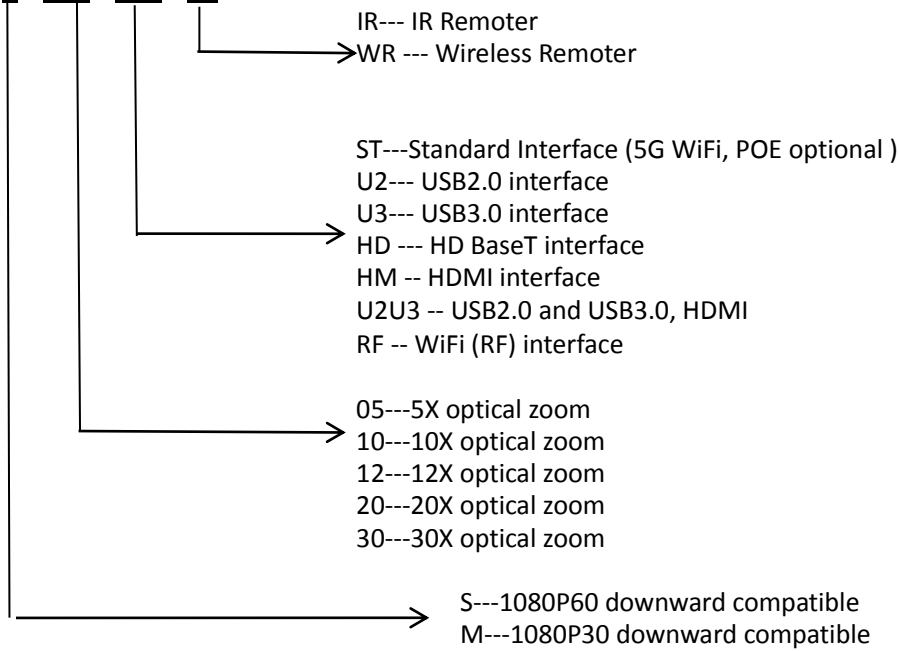


### Key Features

- **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.
- **Leading Auto Focus Technology**  
Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.
- **Low Noise and High SNR**  
Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.
- **Audio Input Interface (for future development)**  
Support 16000, 32000, 44100, 48000 sampling frequency and AAC, MP3, PCM audio coding.
- **Wide-range, Quiet and Quick Pan/Tilt Mechanism**  
By adopting step driving motor mechanism, UV510A camera works extremely quiet and moves smoothly.
- **Multiple Audio/Video Compression**  
Support H.264/H.265 video compression; AAC, MP3 and PCM audio compression; Support compression of resolution up to 1920x1080 with frame up to 60fps and 2 channel 1920x1080p with 30fps compression.
- **Multiple Network Protocol**  
Support NDI, ONVIF, RTSP, RTMP protocols and support RTMP push mode, easy to link streaming media server (Wowza, FMS)
- **RS-232 Cascade Function**  
Support RS-232 cascade function which is convenient for installation.
- **Wide Application**  
Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.
- **Low-power Sleep Function**  
Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

**Order Model No.:**

UV510AX-XXX-XXX-XX



**Technical Specification:**

Model	UV510A-05	UV510A-10	UV510A-12	UV510A-20	UV510A-30
<b>Camera, Len Parameter</b>					
Sensor	1/2.8 inch high quality HD CMOS sensor				
Effective Pixels	16: 9, 2.07 megapixel				
Video Format	<b>DVI/HDMI/3G-SDI/HDBaseT video format:</b> 1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/30/25/59.94/29.97  <b>U3 interface video format:</b> 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.  <b>U2 interface video format:</b> 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				
<b>Input/Output Interface</b>					

<b>Video Interfaces</b>	UV510A-STmodel: 3G-SDI, HDMI, LAN, RS232(input & output), RS485,A-IN <b>NEW UV510A-NDI</b> model: SDI, HDMI, LAN(NDI),RS232(In & Out), 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
<b>Video Output Interfaces</b>	HDMI、3G-SDI、LAN、USB3.0、USB2.0
<b>Image Stream</b>	Double stream output
<b>Video Compression Format</b>	H.264, H.265
<b>Control Protocol</b>	VISCA/Pelco-D/Pelco-P;Baud Rate:115200/9600/4800/2400bps
<b>Audio Input Interface</b>	A-IN: Double track 3.5mm linear input
<b>Audio Compression Format</b>	AAC/MP3/G.711A
<b>Network Interface</b>	100M IP port(100BASE-TX) 5G WiFi (optional) .
<b>Network Protocol</b>	RTSP,RTMP,ONVIF,GB/T28181, <b>NDI(Optional)</b> , Network VISCA Control Protocol,Support remote upgrade, reboot and reset.
<b>ControllInterface</b>	RS232 (input & output),RS485
<b>Power Interface</b>	HEC3800 outlet (DC12V),2pin waterproof aerial socket (RF model)
<b>Power Adapter</b>	Input: AC110V-AC220V. Output: DC12V/1.5A
<b>Input voltage</b>	DC12V±10%
<b>Input current</b>	1A (Maximum)
<b>Power Consumption</b>	12W(Maximum)
<b>RF parameter</b>	
<b>Operating frequency range</b>	5.1—5.9 (GHz)
<b>Transmit power</b>	17dBm
<b>Channel bandwidth</b>	40MHz
<b>Modulation mode</b>	OFDM
<b>Transmission distance</b>	≤300m (Outdoor without blocking), ≤150m (Indoor without blocking)
<b>Transmission data rate</b>	Max 300Mbps (Determined by transmission distance and channel occupancy)
<b>Anti-interference mode</b>	Manual/automatic channel mode selection
<b>PTZ Parameter</b>	
<b>Pan/Tilt Rotation</b>	±170°,-30°~+90°
<b>Pan Control Speed</b>	0.1 -60°/sec
<b>Tilt Control Speed</b>	0.1-30°/sec
<b>Preset Speed</b>	Pan: 60°/sec, Tilt: 30°/sec
<b>Preset Number</b>	255 presets (10 presets by remote controller)
<b>Other Parameter</b>	
<b>Storage Temperature</b>	-10°C~+60°C
<b>Storage Humidity</b>	20%~95%
<b>Working Temperature</b>	-10°C~+50°C
<b>Working Humidity</b>	20%~80%
<b>Dimension</b>	150mm×150mm×180mm(RF model)
<b>Weight (around)</b>	1.4KG
<b>Using environment</b>	Indoor

<b>Accessory</b>	
<b>Random Accessory</b>	12V/1.5A power supply, RS232 control line, USB3.0 connection line (U3 model), USB2.0 connection line (U2 model), remote controller, Manual, warranty card
<b>Optional Accessories</b>	Mounting bracket

**Dimension(mm):**

