UV100T Education Intelligent Auto-tracking Camera

UV100T Education Intelligent Auto-tracking Camera is a dedicated intelligent auto-tracking camera.UV100T Education Intelligent Auto-tracking Camera is built-in with high speed processor, advanced image processing and analysis algorithms to track lecturers and students accurately and quickly, which is in line with the requirements of lecturer capture and remote interactive teaching.

UV100T Education Intelligent Auto-tracking Camera adopts advanced ISP technologies and algorithms, to make a vivid image quality, screen brightness uniformity, strong sense of depth, high-definition, and fantastic color rendition.As a stable, reliable and simple machine to operate, UV100T has full function and high performance. Also it is easy to install and maintain.

Product advantages:

- Integrated design: built-in panoramic camera, to achieve an integrated fusion of panoramic camera and tracking camera.
- Advanced tracking algorithms: the use of advanced human detection, locking and tracking image processing, analysis algorithm to ensure the target tracking steady, accurate and fast.
- Strong anti-interference ability: Once the tracking target is locked, not affected by the disturbances of other moving objects and projectors etc.
- Smooth tracking: The sensitivity of action can be adjusted. Tracking target's small movement or gestures will not cause camera's misoperation.
- Full-frame image recognition: Image detection is performed on each frame of the picture, and the image recognition sensitivity is high. In a complex environment, People and background can be accurately distinguished and tracked. When there are multiple moving targets, it can still track target accurately, and the target loss rate is extremely low.
- Video image auto adaptation: Based on the distance of tracking target, the tracking camera will automatically zoom and the video image will always maintain the appropriate size and proportion.
- Strong environmental adaptability: The tracking performance is not affected by classroom's size, shape and seating arrangement.
- Ultra wide dynamic exposure function: to completely avoid the problem of tracking target darken under the strong light background of projectors etc.

Key Features:

- **Superb High-definition Image**
  UV100T employs 1/2.8 inch high quality CMOS sensor.

  Resolution is up to 1920x1080 with frame rate up to 60 fps.
- **Leading 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 video. Advanced 2D/3D noise reduction technology is used to further reduce the noise, while ensuring image sharpness.
- **Audio Input Interface**
  Support 8000 16000,32000,44100,48000 sampling frequency and AAC,MP3, PCM audio coding.
- **Wide-range, Quiet and Quick Pan/Tilt Mechanism**
  Using step driving motor mechanism, UV100T camera works extremely quiet and moves smoothly without any noises.
- **Multiple Video Compression**
  Support H.264/H.265 video compression. Support compression of resolution up to 1920x1080 with frame up to 60 fps and 2 channels 1920x1080p with 30 fps compression.
- **Multiple Network Protocol**
  Support ONVIF, GB/T28181,RTSP, RTMP protocols and support RTMP push mode, which is easy to link streaming media server (Wowza, FMS), RTP multicast mode and network full command VISCA control protocol.
- **Multiple Control Protocol**
  Support VISCA, PELCO-D, PELCO-P protocols and automatic identification protocol.
- **Low-power Sleep Function**
  Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.
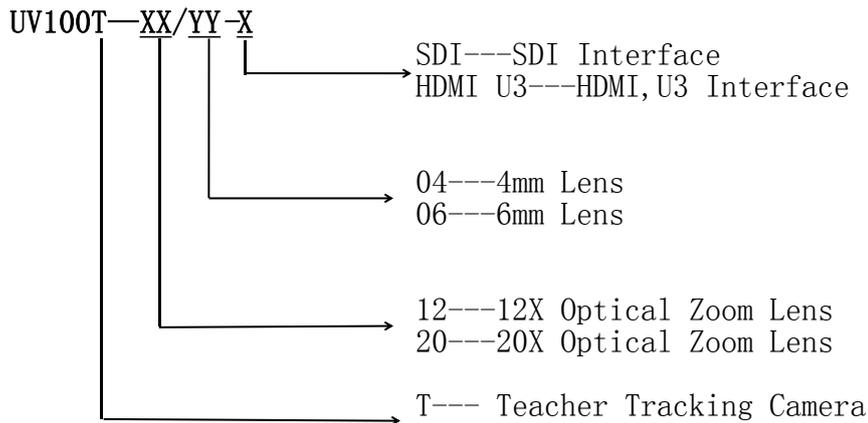
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UV100T—XX/YY-X
                        SDI---SDI Interface
                        HDMI U3---HDMI,U3 Interface


                        04---4mm Lens
                        06---6mm Lens


                        12---12X Optical Zoom Lens
                        20---20X Optical Zoom Lens

                        T--- Teacher Tracking Camera
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Technical Specifications:

Parameters/Model	UV100T-12	UV100T-20
Tracking Camera and Lens Parameter		
Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels	2.07 megapixel; 16:9	
Video Signals	1080P60/50/30/25/59.94/29.97 ,1080I60/50/59.94,720P60/50/30/25 / 59.94 /2 9.97	
Optical Zoom	12x optical zoom f＝3.9～46.8mm	20x optical zoom f＝5.5～110mm
View Angle	6.3°(tele)～72.5°(wide)	3.3°(tele)～54.7°(wide)
Iris	F1.8 ～ F2.4	F1.6 ～ F3.5
Digital Zoom	X10	
Minimum Illumination	0.5Lux(F1.8, AGC ON)	
Digital Noise Reduction	2D ＆ 3D digital noise reduction	
White Balance	Manual/Auto/One Push/ 3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K	
Focus	Auto/Manual/One Push	
Aperture	Auto/Manual	
Electronic Shutter	Auto/Manual	
BLC	ON/OFF	
WDR	OFF/Dynamic Range adjustment	
Video Adjustment	Brightness,Color,Saturation,Contrast,Sharpness,Gamma curve	
SNR	>55dB	
Panoramic Camera		
Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels	2.07 megapixel	
Lens	Manual Focus	

Video Interface	SDI Interface: SDI, LAN; HDMI Interface:HDMI,U3,LAN
4mm Lens View Angle(D/H/V)	89.6°\71°\52.2°
6mm Lens View Angle(D/H/V)	67.0°\59°\32.5°
Input/Output Interface and Protocols	
Video Interface	SDI Interface: SDI, LAN, Dual audio channel 3.5mm linear input ,RS232(IN) HDMI U3 Interface:HDMI,U3,LAN, Dual audio channel 3.5mm linear input, RS232(IN)
Network Interface	100M network interface (10/100BASE-TX) 5G WiFi(optional)
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181, Network VISCA Control Protocol, Support remote upgrade, reboot and reset.
Image Code Stream	Dual stream output
Video Compress Format	H.264,H.265
Control Signal Interface	RS232 Input
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate:115200/9600/4800/2400bps
Audio Input Interface	Dual audio channel 3.5mm linear input
Audio Compression Format	AAC,MP3,PCM
Power Interface	HEC3800 outlet (DC12V)
Pan Tilt Parameter	
Pan Rotation	-170°～+170°
Tilt Rotation	-30°～+90°
Pan Control Speed	0.1 ～100°/s
Tilt Control Speed	0.1～45°/s
Preset Speed	Pan: 100°/s,Tilt:45°/s
Preset Number	User can set up to 255 presets(remoter 10 presets)
Other Parameters	
Supply Adapter	Input AC110V-AC220V to DC12V/2.5A
Input Voltage	Output DC12V±10% POE power supply optional
Input Current	1.5A(Max.)
Consumption	18W(Max.)
Store Temperature	-10℃～+60℃
Store Humidity	20%～95%
Working Temperature	-10℃～+50℃
Working Humidity	20%～80%
Dimension(WxHxW)	253.9mmX179mmX144.7mm
Weight(appr.)	1.54kg
Application	Indoor
Package	Power supply, RS232 control cable, USB3.0 connection cable, Remote controller, User manual
Optional Accessories	Ceiling / Wall Mount (Extra Cost)

Dimension (unit: mm)

Ø72

179

143

4.3

14.6

144.7

253.9

170°

170°

124.2

90°

30°

14

14

14

3-Ø5 Depth 5mm

1/4-20UNC
Tripod hole
Depth 6.5mm