UV100 Series
Educational intelligent auto-tracking Camera

UV100 series is a dedicated intelligent auto-tracking camera,with cutting-edge technology in the field of Education informatization. It includes a lecturer camera UV100T and a student camera UV100S.

UV100 series 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.

UV100 series 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, UV100 series has full function and high performance.Also it is easy to install and maintain.

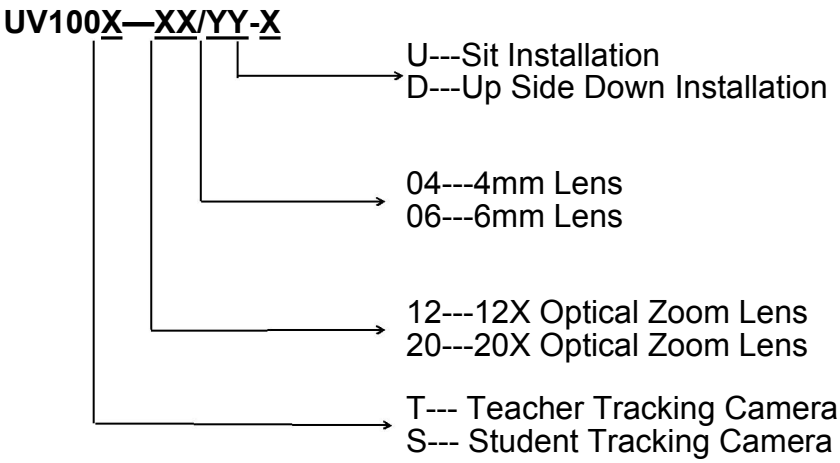
Product advantages:

- 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 mis-operation.
- 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**
  UV100 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 camera 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**
  By adopting step driving motor mechanism, UV100 camera works extremely quiet and moves smoothly without any noises.
- **Multiple Video Compression**
  Support H.264/H.264+ 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,RTSP,RTMP protocols and support RTMP push mode.
- **Low-power Sleep Function**
  Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

Oder No.



Technical Specification

Parameters/Model	UV100T/ S-12	UV100T/ S-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=3.9～46.1mm	20x optical zoom f=4.7～94mm
View Angle	6.3°(tele)～72.5°(wide)	2.9°(tele)～55.4°(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	1/3 inch high quality HD CMOS sensor	
Effective Pixels	2.1 megapixel	
Lens	Manual Focus	
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 LAN **(HDMI, USB3.0 for another model UV100S-T-U)**	
Network Interface	100M network interface (10/100BASE-TX) 5G WiFi(optional), Support VISCA protocol control through IP port	
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181	
Compress Image Code Stream	Dual stream output	
Video Compress Format	H.264,H.265	
Control Signal Interface	RS-232 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 Compress Format	AAC,MP3,PCM
Power Interface	HEC3800 power jacket(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)	254mmX144mmX174mm
Weight(appr.)	1.54kg
Application	Indoor
Remote Maintenance (LAN)	Remote Update,Remote Reboot,Remote Reset
Accessory	12V/2.5A power supply adapter,RS232 control cable,Remote Controller,User Manual,Warranty Card，brackets(optional)

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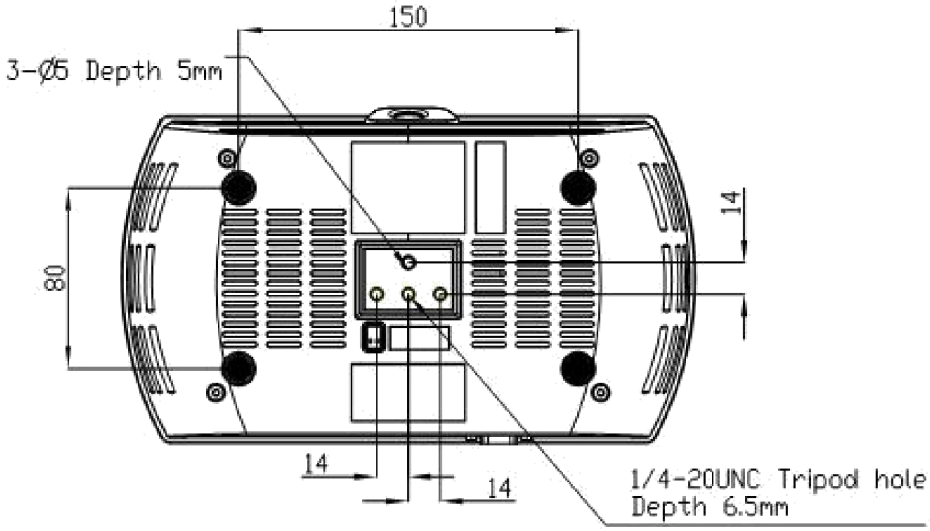
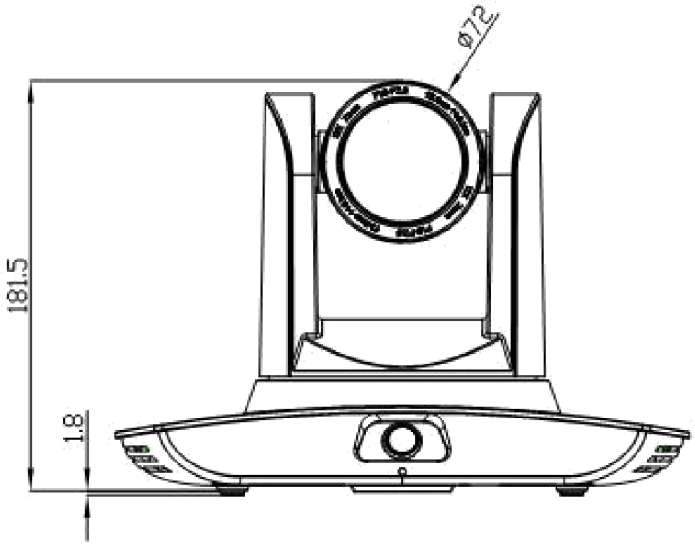
Dimension


150
3-Ø5 Depth 5mm
80
14
14
14
1/4-20UNC Tripod hole
Depth 6.5mm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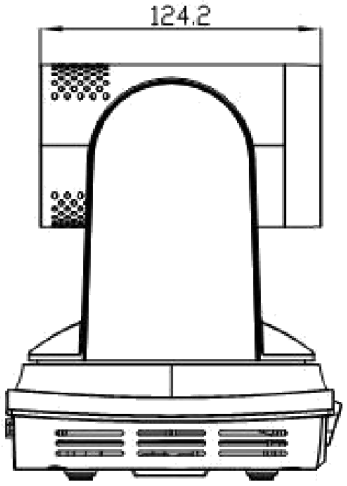
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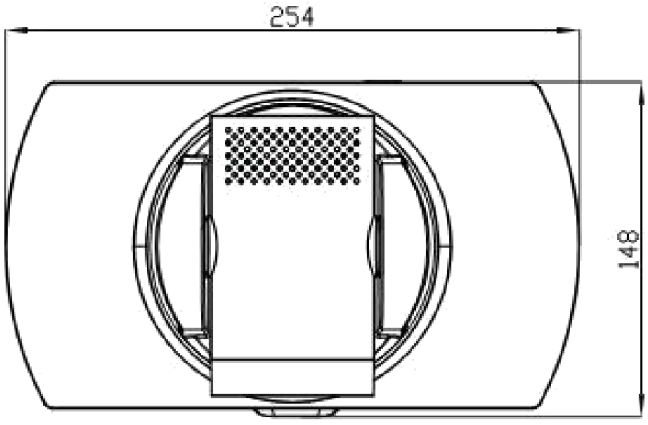
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