# 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.
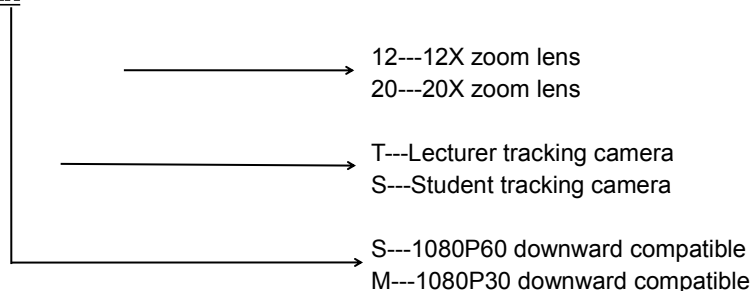
## Key Features

- **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 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.

UV100X—X—XXX

12---12X zoom lens
20---20X zoom lens

T---Lecturer tracking camera
S---Student tracking camera

S---1080P60 downward compatible
M---1080P30 downward compatible

## 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/ 4000K/5000K/6500K | |
| Focus | Auto/Manual | |
| 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 | |
| View Angle(D/H/V) | 122°/98°/73° | |
| Input/Output Interface and Protocols | | |
| Video Interface | 3G-SDI | |
| 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 | |
| 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) |

Dimension|:



3-Ø5 Depth 5mm

150

14

80

14

14

1/4-20UNC Tripod hole
Depth 6.5mm

Ø72

181.5

1.8

124.2

254

148