



Description

This product is a professional camera with outstanding features. It adopts a binocular integrated design, equipped with 8.29MP close-up lens and 4.93MP wide-angle panoramic lens, which can take into account the high definition of students' panoramic coverage and close-up images. The camera has an intelligent teaching tracking function, with the help of built-in advanced image recognition and tracking algorithms, it can achieve smooth tracking without additional auxiliary positioning equipment.

Features

- *Binocular integration : It adopts panoramic + close-up dual-lens design, with 8.29MP close-up lens and 4.93MP wide-angle panoramic lens, which can cover the entire classroom and provide high-definition close-up images;
- *Intelligent teaching tracking : built-in leading image recognition and tracking algorithms, without any auxiliary positioning camera or tracking host to achieve smooth and natural tracking effect;
- *Built-in director : supports external director and built-in director to meet the needs of different recording hosts and interactive terminals. The teacher machine and student machine can be paired to output multi-camera director streams from the network or USB interface.
- *Micro PTZ : The newly designed micro mechanical PTZ has a horizontal rotation range of up to $\pm 40^\circ$ and supports electronic PTZ, which allows you to zoom in and see more clearly. The mechanical PTZ and electronic PTZ are seamlessly combined to reduce the tiny rotation of the mechanical PTZ.
- *0.5 Lux light control performance



Specification

Close-up camera	
Sensor	1/2.7 inches , CMOS , effective pixels 8.29MP
Scanning method	Line by Line
Lens mount type	M12
Teacher close-up	Focal length : f= 7.37 mm , horizontal field of view : 43 °
Minimum illumination	0.5 Lux @ (F2.4 , AGC ON)
Electronic shutter	1/30s ~ 1/10000s
White balance	Auto , Indoor , Outdoor , One-touch , Manual, Specified color temperature
Digital noise reduction	2D & 3D digital noise reduction
Backlight compensation	support
Horizontal rotation range	±40°
Vertical rotation range	+5° ~ -30°
Maximum rotation speed	Horizontal : 60 °/s, Vertical : 30°/s (student)
Horizontal and vertical flip	support
Image freeze	support
Number of preset positions	255
Preset position accuracy	0.5°
Panoramic camera	
Sensor	1/2.7 inches , CMOS , 4.93MP
Scanning method	Line by Line
Lens mount type	M12
Teacher panoramic lens	Focal length : f= 2.2 mm , horizontal field of view : 110 °
Minimum illumination	0.5 Lux @ (F2. 2 , AGC ON)) (Student Panorama)
Electronic shutter	1/30s ~ 1/10000s
White balance	Auto , Indoor , Outdoor , One-touch , Manual, Specified color temperature
Digital noise reduction	2D & 3D digital noise reduction
Backlight compensation	support
Vertical rotation range	+0° ~ -24°
Image freeze	support
Horizontal and vertical flip	support
USB features	
Color space/compression	YUY2/MJPEG/H.264
Video format	Up to 4K and other video formats with different frame rates and resolutions
USB video communication protocol	UVC 1.1
USB audio	Maximum 48K sampling rate, support UAC1.0
UVC PTZ control	
Network characteristics	Maximum 48K sampling rate, support UAC1.0
Video coding standards	H.265 / H.264 / MJPEG
Video stream	The first code stream, the second code stream, the third code stream, the fourth code stream
Close-up main stream resolution	3840x2160 , 1920x1080 , 1280x720 , 1024x576 , 960x540 , 640x480 , 640x360 , 320x240 , 320x180
Panorama main stream resolution	2880x1620 , 1920x1080 , 1920x1080 , 1280x720 , 1024x576 , 960x540 , 720x480 , 640x360 , 480x270 , 320x240 , 320x180
Close-up secondary stream resolution	1920x1080 , 1280x720 , 1024x576 , 960x540 , 720x480 , 640x480 , 640x360 , 480x270 , 320x240 , 320x180
Panoramic secondary stream resolution	1920x1080 , 1280x720 , 1024x576 , 960x540 , 720x480 , 640x480 , 640x360 , 480x270 , 320x240 , 320x180
Video bitrate	32Kbps ~ 16384Kbps
Bit rate control	Variable bit rate , fixed bit rate
Frame rate	25/30fps Default 30fps
Audio compression standards	AAC/G.711A
Audio bitrate	96Kbps, 128Kbps, 256Kbps



Supported agreement	TCP/IP , HTTP , HTTPS , NDI , SRT , RTSP , RTMP , Onvif , DHCP , GB28181 , multicast, etc.
Input and output interface	
USB interface	1-way USB 3.0 TYPE-C
Network interface	1 PoE (802.3af) network port, support 10M/100M adaptive
Audio interface	13.5mm audio input interface , 13.5mm audio output interface , 1 USB audio input and output interface
Reset button	RESET
Indicator lights	POWER blue, STANDBY green
Power interface	DC005 type (DC 12V)
General specifications	
Input voltage	DC 12V/PoE (802.3af)
Input current	1A (MAX)
Operating temperature	0°C ~ 40°C
Storage temperature	-40°C ~ 60°C
Power consumption	12W (MAX)
Mean time between failures	30,000 hours
Dimensions (W*H*D)	242.05*70.5*85.93mm
Net weight	0.62kg