



Stainless Steel Five-lens 360-degree Panoramic Camera

(Anti-Salt, Anti-Water, Anti-Freezing, Anti-Shake, Anti-Corrosion)

Application Scenario:

1. Suitable for wide-angle or full-angle panoramic shooting and monitoring in venues requiring high-definition quality.
 2. The five lenses can be used for 360-degree horizontal angle monitoring.
 3. Applicable for use in harsh environments such as coal mines and ships.
 4. Seamless stitching and panoramic integration. The product module can also be used in products like drones, panoramic smart helmets, and video conferences.
 5. The lens can be replaced with the lens needed for your specific scenario.
- ◇ Full-color high-sensitivity sensor, large aperture lens, providing clearer video stream input.
 - ◇ Resolution up to 4K @ 30fps. At this resolution, it can output an ultra-wide horizontal field of view of over 180° or a 360° panoramic real-time video image. It supports the parallel output of up to five image sensors and supports lossless stitching/fusion.
 - ◇ Supports Micro SD/Micro SDHC/Micro SDXC cards (maximum 256 GB) for local storage and continuous transmission when disconnected from the network. SD card status detection. TF card format: exFAT.

- ◇ Supports backlight compensation, strong light suppression, digital noise reduction, and adaptation to different monitoring environments.
- ◇ Supports red supplementary light.

● Specification

Camera	
Sensor type	1/2.8" Progressive Scan CMOS
Minimum illumination	Colors: 0.005 Lux @ (F1.2, AGC ON) , 0 Lux with Light Colors: 0.0005 Lux@ (F1.0, AGC ON) , 0 Lux with Light
Shutter	1/3 s~1/100,000 s
Switch between day and night modes	IR-CUT Switch between day and night modes Infrared filter mode
Depth of field range	4 mm: 2.1 m~∞
Horizontal field of view	Five lenses: 360°
The camera (the camera can be replaced according to the scene requirements and re-calibrated. It has a maximum lens of 25mm. The panoramic view has a clear visibility radius of over 50 meters.)	
Focal Length & Field of View	Focal length: 2.8mm, Horizontal field of view: ≥ 98°, Vertical field of view: 75° (customized) Focal length: 4mm, Horizontal field of view: ≥ 88°, Vertical field of view: 55° (customized) Focal length: 6mm, Horizontal field of view: ≥ 59°, Vertical field of view: 33° (customized)
Aperture	1.0-2.0
Lens size interface	M12
ICR blue glass	Support
Fill light	
Anti-overexposure of supplementary lighting	Support
Lighting supplement type	Support warm white light for backlighting
Lighting distance	20 meters
Video	
Maximum image size	---1080p, 30fps

	---2K, 25fps ---4K, ≤15fps
Video compression standard	H.264 BP/MP
Video compression bit rate	Adjustable
Video compression standard	G.711 / PCM
H.264 encoding type	BaseLine Profile/Main Profile
Bit rate control	Fixed bit rate, variable bit rate
Network interface and functions	
Interface Protocol (API)	Open network video interface, ONVIF (PROFILE S)
Network Protocol	TCP/IP, ICMP, HTTP, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, QoS, UDP, SSL/TLS
User Management	Up to 32 users: configurable for administrators, operators, and regular users
Network storage	Supports Micro SD/Micro SDHC/Micro SDXC cards (up to 256 GB) for offline local storage and resuming transmission in case of network disconnection. SD card status detection. TF card format: exFAT
Client side	(Independent development)
Browser	Plugin support: IE10, IE11 Local service support: Chrome 57.0+ , Firefox 52.0+
factory data reset	Support the RESET button. The client or the browser will recover.
Other hardware interfaces	
TF/SD card	Standard SD card slot: Stores data
RJ45 connector	Standard Gigabit RJ45 interface: 100M and 1000M Ethernet communication ports
Image	
Switch between day and night modes	Daytime, nighttime, automatic, timed switching
Image enhancement	Backlight compensation, strong light suppression, digital noise reduction

Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance
General norms	
Linking method	Upload NAS/SD card/FTP, upload center, video recording, screenshot capture, alarm output, email
Power supply method	DC: 12 V $\pm$ 25%, Support anti-reverse connection protection
Current and power consumption	DC: 12V 2A
Power interface type	Ø 5.5 m/3.5 Round mouth
Storage, startup and operating temperature and humidity	-30 °C~60 °C, Humidity is less than 95% (no condensation)
Product size	230mm*230mm*120mm*
Equipment weight	8Kg
Certification	
Radiation level	ClassA
Protection	IP66、IP67

■ Full-color high-sensitivity sensor, large aperture lens, providing clearer video stream input.

The resolution can reach 1080p at 30fps. At this resolution, it can output an ultra-wide horizontal field of view of over 180° or a 360° panoramic real-time video image. It supports up to five image sensors for parallel output and also supports lossless stitching/fusion.

■ Supports Micro SD/Micro SDHC/Micro SDXC cards (up to 256 GB) for offline local storage and continuous transmission in case of network disconnection. SD card status detection. TF card format: exFAT.

■ Supports backlight compensation, strong light suppression, digital noise reduction, and is adaptable to different monitoring environments.

■ Supports infrared/warm light for supplementary lighting. The infrared range can reach up to 50 meters, and the warm light range can reach up to 30 meters.

■ It is equipped with 10 built-in microphones, which can be directed towards the sound source for video purposes. It also has a built-in speaker and supports two-way voice communication.