

AC-SG180-12

400 Megapixel effective array camera



Resolution

400MP



FOV

180 degree



Person
Detection
500M



Vehicle
Detection
2000M



Ship
1500M

Overview

The AC-SG180-12 gigapixel array computational camera is an innovative product developed by Shogun based on computational photography. It can provide real-time video streaming at the level of the gigapixel, covering a 180 ° ultra-large field of view and providing ultra- High resolution, meeting the needs of panoramic monitoring and detail monitoring at the same time.

Application



AC-SG180-12 is suitable for situations where ultra-high definition real-time monitoring of dynamic multiple targets within an ultra-wide field of view is required, such as urban high points, sea areas, ports, etc.

Functions

Gigapixel Video

Based on the theory of computational photography, multiple 8K (33 megapixels) videos are mosaicked into a gigapixel level of high resolution real-time panoramic video.

Ultra-large Scene Monitoring

AC-SG180-12 could provide 180° distortion-free monitoring of ultra-wide area and provide high-quality imaging for each detailed area in the scene.

Ultra-high Resolution

With the design of array arrangement, AC-SG180-12 breaks through the resolution limitation of single optical lens and sensors, while realizing the monitoring requirements of ultra-high definition in ultra-large scenarios.

Smart AI Analysis

AC-SG180-12 could full-time automatically detect, locate, identify, track and alarm various types of targets such as people, vehicles, ships and aircraft in ultra-large scenarios.

Easy Deploying

One AC-SG180-12 can cover a large area, effectively reducing the workload of civil construction and equipment installation & debugging.

Flexible Application

The video of AC-SG180-12 can be displayed on mosaic screens, computers, mobile phone, tablet computers and etc. Supports up to 20 users can operate the panoramic video at the same time with the personalized and interactive operation.



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Technical Specification

Technical Parameters	AC-SG180-12
	Basic Parameters
Type of Sensor	Panoramic Lens: 8.3 million 1/1.8" CMOS Detail Lens: 33 million 4/3" CMOS
Number of Lens	13(1 Panoramic lens + 12 Detail lenses)
Field of View	Horizontal: 180°, Vertical: 30°
Minimum Illumination	Color mode: 0.01lux @ F2.8
Electronic Shutter	Automatic/manual (adjustment range: 1s to 1/1000s)
Image Processing	Video adjustment, automatic/manual/outdoor white balance, 3D digital noise reduction, backlight compensation, strong light suppression and fog reduction, wide dynamic
	Video index
Pixel Value	400 million
Resolution	51840×7680
Frame Rate	50HZ: 1-25fps, 60HZ: 1-30fps
Video Compression Encoding	H.264/H.265
Date Rate	Main/sub stream independent output
Output Rate	400-800Mbps
PPM Value	2.5 km, PPM 6; 1 km, PPM 14; 1.3 km, PPM 11; 1.8 km, PPM 8
	Network Interfaces
Support Protocol	TCP/IP, HTTP, RTSP, RTP, RTCP
Interface Protocol	RTSP, GB28181, ONVIF
Network Interface	Two RJ45 1000M Ethernet ports
	General Specifications
Working Temperature and Humidity	Working temperature: -40°C ~ 70°C Humidity: 0%~95%(non condensing)
Protection Design	IP67, lightning protection, surge prevention, antistatic protection
Power Consumption	DC24V±10%, 240W
External Size	510×593×253mm
Net Weight	30kg