

SATIR ACP Series

Air-cooled Protective Barrel Camera - ACP256/ACP384/ACP640

Utilizing advanced dual spectrum thermal imaging technology, these cameras operate on the principle of infrared radiation, providing non-contact, real-time temperature monitoring that is essential for modern industries.

The ACP series stands out due to its robust protection and low power consumption. These cameras are built to withstand harsh environmental conditions, ensuring reliable performance in demanding settings.

Their easy system integration allows for seamless incorporation into existing setups, making them an ideal choice for various industrial applications.

The versatility of the ACP256, ACP384, and ACP640 extends across multiple sectors. From sintering and coking to smelting and rolling, these thermal imaging cameras play a vital role in process control across various facilities.



Key Features

- Application software with analysis tools such as point, line, and area temperature measurement
- Designed to work in hazardous and high temperature environment up to 120 C - IP66
- Optional detector resolution from 256x192 up to 640x512
- Auto crosshair tracking of hot spots
- Temperature range -20 to 650 - optional 2000C
- Shutter correction: timed, differential, or manual
- 3D noise reduction and detail enhancement with adjustable palettes
- Supports mirroring, digital zoom, and local video output
- Compatible with RTSP, ONVIF, and other protocols
- SDK for client integration

Model	ACP256	ACP384	ACP640
Infrared performance			
Detector type	UFPA		
Spectral range	7.5~14μm		
NETD	≤50mK（@30℃）	≤40mK（@30℃）	
IR resolution	256x192	384x288	640x512
FOV	17.4°× 13.1°	24°x18°	32.9°x24.9°
Spatial resolution	1.2mrad	1.3mrad	0.92mrad
Frame rate	30Hz		
Palette	10 pseudo colors including iron red, rainbow, grayscale, etc.		
Analysis tool	Infinite points, infinite boxes, infinite lines		
Temperature range	-20℃ to 410℃, up to 650℃/2000℃(optional)		
Accuracy	±2℃ or ±2% of reading, whichever is greater		
Visual performance			
Sensor type	1/3.02" CSP CMOS		
Visual resolution	2560×1440 pixels		
Focal length	6mm		
FOV	50° x28°		
Minimum illumination	Color: 0.01 Lux@(F1.2, AGC ON) , B/W: 0 Lux with IR		
Fill light function	Infrared fill light, up to 30 meters		
Interface			
Power interface	φ5.5*2.1 DC power interface		
Network interface	10/100M adaptive Ethernet port		
Network Protocol	TCP/IP, IPv4, HTTP, FTP, DDNS, DHCP, RTP, RTSP, UDP, NTP, IGMP, ICMP, ONVIF		
Application Programming Interface	Support standard protocol (ONVIF) and SDK access		
System parameters			
Power supply voltage	DC12V（±25%）/PoE		
Power consumption	<9W		
Operating temperature	Without air cooling: -20℃ to 65℃; With air cooling (example application: 20℃ inlet air temperature, 7 bar pressure): When the gas flow rate is greater than 15.34 m³/h, the instrument operating ambient temperature can reach a maximum of 70℃; When the gas flow rate is greater than 32.54 m³/h, the instrument operating ambient temperature can reach a maximum of 85℃; When the gas flow rate is greater than 37.82 m³/h, the instrument operating ambient temperature can reach a maximum of 100℃; When the gas flow rate is greater than 53.79 m³/h, the instrument operating ambient temperature can reach a maximum of 120℃.		
Encapsulation	IP66		
Weight	5.5Kg		
Shell material	304 stainless steel		