

APC200

Integrated Thermal Monitoring for Process Control



The SATIR APC200 is a compact and highly integrable thermal imaging camera designed for continuous process control and industrial monitoring. Equipped with a 256×192 VOx uncooled infrared detector and a wide 90°×63.5° field of view, it offers high thermal sensitivity (<50mK @ 30°C) to accurately detect temperature anomalies.

The integrated 5MP visible light camera enables dual-spectrum imaging, enhancing diagnostics and reporting. Built for harsh conditions, the APC200 features an IP67-rated aluminum housing, operates in temperatures from -40°C to 65°C, and weighs just 350g. With support for ONVIF, SDK access, PoE power, and standard communication protocols, it integrates easily into industrial systems, making it ideal for 24/7 monitoring of equipment, electrical panels, and production lines.

Key Features

- **256×192 VOX Uncooled Detector** with <50mK thermal sensitivity
- **Wide 90°×63.5° FOV** with 2mm lens for broad-area monitoring
- **Dual-spectrum imaging** with 5MP visible light camera
- **Accurate temperature range** from -20°C to 2000°C (with optional ranges)
- **Rugged, compact build** with IP67-rated aluminum housing
- **Flexible integration**



APC200 Specifications

Infrared Performance

Detector Type	Vanadium Oxide Uncooled Detector
Detector Resolution	256 × 192
Spectral Range	7.5~14μm
Thermal Sensitivity (N.E.T.D)	<50mk (@30°C)
Lens Focal Length	2mm
Field of View (FOV)	90°×63.5°
Spatial Resolution	6mrad
Min. Focus Distance	0.1m
Frame Rate	25 Hz
Color Palettes	Iron Red, Black Hot, White Hot, and total 10 palettes
Measurement Mode	Unlimited points, boxes, and lines
Temperature Measurement Range	-20°C~150°C (Low Range), 0°C~410°C (Medium Range)
Optional Temperature Measurement Range	+300°C~+650°C, +300°C~+2000°C (High Range)
Accuracy	±2°C or ±2% of reading

Visible Light Performance

Sensor Type	1/4" CMOS
Resolution	5 Megapixels
Field of View (FOV)	95.4°×77.2°
Fill Light Function	Supports white light fill-in

Interfaces	
Reset Button	Yes
Ethernet Port	1 RJ45 port
Alarm Input	Supports 1-channel DC 0~3.3 V alarm input
Alarm Output	Supports 1-channel switch output
RS485	Supported
Power Interface	φ5.5*2.1 DC power interface
Video Compression Standard	H.264
Network Protocols	TCP/IP, IPv4, HTTP, FTP, DDNS, DHCP, RTP, RTSP,
Application Programming Interface	Supports standard protocols (ONVIF) and SDK access
System Parameters	
Power Input	DC12V±20%, POE (802.3af)
Power Consumption	Typical ≤4W, Maximum 6W
Operating Temperature and Humidity	-40°C~65°, <90% RH
Encapsulation	IP67
Weight	≤350g
Dimensions (L×W×H)	117mm × 62mm × 37.5mm
Housing Material	Aluminum Alloy

