AT Series
AT20 Online Compact Thermal Imaging Camera

■ Compact thermal imaging camera

1
High-performance
thermal imaging camera

● **Excellent performance**

- 256x192 high resolution.
- Economical thermal imaging solution.

● **Remote operation**

- Support remote start and reset.
- support on-site real-time video and temperature data transmission.

● **Easy to integrate**

- Compact housing.
- Support various communication, network, and monitoring protocols.
- Provide SDK to support all-platform development (Windows\-Linux\Andorid\iOS).

● **High-definition image**

- 50,000 infrared pixels, showing all the details within high-definition images.

2
To see wider and clearer

● Infrared and visible light dual-vision imaging, convenient to observe the actual situation of the scene.

● 56 ° FOV and focus-free design support a wider monitoring area at the same distance.

● 256×192 infrared pixels and 0.04°C temperature resolution provide clear thermal images to distinguish more details and see far.

56°

3

Analyze data efficiently and conveniently

- Support max.16 movable points, lines and areas for temperature measurement.

- Measuring range -20℃~+550℃，making it more possible to monitor more industrial targets with high-temperature requirements.

- Supports segmented video recording.

- 40 mK NETD allows more details of temperature and display.

-20℃

+550℃

4

User friendly, easy to install

- Small size, easy to install, suitable for limited spaces.

- LEDs and button, easy to operate on-site.

- Allow second development via SDK, easier and fast.

- Power supply and networking via POE, simplify wiring.

Application Fields

| Status monitoring | Firefighting detection | Hazardous chemicals monitoring | Cabinet monitoring |

Main Specifications

Model	AT20
Infrared Specification	
Detector Resolution	256×192
NETD	40mK
Frame Rate	30Hz
Lens	3.2mm
FOV	56°×42°
Focusing	Focus-free
Visible light	
Visible Light Pixel	200W (SC2310 CMOS sensor)
FOV	72°×61°
Fill-in Light	LED indicator
Temperature Measurement	
Measurement Range	-20℃~+550℃
Precision	±2℃ or ±2% of reading, (whichever is the greater)
Point	Max. 16 (points, lines, areas)
Line	Max. 16 (points, lines, areas)
Area	Max. 16 (points, lines, areas)
Palettes	18
Environmental Variable Correction	Distance, ambient temperature, emissivity, reflected temperat
Alarm	
Alarm Function	All temperature measurement points, areas, and lines can be provided with separate alarm output
Alarm Input/Output	1-channel alarm input (optoelectronic isolation, 3 - 5.5V) 2-channel alarm output (optoelectronic isolation, 3 - 25V DC, max. 85 mA) Other alarms: image/video storage, file sending (FTP), E-mail (SMTP), flashing light alarm
Protocol	
Network Protocol	TCP、UDP、RTSP、HTTP、SMTP
Interface Protocol	ONVIF、GB28181、Modbus TCP、MQTT
Device Hot Spot	Visit the web management interface via the device hotspot Http
Image Stream	
Image Stream Format	H.264/H.265
Resolution	Visible light 1080P; support 4 times of infrared super-resolution, with the maximum of 1024×768
Image Mode	Thermal image, visible light image, dual-spectrum fusion, detail enhancement; support side-by-side display of visible light images
Frame Rate Adjustment	Support frame rate adjustment
Data Stream	
Data Stream Transmission	Visible light, infrared image, temperature stream, frame rate adjustable
Image Storage	
Storage Medium	Internal 32G memory
Storage Mode	Infrared/visible images, to be stored at the same time
File Format	jpg、mp4
Storage Form	Local storage; can be connected with monitoring system such as NVR
SDK	
SDK	SDK Multi-platform (Android\IOS\Windows\Macs\Linux) SDK that supports users' secondary development
Power	
External Power Supply	12~30V DC
POE	IEEE 802.3af
Power Consumption	≤2W
External Interface	M12 type-A 8-pin, including 10M/100M adaptive Ethernet port and POE power supply; M12 type-A 12-pin, including DC power supply and alarm input/output
Environmental	
IP Grade	IP67
Operating Temperature	-10℃~+50℃
Storage Temperature	-40℃~+70℃
Humidity	≤95% non-condensin
Impact	25G，IEC68-2-29
Vibration	2G，IEC68-2-6
Certifications	CE/FCC/ROHS
Dimension	109×55.9×29.5mm
Weight	appr. 170g
Product and Accessories	
Product and Accessories	AT20 Online Dual-spectrum Thermal Camera, M12 8-pin to RJ45 cable (44cm long), fixtures (screw, install stickers)
Optional Accessories	M12 12-pin to DC interface & alarm input and output cable, front/back bracket