



AT Series

AT20 Online Dual-Spectrum Thermal Imager

High cost-effective temperature and video sensing terminal

Economical and practical

- Video and temperature data acquisition terminal, suitable for IOT;
- Only few hundred dollars.

Flexible configuration

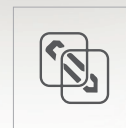
- Fitting Dimensions to adapt to small space installation;
- Compatible with Ethernet and multiple interface protocols such as Modbus TCP;
- Provide SDK to support all-platform development (Windows\Linux\Andorid\IOS).

Remote operation

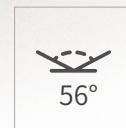
- Support remote reset and upgrade, to reduce the troubleshooting time;
- Remote access to real-time video and temperature data, convenient for back-end real-time analysis, alarm, and system control.

High-Resolution image

- 50,000 infrared pixels to provide high-definition easy-to-read images and help detect tiny temperature differences, which contributes to accurate analysis and judgment of problems.



Dual-spectrum registration to provide clear image



56° FOV to provide wider view



User-friendly software operation interface



Up to 16 measurement areas supported simultaneously



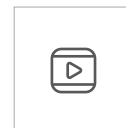
Video/picture to display measurement area



Easy to use segmented video recording



Support separate storage of images



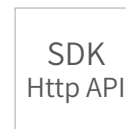
More video streaming settings



EMMC storage



Support multi-channel image output



Provide SDK for easier development



Support WiFi wireless networking

Specifications

Model	AT20
Infrared Specification	
Resolution of Detector	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°C~+550°C
Precision	±2°C or ±2% (The greater shall prevail)
Point	Up to 16
Line	Up to 16
Area	Up to 16
Palette	18
Environmental Variable Correction	Distance, ambient temperature, emissivity, reflected temperature, atmospheric transmissivity
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 hot spot 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	
Ingress Protection Grade	IP67
Operating Temperature	-10°C~+50°C
Storage Temperature	-40°C~+70°C
Humidity	≤95%, non-condensing
Impact Resistance	25G, IEC68-2-29
Vibration Resistance	2G, IEC68-2-6
Authentication	CE/FCC/ROHS
Dimension	109×55.9×29.5mm
Weight	About 170g



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*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice.

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