AT Series Fixed Focusing Online Temperature Measurement Thermal Camera AT31F/61F

AT31F/61F adopts a high-performance VOx detector with high resolution and high sensitivity. Combined with the Matrix III patented image algorithm, it provides clearer images and more temperature details. Its patented intelligent temperature measurement algorithm makes the results more accurate and reliable. Thanks to its characteristics, such as low power consumption, small size, short start-up time, it is professional, simple, and easy to use with its comprehensive analysis software.

- **Observe and analyze the thermal world**

1 Feature-Rich, Easy-to-Use

- Network optimized. Professional software supports multi-camera control.
- -20°C~+550°C wide range temperature measurement makes it possible to monitor more industrial targets requiring high-temperature measurement.
- Optional built-in lenses available. it can output high-quality infrared images and meet the detecting requirements for space-restricted areas and small targets.

2 Dedicated support, work together to form your exclusive advantage

- Provide Windows/Linux/Android SDK to support users' secondary development.
- Support spot, line and area temperature measurement, convenient to access back-end temperature data.
- Provide alarms in multiple ways (I/O output, log, image storage, file sending (FTP), E-mail (SMTP);

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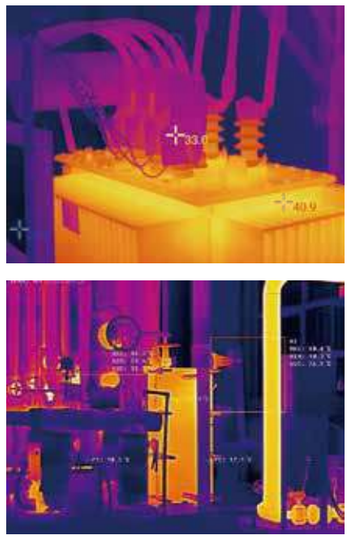
Rich industrial protocols, reliable transmission

- Gigabit/Mbit/adaptive Ethernet interface support real-time transmission of on-site temperature data.
- Easy to integrate, compatible with secondary development for automation application.
- Multiple network protocols, such as TCP, UDP, ICMP, and DHCP, can achieve real-time temperature monitoring and abnormal warning. Compatible with protocols, such as ONVIF and GB28181, it can provide convenience for on-site installation and share analysis and alarm results easily at the same time.



Application Fields

Industrial process control

Quality test

Equipment condition monitoring

Fire warning

R&D test and evaluation

Resolution	384×288							
Lens(mm)	4	6.2	9.7	13	19	25	35	50
FOV(H×V)	90.3°×60.7°	61.5°×45.7°	37.9°×28.7°	20.1°×15.1°	19.5°×14.7°	14.9°×11.2°	10.6°×8°	7.4°×5.6°
IFOV	4.250mrad	2.742mrad	1.753mrad	1.308mrad	0.895mrad	0.680mrad	0.486mrad	0.340mrad
Resolution	640×512							
Lens(mm)	4.1	5.8	9.1	13	19	25	35	55
FOV(H×V)	89°×75°	70°×57°	48°×38°	33°×26°	22°×18°	17°×14°	12.5°×10°	8°×6.4°
IFOV	2.92mrad	2.06mrad	1.31mrad	0.92mrad	0.63mrad	0.48mrad	0.34mrad	0.21 mrad

Main Specifications

Model	AT61F	AT31F
Detector Parameters		
Detector Type	VOx uncooled infrared FPA detector	
Resolution	640×512	384×288
Pixel Pitch	12μm	17μm
Spectral Band	8~14μm	
NETD	<50mk @25°C,F1.0(<40mK Optional)	
Frame Rate	25Hz	50Hz
Image Adjustment		
Polarity	Black hot/White hot	
Palette	Support 18 palettes	
Temperature Measurement Performance		
Measuring Range	-20°C～+150°C, 0°C~+550°C	
High and low gain mode	High-gain mode, low-gain mode, and two modes automatic switching	
Temperature Measurement Accuracy	±2°C or ±2% of the reading (whichever is the greater) @Environment Temperature -20°C~60°C	
Power		
Power Supply Range	9～26V DC	
Power Protection	reverse connection protection	
Typical Power Consumption @25°C	＜3W	
Interface		
Analog Video Output	1 channel video	
Network Interface	RJ45 10M/100M/1000M self-adapted	
Alarm Interface	1 input, 1 output	
Network Protocol	Ethernet/IP, TCP, UDP, SNTP, RTSP, HTTP, ICMP, SMTP, DHCP, UPnP, PPPOE	
Ethernet	Control and transmit images	
Interface Protocol	Support customized ONVIF, GB28181	
Serial Communication Interface	Customizable RS-485, RS-232	
Compression Standard		
Video Compression Standard	H.264/H.265	
Video Format	mp4, mov	
Alarm		
Alarm Function	All temperature measurement points, the highest temperature, lowest temperature and average temperature in all temperature measurement areas can be configured with separate alarm outputs	
Alarm Output	I/O output, log, save image, file sending (FTP), email (SMTP), notification	
Physical Characteristics		
Weight(without lens)	＜150g	
Dimension(without lens)	46.5×48×83 (mm)	
Environment Adaptability		
Operating Temperature	-20°C～+60°C	
Storage Temperature	-40°C～+70°C	
Humidity	5~95%, non-condensing	
Secondary Development		
Secondary Development	Provide Windows / Linux SDK and instruction	
Accessories		
Accessories	Interface cable	