AT Series Automatic Focusing Online thermal imaging AT31/61/1280

■ Observe and analyze the thermal world

AT31/61 is equipped with a compact professional electric focusing lens, which adds flexibility for using & installing and makes it adaptable to more targets. It is equiped with our self-developed high performance, high resolution, and high sensitivity VOx detector. Combined with the Matrix III patented image algorithm, intelligent temperature measurement algorithm, the temperature measurement result is more accurate and reliable, providing professional customers with more comprehensive and accurate thermal imaging products and solutions.

AT1280 1.3 megapixel infrared temperature measurement camera breaks the ceiling of infrared temperature measurement vision, entering a new era of megapixel thermal camera.

1 AT31/61 -- Accurate temperature data transmission

- Built-in various lens with both motorized focus and autofocus. Optional lenses available. Provide more accurate temperatures and output high-quality thermal images.

- 50Hz frame rate and built-in Gigabit Ethernet connection support real-time transmission of on-site temperature data.
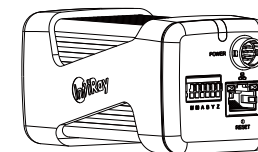
- -20℃~+550℃ wide range temperature measurement makes it possible to monitor more industrial targets requiring high-temperature measurement.

- Patented intelligent temperature compensation algorithm greatly improves measurement accuracy and adding convenience for engineers to pinpoint and troubleshoot the failure.

2 The combination of hardware and software innovation makes AT31 / 61 your ideal powerful equipment

- Multiple network protocols such as TCP, UDP, ICMP, and DHCP, allows real-time temperature monitoring and alarms. Compatible with protocols such as ONVIF, GB28181, and GenICam provide convenience for on-site installation and sharing analysis and alarm results.

- Autofocus makes test and application more convenient.

- Displaying test results of more spots,Lines,and areas provides an easier way for obtaining back-end temperature data, making the application more flexible and conve - nient and reducing the cost.

- Provide SDK and PC software, support customized secondary development, improve practicability and feasibility, and form your unique advantage to customers.

- Comply with RoHS, CE, and other EU Environment-Protecting Directives.

■ 1.3 million pixels high-definition thermal imager

Resolution	384×288					640×512			
Lens(mm)	7.8	13	15	19	25	13	15	17	19
FOV（H×V）	47°×35.6°	29.6°×22°	25°×18.7°	19.6°×14.7°	14.8°×11.1°	33.7°×27°	29.4°×23.5°	25.2°×20.3°	22.8°×18.4°
IFOV	2.17mrad	1.3mrad	1.1mrad	0.89mrad	0.68mrad	0.92mrad	0.80mrad	0.706mrad	0.63mrad

Main Specifications

Model	AT31	AT61	AT1280
Detector Parameters			
Detector Type	VOx uncooled infrared FPA detector		
Resolution	384×288	640×512	1280×1024
Frame Rate	50Hz	25Hz	15Hz(30Hz Optional)
Temperature Measurement Performance			
Measuring Range	-20℃～+150℃，0℃~+550℃		
NETD	<50mk @25℃,F1.0(<40mk Optional)		
Measurement Accuracy @Environment Temperature -20℃~60℃	±2℃ or ±2% of the reading (whichever is the greater)		
Temperature Measurement Tools	Fixed/center spot, highest/lowest temperature measurement; Analysis tool for line/area monitoring;		
Ethernet			
Network Protocol	TCP、UDP、ICMP、DHCP、RTSP、ONVIF		TCP、UDP、ICMP、DHCP、RTSP、GigE vision
Network Interface	RJ45		
Image Adjustment			
Brightness and Contrast Adjustment	Manual/Auto 0 (defaulted)/Auto 1		
Polarity	Black hot/White hot		
Palette	Support 18 palettes		
Image Flip	Horizontal/Vertical/Diagonal Mirror Image		
Area-of-interest	Support		
Lens			
Focal Length	7.8mm/13mm/15mm/19mm/25mm	13mm/15mm/17mm/19mm	19mm
Lens Control	Support auto/manual focusing		
Power Interface			
Power Voltage	10~36V DC		10~16V DC
Typical Power Consumption @25℃	≤3W	≤3.3W	≤6W
Power Protection	Support overvoltage, undervoltage, and reverse connection protection		
Physical Characteristics			
Dimension	55 ×55 × 119 (mm) (L×W×H)		70 ×63 ×143 (mm) (L×W×H)
Environment Adaptability			
Operating Temperature	-20℃~+60℃		
Storage Temperature	-45℃～+85℃		
Impact	30g, 11ms, all axials		
Vibration	4.3g, random vibration, all axials		
Humidity	5%~95%, non-condensing		
Software Support			
SDK	Support		
PC Software	Support		
Environmental Directives			
RoHS2.0	Support		
CE	Support		

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1.3 megapixel infrared temperature measurement,
A whole new thermal world waiting to be explored.

- Most advanced REAL 1.3-megapixel infrared temperature measurement contributes to the future;

- 1280×1024 full-picture temperature measurement thermal imager, providing rich temperature details, can easily cope with large area temperature measurement application of key nodes;

- Can be used in core power equipment inspection, large-scale petrochemical engineering equipment monitoring, high-precision scientific research test and evaluation. Break through the ceiling of infrared temperature measurement imaging and enter the new stage of megapixel.
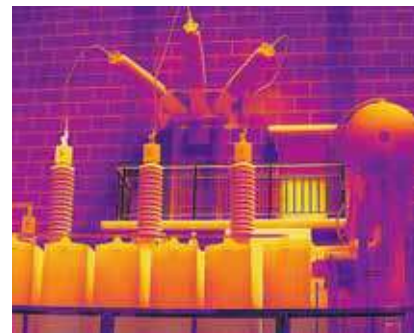
Application Fields

Electrical inspections   Petrochemical equipment monitoring   Automatic control   Firefighting surveillance   R&D test and evaluation