



## AT Series

# AT31U Online Ultra-High Temperature Thermal Imager

Visible Temperature See and Analyze

### Ultra-high temperature Range

The temperature measurement range is up to 1,500°C, which meets the requirements of an ultra-high temperature test.

### High performance

40 mK high resolution, to display temperature details more clearly.  
89.3° wide FOV, to provide wider measurement range.

### Solid and Robust

Small window design and shell can effectively protect the lens and camera body, which is suitable for terrible environment.

$\pm 2^{\circ}\text{C}/2\%$   
0~1500°C

Larger measuring range to meet the demands of ultra-high temperature measurement

384 × 288

Infrared chip for high-definition image

89.3°

Wider FOV to see wider

40mK

High-sensitivity index to display details more clearly

Mini

fitting Dimentions to integrate



Small window to prevent splashing and effectively protect the apparatus



Support multiple protocol interface and support access to AT networking

SDK

Support quick secondary development

## Specifications

Model	AT31U
<b>Imaging and Optical Data</b>	
Resolution	384×288
Heat Sensitivity/NETD	40mk
Image Frequency	40Hz
Focal Length	3.3mm
FOV (H×V)	89.3°×73.1°
IFOV	5.15mrad
<b>Detector</b>	
Detector Type	Uncooled VOx infrared focal plane detector
Wave Band	8~14μm
Pixel Size	17μm
<b>Temperature Measurement</b>	
Temperature Range	0~450°C / 450°C~1500°C
Precision	±2 °C or ±2% (The greater shall prevail)
Measurement Tool	Any fixed point; full-screen high/low temperature capture; temperature measurement at central point; line/area analysis tool; manual temperature range selection.
<b>Interface</b>	
Analog Video Output	1-channel video
Network Interface	RJ45 10M/100M/1000M adaptive
Alarm Interface	1-channel input, 1-channel 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
<b>Image Adjustment</b>	
Brightness and Contrast	Manual/Auto 0 (default)/Auto 1
Polarity	Black-hot/White-hot
Palette	Support 18 pseudo colors
Image Reverse	Left and right/Up and down/Diagonal
<b>Power Supply System</b>	
Typical Consumption @ 25°C	≤3W
External Power Supply and Connector Type	DC power
Voltage	9-26VDC
<b>Environmental</b>	
Operating Temperature	-20°C~+60°C
Storage Temperature	-40°C~+70°C
Humidity (Operating and Storage)	5% - 95% RH (non-condensing)
Impact	30g, 11ms, all axes
Vibration	4.3g, random vibration, all axes
<b>Physical</b>	
Weight	314g±5g
Thermal Imager (L×W×H)	46.5mm × 48mm × 148mm
Shell Material	Aluminum
Product Name and Accessory	Online ultra-high temperature thermal imager, dedicated cables



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