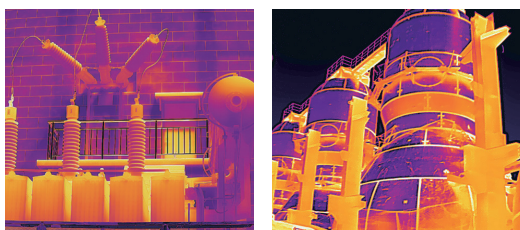




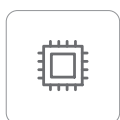
# ATR31

## Motorized Focusing Thermal Camera

ATR31 is a high-performance and high-accuracy electric-focusing thermal camera with an uncooled infrared FPA detector and multiple lenses choose. The device supports multiple protocols such as RTSP, ONVIF, and GB28181. Equipping with professional temperature measurement analysis software and SDK that facilitating system integration. Be suitable for temperature monitoring and imaging in electronic circuits, scientific research, industrial automation and other application fields.

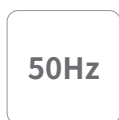


### Product Highlights



**384×288  
infrared resolution**

Clear images



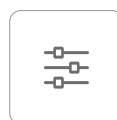
**A frame rate of 50Hz**

High-speed data  
acquisition



**-20°C~+550°C  
Wide measurement range**

Suitable for application in  
multiple scenarios



**Gigabit network interface**

Real-time transmission of  
temperature status



**Electric focusing**

Clear and accurate

### Lens Parameters

Model	ATR31				
Focal Length	7.8mm	13mm	15mm	19mm	25mm
FOV	47°×35.6°	29.6°×22°	25°×18.7°	19.6°×14.7°	14.8°×11.1°
Spatial Resolution (IFOV)	2.17mrad	1.3mrad	1.1mrad	0.89mrad	0.68mrad

## Specifications

### Thermal Imaging Parameters

Detector	Uncooled VOx detector
Infrared Resolution	384×288
Pixel Pitch	17μm
Spectral Band	8μm~14μm
Thermal Sensitivity (NETD)	<50mK

### Temperature Measurement

Measurement Range	-20°C~+150°C, 0°C~550°C
Measurement Accuracy	±2°C or ±2% of readings
Temperature Measurement Correction	Reflected temperature, ambient temperature, atmospheric transmissivity, object emissivity, distance
Measurement Tool	Settings of measurement rules for a total of 12 points, lines and areas, supporting isotherm setting
Temperature Width Stretch	Support temperature width stretch

### Image and Video

Frame Rate	50Hz
Palettes	18 color palettes including black-hot, white-hot, iron red, rainbow, etc.
Video Standards	H.264, H.265
Thermal Image Capture	Support thermal image capture and secondary analysis
Mirroring	Horizontal/Vertical/Diagonal
Digital Zoom	1.0~8.0 continuous zoom (step size: 0.1)

### System Interface

Communication Interface	RJ45, supporting Gigabit network and customized RS485 for Pecol-D protocol
Video Interface	1-channel analog video
Alarm Interface	1-channel alarm output (optional)
Network protocol	TCP, UDP, ICMP, DHCP, RTSP
Interface Protocol	ONVIF, GB28181

### Device Specifications

Operating Temperature	-20°C~+60°C
Power Supply Mode	10~36V DC, POE
Typical Power Consumption	3W
Dimensions	55mm×55mm×110mm
Weight	About 430g

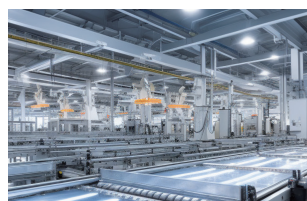
## Applications



Electric Device Routine Inspection



Petrochemical Equipment Monitoring



Automatic Control



Scientific Research and Testing & Evaluation

RayThink Technology Co., Ltd.

Company Address: No.5 Wanshoushan Road, Fulaishan Street, Yantai Area of China (Shandong) Pilot Free Trade Zone  
Postal Code: 264000 Official Website: <http://www.raythink-tech.com> Service Email: [sales@raythink-tech.com](mailto:sales@raythink-tech.com)

\*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without prior notice. Sample No.: G2024-ATR31-2P001