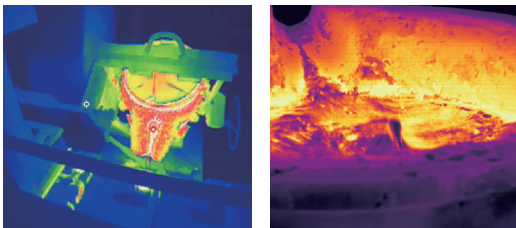




ATR31U

Online High Temperature Thermal Camera

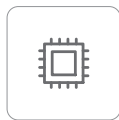
The ATR31U Online High Temperature Thermal Camera is a high-performance and high-reliability industrial-grade thermal imaging device. With its wide measurement range of 1500°C, clear image technology, and intelligent online monitoring function, this product plays an important role in ultra-high temperature industrial environments such as steel smelting, glass manufacturing, and ceramic production.



Product Highlights



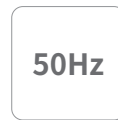
High temperature range
from 0 to 1500°C
Accurate measurement



384×288 infrared
resolution
HD vision



NETD<50mK
Minute temperature
difference resolution



50Hz frame rate output
Quick response



Support multiple protocols
such as Modbus TCP and
ONVIF, Support secondary
development

Lens Parameters

Model	ATR31U
Focal Length	3.3
FOV	89.3°×73.1°
Spatial Resolution (IFOV)	5.15mrad

Specifications

Thermal Imaging Parameters

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

Temperature Measurement

Measurement Range	0°C~400°C; 400°C~1500°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
Palettes	18 color palettes including iron red, black-hot & white-hot, rainbow, etc.
Image Processing	Temperature width stretch, non-uniformity correction, thermal image capture, digital zoom (1-8)

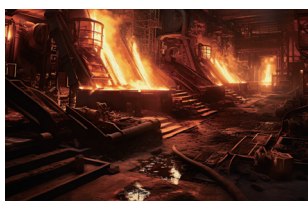
System Interface

Communication Interface	RJ45, supporting Gigabit network; 1-channel RS485, supporting Pelco-D protocol expansion (optional)
Alarm Interface	1-channel alarm input, 1-channel alarm output
Video Interface	1-channel analog video
Video Standards	H.264/H.265
Network Protocol	TCP,UDP,SNTP,HTTP,ICMP,SMTP,DHCP,UPnP,PPPOE,RTSP
Interface Protocol	ONVIF, GB28181, Modbus TCP, Ethernet/IP

Device Specifications

Operating Temperature	-20°C~+60°C
Power Supply Mode	9~26V DC
Typical Power Consumption	3W
Dimensions	46.5mm×48mm×148mm (with 3.3mm lens)
Weight	About 315g

Applications



Steel Casting



High Temperature Materials



Metal Heat Treatment



Rotary Kiln Monitoring

RayThink Technology Co., Ltd.

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*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without prior notice. Sample No.: G2024-ATR31U-2P001