Tianquan Series
Compact Thermal Camera   200

200 Compact Thermal Camera is an ultra-modern thermography tool featuring rotatory lens to provide accurate and intelligent temperature measurement. It is named after the star in the northern circumpolar constellation of Ursa Major - "Megrez".

The unique gravity-sensing UI, rotating menu, and 56° large FOV can satisfy the requirements in special spaces. The 256×192 resolution, 3.5-inch touch screen, and 16G internal memory produce smooth intelligent experiences. Benefiting from the self-developed user-friendly cameratemperature measurement analysis software, P200 makes infrared data analysis easy and efficient. It also supports real-time image analysis through USB and settable alarm threshold and multi-area flexible alarm on one screen. P200 has become the right-hand assistant for operation and maintenance engineers, HVAC engineers, and equipment inspectors.

Rotate to Unlock Your Thermal Potential

01 Rotate: The Vision is Up to You
Free rotating of 90°, for more possibilities

There is no need for user to adapt to the position and angle of the target. With 200 0-90° rotary lens, temperature measurement and inspection have never been so easy and convenient.The gravity-sensing UI can be switched between horizontal and vertical measurement at will. The rotating menu and 56° large FOV are also optimized for wider and taller targets.

■ No Fear of Tall Targets

■ Not Awkward for Low Positions

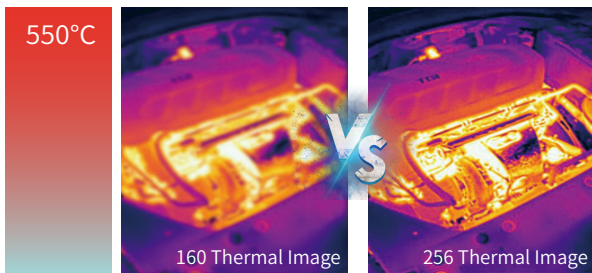

■ No Difficulty in Narrow Spaces

02 Accurate Enough: More Precise and Powerful
One Step Faster to Become the Leader

P200 is embedded with camera self-developed high-sensitivity VOx infrared detector with 256×192 resolution and ≤ 0.04°C. It can provide extraordinary high-definition thermal images with amazing details, higher temperature accuracy, and better troubleshooting. The frame rate of 25Hz makes imaging more smooth. Everything seems more real.

■ 256×192 Resolution, Clear and Accurate

The resolution of 256×192 reveals more temperature details. The temperature resolution of 0.04°C brings high definition. The measurement range up to 550°C satisfies the requirements of high-temperature targets.

550°C

160 Thermal Image · 256 Thermal Image

■ 56° Wide FOV, Efficiently Measurement

Cover ultra-wide area in a glance, providing multiplied inspection efficiency.

56° Wide FOV

LED fill-in light, for all scenarios

6h ultra-long battery life, free you from worries

3.5-inch capacitive touch screen, flexible operations

16G internal memory, storing tens thousands of thermal images

IP54, 2m drop protection

■ One-Hand Operation

Put the overall situation in your hand. P200 is portable, pick-and-play, and reliable, to improve efficiency continuously.

■ 2,000,000-pixle Visible Light at the Same Time

Infrared module for temperature measurement and daylight module for positioning, with fusion and PIP mode to help fast defect locating and improve inspection efficiency.

■ Professional Software and Temperature Analysis

Camera self-developed user-friendly temperature measurement analysis software displays the temperature of points, lines, and areas directly.
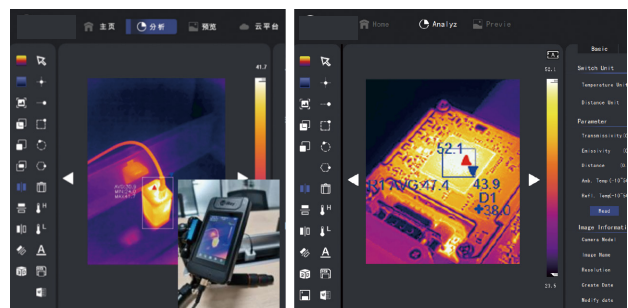

■ Portable or Fixed? Meet more monitoring and analysis requirement

Support USB plug-and-play analysis, flexible alarm threshold setting, and multi-area real-time alarm on one screen
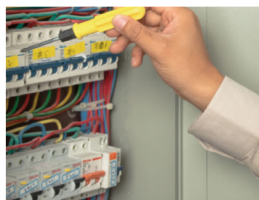
Application Fields

Appliance Repair

Pipeline Inspection

Property Maintenance

HVAC

Vehicle Maintenance

Main Specifications

Model	200
Detector type	Uncooled VOx IRFPA
IR resolution	256*192
Pixel pitch	12μm
IFOV	3.8mrad
Thermal sensitivity	<40mK
FOV	56°x42°
Focal length	3.2mm
Focus mode	Focus free
Temperature measurement range	-20~150℃, 100~550℃
Measurement accuracy	±2℃ or ±2%
Temperature measurement unit	Celsius, Fahrenheit, Kelvin
Emissivity settings	Variable from 0.01 to 1.0
Measurement function	Center spot/Max./Min.
Custom temperature measurement tools	Support up to 10 spots/10 lines/ 10 regions
Image mode	Thermal, dual-spectrum fusion, visible light, PIP
Color palettes	White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC, Black red.
Temperature alarm	Above alam /belwo alarm in full frame
Alarm type	Image alarm
Auto alarm snapshot	Support auto alarm snapshot; Adjustable image quantity and time interval
Time-lapse snapshot	Suppot, variable image quantity and time interval
Image storage	Save image and temperature data
Analysis software	PC (Infrared analysis software) or mobile (IOS/Android APP)
Image annotation	Voice annotation
Image naming	Support auto naming, text input and QR code scanning
Digital zoom	2×, 4×
Visible light	200W
Screen	3.5-inch touch screen (960*640)
Supplement illuminator	Support
Video transmission	Support real-time USB video preview and temperature analysis
Language	English, Japanese, Polish, Russian, Korean, Hungarian, Brazilian Portuguese, German, French, Spanish, Italian, Turkish, Traditional Chinese
Charge indicator	Support
Memory	Built-in 16GB memory card
Battery life	about 6h
Charge time	about 3h
Charge voltage	DC 5V
Power interface	USB Type-C
Auto power off	Auto power off (5min，10min，20min，off)
Tripod Mounting Connector	1/4"-20-UNC
Drop & Encapsulation	2m, IP54
Operating Temperature Range	-10~50℃
Storage Temperature Range	-20~70℃
Camera Dimension	142mmx76mm*19mm
Weight	210g
Accessories	Strap, cables, user documentation, portable bag, certificate of qualification , Calibration Certificate