Main Specifications

| Model | C100 | C200 | |
|---------------------------------------|--|-----------|--|
| Detector Type | VOx uncooled infrared FPA detector | | |
| Resolution | 160×120 | 256×192 | |
| Spectral Band | 8~14 μm | | |
| Pixel Pitch | 12 μm | | |
| NETD | <5 | <50mK | |
| Frame Rate | 2 | 25Hz | |
| FOV | 35.3°×26.7° | 56°×42.2° | |
| IFOV | 3.8mrad | 3.8mrad | |
| Focusing Mode | Focus-free Focus free | | |
| Measuring Range | -20 °C∼ +550 °C | | |
| Temperature Measurement Accuracy | $\pm 2^{\circ}$ C or $\pm 2\%$ of the reading (the larger one shall prevail) | | |
| Temperature Measurement Resolution | 0.1°C | | |
| Measurement Tools | Central Spot measurement/Hotspot and cold spot tracing | | |
| Image Modes | Thermal imaging, fusion, PIP, visible imaging | | |
| Palette | 7 | | |
| Temperature Alarm | Full frame high/low temperature alarm | | |
| Alarm Mode | Support image and LED alarm | | |
| Photo Function | Support, with temperature data | | |
| Secondary Analysis | Provide PC analysis software for secondary analysis of data | | |
| Screen Size | 2.8LCD (320×240) | | |
| Lighting | LED fill-in light | | |
| Storage | Standard 16GB SD card, supporting expansion | | |
| Tripod support | Yes, at the bottom of the handle | | |
| Operating Time | 11h, @25°C indoor | | |
| Charging Time | About 4h, @25°C indoor | | |
| Operating Temperature | -10°C~+50°C | | |
| Storage Temperature | -20°C~+60°C | | |
| Operating Humidity | Relative humidity 10%~95%, non-condensing | | |
| Drop Protection | 2m | | |
| IP encapsulation | IP54 | | |
| Dimension | 237×75×92mm | | |

Company Profile

IRay Technology Co., Ltd. concentrates on developing and manufacturing thermal imaging technologies and products, with completely independent intellectual property rights. IRay committed to providing global customers with professional thermal imaging products and solutions. The main products include IRFPA detectors, thermal imaging cores, and terminal products.

With R&D personnel accounts for 47% of all employees, IRay owns 567 patented technologies in multiple fields, such as the development of IC, the design and manufacture of MEMS sensor, and Matrix III image algorithms.

IRay products have been applied in various fields, such as disease control and prevention, industrial temperature measurement, intelligent surveillance, outdoor observation, automatic driving, AI and machine vision.



IRay Technology Co., Ltd.

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·This manual is illustrative only. Technical specifications are subject to change without prior notice. Sample No.: DY2020Y001-C Printing time: Sept 2020



Tianshu C200

Handheld Thermal Camera

See difference





Tianshu C200 Handheld Thermal Camera adopts the infrared detector with nearly 50000 pixels. It has wide temperature range (-20 °C~+550 °C), infrared+visible light fusion, 7 pseudo colors+4 image modes, 11h working time, IP54 protection grade, and 2m drop-proof. All these advantages can fully meet the various application needs of electrical diagnostics, machinery/equipment maintenance, building inspection, property and household, and other occasions. It is easy to use, professional, and efficient.







Professional Temperature Measurement, Upgraded Functions At Same

☑ 256×192 Resolution

Clearer details help you get rid of fuzzy images. Longer available distance ensures operation safety. More details and smaller targets can be observed at the same distance.







☑ 11h Ultra-long Battery Life

With the Type-C charging interface, it can be fully charged in 4h. With 11h battery life, it is ready to use without worry about power supply.







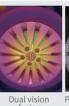
Dual Vision

It has infrared+visible light imaging function. <u>Dual light fusion</u> can better adapt to different observation target scenes.

Thermal Imaging/dual vision fusion/ picture-in-picture/visible light mode

7 pseudo colors can easily locate hot spot and enhance detection efficiency.







☑ -20°C~+550°C Wider Range, Meet More Measurement Needs

From HVAC to automotive maintenance, one good temperature measuring tool is enough.



Powerful Performance, Fast Inspection

■ Built-in high-performance 12µm VOx detector core, providing more delicate images.

☑ 56° FOV

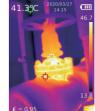
Focus-free design brings large FOV at the same distance. It can cover the entire electric cabinet at 1m distance and scan 10m2 indoor floor at one glance. Inspection in a narrow space has never been easier.

Auto Tracking Of Highest/lowest-temperature Points

The center/highest/lowest temperature point could be displayed in real-time. Image and LED alarm are supported. The alarm threshold could be set for easy troubleshooting.

NETD<50mK

Tiny abnormal temperature point is clear. It is also suitable for the inspection of building quality, material defect, and precision devices.







The center/highest/ lowest temperature

I FD alarm

Image alarm

Friendly Interaction, Simple Design With Rich Functions

5 Buttons Easy Operation, Pick and Scan

Measure temperature with ultra-easy button navigation, no additional training needed. Just unpack and power up.



Durable And Free To Work

IP54 protection supports 2m drop-proof. It can be handheld or installed on a tripod. Everything is to make you free to work.



Inspired By Boxing Gloves, Gravity Center Moves Down, Comfortable To Grip

Its camera trigger has perfect radius with the non-slip texture for better touch. Made of two-color injection molding environmental protection material, the first impression after picking it up is comfortable.

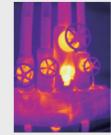


Support PC offline temperature analysis.

The backstage supports professional temperature analysis and image optimization, and the analysis report can be formed with one click.



Application Fields



Pipeline Inspection

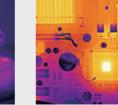












Product Development Automotive Maintenance