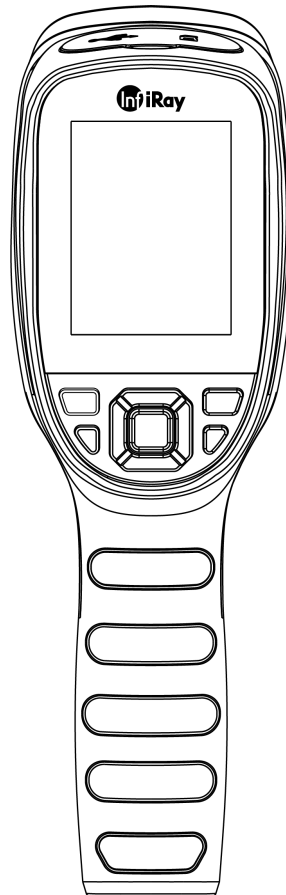




C Series

Handheld Thermal Camera

Technical Data V2.0.0



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1. Overview

1.1 Update Comments

Our manuals are updated several times per year. Please visit our website to access the latest manuals.

1.2 Authorized Release Notes

The authoritative version of this publication is Chinese. In case of divergences due to translation errors, the Chinese text has precedence. Any latest changes are first implemented in Chinese.

2. Technical Data

General Description

With built-in nearly 50,000 pixels (256*192) infrared detector, C series handheld temperature measurement thermal camera is featured with wide temperature measurement range (-20°C~+550°C), focusing-free design, dual-spectrum imaging, long standby time, IP54 encapsulation level, and resistance to drop of 2 meters, which greatly meets the needs of various electrical diagnosis, mechanical equipment maintenance, building inspection, property home use, etc. and is easy to use, professional and efficient.

Advantages

1. Thermal sensitivity <math>< 0.05^{\circ}\text{C}</math>, temperature measuring range is -20°C~+550°C. It is suitable for many applications.
2. 15 hours standby and no worry for power.
3. Fusion of visible light and infrared, and seven palettes.
4. FOV 56° and focus-free design.
5. Support the offline temperature measurement and analysis function of PC, and one-click generation of analysis report, which can meet the professional temperature analysis.
6. IP54 encapsulation makes it withstand two meters fall, durable, and safe to work.

2.1 C200SE+

Thermal Module	
Resolution of Detector	256*192
Infrared Frame Rate	25Hz
Pixel Pitch	12μm
NETD	<40mK
Focal Length	3.2mm
FOV	56°*42°
IFOV	3.8mrad
Focus Mode	Focus-free

Radiometric Function	
Temperature Measuring Functions	Central point/highest/lowest
Temperature Measuring Range	Low:-20~150℃ High:100~400℃ Auto
Temperature Measuring Accuracy	±2% or ±2℃
Temperature Measuring Unit	Celsius, Fahrenheit, Kelvin
Emissivity Setting	Adjustable between 0.01 and 1.0 ,in 0.01 increment

System Functions	
Illumination	Support illuminator and flashlight mode
Image Mode	Thermal
Palette	White hot, Black hot, Iron, Rainbow
Temperature Alarm	The highest and lowest temperature alarm in the full frame
Alarm Method	Image Pop-up, Flashlight Notification, Buzzer Notification
Automatic Alarm Snapshot	Available(with temperature data)
Time-lapsed Image Capture	Available(with temperature data)
Saving Images	Auto, manual
Image Format	JPG(new national grid format)
Video Transmission	Not available
PC Analysis Software	Available

System Functions	
Display Dimension	2.8 inch LCD (320*240)
Memory Card	32GB Micro SD card Support expandable memory up to 128GB
Battery Type	Rechargeable Lithium battery
Power Interface	USB Type-C
Charging Time	About 4hours (shutdown state)
Operation Time	15 hours
Power Management	automatic shutdown:5 minutes, 10 minutes, 20 minutes, off

Others	
Tripod Mounting	Support
Operating Temperature Range	-10°C ~ +50°C
Storage Temperature Range	-20°C ~ +60°C
Relative Humidity	10% ~ 95%, non-condensing
Encapsulation/Drop	IP54/2m
Dimensions(L*W*H)	237*75*92mm
Weight	520g
Accessories	USB cable, 32GB SD card, user documentation, storage bag, certificate of qualification, calibration certificate

2.2 C200+

Thermal Module	
Resolution of Detector	256*192
Infrared Frame Rate	25Hz
Pixel Pitch	12μm
NETD	<40mK
Focal Length	3.2mm
FOV	56°*42°
IFOV	3.8mrad
Focus Mode	Focus-free

Radiometric Function	
Temperature Measuring Functions	Central point/highest/lowest
Temperature Measuring Range	Low:-20~150℃ High:100~550℃ Auto
Temperature Measuring Accuracy	±2% or ±2℃
Temperature Measuring Unit	Celsius, Fahrenheit, Kelvin
Emissivity Setting	Adjustable between 0.01 and 1.0, in 0.01 increment

System Functions	
Illumination	Support illuminator and flashlight mode
Image Mode	Thermal, dual-spectrum fusion, visible light, PIP
Palette	White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC, Black red.
Digital Zoom	2×, 4×
Temperature Alarm	Image Pop-up, Flashlight Notification, Buzzer Notification
Alarm Method	Image Pop-up, Flashlight Notification, Buzzer Notification
Automatic Alarm Snapshot	Available(with temperature data)
Time-lapsed Image Capture	Available(with temperature data)
Saving Images	Auto, manual
Image Format	JPG(new national grid format)

System Functions	
Video Transmission	Support UVC screen mirroring(with temperature data)
PC Analysis Software	Available
Display Dimension	2.8 inch LCD (320*240)
Memory Card	32GB Micro SD card Support expandable memory up to 128GB
Battery Type	Rechargeable Lithium battery
Power Interface	USB Type-C
Charging Time	About 4hours (shutdown state)
Operation Time	15hours
Power Management	automatic shutdown: 5 minutes, 10 minutes, 20 minutes, off

Others	
Tripod Mounting	Support
Operating Temperature Range	-10°C ~ +50°C
Storage Temperature Range	-20°C ~ +60°C
Relative Humidity	10% ~ 95%,non-condensing
Encapsulation/Drop	IP54/2m
Dimensions(L*W*H)	237*75*92mm
Weight	520g
Accessories	USB cable,32GB SD card, user documentation, storage bag, certificate of qualification,calibration certificate

2.3 C200 Pro+

Thermal Module	
Resolution of Detector	256*192
Infrared Frame Rate	25Hz
Pixel Pitch	12μm
NETD	<40mK
Focal Length	3.2mm
FOV	56°*42°
IFOV	3.8mrad
Focus Mode	Focus-free

Radiometric Function	
Temperature Measuring Functions	Central spot/highest/lowest/3 customized spots
Temperature Measuring Range	Low:-20~150℃ High:100~550℃ Auto
Temperature Measuring Accuracy	±2% or ±2℃
Temperature Measuring Unit	Celsius, Fahrenheit, Kelvin
Emissivity Setting	Adjustable between 0.01 and 1.0, in 0.01 increment

System Functions	
Illumination	Support illuminator and flashlight mode
Image Mode	Thermal, dual-spectrum fusion, visible light, PIP
Palette	White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC, Black red.
Digital Zoom	2×, 4×
Temperature Alarm	The highest and lowest temperature alarm in the full frame
Alarm Method	Image Pop-up, Flashlight Notification, Buzzer Notification
Automatic Alarm Snapshot	Available(with temperature data)
Time-lapsed Image Capture	Available(with temperature data)
Saving Images	Auto, manual

System Functions	
Image Format	JPG(new national grid format)
Video Transmission	Support UVC screen mirroring(with temperature data),wireless screen mirroring(without temperature data)
PC Analysis Software	Available
Display Dimension	2.8 inch LCD (320*240)
Memory Card	32GB Micro SD card Support expandable memory up to 128GB
Battery Type	Rechargeable Lithium battery
Power Interface	USB Type-C
Charging Time	About 4 hours (shutdown state)
Operation Time	15 hours
Battery Management	automatic shutdown : 5 minutes, 10 minutes, 20 minutes, off

Others	
Tripod Mounting	Support
Operating Temperature Range	-10°C ~ +50°C
Storage Temperature Range	-20°C ~ +60°C
Relative Humidity	10% ~ 95%, non-condensing
Encapsulation/Drop	IP54/2m
Dimensions(L*W*H)	237*75*92mm
Weight	520g
Accessories	USB cable,32GB SD card, user documentation, storage bag, certificate of qualification,calibration certificate

3. Structural Drawings

