

# AM200F

## Handheld Thermal Camera

The AM200F is equipped with a self-developed 12μm high thermal sensitivity 256×192 infrared thermal imaging detector. Based on intelligent and precise temperature measurement algorithms, HD image algorithms, and cloud services, it strives to be a professional infrared thermal imaging tool with HD images, a large-screen display, and accurate temperature measurement for applications such as electrical maintenance and circuit design.



### Product Highlights

#### Powerful Detector, Clear Imaging

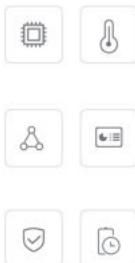
- Equipped with a 256×192 self-developed uncooled infrared detector.
- 40mK thermal sensitivity, capable of distinguishing the minimum temperature difference of 0.04°C, capturing small hot and cold spots.
- 20°C→550°C wide measurement range for monitoring more temperature targets.

#### Fully-Functional Software

- Manually adjusting the temperature range to meet the needs of multiple scenarios and uses.
- Support multiple image modes + multiple palettes to meet the needs of temperature measurement under different requirements.
- The PC software supports real-time image analysis.

#### Hardcore Configuration

- Equipped with a 3.5-inch touch screen, supporting center point, hot and cold spot tracking and temperature display.
- IP54, 2m drop protection
- Standard configuration of 2 quick-removal batteries, with a battery life of up to 8h.



### Specifications

#### Thermal Imaging

Detector Type	12μm uncooled infrared detector
Infrared Resolution	256×192
Spectral Band	7.5-14μm
Thermal Sensitivity (NETD)	<40mK (25°C, F1.0)
Frame Rate	25Hz
Lens Focal Length	7mm
FOV	24.8°×18.7°
Spatial Resolution (IFOV)	1.71mrad
Focus Mode	Manual focusing
Minimum Imaging Distance	0.2m
Measurement Range	-20→150°C, 100→550°C
Measurement Accuracy	±2°C or ±2% of readings, whichever is greater.

#### Image Display

Display	3.5-inch touch screen, 640×480 resolution
Visible Light Camera	2 megapixels
Digital Zoom	1X, 2X, 4X
Palettes	10
Image Mode	Infrared, visible light, PIP, dual-spectrum fusion
Temperature Width Stretch	Automatic/Manual

#### Measurement and Analysis

Analysis Functions on the Device	Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines; Center point/Hot and cold spot tracking and temperature display
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#### Supporting Software

Supporting Software	PC (Infrared Analysis Software)
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#### Image Storage

Storage Medium	Standard 32GB MicroSD, up to 128G
Text Notes	Support
Voice Annotation	Support
Image Naming	Auto/manual naming, naming by scanning QR code

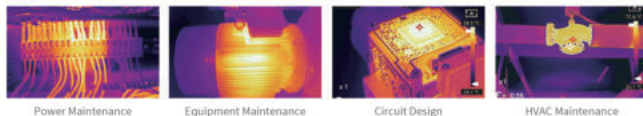
#### System Functions

Communication Protocol	Wi-Fi, USB
Laser Pointer	Support
Video Transmission	Support UVC video transmission

#### Others

Battery	Rechargeable and detachable lithium-ion battery
Charging Mode	USB Type-C or desktop charger
Battery Life	About 8h (about 4h for a single battery)
Interface	USB Type-C, SD card
Tripod Socket	UNC 1/4-20 interface for tripod
Operating Temperature	-10°C→50°C
Operating Humidity	10%~95% (non-condensing)
Storage Temperature	-20°C→60°C
Ingress Protection Rating	IP54
Shock and Vibration	Shock: 25g (IEC 60068-2-27); Vibration: 2.5g (IEC 60068-2-6)
Weight and Dimensions	About 600g, 254.4×105.1×102.3mm
Authentication	CE/RoHS/CMA, etc.
Packing List	Thermal camera ×1, 5V 2A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate, package list, portable cloth bag

### Applications



Power Maintenance

Equipment Maintenance

Circuit Design

HVAC Maintenance