

THERMAL MASTER P2 USB- C Mini Thermal Camera



Model: TM-P2

Manufacturer: THERMAL MASTER

EAN: 6977658980012

Product Code: 1180702

R5,182

THERMAL MASTER P2 Mini Thermal Camera (USB-C)

The Thermal Master P2 is an advanced mini thermal camera for Android smartphones that combines professional measurement capabilities with an exceptionally compact design. Weighing just 10 g and measuring only 31 × 23 × 10 mm, it fits easily in your pocket, and when connected to your phone, it turns it into a precise diagnostic tool. The camera offers an infrared resolution of 256 × 192 pixels, which, thanks to X³IR technology, is interpolated to 512 × 384 pixels, providing a more detailed image. With a measurement range from -20°C to 600°C, an accuracy of ±1.5°C, a thermal sensitivity of NETD ≤40 mK, and low power consumption of just 0.3 W, this is a professional-grade device ready for use in electronics, construction, automotive, and industrial applications.

See more with Razor X™ technology

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At the heart of the camera is a highly sensitive thermal sensor with a resolution of 256×192 pixels and a pixel size of $12 \mu\text{m}$. The Razor X™ Ultra Clear Image Algorithm improves image sharpness and clarity, while X³IR technology increases detail to 512×384 pixels. As a result, the camera allows for clear observation of even very small components, such as 0.25×0.25 mm resistors on PCBs. The wide field of view of $56.0^\circ \times 42.2^\circ$ and 15x digital zoom facilitate both the analysis of large areas and the precise inspection of fine details.

Professional temperature measurement with PCB accuracy

The THERMAL MASTER P2 model was designed for precise diagnostics. The measurement range from -20°C to 600°C allows for temperature monitoring in both home installations and electronic systems or car engines. Accuracy of $\pm 1.5^\circ\text{C}$ and intelligent IQ+ algorithms ensure reliable results, while the ability to set emissivity, distance, and ambient temperature enhances measurement precision under various conditions. The Colorbar feature automatically highlights objects at a specific temperature, significantly speeding up the detection of overheating components and thermal bridges.

Compact design and exceptionally low power consumption

One of the P2's greatest advantages is its portability. The camera weighs only 10 g, so it adds virtually no weight to your smartphone and can be carried with you at all times. Powering it directly from your phone via a USB-C connector eliminates the need to charge a separate battery. Very low power consumption of 0.3 W allows for long operation—from 300 to 480 minutes depending on the device. For example, when used with a Samsung Galaxy S23+ with a 4700 mAh battery, the camera can operate for approximately 367 minutes.

The Comprehensive Temp Master App

The dedicated Temp Master app provides full control over thermal analysis. You can use free tools for spot, line, and surface measurements, save photos and videos, and choose from 12 color palettes, such as White Hot, Black Hot, Iron Red, or Red Hot. Auto Shutter and PIP (picture-in-picture) mode are also available, combining thermal and visible images for easier interpretation of results. The camera is compatible with devices running Android 6.0 and newer and can also be used with tablets and computers.

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Indispensable for work and everyday diagnostics

The THERMAL MASTER P2 is ideal for electrical inspections, HVAC diagnostics, pipe inspections, building energy audits, and automotive repairs. It allows you to quickly detect overheating fuses, insulation leaks, heat loss, underfloor heating issues, or engine malfunctions. Thanks to its compact size, it can be used both in the workshop and in the field, and the included 50 cm USB-C extension cable enhances convenience when working in hard-to-reach areas.

Included:

- Thermal imaging camera
- Protective case with carabiner
- USB-C extension cable
- Quick start guide

Manufacturer	THERMAL MASTER
Model	TM-P2
Infrared (IR) resolution	256 × 192 pixels (12 μm)
Temperature measurement range	From -20°C to 600°C
Temperature measurement accuracy	±1.5°C (PCB-grade accuracy, IQ+ Precision Temperature Measurement technology)
Estimated operating time	300 to 480 minutes (e.g., Samsung Galaxy S23+ with a 4700 mAh battery – approximately 367 minutes of operation)
Power consumption	0.3 W
Zoom	15× digital zoom
Thermal sensitivity (NETD)	≤ 40 mK at 25°C, F#1.0
Refresh rate	25 Hz
Colorbar technology	Highlighting objects at a specific temperature

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Free professional analysis	Point, line, and surface analysis
Color palettes	12 palettes (White Hot, Black Hot, Iron Red, Red Hot, and 8 others)
Temperature correction	Adjustment for emissivity, distance, and ambient temperature
Adaptation method	Smartphone / tablet / computer
Application scenarios	Electrical inspections, HVAC, piping, residential, and automotive
Image algorithm	Razor X™ Ultra Clear Image Algorithm
Infrared core	Thermal Master High-Sensitivity Core
Focus mode	Athermalized prime lens
Field of view (FOV)	56.0° (horizontal) × 42.2° (vertical)
Weight	10 g
Video and Photo Recording	Capable of saving photos and videos
Dimensions	31 × 23 × 10 mm
Operating Temperature	-15°C to 55°C
Storage Temperature	-40°C to 85°C
App Name	Temp Master
Supported OS	Android 6.0 and later

Net weight: 260, Box length: 16,50, Box width: 7,00, Box height: 3,50, Gross weight: 260, GPSR Link: https://psr-assets.innpro.pl/photo_and_accessories/sg_photo_and_accessories_photo_accessories.pdf, Information about data generation: https://dataact.innpro.pl/THERMAL_MASTER/6977658980012