THERMAL MASTER P3 Mini Thermal Imaging Camera for iOS/Android (grey)

Model: TM-P3 Grey

Manufacturer: THERMAL MASTER

EAN: 6977658980661

Product Code: 1736547

R6,617

THERMAL MASTER P3 Mini Thermal Imaging Camera for iOS/Android (Gray)

The THERMAL MASTER P3 is a professional mini thermal imaging camera designed for precise diagnostics of electronics, PCBs, electrical installations, industrial applications, HVAC, and home and automotive inspections. The device uses a 256 × 192-pixel VOx detector and X³IR™ technology, which increases image resolution to 512 × 384 pixels, providing a clear and detailed view of temperature distribution. The camera measures temperatures ranging from -20°C to 600°C with an accuracy of ±2°C or ±2% of the reading, and its thermal sensitivity (NETD) of <35 mK at 25°C allows it to detect even subtle thermal differences. Despite its advanced capabilities, the P3 remains exceptionally compact—it measures 59 × 27 × 17.2 mm, weighs 26.3 g, and consumes only 0.32 W

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of power.

Precise PCB Diagnostics at the 1 mA Level

The P3 was developed with a focus on printed circuit board analysis, making it particularly well-suited for applications where rapid detection of microdefects is critical. The camera enables PCB testing and leakage current detection at the 1 mA level, making it easier to locate problematic components without having to spend time checking the entire circuit. The macro lens with manual focus allows you to precisely adjust the image to small electronic components, and the 4.3 mm focal length supports close-up work. This makes the P3 a practical tool for service centers, electronics engineers, technicians, and device repair professionals.

A thermal image that reveals more detail

X³IR™ technology increases image resolution to 512 × 384 pixels, resulting in a clearer thermal image and easier interpretation of results. The Razor X™ algorithm delivers an ultra-clear image, while the Thermal Master High-Sensitivity Sensor ensures precise mapping of temperature differences. A 25 Hz refresh rate ensures a smooth live view during operation, even when the camera is panned across the area being analyzed. You can also use the 15x digital zoom to take a closer look at specific areas of the image. The THERMAL MASTER P3 also offers 12 color palettes, including White Hot, Black Hot, Iron Red, and Red Hot, as well as 8 other variants. This allows you to tailor the image display to a specific task, surface type, or your personal preferences. The camera allows you to adjust emissivity, correct for distance, and set the ambient temperature, enabling you to better tailor measurements to working conditions. These features are particularly important when analyzing various materials and surfaces that may reflect or emit heat differently.

Wide measurement range for demanding tasks

With a measurement range from -20°C to 600°C, the THERMAL MASTER P3 is suitable for both electronics diagnostics and the inspection of installations, machinery, heating elements, and industrial systems. An accuracy of ±2°C or ±2% of the reading helps ensure reliable results in daily service and inspection work. The camera supports high- and low-temperature alarms, making it easier to spot values outside the expected range. The isotherm feature allows you to highlight a selected temperature range with a distinct color, which speeds up the analysis of areas requiring

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attention. The aircraft-grade alloy housing ensures durability while maintaining a lightweight design.

Smart Measurement and Convenient Data Analysis

The P3 offers comprehensive measurement tools that facilitate the analysis of various areas of the image. You can use 3-point, 3-line, 3-rectangle, and 3-circle measurements, as well as automatic tracking of the center, maximum, and minimum temperatures. IQ+ Precision Temp technology uses a dynamic temperature drift compensation algorithm and intelligent ambient temperature measurement to help maintain the stability and accuracy of readings. Free professional offline data analysis is also available after taking a photo, which is useful for documenting defects and preparing reports.

The Temp Master App and Cross-Device Support

The camera works with the Temp Master app, which can be downloaded from Google Play and the App Store. Supported devices include iPhone 8–16, smartphones running Android 7.0 and later, as well as iPads, Android smartphones, and computers. PC software is available on the manufacturer’s website, allowing you to work not only on the go but also on a larger screen. The P3 supports 12 languages, photo and video recording, and IR and PIP (picture-in-picture) modes.

Included in the package

- Thermal imaging camera
- Carrying case
- USB-C to Lightning adapter
- Extension cable (50 cm)
- User manual

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Model	TM-P3 Grey
Color	Gray
Detector	VOx 256 × 192 pixels (12 µm)

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X³IR™ resolution	512 × 384 pixels
Temperature measurement range	From -20°C to 600°C
Temperature measurement accuracy	±2°C or ±2% of reading
Focal length	4.3 mm
Focusing mode	Macro lens with manual focus adjustment
Printed circuit board testing	Detection of PCB leakage current at 1 mA
Application scenarios	Printed circuit boards, electronics, industrial, HVAC, home and automotive inspections
Compatibility	Connects to iPhone, iPad, Android smartphones, and computers
Supported operating systems	iOS, Android
Digital zoom	15×
Image refresh rate	25 Hz
Thermal sensitivity (NETD)	<35 mK at 25°C
Thermal core	Thermal Master High-Sensitivity Sensor
Razor X™	Ultra-Clear Image Algorithm
IQ+ Precision Temp	Dynamic temperature drift compensation algorithm with intelligent ambient temperature measurement
Temperature measurement	3 points / 3 lines / 3 rectangles / 3 circles, automatic tracking of center, maximum, and minimum temperatures
High/low temperature alarm	Supported
Isotherm	Highlighting of selected temperature ranges with distinct colors
Photo and video recording	Supported
Free professional data analysis	Offline analysis after taking a photo

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Image mode	IR (default), PIP (picture-in-picture)
Color palettes	12 palettes (White Hot, Black Hot, Iron Red, Red Hot, and 8 others)
Measurement parameter correction	Emissivity adjustment, distance correction, and ambient temperature setting
App name	Temp Master
App download	Google Play / App Store
PC software	Available at www.thermalmaster.com
Estimated runtime	300 to 480 minutes (e.g., Samsung Galaxy S23+ with a 4700 mAh battery – approximately 367 minutes of runtime)
Power consumption	0.32 W
Field of view (FOV)	40° × 30.2°
Dimensions	59 × 27 × 17.2 mm
Weight	26.3 g
Housing material	Aviation-grade alloy
Operating temperature	–20°C to 55°C
Storage temperature	–20°C to 60°C
Supported languages	12 languages
Connector	Protrudes 2 mm, compatible with most phone cases

Gross weight: 300, Net weight: 299, Box length: 12,50, Box width: 10,50, Box height: 5,00, GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, PPWR: https://ppwr.innpro.pl/en/thermal_master

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