THERMAL MASTER X2 USB-C Thermal Imaging Camera

Model: TM-X2

Manufacturer: THERMAL MASTER

EAN: 6977658980043

Product Code: 1558565

R6,995

THERMAL MASTER X2 USB-C Mini Thermal Camera

The THERMAL MASTER X2 USB-C is an advanced mini thermal camera that transforms a compatible smartphone with a USB-C port into a precise diagnostic tool with a wide range of applications. It combines high image resolution, a smooth 50 Hz refresh rate, an impressive detection range, and extensive customization options, making it ideal for both technical inspections and field applications. Thanks to the proprietary X³ algorithm, the device generates detailed thermal images, and the 15x digital zoom allows you to observe distant objects with high accuracy. The design is engineered for integration with additional tactical accessories and specialized equipment, making the X2 an extremely versatile solution for demanding users. The kit includes a thermal imaging camera, a mount, and an ArmorX cover.

Clear thermal image

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At the heart of the device is an infrared sensor with a resolution of 256 × 192 pixels, supported by the proprietary X³ Super algorithm. When this technology is activated, the image is upscaled to 512 × 384 pixels, which significantly increases the amount of visible detail and makes it easier to detect small temperature differences. As a result, the camera allows you to more quickly identify overheating components, leaks, and other anomalies that might go unnoticed at standard resolution.

Smooth real-time preview

A 50 Hz refresh rate ensures an exceptionally smooth preview, which is crucial when observing moving objects or working in dynamic conditions. The image responds to camera movement instantly, allowing you to comfortably conduct inspections, patrol an area, or track objects without delays or motion blur. You can take full advantage of the device’s capabilities using the dedicated THERMAL MASTER app, available on Google Play.

Impressive detection range

The THERMAL MASTER X2 allows you to detect heat sources from a distance of up to 476 yards (approximately 435 meters). This range makes the device ideal for terrain observation, patrolling vast areas, and outdoor applications. The camera allows you to see objects far beyond your direct field of view, providing significantly greater control over your surroundings.

Precise digital zoom

The built-in 15× digital zoom allows you to zoom in on areas of interest without having to physically approach the object. It is worth noting that the camera can identify small birds, such as pigeons, from a distance of about 40 yards (approximately 36 meters). The device also offers two advanced image display modes (HD and Highlight). HD mode improves the sharpness and detail of the thermal image, while Highlight mode highlights the most important temperature areas, making it easier to quickly locate critical points. This makes analyzing results simpler and more intuitive, regardless of operating conditions.

Five-position adjustment with settings memory

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The THERMAL MASTER X2 is equipped with a five-position adjustment system, including coordinate memory, settings memory, position adjustment, zoom adjustment, and a precision correction knob. What’s more, with the THERMAL MASTER, you gain up to 270% more efficiency thanks to its short eye relief design. This solution enhances viewing comfort and makes it easier to use the device for extended periods, especially in demanding field conditions or during inspections lasting many hours.

Included

- thermal imaging camera
- mount
- ArmorX case/cover
- user manual

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Model	X2
Detection range	984 yards (person 1.8 m tall)
Magnification	15x zoom
Infrared resolution	256 to 512 pixels
X³ Super algorithm	Supported
Frame rate	50 Hz
20-in-1	ArmorX tactical kit, supports 20 modifications
2-in-1	Thermal monocular + thermography
Focal length	39 mm lens = 13 mm lens ©17 µm
Focus mode	Manual focus
Dual-image mode	HD mode and backlight mode, one-touch switching
Block arc mode	Exclusive patent
Hotspot tracking (hotspot)	Tactical heat tracking
Crosshair	8 shapes + 5 colors, quick switching
Ninja mode	2 meters completely hidden

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Razor X	Supported
Insight+	Supported
Tactical assistant	E-compass/speed/position/weather/time
Professional temperature measurement	Supports correction for emissivity/target distance/ambient temperature
NETD	40 mK (@25°C, F#1.0)
Precise 1Q+ temperature measurement	Supported
Dedicated color palette for outdoor use	Night vision Green/Bird/Hot White/Hot Black/Red Head/Iron Red
Battery life	300–480 minutes (e.g., Samsung Galaxy S23+ with a 4700 mAh battery – 367 minutes)
Application scenarios	Outdoors/camping/off-road/rescue/tactics/hidden camera detection/leak detection in HVAC systems, etc.
Field of view	19.63° x 14.71°
Weight (with lens)	18.5 g
Temperature measurement range	(0°C–100°C)
Operating temperature	(-20°C–60°C)
Dimensions (with lens)	23 mm x 23 mm x 23.8 mm
Video memory	Photo and video recording function
App name	Thermal Master
Operating system	Android 9.0 and later

Net weight: 1040, Box length: 24,00, Box width: 20,50, Box height: 9,50, Gross weight: 1040, 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/_https://dataact.innpro.pl/THERMAL_MASTER/6

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