HM-TP23-10VF/W-M30

Thermographic Handheld Camera

The Thermographic Handheld Camera, specially designed for temperature measurement in transformer substation. It's equipped with a 384 × 288 resolution thermal detector and a 5MP resolution optical light detector. The 3.5-inch touch screen displays picture in picture of optical and thermal view, fusion of both channels. It helps the staff to quickly find the fault according to accurate temperature measurement of high temperature targets in the environment. Meanwhile it provides assistant decision and ensure safety.

Key Features

- 384 × 288 resolution (thermal), and 1080P resolution (optical)
- DDE (Digital Detail Enhancement) technique
- 3D DNR, adaptive AGC (Automatic Gain Control)
- 640 × 480 resolution 3.5'' LCD touch display
- Built-in rechargeable Li-ion battery
- Up to four hours continuous running

Application Scenarios

The device is mainly applied to various industries, such as Power, Photovoltaic, Metallurgy, Piping, Building, Electronics, Telecommunication, Fire control, and Data center, etc.,

Power

Photovoltaic

Metallurgy

Piping

Building

Electronics

Telecommunication

Fire Control

Data Center

Functions

Thermography

Device detects the real-time temperature, and display it on the screen.

Storage

Device is equipped with built-in memory module to store recorded videos, captured snapshots, and important data.

Fusion

Device can display fusion of thermal view and optical view.

Palette and Alarm

Device supports multiple palettes, and you can set the palette mode according to the alarm function

Wi-Fi Function

Device can be connected to Wi-Fi. You can connect the device via Wi-Fi hot spot, and you can view live view, capture, and recording, etc.

Digital Zoom

Device supports 1×, 2× and 4× digital zoom.

LED Light:

LED light supplement makes the device a torch in required scenarios.

Laser Light Supplement:

Long-distance laser light supplement to point the thermography target.

Specifications

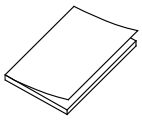
Parameter	Model	HM-TP23-10VF/W-M30
		Thermographic Handheld Camera
Thermal Module	Image sensor	Uncooled Focal Plane Arrays
	Max. Resolution	25Hz: 384 × 288
	Pixel Pitch	17μm
	Response waveband	8μm to 14μm
	NETD	< 40mk (@ 25 °C,F#=1.0)
	Field of View	37.5° × 28.5 °
	Focal length	10 mm (Manual focus)
	IFOV (mrad)	1.7mrad
	Aperture	F 1.0
Optical Module	Max. Resolution	1920 × 1080
	Picture Resolution	Display: 384 × 288; Capture: 1920 × 1080
	Video Resolution	Display: 384 × 288; Record:1920 × 1080
Image Display	Monitor	640 × 480 resolution 3.5'' LCD touch display
	Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
	Digital Zoom	Thermal：1×, 2×, 4×
	Thermal / Optical	Thermal/Optical/Fusion image/Picture in picture
	Picture in Picture	Support Thermal View in Optical View
	Fusion	Support (Thermal View and Optical View Combined)
	Record Video	Support on-board video recording
Thermography	Rules	Max. Temperature; Min. Temperature; Center Temperature; Custom Point/Line/Area Thermometry
	Thermometry Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Thermometry Accuracy	Max (±2 °C, ±2%)
Battery	Battery Type	dismountable and rechargeable Li-ion Battery
	Battery Operating Time	Four hours continuous running
Functions	Laser Light	Support (Point to the thermography target)
	Storage	Built-in memory module (64G)
	Photo	Thermal/Optical/Fusion image
	Video	Thermal/Optical/Fusion image
	Lighting	Support
	Wi-Fi	Support
	Text Comment	Support
	Voice Comment	Support
	Language	English/German/French/Russian/Korean/Spanish/Portuguese/Italian/Japanese/Hungarian/Czech/Slovak/Polish/Romanian/Danish/Turkish/Traditional_Chinese/Arabic
General	Power	12 V DC/1.5A, 5V DC/2A (Charging via USB)
	Power Consumption	Approx. 5 W (Wi-Fi On), 4.2 W (Wi-Fi Off)
	Hardware Interface	micro USB
	Working Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
	Protection level	IP54
	Drop Test Height	2 m (6.56 feet)

	Dimension	244 mm × 100 mm × 104 mm (9.6 ″ × 3.9 ″ × 4.1 ″)
	Weight	Approx. 660 g (1.46 lb)
	Accessory	Battery, Charger, USB cable, Box

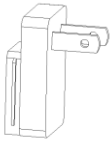
Order Models

HM-TP23-10VF/W-M30

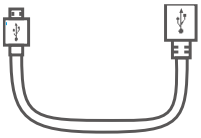
Box Content



QSG (×1)

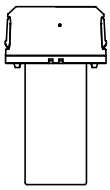


Adapter (x4)

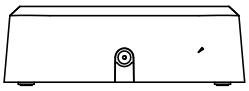


USB Cable (x1)

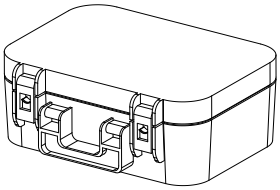
Power Adapter (x1)



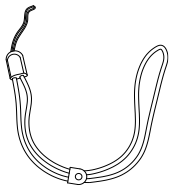
Battery (x1)



Charging Base (x1)

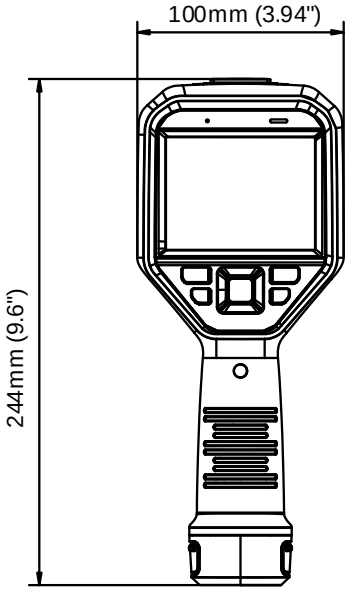


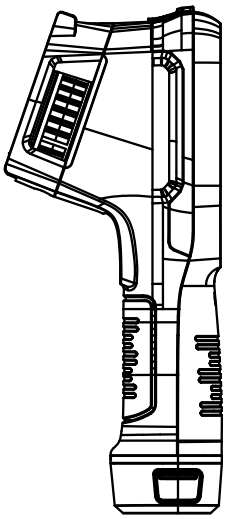
Box (×1)

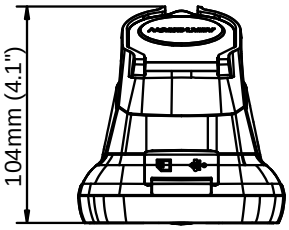


Wrist Strap (x1)

Dimensions







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