IR Thermal Imaging Miracle MobIR® M4

A new milestone in the IR thermal imaging industry is set by MobIR®M4, the first mobile-like pocket IR Thermography camera in the world. Fully integrated design without compromise, robust inspection capability with easy operation, and unmatched affordable price with high reliability, enable MobIR®M4 the sole choice for thermal imaging where never possible before. Get everything expected for a thermal camera and save more than countable, with MobIR®M4 in the palm of your hand.

Features and benefits

- Unimagined & unparalleled design
- Ultra-compact, lightweight & fully integrated
- Easy of carry and operation
- Precision non- contact temperature measurement
- Ultra large capacity in field image storage
- Crisp thermal & visual imaging
- Plug-and-play connectivity
- Lower power dissipation and long durability
- Usability in all weather conditions
- Robust post-processing software
- Affordable price & high reliability
- License free & rapid delivery

Unimagined & unparalleled design

Imagine if an IR Thermography camera looks like a mobile phone. We have done this with MobIR® M4, the first mobile-like pocket IR Thermography camera in the world. Innovative idea and cutting-edge technology create this unique design.

Ultra- compact, lightweight & fully integrated

Though weighing only 265g (with battery) and shaped like a mobile phone, the camera perfectly integrates in its casing thermal and visual cameras, dual LCD displays, built-in blackbody, laser locater and battery bay. Also it offers 8G bit built-in flash memory. None of these parts adversely affects each other's function.

Easy of carry and operation

Rugged and light-weight architecture enables you to carry the camera in the same way as you do for a mobile phone. Play it leisurely under your fingertips, you get all the benefits of an IR camera for inspection programs.

Crisp thermal & visual imaging

With a thermal sensitivity of 0.12°C, the camera detects and captures extremely small temperature differences in high-resolution, noise-free 16-bit thermal images. Sharp digital visual images provided by the built-in visual camera enhance the efficiency further.

Precision non- contact temperature measurement

IR locator

The integrated laser locator helps you accurately associate a hot spot shown in the thermal image with the real physical target.

Auto indication of hot spot and the image center

One cursor automatically indicates the position and temperature of the hottest spot within the image. Another cursor stays at the image center forever to show its temperature and provides a reference for inspection analysis.

Audible and visible alarms

Audio alarm will automatically trigger for a spot with temperature exceeding you preset value. For power insufficiency, both audio and video alarm will produce.

Multiple measurement modes

Simultaneous four- spot & four- area analysis, line profile, isotherm analysis and electronic zoom function expedite comprehensive probe for and pinpointing of potential problems.

Ultra large capacity in- filed image storage

8G bit flash memory enables you to record and store fully radiometric images in the camera. Every file can consist of thermal images, visual images and voice annotation if any. And up to 300 seconds of voice clip can be saved per file.

Plug-and-play connectivity

Connected with a standard USB extension cable, you will download from the camera images, measurement, voice and digital video to PC in a flash. You can also charge the battery through the interface.

Robust post- processing software

Offering extensive range of temperature measuring, image processing and report generating functions, the easy-to-operate Windows- based software highly automates the process of reporting and archiving infrared images, improving professional thermographers' productivity and efficiency.

Affordable price & rapid delivery

Get everything of a high range IR Themography camera at a price even lower than any 160× 120 camera in the market. Without export or import license restriction, you will always get it once you wake up in the morning.

Technical Specifications

Imaging Performance

THERMAL

Detector type:
Uncooled FPA Microbolometer (160× 120 pixels, 35μm)

Spectral Range:
8-14μm

Field of View:
25°× 19°

Thermal Sensitivity:
=<120mk at 30°?

Image Frequency:
50Hz PAL/ 60Hz NTSC, non-interlaced

Electronic Zoom:
×2, ×4 interpolating

VISUAL

Built- in Digital Video:
CMOS Sensor, 640 x 480 pixels, 16777216 colors (16K)

Image Presentation

External Display:
2.2" TFT & 1.2" CSTN high resolution color LCD

Display Color:
256 level, 8 palettes (Rainbow, iron, B&W, etc)

Video Output:
PAL/ NTSC, composite video

Measurement

Temperature Range:
-20°- +200° (Extended Temperature Optional)

Accuracy:
±2oC or ± 2% of reading

Measurement Modes:
Spot / manual (up to 4 moveable), spot / automatic placement at max, area (up to 4 moveable) displaying either max, min, or average, isotherm, line profile, auto alarm

Emissivity Correction:
Variable from 0.01 to 0.99 (in 0.01 increment)

Measurement Features:
Automatic correction based on user input for reflected ambient temperature, distance, relative humidity, atmospheric transmission and external optics

Image Storage

Type:
Built-in Flash memory (8G bit capacity)

File Format:
IRI (An individual file consists of infrared image, visual image and voice annotation if any)

Voice Annotation:
Variant for different files, up to 300 seconds per file

System Status Indication

LCD Display:
Shows status of battery, indication of power

Sound Alarm
Automatic alarm for power shortage

Laser Locator

Classification Type:
Class 2 semiconductor laser

Battery System

Type:
Li-ion battery, rechargeable, filed replaceable

Operating Time:
Over 2 hours continuous operation

Charging System:
In camera (battery charger) or 5V via USB interface from AC adapter (96- 250 VAC)

Power Dissipation:
< 3W

Environmental Specification

Operating Temperature:
-20°- +60°

Storage Temperature:
-20°- +60°

Humidity:
Operating and storing 10% to 95%, non- condensing

Encapsulation:
IP54

Shock:
Operational: 25G, IEC 68-2-29

Vibration:
Operational: 2G, IEC 68-2-6

Interfaces

USB1.1:
Image (thermal & visual), measurement, voice and digital video transfer to PC

Physical Characteristics

Size:
120mm× 60mm× 30mm (Standard Model)

Weight:
0.265Kg (including battery)

Color:
4 colors alternative