Metrix+™
Innovative Excellence

DIGITAL THERMAL IMAGERS

DTI 500

High range Thermal Imager upto 500°C

Measuring principle

Infrared Thermal Imagers usually detect radiation in the long-infrared range of the electromagnetic spectrum (9–14 µm) and produce images of that radiation, allowing to see variation in temperatures of the surroundings.



Applications

These detect temperature changes of everything above absolute zero temperatures, hence have a wide application from non-destructive testing and monitoring of temperatures of structures and electrical equipment, medical imaging, chemical imaging, aerial surveillance, thermography and many more.

Features

- Integrated thermal and visible light imaging to present useful signs, numbers. and other structural characteristics for better analysis, fusion mode
- Data storage in SD card
- Rechargeable battery
- High Thermal Resolution 160x120 with 51 x 63.5 field of view

Technical Specifications

Model	***Metrix+*** DTI 500
Thermal Image Resolution	160*120
Visual Image Resolution	640*480
Measurement Range	-20~500°C (-4~932°F)
Accuracy (Tamb=20~26°C)	±2% of reading, or 2°C(4°F) whichever is greater
Thermal Sensitivity	0.1°C(0.1°F)
Frame Rate	9Hz
Field of View	51*63.5 deg
Emissivity Range	0.95 default – adjustable 0.1 to 1 step .01
Focus	Focus free
LCD (inch)	2.8
LCD Type	Color
Image Storage	Depends on the capacity of the micro SD card. (ex: stores up to 100,000 images, PNG format, for 16G micro SD card)
Memory Type	Support micro SD card up to 32G. (Recommend to use the attached 16G micro SD card)
Spectral Range	8~14um
Interface	USB

Battery Type	3.7V Li-ion rechargeable battery
Battery Life (with backlit)	4 hrs continuous use
Dimensions	96.29 x 74.03 x 233.68mm (3.79 x 2.91 x 9.20 inch)
Weight	345 grams(12.17 oz) including the battery

Pictures



