

# Thermal camera

## MD 9910 Thermal camera

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MD 9910 is a small thermal imager with large ambitions. Frame rate is extremely fast at 50 Hz. 80x80 pixel thermal resolution can show damage on contacts in electrical switchboards or distribution boards, stressed overcurrent or overvoltage protection, or unnecessary friction on motor axle. PCB troubleshooting is made easier by discovering hot spots at close range. At the same time, short focal length allows to go through large areas quickly. Center shot temperature, hot and cold markers give a better sense to the image and its span. Shot images can be immediately transferred to Android device using the app and Bluetooth connection. Span can be set manually to be able to take advantage of its great thermal resolution. Large Li-ion battery allows for 4 to 5h work. It was drop-tested to 2m.



80 x 80  
pixels

### MEASUREMENT FUNCTIONS:

- Temperature;
- Temperature difference.

### KEY FUNCTIONS:

- Very fast frame rate 50 hz;
- Three markers on screen (hottest, coldest, central);
- 5 different palletes;
- Lock and compare feature;
- Temperature in °C, °F or K;
- LED flashlight;
- Android apps for Bluetooth connection;
- Instant share of image over Bluetooth;
- Shooting images from Android app;
- Rechargeable Li-Ion batteries with long life;
- Internal memory;
- Hold image feature.

### APPLICATIONS:

- Troubleshooting electrical installations (switchboards, contacts, busbars, etc.);
- Troubleshooting electrical equipment (motors, transformers, etc.);
- Building and facility maintenance,
- Field service;
- Energy loss analysis;
- Troubleshooting other installations (pipes, carpentry, windows, etc).

## TECHNICAL SPECIFICATION

FUNCTION	
IR sensor resolution	80x80 pixel
Temperature range	-20 – 380°C
Thermal sensitivity/NETD	0,1°C @ 30°C / 100 mK
Thermal accuracy	Higher value $\pm 2^\circ\text{C}$ or $\pm 2\%$
Field of vision	21 x 21°
Spectral range	8 – 14 $\mu\text{m}$
Emmissivity	0.01 – 1.0
Frame rate	50 Hz
Focal length	7,5mm
Spatial resolution	4,53 mrad
Min focus distance	0.5m
Focus	Fixed
Display resolution	240x320 pxl
Color palettes	5
Data storage	20 images
Data communication	Bluetooth
Storage image format	Bmp with temperature and emissivity
Operating temperature	-10°C – 45°C
Storage temperature	-30°C – 55°C
Humidity (storage and operation)	< 80%
Weight	260g
Size	180mm x 60mm x 75mm

## ORDERING INFORMATION



### Standard set (MD 9910)

- MD 9910 Thermal camera
- USB cable
- Non-slip strap
- Carrying case
- Instruction manual

### METREL D.D.

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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
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