

# Thermal camera

## MD 9930 Thermal camera



MD 9930 is the go-to imager for most applications. Extremely versatile, with a great thermal resolution, it can view and check nearly any thermally stressed object. From electrical distribution boards, motors, bearings and friction, to hidden fault finding in the water supply or electrical systems in buildings. It can shoot both thermal, visible light and combined images that help with orientating and locating the fault from the image. Thermal focus is can be set manually and there is 32x digital zoom available. Cursors and central thermometer make images easy to read while thermal videos with high frame rate can follow quick changes in temperature. Audio comments can be added to the videos.

160 x 120  
pixels

### MEASUREMENT FUNCTIONS:

- Temperature;
- Temperature difference.

### KEY FUNCTIONS:

- Very fast frame rate 50 Hz;
- Automatic markers on screen (hot spots, cold spots, central);
- 4 different palletes;
- Lock and compare feature;
- Temperature in °C, °F or K;
- Laser pointer;
- LED flashlight;
- Thermal and visible light videos;
- Simultaneous storage of visible light and IR images for video;
- Live transmission of video over HDMI or USB
- Included 8 GB micro SD card (for more than 6000 images);
- Included card reader for PC;
- PC software for image editing and report building included;
- Li-Ion batteries with long life;
- Internal memory;
- Hold image feature.

### APPLICATIONS:

- Troubleshooting electrical installations and equipment;
- Solar farm inspection;
- Building and facility maintenance,
- Field service;
- Energy loss analysis;
- Troubleshooting other installations (pipes, carpentry, windows, etc).

## TECHNICAL SPECIFICATION

FUNCTION	
IR sensor resolution	160x120 pxl
Temperature range	-20 – 350°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	25° x 19°
Spectral range	8 – 14 $\mu\text{m}$
Emmissivity	0.01 – 1.0
Frame rate	50 Hz
Focal length	9 mm
Spatial resolution	2,78 mrad
Min focused distance	0.5m
Focus	Manual
Visible light camera resolution	5 Mpxl
Visible light lens FOV	59°
Fusion view	yes
Color palettes	4
Display resolution	240x320 pxl
Video format	MPEG-4, 1280x960@30fps
Image format	JPEG, measurement data included
Data storage	100 MB internal + SD card
Data communication	USB, HDMI
IP protection	IP 65
Operation temperature range	-15°C – 50°C
Storage temperature range	-40°C – 70°C
Humidity (operation and storage)	10% – 90%
Drop test	2m
Weight	500g
Size (LxWxH)	224mm x 77mm x 96mm

## ORDERING INFORMATION



### Standard set (MD 9930)

- MD 9930 Thermal camera
- USB cable
- USB OTG cable
- MicroSD card
- Li-ion battery
- AC adapter
- Non-slip strap
- Carrying case
- Instruction manual
- Download link for PC software

### METREL D.D.

Measuring and Regulation Equipment  
Manufacturer  
Ljubljanska 77, SI-1354 Horjul, Slovenia  
T +386 (0)1 75 58 200, F +386 (0)1 75 49 226  
metrel@metrel.si, www.metrel.si

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
Subject to technical change without notice.