

## THERMAL IMAGER PRO TI-50

### INTRODUCTION

- The Metravi PRO TI-50 is a handheld Thermal Imager used for predictive and preventive maintenance, equipment troubleshooting and verification.
- Easy to operate, just focus the lens towards the object and the thermal and visual images are displayed on the LCD, and can also be saved to a Micro SD Memory Card.
- Images can be transferred to a PC by ejecting the MicroSD Memory Card and connecting it to a PC using the card reader (included) or simply transfer the images and videos to your Smart Phone or Device using the free App.
- Also features Video recording and playback.
- With USB Type C and WiFi interfaces.
- Temperature Measuring Range: -20°C to 650°C, Image Frequency 50Hz.
- 384x288 pixels Thermal Resolution.
- Touchscreen TFT LCD Display.
- Auto-Fusion function for ease of use in high density areas.
- With uneditable date & time stamps on JPEG/JPG images.



### SPECIFICATIONS

#### Imaging and Optical Data

Field of View (FoV)/Minimum Focus Distance	41.5°x 31.1° / 0.5m
Spatial Resolution (IFOV)	1.89 mRad
Thermal Sensitivity/NETD	<0.05°C at 30°C (86°C)/50mK
Image Frequency	50Hz
Focus Mode	Manual
Zoom	1-16x continuous, digital zoom
Focal Length	9mm
Focal Plane Array (FPA)/Spectral Range	Uncooled microbolometer/8-14µm
IR Resolution	384x288 Pixels

#### Image Presentation

Display	3.5 in. LCD, 640x480 Pixels, Touchscreen
Image Modes	Infrared Image, Visual Image, Picture in Picture, Auto-fusion, Zoom
Colour Palette	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-Red, Hot-Cold, Feather, Above Alarm, Below Alarm, Zone Alarm, Vision Zone

#### Measurement

Object Temperature Range	-20 to 150°C (-4 to 302°F) / 0 to 650°C (32 to 1202°F)
Temperature Accuracy	±2°C (3.6°F) or ±2% of reading (Environment temperature 10-35°C; Object temperature >0°C)

# METRAVI PRO®

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### Measurement Analysis

Spot	Center Spot, Three manual spots
Automatic Hot/Cold Detection	Auto hot or cold markers
Area	Three areas analysis
Line	Two line analysis
Measurement Corrections	Emissivity, Reflected temperature

### Storage of Videos

Storage Media	8Gbytes Micro SD card and 3.4GB internal EMMC
Video Storage Format	Standard MPEG-4 encode. 640x480 at 30fps, on memory card >60 minutes
Video Storage Mode	IR/visual images; simultaneous storage of IR and visual images

### Storage of Images

Image Storage Format	Standard JPEG or HIR files including measurement data, on memory card >6000 pictures
Image Storage Mode	IR/visual images; simultaneous storage of IR and visual images
Image Analyse	Internal image analysis tools. Complete function

### Set-Up

Set-Up Commands	Local adaptation of units, language, date and time formats, camera information
Languages	Multinational

### Digital Camera

Built-in Digital Camera	2 Megapixels
Built-in Digital Lens Data	FoV 65°

### Data Communication Interfaces

Interfaces	USB Type C and WiFi
USB	Data transfer between camera and PC. Live video on camera and PC.
WiFi	802.11, transfer images and realtime video stream

### Power System

Battery	Li-Ion battery, 4 hours operating time
Input Voltage	DC 5V
Charging System	In camera (AC adapter)
Power Management	Auto Power-off

### Environmental Data

Operating Temperature Range	-15 to 50°C (5 to 122°F)
Storage Temperature Range	-40 to 70°C (-40 to 158°F)
Humidity (Operating and Storage)	10% to 90%
Drop Test	2 meters drop-tested
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)

### Physical Data

Weight (Including Battery)	<500g
Camera Dimensions (LxWxH)	224 x 77 x 96mm

