

THERMAL IMAGER PRO TI-50

INTRODUCTION

- The 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.



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	Focus-free
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®

THERMAL IMAGER PRO TI-50

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

