METRAVI PRO®

POCKET THERMAL IMAGER
PRO TI-10P

INTRODUCTION

- The Metravi PRO TI-10P Thermal Imager is a handy, compact, handheld imaging camera used for predictive maintenance, equipment troubleshooting and verification.

- Just focus the lens towards the object, and the thermal and visual images are displayed on the LCD and can also be saved to the Micro SD Memory card.

- You can chose between FIVE image modes, including FUSION and AUTO-FUSION modes.

- Temperature Range: -20 to 550°C, Image Frequency: 50Hz

- Centre Spot, Manual Spot, Line Analysis, Area Analysis, High-Low Spot Analysis.

- Features WiFi Connectivity, Eight Colour Palettes and 32X Digital Zoom.

- Transferring images to a PC can be done by removing the MicroSD memory card and connecting it to a PC using the included card reader, or by using the free App to transfer the images and video stream to your Smart Devices.

- Provides video recording with audio and playback function.

- With uneditable date & time stamps on JPEG/JPG images.

SPECIFICATIONS

Imaging and Optical Data

Field of View (FoV)/Minimum Focus Distance	50°x 37°/ 0.5m
Thermal Sensitivity/NETD	<0.05°C at 30°C (86 °F)/ 80mK
Image Frequency	50Hz
Focus Mode	Focus-free
Zoom	1-32x continuous, Digital Zoom
Focal Plane Array (FPA)/Spectral Range	Uncooled microbolometer/8-14µm
IR Resolution	120x90 pixels

Image Presentation

Display	3.5 inch Touchscreen Display, 640x480 pixels
Image Modes	IR Image, Visual Image, Picture in Picture, Auto-fusion
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 550°C (32° to 1022°F)
Accuracy	±2°C (3.6°F) or ±2% of reading (Environment temperature 10-35°C; Object temperature >0°C)

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Measurement Analysis

Spot	Center Spot, Three Manual Spots
Automatic Hot/Cold Detection	Auto Hot or Cold markers
Area	Three Area Analysis
Line	Two Line Analysis
Measurement Corrections	Emissivity. Reflected temperature, Ambient temperature. Atmospheric humidity. Infrared compensation. Distance compensation.

Storage of Videos

Storage Media	8GB MicroSD 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. information of camera
Languages	Multinational

Digital Camera

Built-in Digital Camera	2 Megapixels
Built-in Digital Lens Data	FoV 59°

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
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% ~ 90%
Drop Test	2 mts. Drop-tested
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)

Physical Data

Camera Weight. Incl. Battery	<500g
Camera Size (LxWxH)	133x87x24mm

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