

SKF Advanced Thermal Imager TMTI 2DTS

Comprehensive high resolution thermal imaging package, with dual temperature function

The Advanced Thermal Imager TMTI 2DTS is a user-friendly thermal imager, producing high quality images from invisible infrared radiation.

The high resolution (160x120 /19 200 pixels) images are displayed on a large backlit 3½” screen, for ease of viewing. Powerful PC and report-writing software is supplied as standard (MS Windows 2000, XP or Vista required), which help enable the user to perform comprehensive data analysis and enhancement of the images.

Advanced temperature measurement features are built-in to the TMTI 2DTS such as, automatic hot spot and cold spot finder, Maximum/Minimum temperature view of an area and temperature difference display of two user defined spots. Suitable for industrial environments, the TMTI 2DTS is supplied in a heavy duty case with software, rechargeable battery, battery charger, rubber protection sleeve, high temperature range filter and a SD memory card for image storage.

- Compact ergonomic design and light weight helps make the TMTI 2DTS suitable for use in most industrial applications
- Easy to navigate menu makes the TMTI 2DTS a user-friendly instrument and helps facilitate ease of use
- Non-contact measurement technique enabling measurements to be made safely on running equipment
- Wide temperature measurement range from -10 °C to 500 °C is ideal for Predictive Maintenance applications
- User selectable emissivity correction from 0,2 to 1,0 with reflective ambient temperature correction, helps ensure that the TMTI 2DTS is suitable for almost any application
- Convenient temperature measurement in K, °C and °F eliminates the necessity to convert temperature reading
- Laser pointer pinpoints the area of interest. Easy to associate the hot spot on the screen with the target in the field
- 4 different selectable colour pallets (ironbow, rainbow, high contrast rainbow and greyscale) for ease of viewing
- 20° x 15° field of view easily enables the application to be seen
- Large thermal image storage capacity, up to 1 000 images (in radiometric format) can be stored on the SD card provided. Easy for data collection and subsequent reporting
- Up to 10 live images per minute can be displayed on a PC
- Rubber protection sleeve helps protect the imager from damage



Technical data

Designation	TMTI 2DTS
Performance	
Field of view (FOV)	20° x 15°
Focus	Manual
Minimum focus	50 cm (19.6 in)
Spectral response	8 µm to 14 µm
Thermal sensitivity	150 mK (0,15 °C) @ 25 °C scene
Temperature detector	160 x 120 pixels un-cooled microbolometer
Measurement	
Temperature range	-10 °C to + 500 °C (14 °F to 982 °F)
Radiometry	Two movable temperature measurement cursors
Temperature difference measurement	
Emissivity correction	User selectable 0,2 to 1,0 in steps of 0,01 with reflected ambient temperature compensation
Accuracy	-10/250°C: The greater of ± 2 °C (± 3,6 °F) or 2 % 250/500°C: With filter attached. The greater of ± 15°C or 5% of reading in °C
Display	3½" colour LCD with LED backlight 4 colour palettes: ironbow, rainbow, HC (high contrast) rainbow and greyscale.
Image storage	
Number	Up to 1 000 images on SD card supplied
Medium	SD card (1 GB maximum)
Laser pointer	A built in Class 2 laser is supplied to highlight the central measurement area
Imager power supply	
Battery	Lithium-ion field rechargeable, replaceable batteries
Operation time	6 hours continuous operation
AC operation	AC adaptor supplied
Mechanical	
Housing	Impact resistant plastic
Dimensions	230 mm x 120 mm x 110 mm (9 x 4,7 x 4,3 in)
Weight	0,75 kg including battery (1,6 lbs)
Mounting options	Handheld & tripod mounting
Interfaces	USB type B
Environment	
Temperature operating range	-15 °C to + 45 °C (5 °F to 113 °F)
Humidity	10 % to 90 % non-condensing
Temperature storage range	-20 °C to +70 °C (-4 °F to 158 °F)
Kit contents	TMTI 2DTS advanced thermal imager, rechargeable battery, 12V power supply, rubber protection sleeve, high temperature range filter, 128 MB SD card and case, USB card reader and cable, lens cap, regional plug adapters, CD ROM (instructions for use, PC software and report writer), USB cable to connect to PC, wrist strap, carrying case



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