

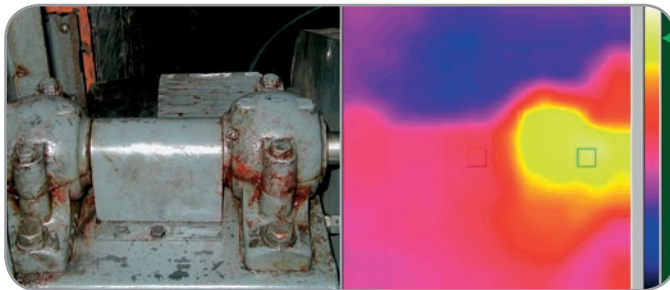


Thermal imager TMTI 300

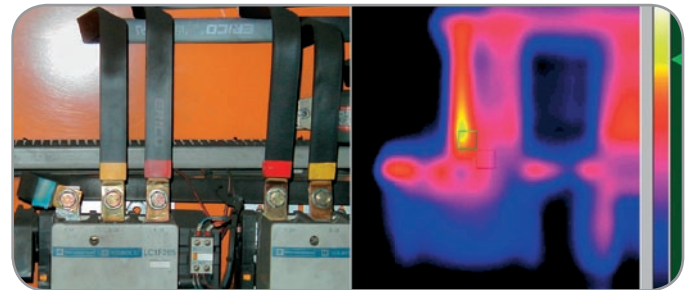
Thermal imaging for effective maintenance is now affordable

The SKF TMTI 300 is a flexible, easy-to-use thermal imager that produces visible images from invisible infrared radiation. It enables effective viewing of a wide range of temperatures for safe inspection of mechanical and electrical machinery.

- Easy-to-use, light weight, one or two handed operation allows the TMTI 300 to be flexible and used for most industrial applications
- Non-contact measurement technique enables measurements to be made safely on running equipment
- Large thermal image storage capacity, 1000 images per Mb can be stored on Pocket PC/storage card. Easy for data collection and subsequent reporting
- Two user defined spot temperature measurement points allow comparison of areas of interest. The temperature difference of the 2 spots is displayed as a separate value
- Both PC and "Pocket PC" compatible allowing flexibility in viewing results and report writing
- Software included for ease of data analysis
- Laser pointer shows the size of a pixel, allowing the area of interest to be pinpointed and for accurate measurement
- Convenient temperature measurement in K, °C and °F eliminates the necessity to convert temperature reading
- 3 different selectable colour pallets (red/green, red/blue, greyscale) for ease of viewing
- Tripod mounting thread for stability and stable monitoring over a period of time
- Sturdy "ready use" carrying case. The imager, pistol grip and pocket PC can be stored as one assembly ready for use.
- Ideal complement to other condition monitoring techniques, such as vibration analysis



The TMTI 300 is used to show a difference in temperature between two running bearings. This temperature difference could indicate a potential bearing problem that could lead to a failure and downtime



The TMTI 300 is used to inspect cable connections. The temperature of one of the cable connections is significantly higher than the others. This could indicate potential problems and should be further investigated.

Technical data

Designation	TMTI 300
Performance	
Temperature measurement range	-10 to 300 °C (14 to 572 °F)
Field of view (FOV)	20° x 20°
Spectral response	8 to 14 µm
Sensitivity	-0.3 K @ 30 °C (@ 102.2 °F)
Displayed image	96 x 96 pixels on Pocket PC. 128 x 128 pixels on PC
Detector	16 x 16 pixel array
Frame rate	8 Hz
Range	0.7m - infinity (2.29 ft - infinity)
Image storage	Up to 1000 images per Mb of memory
Laser pointer	Class II laser
Imager power supply	
Battery	4 x AA (LR6) alkaline batteries
Operation time	Up to 8 hours
AC operation	AC adaptor (supplied)
Mechanical	
Housing	Impact resistant plastic
Dimensions	120x125x80 mm (3.72x4.92x3.1 in)
Weight	<600g (21.16 oz) not including 'Pocket PC' and handle
Mounting	Handheld & tripod mounting
Environment	
Temp. operating range	-5 to 50 °C (23 to 122 °F)
Humidity	10% to 90% non condensing
Temp. storage range	-20 to 80 °C (-4 to 176 °F)
CE Mark (Europe)	EMC DIRECTIVE 89/336/EEC as outlined in harmonized norm for Emission EN 50081-1, EN 55011 (B) Immunity EN 50082-2, EN 61000-4-2, -3, level 3.
IP	40
Laser conformance	USA 21, CFR 1040.10
Included accessories	Imager & handle Software for 'Pocket PC' & PC iPaq type synchronization cable 2m RS232 connection cable - imager to PC User manual AC power supply Tool case
Computer requirements	
Pocket PC	Compatible with most 'Pocket PC' devices running Microsoft 'Pocket PC' 2000, 2002 and 2003 RS 232 to 'Pocket PC' communication cable or CompactFlash RS 232 adaptor where applicable.
PC	IBM compatible PC with a minimum of: 32Mb RAM, 300MHz processor, MS Windows (2000 and XP), RS 232 serial port (115k Baud), 16 bit colour graphics capability



A Pocket PC is required in order to view images. This must be obtained separately.