

Call RM&C now for good measure

Pressure

- World leader in ceramic strain gauge technology since 1988
- The only UK manufacturer of ceramic pressure sensors
- Low cost, ready to use pressure capsules to fully packaged pressure transducers
- Experienced Design Team will help integrate pressure capsules into your product



Temperature

- The UK's largest manufacturer of thermocouples and temperature probes
- Technical help desk for application solutions
- Standard and custom designs
- Fast track system for urgent deliveries and accessories



Flow

- Flow measurement solutions for 1,000s of applications
- Industry standard or custom designed products
- UK's leading manufacturer of VA Flowmeters
- Application specialists to help with product selection
- Flowbits Catalogue



Systems

- Design, develop, install and commission process measurement panels
- Simple temperature monitoring panels to complex gas emission sampling installations
- Environmental monitoring specialists
- Approved contractor for nuclear facilities



Service

- UKAS accredited for 4 fields of expertise: Pressure - Temperature - Flow - Electrical
- Approved to BS EN ISO 9001:2000 and BS EN ISO 17025
- Laboratory calibration and on-site service
- Workshop repairs



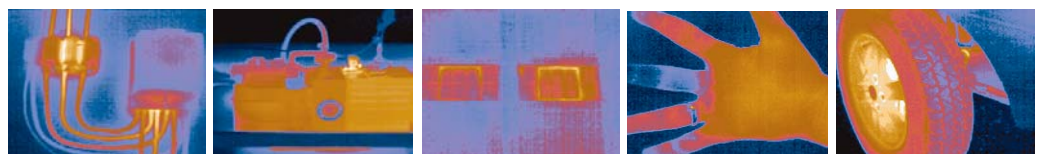
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Thermal Imaging Camera IRI 4010

... take away the guess work with performance and affordability

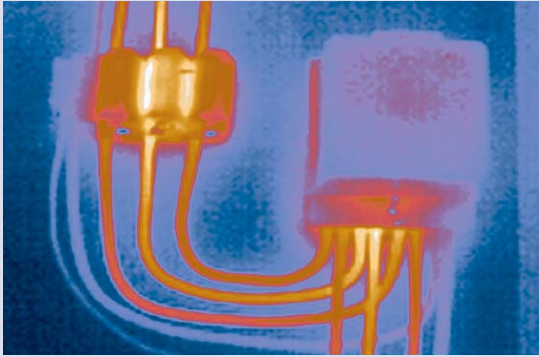
The IRI 4010 is an innovative hand held thermal imager which offers outstanding imaging and temperature measurement performance together with the traditional RM&C features of flexibility, ease of use and minimal cost.

- Only 0.75 kg
- 160 x 120 image
- Simple operation
- Large, clear display
- Multiple temperature measurements
- Lowest cost high definition imager on the market
- Stores up to 1000 images
- Temperature range -10°C to +250°C
- Fully Radiometric



Contact our Technical Sales Team today to discuss your application

☎ 0114 224 9245
www.roxspur.com

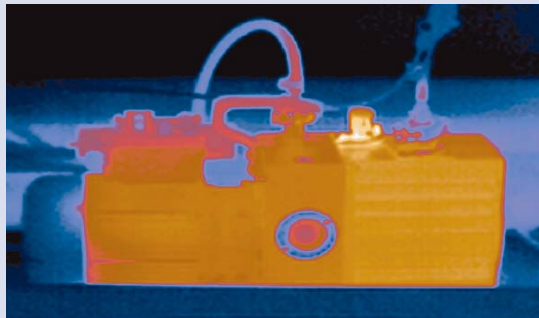


Electrical

Among the many common faults in electrical systems are:

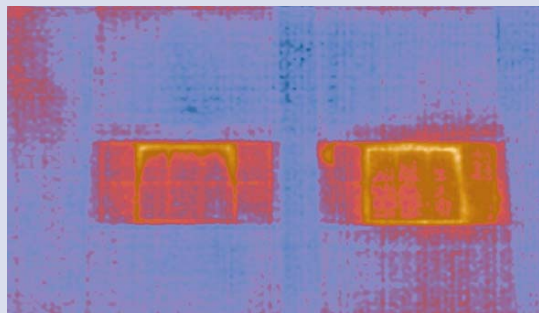
- Loose/over tight connections
- Overloaded components
- Uneven voltage distribution
- Failed/fatigued components

Faults such as these can cause the temperature of a component or connection to change. RM&C thermal imagers can be used to obtain a thermal profile; this facilitates condition monitoring and fault diagnosis.



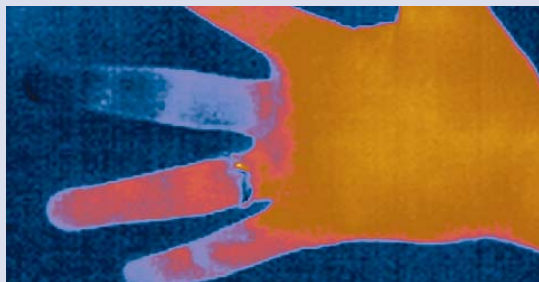
Mechanical

Many faults in bearings and motors are due to poor lubrication and/or shaft alignment. These result in excessive friction which leads to a rise in temperature. There can also be faulty or loose electrical connections. Whatever the fault, the result is a change in the temperature profile of the equipment. This can be detected and monitored using an RM&C thermal imager.



Building Insulation

The twin drivers of energy costs and legislation are leading to improvement in building insulation. The quality of the insulation, however, is difficult to assess by purely visible means. An RM&C thermal imager will identify both missing insulation in new buildings and deteriorating insulation in older buildings.



General

Thermal imaging technology has traditionally been prohibitively expensive for many applications. However, with the introduction of low cost thermal imagers from RM&C, it is becoming more generally relevant.

Examples of these emerging applications include:

- Monitoring of tyre temperatures and other parts on a car.
- Checking of domestic central heating and underfloor heating systems.
- Monitoring of injuries in horses and other animals, where the difference in blood flow will create a temperature difference that can be identified by an RM&C thermal imager.



Specification

Performance

Field of view (FOV):	20° x 15°
Focus:	Manual
Minimum Focus:	30cm
Spectral Response:	8µm to 14µm
Thermal Sensitivity:	150mK @ 25°C scene temperature
Detector:	160x120 pixels uncooled microbolometer

Image Storage

Number: Up to 1000 images on SD card supplied
Medium: MMC/SD card

Display

3½" colour LCD with LED backlight
4 colour palettes

Laser Pointer

A built in Class 2 laser is supplied to highlight the central measurement area

Measurement

Temperature range:	-10°C to +250°C
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:	The greater of ±2% of reading or ±2°C

Imager Power Supply

Battery:	Lithium-ion field rechargeable, replaceable batteries
Operation time:	4 hours continuous operation
AC operation:	AC adaptor supplied

Mechanical

Housing:	Impact Resistant Plastic
Dimensions:	230mm x 120mm x 110mm
Weight:	0.75kg including battery
Mounting:	Handheld & Tripod mounting

IRI 4010 Includes

Camera, Battery, AC adaptor, USB Cable, user manual and software CD, carrying case, wrist strap, SD card and SD card reader.

Optional Accessories

Report writing software; desktop charger; 12V car charger; additional battery; light shade.

Interfaces

USB type B

Settings and Controls

- On/Off soft power control
- User selectable span control
- User selectable level control
- Auto adjust span and level
- Display palettes: rainbow, ironbow, high contrast and greyscale
- Laser trigger switch
- Readout in °C or °F
- Image capture, time and date
- 2 x digital zoom

Features

- Real time image and temperature measurement display
- Crisp high resolution images
- Large 3½" inch display
- Simple operation
- Multiple temperature measurement
- Multiple image storage and retrieval at full digital resolution
- Image browser with full image adjustment
- Battery Charge indicator
- Lightweight

Environment

Temp operating range -15°C to +45°C
Temp storage range -20°C to +70°C
Humidity: 10% to 90% non condensing
CE Mark (Europe)