

# IRI 4010 Multi-Purpose Thermal Imager

The IRI 4010 is an innovative thermal imager product, which offers outstanding imaging and temperature measurement performance together with the traditional IRISYS features of flexibility, ease of use, and minimal cost of ownership.

IRISYS has produced an imager that is ideal for the thermographer and maintenance engineer alike; high quality images may be captured and manipulated offline or problems can be resolved on the spot. The camera comes with an industry leading 3 <sup>1</sup>/<sub>2</sub>" display and delivers price and performance that are unique to IRISYS.

Typical applications for the IRI 4010 include:

- Predictive and Preventative Maintenance
  electrical and mechanical
- Process Monitoring
- HVAC & R Troubleshooting and Maintenance
- General Industrial/Domestic Inspection
- Security



## The IRI 4010 Multi-Purpose Thermal Imager

### **Product Description**

The ergonomically designed imager houses the complete uncooled microbolometer-based camera core together with a long life Li-ion battery pack. For ease of use the image is displayed on a large 3<sup>1</sup>/<sub>2</sub>" colour LCD with LED backlight. Images can be captured using an MMC or SD card for recall and further analysis if required. Images can also be downloaded to a PC from the memory card for analysis, report generation and printing.

### Operation

Designed for self-contained use, the camera is the ideal tool for the maintenance engineer in the 21<sup>st</sup> Century. The high power, field replaceable, rechargeable Li-ion battery allows continuous operation for a working shift. The IRI 4010 is fully radiometric; temperature measurements can be made over the entire image, and hot spots can be identified by use of a trigger activated laser pointer.

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Innovative Thermal Imaging

## **SPECIFICATION**

#### PERFORMANCE

Field of view (FOV): Focus: Minimum Focus: Spectral Response: Thermal Sensitivity: 20° x 15° Manual 30cm 8μm to 14μm 150mK (0.15°C) @ 21°C ambient and 25°C scene temperature 160x120 pixels uncooled microbolometer

Detector:

#### IMAGE STORAGE

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

#### DISPLAY

3<sup>1</sup>/<sub>2</sub>" 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:	$-10^{\circ}$ C to $+250^{\circ}$ 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 $\pm 2^{\circ}$ C or $\pm 2\%$

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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 PlasticDimensions:230mm x 120mm x 110mmWeight:0.75kg including batteryMounting:Handheld & Tripod mounting

#### **IRI 4010 INCLUDES**

IR Camera, Battery, AC adaptor, USB Cable, CD with user manual and software (PC analysis and EasyReport writer), 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 <sup>o</sup>C , <sup>o</sup>F or K
- Image capture, time and date
- 2 x digital zoom

#### FEATURES

- Real time image and temperature measurement display
- Crisp high resolution images
- Large 3 <sup>1</sup>/<sub>2</sub> 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

**AMBIENT 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)

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