

## IRI 1010

### **THERMAL IMAGING RADIOMETER**

The IRI 1010 is a groundbreaking thermal imager product, which brings the benefits of this versatile technology to the professional, the tradesperson and the non-specialist alike.

With the aid of the real-time thermal image display, the user can find, identify and measure the temperature of problem areas quickly and with confidence.

The flexibility, ease of use and above all the low cost of this product extend the normal application areas for thermal imaging from professional use to wider use in industrial, commercial and domestic applications.

#### **Typical applications for the IRI 1010 include:**

- Predictive and Preventative Maintenance
- Plumbing and Electrical
- Research and Development
- HVAC + refrigeration troubleshooting
- Vehicle Maintenance
- General Industrial/Domestic

#### **Product Description**

The ergonomically designed imager houses the complete uncooled camera core together with a long life Li-ion battery pack. For ease of use the image is displayed on a large 3½" colour LCD display with backlight. The thermal imaging radiometer is ideal for the engineer who is experienced in the use of conventional spot temperature measuring radiometers, but now wants to move to the next level.

#### **Operation**

Designed for self-contained use, the camera is the ideal tool for all users wanting temperature measurement and display. The high capacity, rechargeable Li-ion battery allows continuous operation for up to 6 hours. The IRI 1010 is radiometric and hot spots can be identified by use of a trigger-activated laser pointer.



*“ With the aid of the real-time thermal image display, the user can find, identify and measure the temperature of problem areas quickly and with confidence. ”*

## IRI 1010

### SPECIFICATION

#### PERFORMANCE

Temperature range:	-10°C to +300°C
Field of view (FOV):	20° x 20°
Spectral Response:	8 to 14 µm
Sensitivity:	~0.3°C @ 30°C
Displayed Image:	90 x 90 pixels
Detector:	16x16 pixel array
Frame rate:	8Hz
Focal Range:	0.7m to infinity

#### LASER POINTER

A built in Class 2 laser is supplied to highlight the reference pixel.

#### IMAGER POWER SUPPLY

Battery:	Lithium-ion field rechargeable.
Operation time:	Up to 6 hours continuous operation
AC operation:	AC adaptor supplied

#### MECHANICAL

Housing:	Impact Resistant Plastic
Dimensions:	230 x 120 x 90mm
Weight:	0.70kg
Mounting:	Handheld & Tripod mounting 1/4" BSW

#### SETTINGS AND CONTROLS

- On/Off soft power control
- User selectable span control
- User selectable level control
- Auto adjust span and level
- Display palettes: red-blue, green-blue and greyscale
- Laser trigger switch
- Readout in °C, °F or K
- User selectable image integration
- User selectable emissivity values
- User selectable reflected temperature

#### FEATURES

- Real-time image and temperature measurement display
- Large bright 3 1/2" inch display
- Simple operation
- Battery charge indicator
- Lightweight
- Laser pointer

#### IRI 1010 INCLUDES

IR Camera, Battery, AC Adaptor, User manual, Carrying Case.

#### ENVIRONMENT

Humidity:	10% to 90% non condensing
Temp. operating range:	-5°C to +50°C
Temp. storage range:	-20°C to +70°C
CE Mark (Europe)	

### InfraRed Integrated Systems Limited

Park Circle Tithe Barn Way Swan Valley Northampton NN4 9BG UK

Tel: +44 (0) 1604 594 200

Fax: +44 (0) 1604 594 210

Email: [sales@irisys.co.uk](mailto:sales@irisys.co.uk)

Web site: [www.irisys.co.uk](http://www.irisys.co.uk)