

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



**The IRI 1010
Thermal Imaging Radiometer**

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.

© 2007 InfraRed Integrated Systems Limited (IRISYS). No part of this publication may be reproduced without prior permission in writing from InfraRed Integrated Systems Limited. This document gives only a general description of the product and except where expressly provided otherwise shall form no part of any contract. IRISYS have a policy of continuous product improvement and reserve the right to change the specification of the products and descriptions in this data sheet. Prior to ordering products please check with IRISYS for current specification details.



**Innovative Thermal
Imaging**

SPECIFICATION

IRI 1010

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: 192 x 192 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: 230x120x90mm
Weight: 0.70kg
Mounting: Handheld & Tripod mounting ¼" 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 ½ inch display
- Simple operation
- Battery Charge indicator
- Lightweight
- Laser Pointer

IRI 1010 INCLUDES

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

ENVIRONMENT

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

Whilst IRISYS endeavor to ensure that all descriptions, weights, temperatures, dimensions and other statistics contained in this product information are correct, they are intended to give a general idea of the product only and IRISYS do not warrant their accuracy or accept liability for any reliance on them. IRISYS have a policy of continuous product improvement and reserve the right to change the specification of the products and descriptions in this data sheet. Prior to ordering products please check with IRISYS for current specification details. This product is protected by patents EP 0 853 237 B1 and US 6,239,433 B1. Other patents pending.

All brands and product names are acknowledged and may be trademarks or registered trademarks of their respective holders.



InfraRed Integrated Systems Ltd,
Park Circle, Tithe Barn Way
Swan Valley, Northampton, NN4 9BG, UK
Telephone: +44 (0) 1604 594200
Fax: +44 (0) 1604 594210
e-mail: sales@irisys.co.uk
web site: www.irisys.co.uk

**Innovative Thermal
Imaging**