

IRI 1020

UNIVERSAL THERMAL IMAGER

The IRI 1020 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 1020 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. Images can be captured using a MMC or SD card for recall and further analysis. Images can also be downloaded to a PC from the memory card for analysis, report writing and printing. 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 enjoy the benefits of a real time thermal image.

Operation

Designed for self-contained use, the camera is the ideal tool for all users wanting temperature measurement and imaging. The high capacity, rechargeable Li-ion battery allows continuous operation for up to 6 hours. The IRI 1020 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.



“ The high capacity, rechargeable Li-ion battery allows continuous operation for up to 6 hours. ”

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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:	192 x 192 pixels
Detector:	16 x 16 pixel array
Frame rate:	8Hz
Focal Range:	0.7m to infinity

IMAGE STORAGE

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

DISPLAY

3½" colour LCD with LED Backlight
3 colour palettes

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 including battery
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
- Two moveable temperature measurement cursors
- Image capture, time and date

FEATURES

- Real-time image and temperature measurement display
- Large bright 3½" inch display
- Simple operation
- Multiple temperature measurement
- Image browser
- Battery charge indicator
- Lightweight
- Laser pointer

IRI 1020 INCLUDES

IR Camera, Battery, AC Adaptor, User manual, SD Card, Carrying Case, CD with user manual and software (PC Analysis)

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
Web site: www.irisys.co.uk