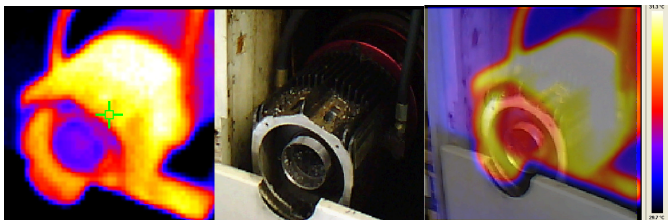
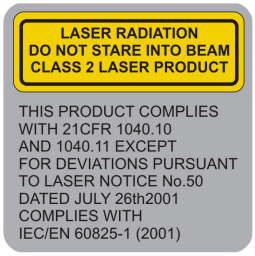
IRI2010 Thermal Imaging Camera
Technical Specification



Safety Warning:
The equipment described in this document uses a Class 2 laser. Under no account should anyone look directly into the laser beam or the laser beam exit aperture, irreversible damage to the eye may occur. The laser should not be operated when there are personnel in the imager's field of view.
Caution – use of controls or adjustments or performance of procedures other than those specified in this document may result in hazardous laser radiation exposure.

IPL



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Technical specification

Performance

Field of view (FOV):	20°x 20°
Spectral Response:	8µm to 12 µm
Sensitivity:	≤0.3°C @ 30°C
Detector:	47 x 47 pixel array
Frame rate:	8Hz
Focus Range:	0.5m to infinity

Image storage

Number: Up to 1000 images on micro SD card supplied

Display

3½" colour LCD with LED Backlight. 8 colour palettes. Mixed thermal and visible images.

Laser pointer

A built in Class 2 laser is supplied to highlight the centre of the thermal image. (Aligned at 2 metres)

Beam Divergence	<0.2mrad
Maximum Output	<1mW

Measurement

Temperature range: -10°C to +350°C

Radiometry: Two moveable temperature measurement cursors with temperature difference measurement.

Emissivity Correction: User selectable 0.10 to 1.00 in steps of 0.01 with reflected ambient temperature compensation

Accuracy: The greater of ±2°C or ±2% of reading in °C

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 with over moulded soft plastic and detachable handle
Dimensions:	130mmx95mmx90mm (excluding handle)
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
- Laser trigger switch
- Readout in °C or °F
- User selectable image integration
- User selectable emissivity setting
- User selectable reflected temperature
- Two moveable temperature measurement cursors
- Area analysis
- X-Y profiles
- Isotherms
- Text annotation
- Voice annotation
- Image capture, time and date
- Visual/audio alarm high and low

Optional accessories

- 12V car charger
- Light shade.

Features

- Real-time image and temperature measurement display
- Visible/thermal/mixed image fusion (100%, 75%, 50%, 25%, 0%)
- Simple operation
- Multiple temperature measurement
- Image browser
- Battery Charge indicator
- Lightweight
- Laser Pointer
- Auto hot/cold seeker
- Languages

IRI 2010 Includes

IR Camera, Handle, Battery, AC Adaptor, Quick start guide, Carrying Case, CD with user manual and software (Analysis and report writer)

Computer requirements (for PC software)

PC: IBM compatible PC with a minimum of: 300MHz processor, MS Windows XP, VISTA, 128MB RAM (see Irisys website for current list of operating systems supported).
16 bit colour graphics with 1024x768 capability

Environment

Temp. operating range: -5°C to +45°C
Humidity: 10% to 90% non condensing
Temp. storage range: -20°C to +60°C
CE Mark (Europe)
IP rating: IP54
Operating temp for stated accuracy: 23 ºC

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE