

IRI 4040

LONG RANGE THERMAL IMAGER

The IRI 4040 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 1/2" display and delivers price and performance that are unique to Irisys.

The narrow angle 9.1° x 6.8° lens enables detection and temperature measurement of small objects over long distances. The IRI 4040 is especially suitable for use in the power utilities industries for the inspection of substation and overhead distribution and transmission lines.

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 1/2" 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 all maintenance engineers. The high capacity, field replaceable, rechargeable Li-ion battery allows continuous operation for a full working shift. The IRI 4040 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.



“ 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. ”

IRI 4040**SPECIFICATION****PERFORMANCE**

Field of view (FOV):	9.1° x 6.8°
Focus:	Manual
Minimum Focus:	50cm (120cm for radiometry)
Spectral Response:	8µm to 14µm
Thermal Sensitivity:	150mK (0.15°C) @ 23°C ambient and 25°C scene temperature
Imaging Range:	-10°C to 250°C
Detector:	160x120 pixels uncooled microbolometer

IMAGE STORAGE

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

DISPLAY

3½" 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:	0°C to +250°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 ±2°C or ±2% of reading in °C.

IMAGER POWER SUPPLY

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

MECHANICAL

Housing:	Impact Resistant Plastic
Dimensions:	230mm x 120mm x 135mm
Weight:	Less than 0.8kg including battery
Mounting:	Handheld & Tripod mounting

IRI 4040 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, light shade and rubber protector.

OPTIONAL ACCESSORIES

Report writing software; desktop charger; 12V car charger; additional battery.

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 °C, °F or K
- Image capture, time and date
- 2 x digital zoom

FEATURES

- Auto hot/cold seaker
- Real time image and temperature measurement display
- Auto analysis
- Crisp high resolution images
- Large 3½" 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

ENVIRONMENT

Temp. operating range:	-15°C to +45°C
Temp. storage range:	-20°C to +70°C
Operating temperature for stated accuracy:	23°C
Humidity:	10% to 90% non condensing
CE Mark (Europe)	
IP Rating:	IP42

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**