



## IRI4015

### Thermal Imager for Buildings

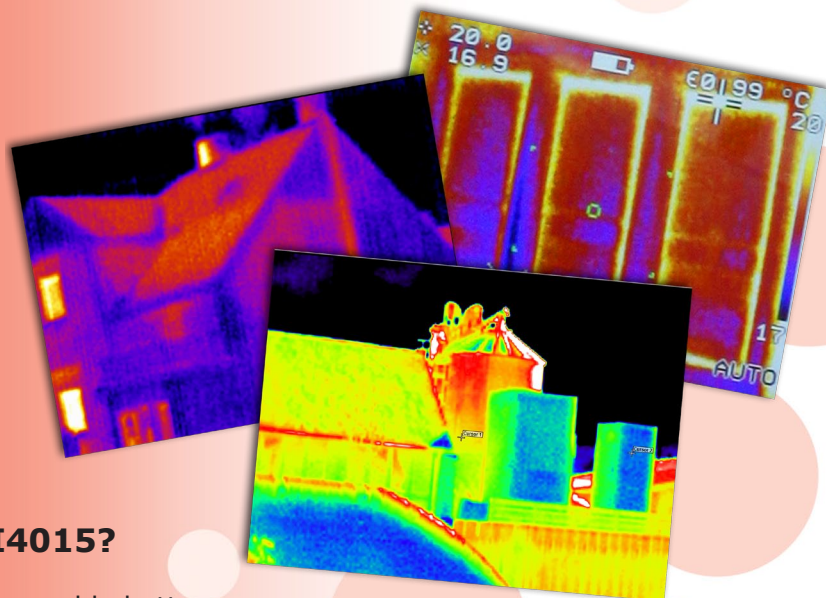
For the identification and diagnosis of issues that can cause energy loss, damage, unscheduled machine down time and ultimately increased costs in buildings

#### Who should use a Building Thermal Imager

- Building inspectors
- Facility managers
- Building surveyors
- Energy loss auditors
- Commercial refrigeration engineers
- Building and services maintenance teams

#### Why should you use it?

- Understand where your building is losing energy through ill fitting windows, doors walls and roofing
- Quickly assess where insulation is missing or non-existent
- Detect potential hidden dangers such as areas of damp collection in roofs and walls or vermin infestation in older buildings
- Highlight areas of thermal bridges
- Produce energy audits and building diagnostics
- To become an integral part of the electrical and mechanical predictive and preventative maintenance regime



#### Why use the Irisys IRI4015?

- Compact and easy to use
- Portable with long life rechargeable battery
- Highest thermal sensitivity (NETD  $\leq 50\text{mK}$ ) in its price range
- Best screen resolution (160x120 pixels) in its class
- Can store over 1,000 images on supplied SD card
- Automatic temperature lock (to both hottest and coldest point) visible on the screen
- Instant on-screen temperature differential display
- Full analysis and report writing software included
- Very robust - Tested for vibration, shock and drop
- Minimal cost of ownership





## The Irisys IRI4015 Building Thermal Imager Pack Includes:

**IR Camera, battery, AC adaptor, USB cable, car charger, CD with user manual and software (PC analysis and report writer), light shade, carrying case, wrist strap rubber protector, SD card and SD card reader**

### TECHNICAL SPECIFICATION

#### PERFORMANCE

Field of view (FOV):	20°x15°
Focus:	Manual
Minimum Focus:	30cm.
Spectral Response:	8µm to 14µm
Thermal Sensitivity:	NETD≤50mK(0.05°C) @ 23°C ambient and 30°C scene temp
Detector:	160 X 120 Pixels uncooled microbolometer.

#### MEASUREMENT

Temperature range:	-20°C to +125°C.
Radiometry:	Two moveable temperature measurement cursors giving automatic temperature difference measurement and auto locking onto hottest and coldest points.
Emissivity Correction:	User selectable 0.1 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

#### DISPLAY

3½" colour LCD with LED backlight and 4 colour palettes.

#### IMAGE STORAGE

Over 1000 images on supplied SD card  
(MMC or SD card compatible).

#### LASER POINTER

A built in Class 2 laser to highlight the centre of the imaged area

#### FEATURES

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

Authorised Irisys Distributor:



#### 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.

#### INTERFACES

USB type B

#### IMAGER POWER SUPPLY

Battery:	Lithium-ion field rechargeable,replaceable battery with up to 6 hours continuous operation.
AC operation:	AC adaptor supplied

#### MECHANICAL

Housing:	Impact Resistant Plastic
Dimensions:	230mm x 120mm x 110mm
Weight:	0.75Kg including battery.
Mounting:	Can be handheld or mounted on a tripod.

#### ENVIRONMENT

Temp:	operating range -15°C to+50°C; storage range:-20°C to +70°C
Humidity:	10% to 90% non-condensing
CE Mark (Europe)	
Operating temp for stated accuracy:	23°C
Vibration:	MIL-PRF-288—F Class 2 section 4.5.5.3.1
Shock:	MIL-PRF-288—F Class 2 section 4.5.5.4.1
Drop test:	MIL-PRF-288—F Class 2 section 4.5.5.4.2
IP rating:	IP42

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