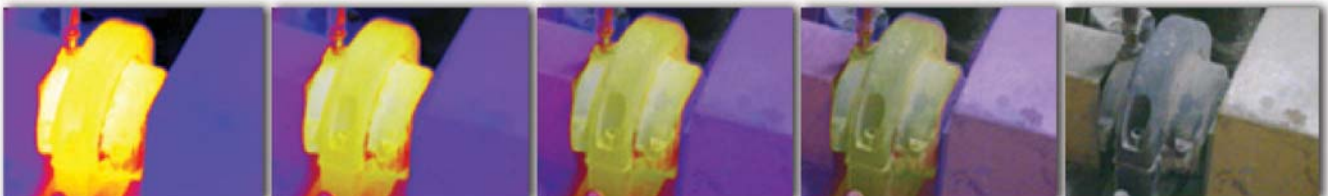


IR16DS – **Dual View** Thermal Imager



100% Thermal

100% Visible



Identify faults in machines and components *before* they fail

The **Irisys** IR16DS is the perfect tool to find faults and identify failing components thereby reducing the risk of catastrophic failure



Large display with Image Fusion & Picture in Picture



- Dual vision showing both thermal and visual images or a combination as 'image fusion' including 'picture in picture'.
- Real time image and measurement display.
- Detector resolution of 160x120 pixels and thermal sensitivity of 0.08°C giving crisp clear images.

Multiple measurement points



- Four moveable temperature measurement cursors onscreen; allowing easy comparison of components and items in the scene.
- Auto hot and cold hunting with temperature difference.
- Area analysis and isotherms with temperature difference.
- Individual cursor emissivity settings for accurate temperature measurements.

Voice annotation and alarms



"Bearing in motor in control room B3.7 showing signs of overheating"

- Record notes for each image saved for later playback.
- Alarms (both visual and audible) can be set to trigger when preset hot or cold temperature thresholds are exceeded.

Other key features of the **Irisys IR16DS**



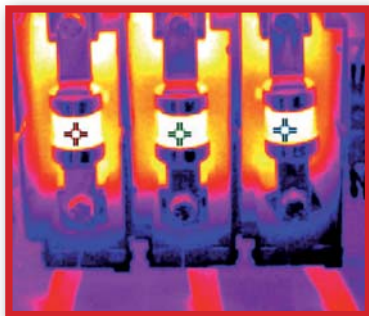
- LED illuminator for visual image capture in all site environments
- Laser pointer to highlight problem areas
- Megapixel camera for quality visual images
- Time sequence recording allows changes in temperature over a set time period to be measured



- Long 5 hour battery life with rechargeable and field replaceable battery
- Rugged and robust housing for use in all industrial conditions
- Easy navigation through icon driven menu

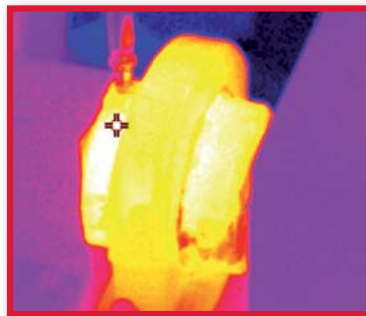


- Multiple language options



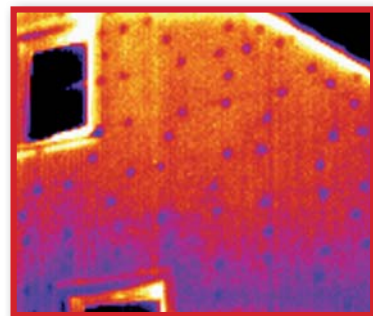
Electrical

- Failing/Fatigued components
- Loose/Tight connections
- Overloaded Components
- Uneven voltage distribution



Mechanical

- Wear
- Poor Lubrication
- Shaft Misalignment
- Overloaded Components



Energy Efficiency

- Poor or Missing Insulation
- Energy losses
- Integrity of Refrigeration seals
- HVAC

The top reasons that make the **Irisys IR16DS** the ideal Thermal Imager:

- **Cost effective** – the IR16DS offers many features at an affordable price that are only available from other manufacturers on their more expensive models. Features include multiple moveable temperature measuring cursors each with individual emissivity settings, automatic hot and/or cold spot finding.
- **Ease of use** - with an icon-driven menu structure the IR16DS is as easy to use as a smart phone. The user can quickly see results without the need for extensive training.
- **Clear imaging** – built with a detector resolution of 160 x 120 and a thermal sensitivity of 0.08°C, the IR16DS delivers excellent image quality with accurate and repeatable results.
- **Long battery life** – with an industry leading, field replaceable Lithium Ion battery, the IR16DS allows up to 5 hours continuous use between charges without the need to reduce the screen brightness.
- **Image fusion** – the IR16DS has enhanced image fusion capabilities allowing full image and picture in picture fusion between 0 & 100%.
- **Voice annotation** – a built in microphone allows the user to record voice notes with every image saved. Over 1,000 images (both visual & thermal) and voice notes can be saved on the supplied SD card. Voice notes can be played back on the camera using its built in speaker or headphones and via the supplied software package.
- **Timed or Alarmed imaging** – for unattended imaging the IR16DS can be tripod mounted to automatically save images at regular intervals. It can also be set to record an image only when a pre-defined image temperature is reached.

Analysis & report writing software package



The **Irisys IR16DS** comes with a complete set of analysis and report writing software:

Analysis – Makes it simple to analyse the image to extract vital data e.g. identification of cold or hot spots.

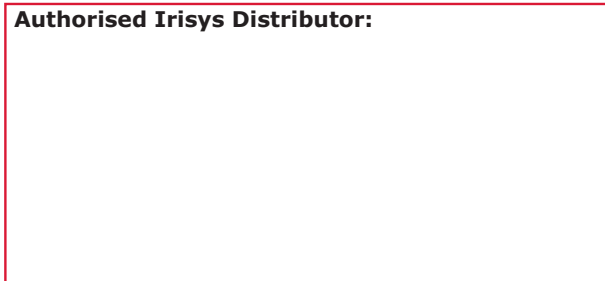
Report Writer – Allows the user to produce a single report from multiple images detailing observations and recommendations for repair, e.g. hot spot on electrical circuit breaker - schedule maintenance within next 2 weeks.

The **Irisys IR16DS** Includes:

- IR Camera
- Battery
- USB Charger
- USB cable
- CD with user manual and software (PC analysis and report writer)
- Carrying case
- SD card



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January 2011
 IPU40333
 Issue 1

