

EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

INLEC.COM

DATA-SHEET



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WHY BUY
WHEN YOU CAN HIRE

Advanced Electronic Acoustic Leak Detection

ENVIRONMENTAL MONITORING

PRESSURE CONTROL

LEAK DETECTION

DATA LOGGING

FLOW MEASUREMENT



KEY BENEFITS

- Simple (one button) or manually selectable filters
- Multi-function display showing noise level (graphically and digitally) and dynamical sensitivity (signal strength)
- Improved sound quality
- Levels of leak noise can be recorded for comparison in a histogram profile (MLP)
- IP65 enclosure with mil-spec connectors
- A pair of good quality headphones.

The Xmic (pronounced exmike) is an advanced, electronic ground microphone designed to amplify the noise generated by water escaping from buried supply pipes under pressure. Identifying the position of the loudest leak noise indicates the position of the actual leak itself.

The Xmic system comprises of a lightweight portable amplifier module complete with battery charger, a pair of aviation quality headphones and an acoustically shielded ground microphone foot.

As an optional extra, a hand held listening probe is available. This comes with a tripod foot and two probe rods for sounding in soft ground.

Xmic is an advanced yet easily used Ground Microphone System. The latest acoustic and amplification technology provides excellent sound quality, whilst a range of features help effective and accurate pinpointing on site.

Minimum (noise) Level Profiling (MLP).

The easy-to-use advanced features of the Xmic enable the operator to pinpoint leaks faster and with more confidence than ever before. In MLP mode (when sampling) the Xmic records the lowest level in the last three seconds (the background leak noise), and builds a visual graph of these levels.

USER
FRIENDLY
DESIGN

CLEAR
GRAPHICS

PORTABLE

HIGH
VISIBILITY
SCREEN



Halma Water Management

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ENVIRONMENTAL MONITORING
PRESSURE CONTROL
LEAK DETECTION
DATA LOGGING
FLOW MEASUREMENT

Control Unit	Filter Options
Processor: 4MHz 16 bit	Variable High Pass and Low Pass filters across frequency range
Input impedance: 1MOhm	Three automatic filter settings based on pipe material
Output impedance: 6 to 16 Ohms	Metallic – High Pass 350Hz, Low Pass 3kHz
Amplification: 46dB	Plastic – High Pass 75Hz, Low Pass 3kHz
Frequency range: 30 to 3000Hz	Broadband – High Pass 30Hz, Low Pass 3kHz
Distortion: Better than 1%	
Battery: 2 x Lithium ion 1.8Ah rechargeable batteries	Hand Probe Attachment (Optional Upgrade)
Battery life: Minimum 25 hours (without backlight)	The hand probe option includes the tripod and two stainless steel probe rods (each 400mm in length)
Battery charge: Maximum 8 hours	Combined weight of rods 162g
Charger: Universal 110-240V AC mains charger with 12V DC output	
Weight: 1kg	Headphones
Dimensions: 206mm x 167mm x 86mm	Sennheiser HD215 headphones are supplied as standard with the Xmic.
Environmental rating: IP65	Aviation Quality Headphones available as option
Operating temperature range: 0 - 50°C	
Operating humidity: 0 – 95% non-condensing	Microphone
Connection: Military specification Amphenol	High sensitivity piezo-electric sensor mounted in windproof, nitrile rubber housing
Keypad: Membrane with push button	Low noise 1.5m cable (detachable)
Display: 128 x 128 transfective LCD	Weight: 2.9kg
Signal level display 0 – 99	
<i>HWM reserves the right to change the specification of any product without prior notice.</i>	





FLIR i7

Compact InfraRed Camera (120x120 IR Resolution)

Easy-to-Use Troubleshooting Tool - Weighs only 340g

- Compact sized, Lightweight - 340g
- Thermal Sensitivity of $<0.1^{\circ}\text{C}$ @ 25°C
- Easy-to-Use Focus Free Lens
- Stores up to 5000 JPEG Images
- 2.8" LCD Color Display
- Long Battery Life Lasts >4 Hours
- Convenient Thumbnail Image Gallery



Pocket Sized



Large 2.8" Display



Detect hidden problems fast



Includes PC software



FLIR i7 Features

- **High accuracy** — 2% and thermal sensitivity of 0.1°C helps you find problems faster and easier — critical for condition monitoring of thermally sensitive targets
- **Extremely lightweight** — Resulting in less user fatigue 340g
- **Easy-to-use** — Pocket sized and fully automatic design makes it incredibly easy-to-use even for first time users — perfect for general purpose use
- **Focus free lens** — For convenient viewing
- **High Resolution LCD** — 71mm color LCD
- **Double Molded Design** — Rugged design with easy grip handle construction meets IP43 dust/splashproof standards
- **Measurement Modes** — Spot (center), Area (Min/Max), and Isotherm (above/below) display measurement modes
- **Long Battery Life** — >4 hours continuous operation on a single charge for uninterrupted inspections
- **Large Memory Storage** — microSD card stores up to 5000 Radiometric JPEG format images. Each image can be analyzed using the included QuickReport™ PC Software
- **Includes** — 512MB microSD Card, miniSD™ adaptor, Li-Ion rechargeable battery with 90-260V AC adaptor /charger with EU, UK, US and Australian plugs, QuickReport™ software with USB Mini-B cable, built-in manual lens shutter, hand strap, and hard case



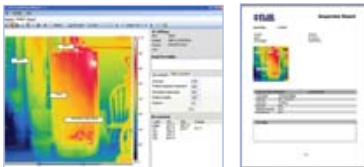


The Difference is Training

Get the most out of your FLIR IR camera investment with world-class instruction through the Infrared Training Center (ITC), the largest infrared applications training organization in the world. The ITC's Level 1 Infrared Thermography Training Course is geared to the new infrared camera user and focuses on its use for a variety of condition monitoring/predictive maintenance applications. Level 2 and Level 3 certificate courses for more advanced infrared training are also available. Courses are taught by certified instructors with extensive experience in a wide variety of infrared thermography and thermal imaging applications. ITC certifications are recognized by major professional organizations.

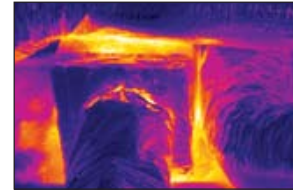
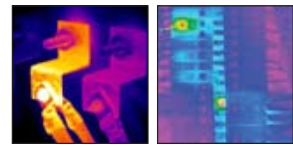
ITC's Official website:
www.infraredtraining.com

E-LearnIR portal:
<http://irtraining.inquisiq.com>



QuickReport™ PC software enables user to analyze Temperature of all thermal pixels of any FLIR Camera JPEG images

- **Preventive Maintenance** — Thermal imaging is a valuable tool in preventive maintenance of electrical, mechanical and structural systems, able to help detect problems, prevent unscheduled downtime, guide needed corrective action and increase plant safety.
- **Utility Market** — In the utility industry, failure is not an option. That's why infrared thermal imaging has become a key tool for predictive maintenance programs for utility firms everywhere.
- **Energy Audits** — Energy costs are increasing at a substantially alarming rate. Missing or low quality insulation, inadequate Heating, Ventilation, and Air Conditioning (HVAC) systems, poor air flow — all are typical problems that cause homes to waste energy.



FLIR i7 Specifications

Features	
Temperature range	0°C to 250°C
Image Storage	5000 Images (microSD card memory)
Emissivity	Emissivity Table; 0.1 to 1.0 adjustable
Imaging Performance / Image Presentation	
Field of view/min focus distance	25° X 25°/0.6m
Focus	Focus free
Thermal sensitivity (N.E.T.D)	<0.1°C at 25°C
Detector Type	Focal plane array (FPA) uncooled microbolometer; 120 X 120 pixels
Spectral range	7.5 to 13µm
Display	2.8" color LCD
Image Controls	Palettes (Iron, Rainbow, and Black/White)
Set-up controls	Date/time, °C/°F, 21 languages
Measurement modes	Spot (with correction for emissivity and reflected temperature), Area (Max/Min), Isotherm (above/below selected temperature interval)
Battery Type	Li-Ion
Battery operating time	>4 hours, Display shows battery status
Charging system	In camera, AC adapter; 3 hours to 90% capacity
AC operation	AC adaptor 90-260VAC, 50/60Hz
Adaptor Voltage	5 VDC output to camera
Operating temperature range	0°C to 50°C
Storage temperature range	-40°C to 70°C
Humidity	Operating and storage 20% to 80%, non-condensing, IEC 359
Shock	25G, IEC 68-2-29
Vibration	2G, IEC 68-2-6
Dimensions/Weight	223x79x83mm/<340g, including battery

FLIR Systems Australia
 Pty Ltd
 10 Business Park Drive
 Notting Hill, VIC
 3168 Australia
 Tel: +61 3 9550 2800
 Fax: +61 3 9558 9853
 Email: info@flir.com.au

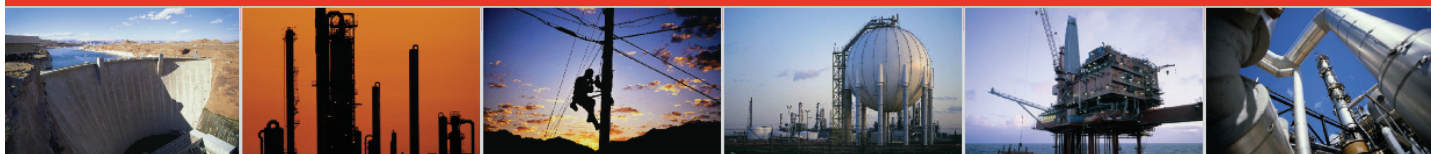
New South Wales Office
 Tel: +61 2 8853 7870
 Email: info@flir.com.au

Western Australia office
 Tel: +61 8 6263 4438
 Email: info@flir.com.au

Queensland Office
 Tel: +61 7 3861 4862
 Email: info@flir.com.au



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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

4 FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

5 YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

Throughout your hire we will work hard to ensure you enjoy the very best in support and service from Inlec. We guarantee you won't find better service anywhere in the industry.

*subject to availability and conditions

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LAB NO. 0535



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Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



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