

# DATA-SHEET

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

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WHY BUY  
WHEN YOU CAN HIRE



HAEFELY  
HIPOTRONICS

## FlashPhone (H-Flash)

Digital Acoustic/Ballistic Listening Device

■ The FlashPhone is designed to pinpoint the exact location of primary cable faults when combined with a capacitor impulse discharge unit. During an arc (flashover) at the fault, both magnetic and acoustic signals are generated. A time delay occurs between these two signals; the Flash Phone displays this delay as a number. A magnetic signal bar graph shows intensity (magnitude) of magnetic fields generated around cable faults. A microphone is included with the system and is designed to be used with an earth probe for soft/flat ground conditions as well as over concrete or asphalt.

The unique combination of seismic and electronic sensor technology, plus microcomputer technology and digital signal processing is the key to its superior performance and high sensitivity.

### FEATURES

- ☑ Seismic/Electronic combination sensors
- ☑ Large LCD display with backlight
- ☑ Re-chargeable lithium batteries
- ☑ Battery monitor on LCD display
- ☑ Ballistic bar graph LCD display
- ☑ External automatic battery charger
- ☑ Watertight enclosure
- ☑ Rugged foam-lined carrying case

### BENEFITS

**Minimal setup time** and simple control panel.

**Quickly locates faults** with minimal time and effort.

**Smart device** is able to discriminate between audible "thumps" and background noise.

### APPLICATIONS

- Electrical Utilities
- Test Companies
- Petrochemical Facilities
- Facility Maintenance



**TECHNICAL SPECIFICATIONS**

<b>Model Number</b>		<b>H-FLASH</b>
<b>Power Source</b>		7.4VDC Li-Ion Battery
<b>Battery Life</b>		6-8 hours
<b>Max Power Output (Headset)</b>		700mW
<b>Max Amplification</b>	<b>Acoustic</b>	75dB
	<b>Magnetic</b>	65dB
<b>Acoustic Detection</b>		Seismic
<b>Operating Temperature</b>		-10°F - +100°F (-23.3C - 37.8C)
<b>Max Humidity</b>		85%
<b>Input Range (g)</b>		±100g
<b>Sensitivity (PC/g)</b>		1100 ±10%
<b>Frequency</b>	<b>Resonance</b>	80Hz
	<b>Response (±3dB)</b>	DC – 2kHz
	<b>Acoustic Range</b>	1kHz – 32kHz (High Filter) <=270Hz (Low Filter)
<b>Case Dimensions</b>		16 x 13 x 6.87in (25.4 x 33 x 17.5cm)
<b>Case Weight</b>		31lbs (14kg)

**SYSTEM CONTROLS**



**RELATED PRODUCTS**



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# X-Wave

## Primary Cable Fault Locator

■ The HAEFELY HIPOTRONICS X-WAVE is the most safe, powerful, and advanced cable fault-locating tool on the market for sectionalizing Underground Residential Distribution (URD) loop feed installations. Combined with the HAEFELY HIPOTRONICS H-FLASH, it makes fault locating of URD cable systems simple.

This self-contained, battery operated and weather-proof fault locator is equipped with a microprocessor-based control system, as well as large push buttons for user-friendly operation. The emergency stop button, isolated return, and unique mechanical design ensure user safety.

The X-WAVE is specifically designed to shorten restoration time and increase productivity for a wide range of customers.

**FEATURES**

- ☑ **Automatic identification** of cable length and fault distance
- ☑ **Quick fault location**
- ☑ **Accessible internal memory** for cable trace storage
- ☑ **Large LCD display**
- ☑ **Intuitive step-by-step instructions**
- ☑ **Multi-Language** options
- ☑ **Large, easy-to-use** buttons
- ☑ **Adjustable output** from 500V - 10kV DC

**BENEFITS**

- Isolated return and secure grounding** ensure safe operation.
- Multi-purpose device** with the ability to pre-locate, locate and diagnose cable faults.
- Easy to use controls** guide user through test procedure.
- USB port** to download waveforms and evaluate test results.
- Reduce outage time** by quickly locating cable faults and restoring power.
- Reduce cable damage** with TDR pre-location technology.

**APPLICATIONS**

These devices are generally used by:

- Electrical Utilities
- Test Companies
- Petrochemical
- Mining Facilities
- Facility Maintenance



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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 customer's 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, we confirm your order before 5pm, 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 website

### 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 cable seal certificate where appropriate. In addition, Inlec offers 24/7 technical support and repair services. As 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

## Europe's leading Test Equipment Hire Specialist

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**HAEFELY**  
**HIPOTRONICS**



## TECHNICAL SPECIFICATIONS

<b>Model Number</b>	<b>X-WAVE</b>	
<b>System Output</b>	500V - 10kV, 12.5mA (max)	
<b>Pulse</b>	<b>Amplitude</b>	160V, 50Ω
	<b>Width</b>	50 - 400nsec
<b>Maximum Energy</b>	350J	
<b>Repetition Rate</b>	6 sec @ max voltage	
<b>Sampling Rate</b>	80MHz	
<b>Accuracy</b>	± 1% of total cable length	
<b>Cable Range</b>	50ft - 10,000ft (15m - 3km)	
<b>Operational Modes</b>	Arc Reflection (High Voltage TDR)	
	Direct TDR (Low Voltage TDR)	
	DC Hipot	
	Capacitive Discharge/Impulse (Thump)	
<b>Display</b>	Trans-Reflective, mono-chrome LCD monitor, 6.5 in (16.5cm)	
<b>Battery</b>	<b>Duration</b>	Minimum 1hr continuous use @ max voltage
	<b>Type</b>	24V DC, Rechargeable
<b>Temperature</b>	<b>Operating</b>	10°F - 122°F (-12°C - 50°C)
	<b>Storage</b>	-40°F - 140°F (-40°C - 60°C)
<b>Dimensions (W x H x D)</b>	16.5 x 17.5 x 9 in (41.9 x 44.5 x 22.9 cm)	
<b>Weight</b>	<b>Net</b>	42lbs (19kg)
	<b>Shipping</b>	50lbs (22.5kg)
<b>Included Accessories</b>	High Voltage Output & Ground Cables, 15ft ( 3m) Battery Charging Cable, 100/240V, 6ft (1.8m) User's Manual Calibration Certificate	

## SYSTEM CONTROLS



### NOW AVAILABLE:

Click Here For [Product Demo Video!](#)

See our [YouTube Channel](#)

## ADDITIONAL EQUIPMENT & ACCESSORIES

Part Number	Description
<b>X-WAVE-BATTERY</b>	Extra Auxiliary Battery Pack
<b>X-WAVE-POWER</b>	Auxiliary AC Power Adapter (Allows users to run the equipment while charging simultaneously.)
<b>H-FLASH</b>	Digital Acoustic/Ballistic Listening Device
<b>EXT-WARN-1</b>	One year extended warranty



*H-FLASH  
Digital Acoustic/Ballistic  
Listening Device  
(pictured left)*

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