



# GEOMEMBRANE LEAK DETECTION



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GEOMEMBRANE LEAK DETECTION

**CATALOGUE  
2025**

# **More than 30 years of leak detection experience**

**ELIS Technologies offers advanced geomembrane leak location products and services.**

**Established by a team of geomembrane leak detection professionals, ELIS Technologies offers more than 30 years of leak detection experience. Our expertise has been utilized and applied all over the world.**

**ELIS Technologies offers a wide spectrum of geomembrane leak location services and products to cater to the vast majority of leak location audiences. We help customers with both exposed as well as covered geomembrane liner leaks.**

## **Why ELIS?**



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# Improved geomembrane monitoring technology

Solutions provided by ELIS have been specifically designed to improve efficiency and accuracy of the leak detection process.

## Company Focus:

- Automation
  - higher levels of automation eliminate human errors
- GPS precision tools
  - ensure that the entire site is fully surveyed & improve reporting
- Advanced Software Technology (AST)
  - AST enables better data interpretation
- User Friendly Design
  - less fatigue for human operators means higher productivity and speed

## Company Focus



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# **ELIS - your R&D partner**

**Solutions provided by ELIS are not limited to the standard product and service portfolio. Thanks to our extensive experience with leak detection, we are able to offer custom-made solutions to many of our clients.**

**Due to complexity, many projects require an individual approach. Whether it's an intricate design of the project, a hard-to-access location, or a similar challenge, ELIS always strives to deliver solutions that help the operator with any leak detection challenges they may face.**

## **R&D Partner**



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# **ISO 9001:2015 Certified**

**Design, production, sale and service of devices in the field of geomembrane integrity monitoring.**

**Provision of services in the field of geomembrane integrity monitoring.**

# **Made in Europe**

**All of our products embody the pinnacle of European craftsmanship, designed and manufactured within Europe to ensure the highest standards of quality.**

**ISO  
Certified**

**European  
Quality**



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**eRex**  
**eRaptor**  
**eDipole**  
**eFix**  
**eLagoon**  
**eRover**

**Products  
&  
Services**



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# Products & Services



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# eRex

**Ultraportable Arc-Tester**

**Leak detection on  
exposed geomembranes.**

**Suitable for smaller  
projects.**



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- **Compatible with a multitude of materials up to 7mm/0.28in thick:**
  - PVC/TPO/HDPE/LDPE /rubber/bitumen
  - similar materials
- **Ultra-light and portable**
  - only 650g/1.43lb
- **Built-in battery**
- **More than 4 hours of survey time on a single charge**
- **Visual alarm for leaks**
- **Fast deployment**

# eRex Features



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# eRaptor 2.0 PRO

**Advanced Arc-Tester**

**Leak detection on  
exposed geomembranes.**

**GPS tracking enabled.**

**Suitable for large projects.**

**Survey speed: up to  
10,000m<sup>2</sup>/107,600 sq ft  
per day.**



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Features	eRaptor 2.0 PRO	eRaptor 2.0 PRO GPS	eRaptor 2.0 PRO RTK
<ul style="list-style-type: none"> <li>- Integrated battery</li> <li>- Adjustable voltage</li> <li>- Visual and sound alarm</li> <li>- 1m wide T-probe</li> <li>- Ergonomic handle</li> <li>- Durable protective case</li> </ul>	✓	✓	✓
<ul style="list-style-type: none"> <li>- Extended battery life</li> <li>- ELIS Application</li> <li>- Mobile phone (IP 68)</li> <li>- Basic GPS tracking (precision up to 3m/10ft)</li> </ul>		✓	✓
Automatic report generation		✓	✓
High precision RTK GPS survey tracking (precision up to 2cm/0.79in)			✓

# eRaptor 2.0 PRO Series



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# eRaptor 2.0 PRO



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## **eRaptor 2.0 PRO**

Perfect for a wide range of materials up to 20mm/0.79in thick (PVC, TPO, HDPE, LDPE, rubber, bitumen). Equipped with adjustable voltage, visual and audible alarms, and a light, portable design - all packed into a durable protective case.

## **eRaptor 2.0 PRO GPS**

Includes all the features of the PRO, plus basic GPS tracking (precision up to 3m/10ft), automatic report generation via the ELIS Application, and extended battery life for uninterrupted performance.

## **eRaptor 2.0 PRO RTK**

Includes all the features of the PRO GPS version. The ultimate solution for professionals, featuring advanced RTK GPS tracking with unmatched precision up to 2cm/0.79in. Ideal for projects demanding the highest level of accuracy.

## **Why Choose eRaptor 2.0 PRO Series?**

Lightweight and portable for fieldwork convenience

Adjustable alarms and voltage for versatile use

Built-in battery with full-day operation

Cutting-edge GPS and RTK options for precise reporting

Compatible with diverse materials

# **eRaptor 2.0 PRO Features**



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# GPS eDipole Kit

**eDipole equipment for  
leak detection on  
covered geomembranes.**

**Advanced RTK GPS  
survey tracking.**

**Survey speed: up to  
10,000m<sup>2</sup>/107,600 sq ft  
per day.**



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## **ASTM**

- ASTM D8265-21 compatible

## **Superb Data Collection & Reporting**

- Live voltage graph
- Advanced RTK GPS tracking (precision up to 2cm/0.79in)
- Short probe spacing for higher accuracy
- Higher sensitivity due to ELIS electrode covers
- Reliable data logger with xml file export for seamless data processing

## **User Friendly**

- Large display
- Easy data collection with an external trigger device
- Audible alarm for anomalies

# **RTK GPS eDipole Features**



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# eLagoon

**Aquatic drone.**

**Leak detection on  
submerged  
geomembranes.**



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## **ASTM**

- ASTM D8265-21 compatible

## **Survey Capabilities**

- Autonomous drone movement
- Submerged geomembrane leak detection
- Double liner compatible technology
- Liquid depth up to 6m/19.7ft
- Survey speed up to 20,000 m<sup>2</sup>/215,300 sq ft in 8 hours
- Equipped with interchangeable batteries for uninterrupted operation

## **Superb Data Collection & Feedback**

- Live voltage graph
- Advanced RTK GPS tracking (precision up to 2cm/0.79in)
- Reliable data logger with xml file export

## **User Friendly**

- Live data feed from eLagoon during surveys
- Custom software designed for leak detection professionals

# eLagoon Features



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# eRover

Land drone.

Leak detection on  
covered  
geomembranes.



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## **ASTM**

- **ASTM D8265-21 compatible**

## **Survey Capabilities**

- **Autonomous drone movement**
- **Covered geomembrane leak detection**
- **Cover material depth up to 1 m/3.3 ft**
- **Survey speed up to 20,000 m<sup>2</sup>/215,300 sq ft in 8 hours**
- **Equipped with interchangeable batteries for uninterrupted operation.**

## **Superb Data Collection & Feedback**

- **Live voltage graph**
- **Advanced RTK GPS tracking (precision up to 2cm/0.79in)**
- **Reliable data logger with xml file export**

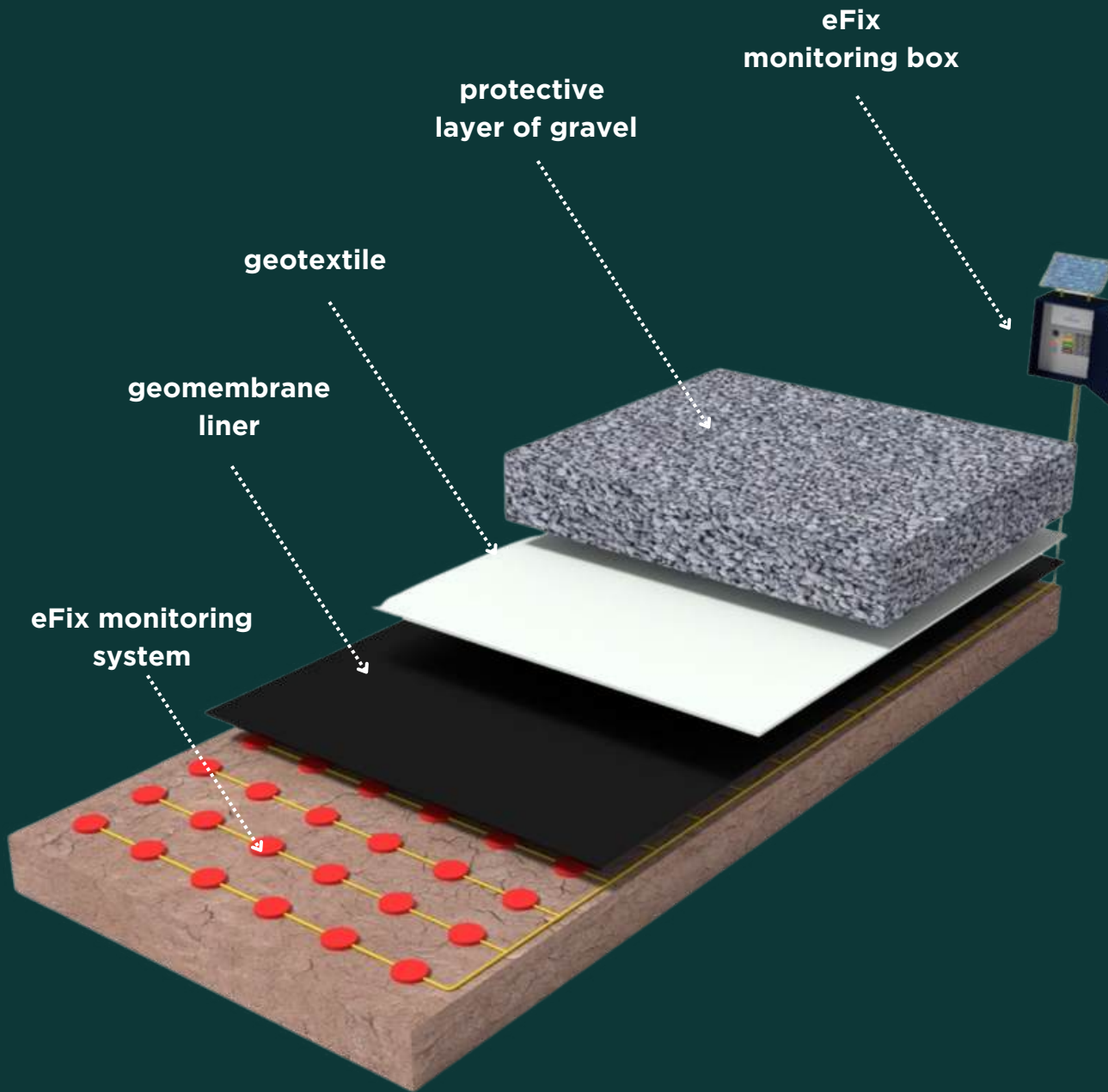
## **User Friendly**

- **Live data feed from eRover during surveys**
- **Custom software designed for leak detection professionals**

# **eRover Features**



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# eFix

**Permanent leak detection system suitable for almost any geomembrane project.**

**Installed underneath the monitored geomembrane.**

**Capable of leak detection throughout the expected lifetime of a project.**



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## **eFix comes in three configurations:**

### **Offline eFix**

Offline eFix is the most cost-effective solution, capable of monitoring projects throughout their lifespan. Inspections involve on-site data collection by ELIS technicians, which is processed by ELIS, resulting in a detailed leak detection report for the customer.

### **Semi-automatic eFix**

Semi-automatic eFix, our mid-range solution, provides on-demand leak detection by monitoring projects throughout their entire expected lifespan. It facilitates autonomous data collection, making on-site technician visits unnecessary. The gathered data is analyzed by ELIS, which then generates a comprehensive leak detection report for the customer.

### **Automatic eFix**

Automatic eFix is the best-in-class solution, designed to oversee projects throughout their entire expected lifespan. It supports autonomous data collection and data evaluation, enabling continuous, 24/7 monitoring without requiring on-site technician involvement. Customers benefit from instant access to leak detection data.

# **eFix Types**



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# ELIS

## Accessories

6m/20ft  
150m/492ft  
Ground Cables

eSource 360

Survey Hook

Extended  
Stainless Steel  
Electrode (Total  
width: 1500mm)

Neoprene  
Electrode with  
Wheels



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# NOTES



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**Learn more at  
[www.elis.tech](http://www.elis.tech)**

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