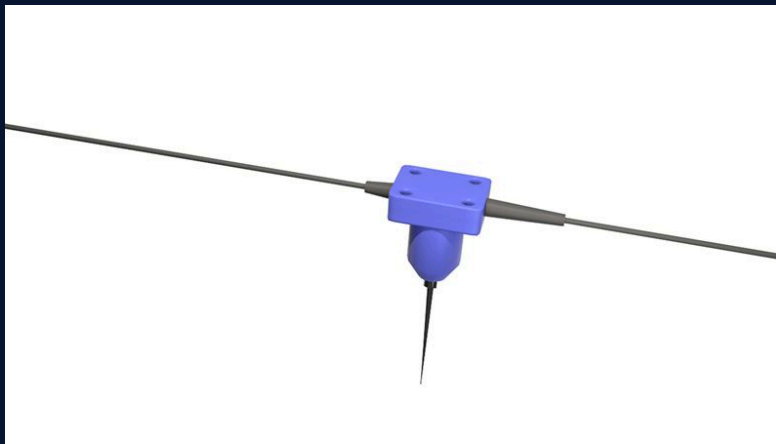


PERIMETER · BURIED DETECTION

D-Ground

L4 Layer · Ground & approaches

Buried seismic sensors detect footsteps and digging on access routes and perimeters, with early warning before an intruder reaches the fence.



KEY BENEFITS

- 01 Early warning before the fence**
Detects footsteps and digging as soon as someone enters the protected route.
- 02 Invisible, hard to defeat**
Installed below ground: cannot be seen, sabotaged or bypassed.
- 03 Years without maintenance**
Stand-alone on one battery for years, with automatic self-test.

HOW IT WORKS

- 01 Buried sensor line**
Seismic sensors are laid in a trench along the route or perimeter.
- 02 Ground fluctuations**
Footsteps, digging and other activity create fluctuations near the sensors.
- 03 Self-learning analysis**
The algorithm classifies the threat and calibrates itself to environmental noise.

SPECIFICATIONS

Technology	Seismic sensors, installed below ground
Detects	Footsteps, digging and other intrusions above and below ground
Coverage area	120 m ²
Operating voltage	5 V
Power	Stand-alone; the same battery for years
Operating temperature	–40 °C to +70 °C
Relative humidity	95%
Protection	IP67, UV protected
Self-test	Automatic built-in test (BIT)
Sensitivity	Adjustable per threat and per time of day
Integration	Stand-alone or with video systems, alarm systems and smartphones

04 Alarm

Thresholds per threat and time of day; alerts go to video systems, alarm systems or smartphones.

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Ground by D-FENCE Electronic Fencing and Security Systems Ltd. (ISO 9001:2015 certified quality management), or an approved equivalent that meets every requirement in this section.

2. FUNCTION

Buried seismic sensors detect footsteps and digging on access routes and perimeters, with early warning before an intruder reaches the fence.

3. THE SYSTEM SHALL PROVIDE

- **Seismic sensing:** Sensitive seismic technology picks up ground fluctuations near the sensor line.
- **Above and below ground:** Recognizes footsteps, digging and other intrusion attempts.
- **Self-learning algorithm:** High recognition of diverse threats, calibrated automatically to environmental noise.
- **Invisible:** Installed below ground: cannot be seen, sabotaged or bypassed, and the area looks unchanged.
- **Adjustable thresholds:** A different sensitivity for each threat and for each time of day.
- **Stand-alone or integrated:** Years on one battery, or connected to video, alarm systems and smartphones.

4. TECHNICAL REQUIREMENTS

- **Technology:** Seismic sensors, installed below ground
- **Detects:** Footsteps, digging and other intrusions above and below ground
- **Coverage area:** 120 m²
- **Operating voltage:** 5 V
- **Power:** Stand-alone; the same battery for years
- **Operating temperature:** -40 °C to +70 °C
- **Relative humidity:** 95%
- **Protection:** IP67, UV protected
- **Self-test:** Automatic built-in test (BIT)
- **Sensitivity:** Adjustable per threat and per time of day
- **Integration:** Stand-alone or with video systems, alarm systems and smartphones

5. DETECTION SEQUENCE

1. **Buried sensor line:** Seismic sensors are laid in a trench along the route or perimeter.
2. **Ground fluctuations:** Footsteps, digging and other activity create fluctuations near the sensors.
3. **Self-learning analysis:** The algorithm classifies the threat and calibrates itself to environmental noise.
4. **Alarm:** Thresholds per threat and time of day; alerts go to video systems, alarm systems or smartphones.

6. SUBMITTALS

Before installation, the contractor shall submit the manufacturer's datasheet, the installation instructions and the zone layout for approval.