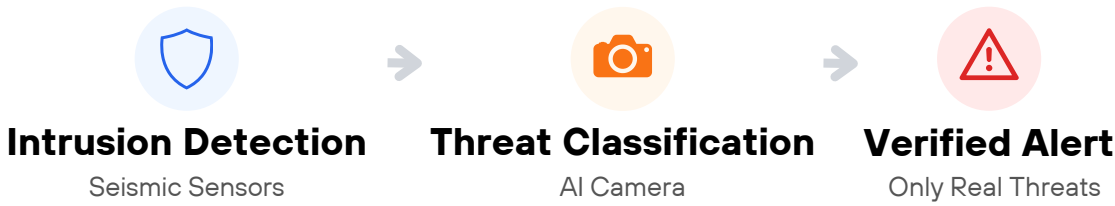


Seismic Shield

Technical Specification

System Operation



- 1 Seismic sensors detect any footsteps around the protected area, to provide early warning upon any intrusion
- 2 The relevant camera use AI analytics to classify if it is a threat of interest
- 3 Only verified threats trigger the alarm system, avoiding false alarms and face-to-face encounters with burglars



Overview

Traditional security systems often rely on visible cameras and sensors, which can be tampered with or easily avoided. Seismic Shield introduces a groundbreaking approach to home perimeter security by taking the surveillance underground. By focusing on underground, invisible surveillance, Seismic Shield not only enhances your home's security but does so without altering its natural beauty. Discover the smarter way to protect what's most important to you.



Key Features

- Underground seismic sensors maintaining your property's aesthetic and eliminate vandalism risk
- Patent protected two layer holistic system combining underground sensors and AI camera verification. Ensures best of class performance
- Detect threats while they're still in your yard - before they reach your door step, preventing dangerous encounters

Specifications subject to change without notice. ©2025 SensoGuard Ltd.

Wireless HUB Unit

Technical Specification

Technical Specifications

Specification	With AI Bridge	Without AI Bridge
Communication Interfaces	USB Configuration Cable, Wireless RF	TCP/IP, Wireless RF
RF Frequency	433Mhz (Default), 868/915Mhz (Optional)	
Network Protocol	LoRA (Long Range) low-power wide-area network	
Transmission Range	Up to 1Km/3,280ft radius	
Maximum Sensors	Up to 30 sensors	
Alarm Output Options	18 Dry Contacts	18 Dry Contacts, TCP/IP
Camera/External Sensor Alarm Inputs	6 Alarm Inputs	
IP Rating	IP67	
Power Supply	12V (9 to 20VDC) + PoE to AI Bridge	12V (9 to 20VDC)
Operating Temperature	-40°C to 85°C / -40°F to 185°F	
Weight	475g / 1.0lbs	
Dimensions	190mm × 150mm × 55mm / 7.4" × 5.9" × 2.1"	



Overview

The HUB Unit is the central control component of the InvisiFence Plus perimeter security system. The HUB Unit processes data from the seismic sensor cable and provides integration with external security systems.

Key Features

- Multiple communication interfaces
- Dry contact outputs for external systems
- External sensor/camera alarm inputs
- TCP/IP networking for central monitoring
- Rugged outdoor design (IP67)

Specifications subject to change without notice. ©2025 SensoGuard Ltd.

AIO X

Technical Specification

Detection Capabilities

Footsteps Detection	Up to 12m/39ft radius
Vehicle Detection	Up to 25m/82ft radius
Digging Detection	Up to 25m/82ft radius
Detection Zone	360° coverage

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range (Antenna 2cm below ground)	Up to 250m/820ft radius
Transmission Range (Antenna 5cm above ground)	Up to 1Km/3,280ft radius

Environmental & Power

IP Rating	IP68 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Battery Life	Non-rechargeable, 6 years

Physical Specifications

Dimensions (Sensor)	103mm × 103mm × 150mm / 4" × 4" × 5.9"
Dimensions (Spike)	75mm / 2.95"
Weight	500g / 1.1lbs
Installation Depth	30-50cm / 11.8"-19.6"



Overview

AIO X buried sensor is a wireless seismic sensor designed for long term installations of commercial applications (residential security). The sensor includes internal non-rechargeable battery for up to 6 years of continuous operation.



Components

- Top part: battery pack & DSP processor (sealed)
- Bottom part: sensing element and cable
- Spike



Specifications subject to change without notice. ©2025 SensoGuard Ltd.

Wired HUB Unit

Technical Specification

Technical Specifications

Specification	With AI Bridge	Without AI Bridge
Communication Interfaces	USB Configuration Cable	TCP/IP
Maximum Sensors	Up to 38 sensors	
Alarm Output Options	18 Dry Contacts	18 Dry Contacts, TCP/IP
Camera/External Sensor Alarm Inputs	6 Alarm Inputs	
IP Rating	IP67	
Power Supply	12V (9 to 20VDC) + PoE to AI Bridge	12V (9 to 20VDC)
Operating Temperature	-40°C to 85°C / -40°F to 185°F	
Weight	475g / 1.0lbs	
Dimensions	190mm × 150mm × 55mm / 7.4" × 5.9" × 2.1"	



Overview

The HUB Unit is the central control component of the InvisiFence Plus perimeter security system. The HUB Unit processes data from the seismic sensor cable and provides integration with external security systems.

Key Features

- Multiple communication interfaces
- Dry contact outputs for external systems
- External sensor/camera alarm inputs
- TCP/IP networking for central monitoring
- Rugged outdoor design (IP67)

Specifications subject to change without notice. ©2025 SensoGuard Ltd.

Sensor Cable

Technical Specification

Detection Capabilities

Footsteps Detection	Up to 12m/39ft radius
Vehicle Detection	Up to 25m/82ft radius
Digging Detection	Up to 25m/82ft radius
Virtual Fence Dimensions	6m width × 25m depth

Communication

Maximum Sensors	Up to 38 sensors per string
Bus Communication	RS485

Environmental & Power

IP Rating	IP68 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Power Supply	12V (9 to 20VDC)
Power Consumption	~15mW (1.3mA @ 12V)

Physical Specifications

Dimensions (Sensor)	131mm × 50mm × 42mm / 5.1" × 1.96" × 1.65"
Dimensions (Spike)	55mm / 2.16"
Weight (Each Sensor)	115g / 0.2lbs
Installation Depth	30-50cm / 11.8"-19.6"



Overview

The Sensor Cable consists of smart seismic sensors connected in a string formation, designed to create an invisible perimeter security system. Each sensor includes a DSP processor for local sampling and processing, providing distributed intelligence throughout the system.



Key Features

- Invisible perimeter protection
- Advanced DSP processing
- Individual sensor sensitivity adjustment
- Low power consumption
- No maintenance required

Specifications subject to change without notice. ©2025 SensoGuard Ltd.