

InvisiFence Plus

Technical Specification

System Operation

- Smart buried seismic sensors continuously analyze ground vibrations
- Creates a virtual fence of 6m width and 25m depth
- Embedded processors analyze real-time signals for footsteps, digging and vehicle patterns
- Upon intrusion detection, sensors forward data to Hub unit
- SensoGuard or 3rd party Control software displays alarms and video



Overview

The InvisiFence Plus system creates an invisible perimeter security solution using smart seismic sensors connected to a Hub unit. The system features fully distributed sensing and processing capabilities, with each sensor including a DSP processor for local sampling & processing.



Key Features

- Invisible alert system based on seismic technology
- Pinpoint intrusions with sensor-level alarm localization
- Accurately detects multiple simultaneous intrusions
- Sensitivity adjustment per sensor
- No maintenance, Plug & Play installation
- Classification: Footsteps, Digging, Vehicle
- Minimum infrastructure required

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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)

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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

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