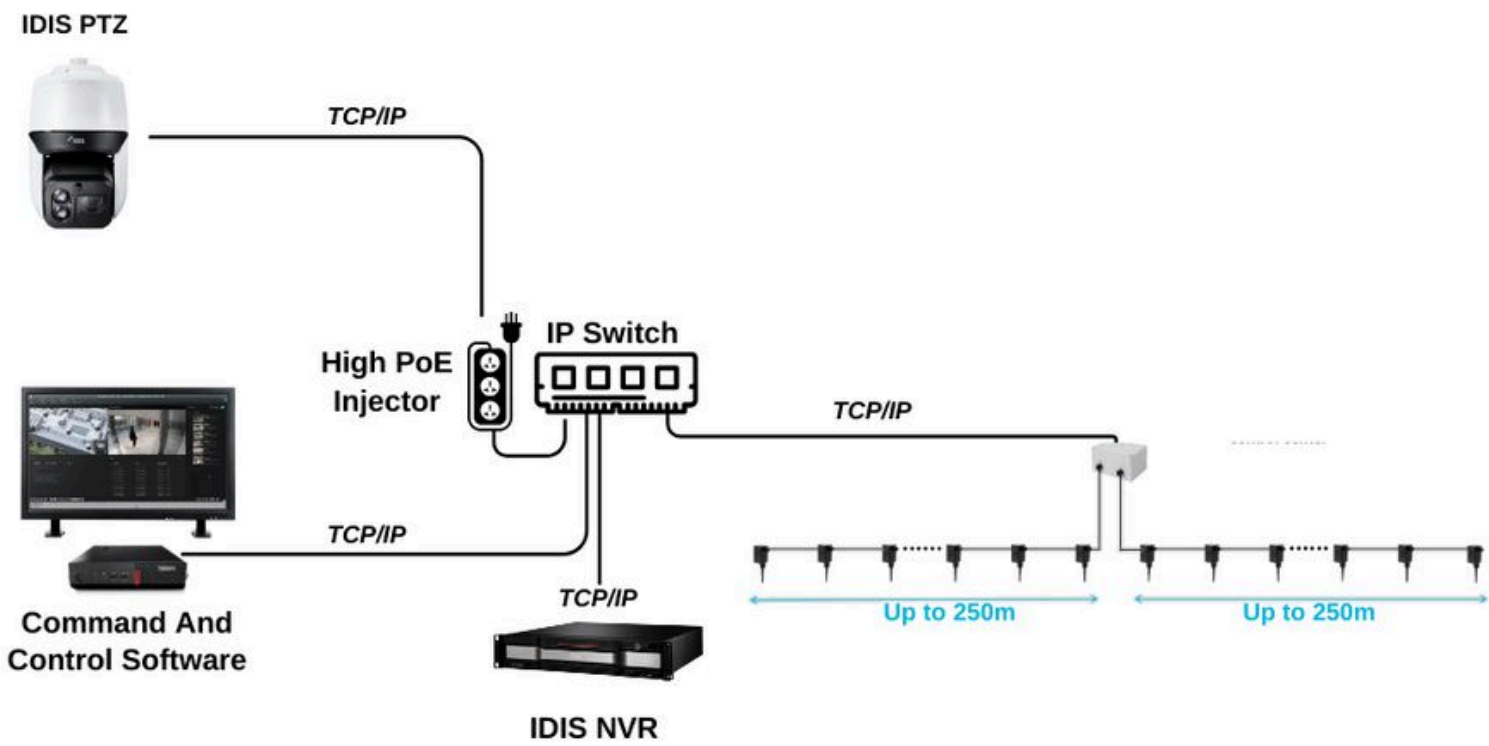


# Seismic Shield Pro

## 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



### Overview

Seismic Shield Pro include 2 defense layers. An invisible buried sensors layer that remains unaffected by visual or environmental interferences and a AI verification layer using mobilized PTZ camera.



### Key Features

- A continuous protective barrier 6m in width and 25m in depth, ensuring zero gaps in your defense
- The architecture of Seismic Shield Pro allows for the integration of additional components or the expansion of the existing system
- Immune to weather conditions: Rain, Fog, Wind, Day & Night.
- Underground System (Isolated) minimize risk of vandals / cable cut
- Accurate threat analysis. Determine in real-time the nature of the intrusion – be it human, vehicle, or otherwise

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# Wired TCP/IP HUB Unit

## Technical Specification

## Technical Specifications

|                                 |                                          |
|---------------------------------|------------------------------------------|
| <b>Communication Interfaces</b> | TCP/IP                                   |
| <b>Maximum Sensors</b>          | Up to 38 sensors                         |
| <b>Alarm Output Options</b>     | TCP/IP                                   |
| <b>IP Rating</b>                | IP67                                     |
| <b>Power Supply</b>             | 12V (9 to 20VDC)                         |
| <b>Operating Temperature</b>    | -40°C to 85°C / -40°F to 185°F           |
| <b>Weight</b>                   | 260g / 0.57lb                            |
| <b>Dimensions</b>               | 135mm x 87mm x 82mm / 5.3" x 3.4" x 3.2" |



## 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

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

### Communication

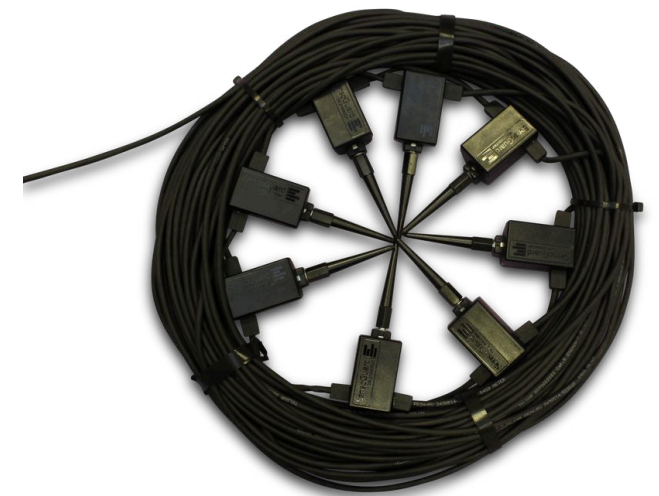
|                          |                             |
|--------------------------|-----------------------------|
| <b>Maximum Sensors</b>   | Up to 38 sensors per string |
| <b>Bus Communication</b> | RS485                       |

### Environmental & Power

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

### Physical Specifications

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>Dimensions (Sensor)</b>  | 131mm × 50mm × 42mm / 5.1" × 1.96" × 1.65" |
| <b>Dimensions (Spike)</b>   | 55mm / 2.16"                               |
| <b>Weight (Each Sensor)</b> | 115g / 0.2lbs                              |
| <b>Installation Depth</b>   | 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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# Wireless TCP/IP HUB Unit

## Technical Specification

### Technical Specifications

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Communication Interfaces | TCP/IP, Wireless RF                                             |
| Maximum Sensors          | Up to 30 sensors (Subnet Mode)<br>Up to 256 sensors (Flat Mode) |
| Alarm Output Options     | TCP/IP                                                          |
| IP Rating                | IP67                                                            |
| Power Supply             | 12V                                                             |
| Operating Temperature    | -40°C to 85°C / -40°F to 185°F                                  |
| Weight                   | 260g / 0.57lb                                                   |
| Dimensions               | 135mm x 87mm x 82mm / 5.3" x 3.4" x 3.2"                        |



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# AIO XR

## Technical Specification

### Detection Capabilities

|                            |                        |
|----------------------------|------------------------|
| <b>Footsteps Detection</b> | Up to 18m/60ft radius  |
| <b>Vehicle Detection</b>   | Up to 35m/115ft radius |
| <b>Digging Detection</b>   | Up to 35m/115ft radius |
| <b>Detection Zone</b>      | 360° coverage          |

### Communication

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

### Environmental & Power

|                              |                                |
|------------------------------|--------------------------------|
| <b>IP Rating</b>             | IP68 (MIL-STD 810G)            |
| <b>Operating Temperature</b> | -40°C to 85°C / -40°F to 185°F |
| <b>Battery Life</b>          | Non-rechargeable, 6 years      |
| <b>MTBF</b>                  | 100,000 Hours                  |

### Physical Specifications

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



### Overview

AIO XR is a wireless seismic sensor designed for long term installations of mission critical applications (HLS, Defense). 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



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# IDIS DC-S6481HRA PTZ

## Technical Specification

### Video

|                         |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor            | 1/1.8" CMOS                                                                                                                                                                 |
| Max. Resolution         | 2688 X 1520                                                                                                                                                                 |
| Focal Length & Aperture | 6.91 ~ 248.76mm (F1.36~F4.6)                                                                                                                                                |
| Dynamic Range           | 120dB (True WDR)                                                                                                                                                            |
| IR Distance (LEDs)      | 400 m / 1,312.3ft (2ea)                                                                                                                                                     |
| Image Stabilizer        | Yes (EIS)                                                                                                                                                                   |
| Intelligent Video       | Object Metadata: Human, Vehicle, Face<br>IDLA: Object Detection, Intrusion, Loitering, Line Crossing, Face Detection<br>ETC: Video Motion Detection, Active Tampering Alarm |



### Network

|                          |                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression        | H.265, H.264 (MP), M-JPEG                                                                                                                             |
| IP Camera Protocol       | DirectIP 2.0, ONVIF Profile S/T                                                                                                                       |
| Supported Resolution     | 2688 x 1520, 1920x1080, 1280x720, 640x360                                                                                                             |
| Network Protocols        | DirectIP 2.0 Protocol, IPv4, IPv6, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP, SNMPv2           |
| Security                 | Digest authentication, Password Protection, User access log, IP Filtering, IEEE802.1x(EAP-TLS), Chained Fingerprint, SSL Encryption, HTTPS Encryption |
| Ethernet                 | RJ45 (10/100BASE-T)                                                                                                                                   |
| Recording Session Buffer | Yes (Up to 60MB)                                                                                                                                      |
| Edge Storage             | micro SD/SDHC/SDXC, Smart Failover (Up to 512GB)                                                                                                      |

### Overview

H.265 4MP AI Speed Dome Camera (LightMaster NIR) / NDAA Compliant

### Key Features

- Easy installation with DirectIP NVR
- 4MP (2688 x 1520) resolution
- AF optical zoom lens (f=6.91 ~ 248.76mm)
- Built-in 400m Long range IR Illuminator
- IDIS Deep-Learning Analytics (IDLA)
- AI Auto Tracking Supports



### Environmental

|                       |                                |
|-----------------------|--------------------------------|
| Vandal Proof Casing   | IK10                           |
| Outdoor Ready         | IP66, Heater                   |
| Operating Temperature | -40°C ~ +60°C (-40°F ~ +140°F) |
| Operating Humidity    | 0% ~ 90%                       |

### Electrical & Mechanical

|                   |                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Power Source      | 24VAC, PoE IEEE 802.3bt (Class 8)                                                                                                         |
| Power Consumption | HEATER/IR OFF: 24V~, 1.5A, 27.1W, PoE, IEEE 802.3bt(Class 8), 26.4W<br>HEATER/IR ON: 24V~, 2.8A, 52.9W, PoE, IEEE 802.3bt(Class 8), 54.2W |
| Dimensions        | Ø242mm x 401.8mm (Ø9.52" x 15.82")                                                                                                        |
| Weight            | 7.2kg (15.87 lbs)                                                                                                                         |



# IDIS DR-8516 NVR

## Technical Specification

### Video

|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| Video Inputs             | 16 IP Channels                                                        |
| Max. Incoming Throughput | 320Mbps                                                               |
| Supported Camera         | DirectIP, AXIS, PANASONIC, ONVIF                                      |
| Video Outputs            | 2 HDMI                                                                |
| Display Resolution       | HDMI : 3840x2160, 1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200 |
| Display Speed            | Up to 480ips                                                          |
| Digital Zoom             | x2 ~ x12                                                              |



### Recording

|                      |                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Throughput      | 180Mbps, 480ips@UHD                                                                                                                                                                                                                                                          |
| Recording Resolution | Up to 12MP (Depending on IP Camera)                                                                                                                                                                                                                                          |
| Supported Resolution | H.265, H.264                                                                                                                                                                                                                                                                 |
| Video Compression    | Time-lapse, Event, Pre-event, Panic                                                                                                                                                                                                                                          |
| Recording Mode       | IDLA(Object Detection, Intrusion, Loitering, Line Crossing, Face Detection), BI(Exceed Occupancy Limit, Social Distancing, Mask Rule Violation, Queue Congestion), Motion, Trip-zone, Tampering, Video Loss, Audio Detection, Alarm In, Network Alarm, Text-in, System, Etc. |

### Playback

|             |                                                                                           |
|-------------|-------------------------------------------------------------------------------------------|
| Performance | 16ch synchronous playback                                                                 |
| Search Mode | Time-lapse, Event Log, Text-in, Thumbnail, Metadata(via IDIS Center, IDIS Solution Suite) |

### Storage

|     |                                                 |
|-----|-------------------------------------------------|
| HDD | SATA x 8, eSATA x 4, RAID 1, 5, 6, 10 Supported |
|-----|-------------------------------------------------|

### Network

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| Client Connection   | Gigabit Ethernet (Client) x 1                                                            |
| Video In Connection | Gigabit Ethernet(Video In) x 3, SFP(Video In ) x 2                                       |
| Transmission Speed  | 50Mbps / 100Mbps (BRP Mode)                                                              |
| Event Notification  | Email (Attach Clip (.cbf) .MP4), Callback to Remote S/W, Push Notification (IDIS Mobile) |

### Electrical & Mechanical

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Operating System      | Embedded Linux                                |
| Power Consumption     | 100-240V~, 50/60Hz, 6.0 - 3.0A, 130W          |
| Operating Temperature | 0°C to 40°C (32°F ~ 104°F)                    |
| Operating Humidity    | 0% ~ 90%                                      |
| Dimensions            | 482.6mm x 88mm x 529.5mm (19" x 3.5" x 20.8") |
| Weight                | 11.3kg (24.8lb) (with 2 HDDs)                 |

### Overview

DirectIP™ 8500 Series H.265 4K Recorder / NDAA Compliant

### Key Features

- Total incoming throughput 320Mbps
- Up to 480ips UHD real-time recording
- Supports H.265 / H.264 codec
- Easy to install, set-up, and play with DirectIP cameras
- Expandable up to 144TB using eSATA storage
- Supports RAID 1, 5, 6, 10

