

Technical Specifications

INVISIFENCE PLUS



1.0	Version
April 2024	Date

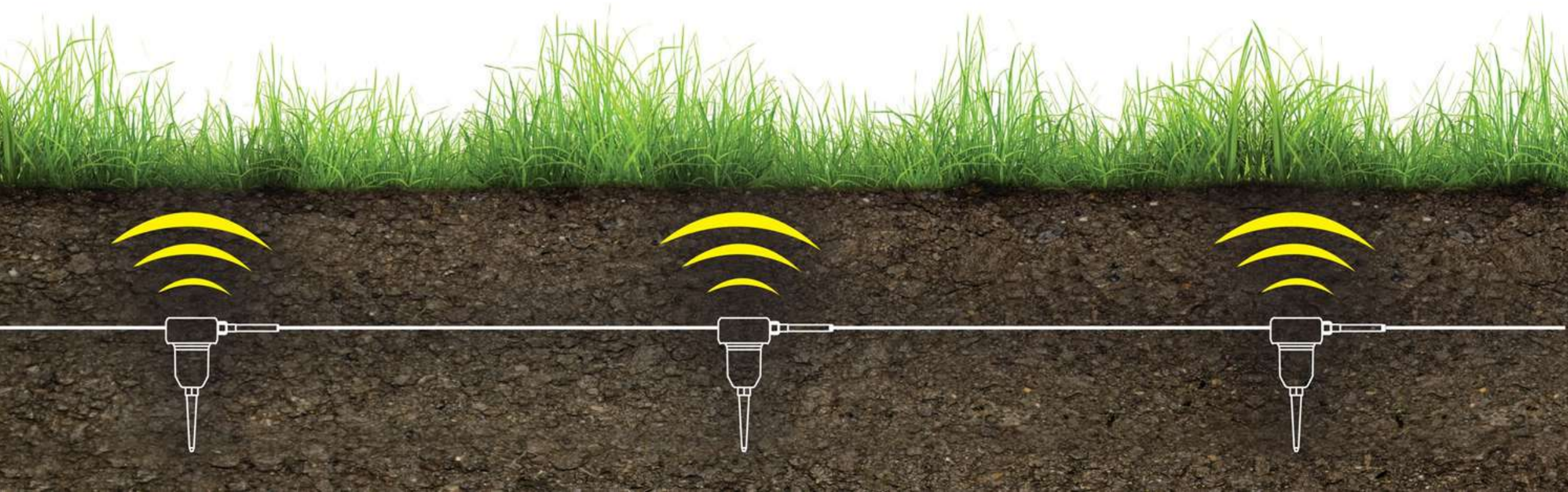


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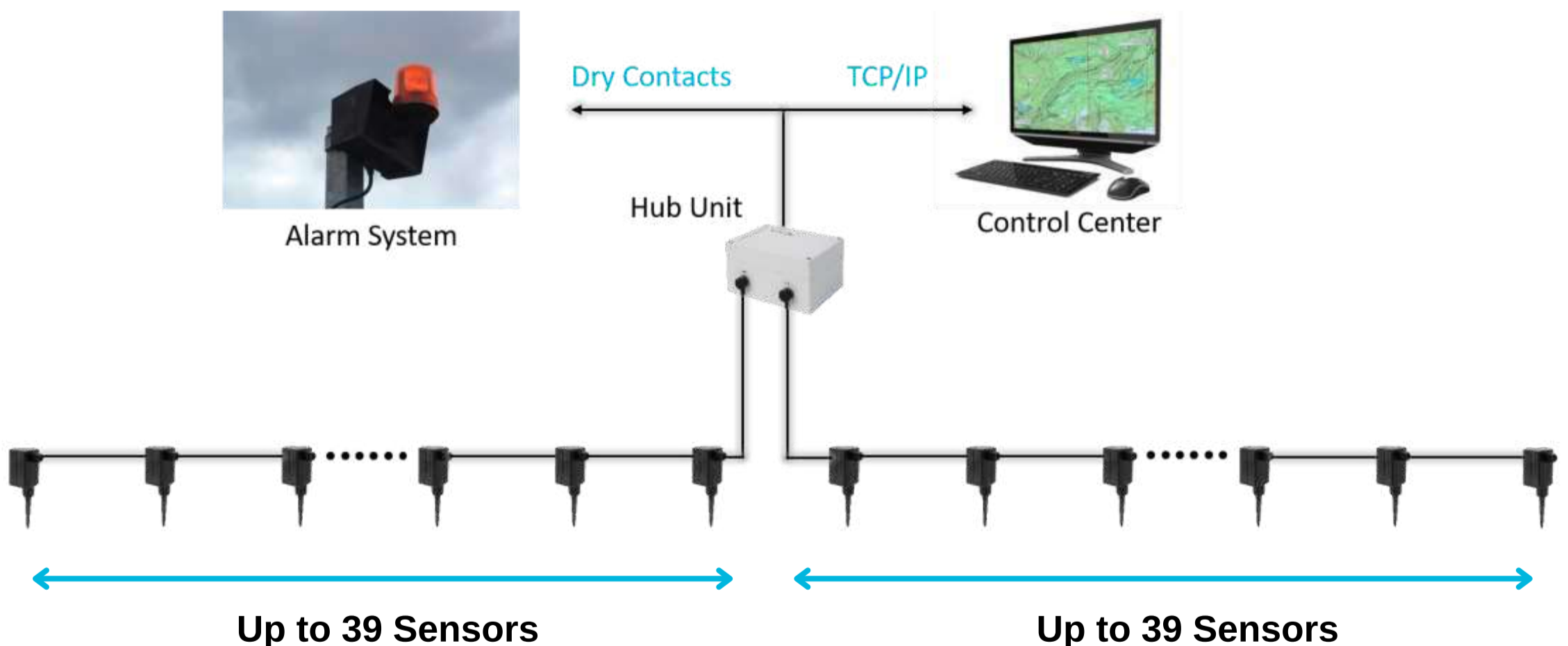
InvisiFence Plus

The **InvisiFence Plus** system composed of a cable with smart seismic sensors and a Hub unit.

The system feature fully distributed sensing and processing capabilities. Each sensor includes a DSP processor for local sampling & processing.

Key Features Of The System

- Invisible alert system based on seismic technology
- Can operate independently or integrated with existing systems
- Pinpoint intrusions: sensor level alarm localization
- Accurately detects and locates multiple simultaneous intrusions
- Sensitivity adjustment Per sensor
- Minimum Infrastructure required: Each Hub unit Detects and locates perimeter intrusions over distances of up to 500m
- No maintenance, Plug & Play installation
- Detection And Classifications: Intruder (footsteps), Digging, Vehicle



How It Works?

- The smart buried seismic sensors are installed along the perimeter
- The sensors continuously analyze ground vibrations and creates a virtual fence of 8m width and 25m depth
- Each sensor includes embedded processors which analyze real-time signals and search for patterns of footsteps, digging and vehicle activity
- Upon intrusion detection, the sensors immediately forward the relevant data to Hub unit
- SensoGuard or 3rd party Command and Control software displays alarms and real time video

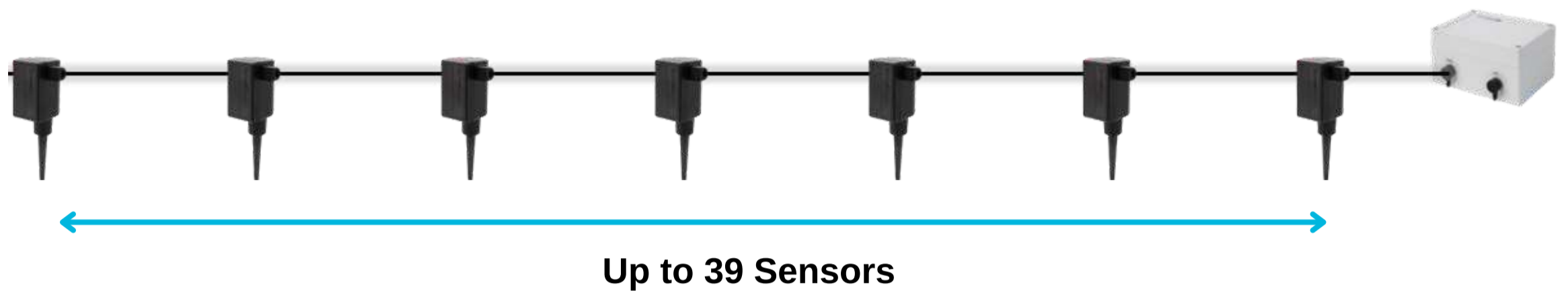


System Layout

There are 2 types of system layout.

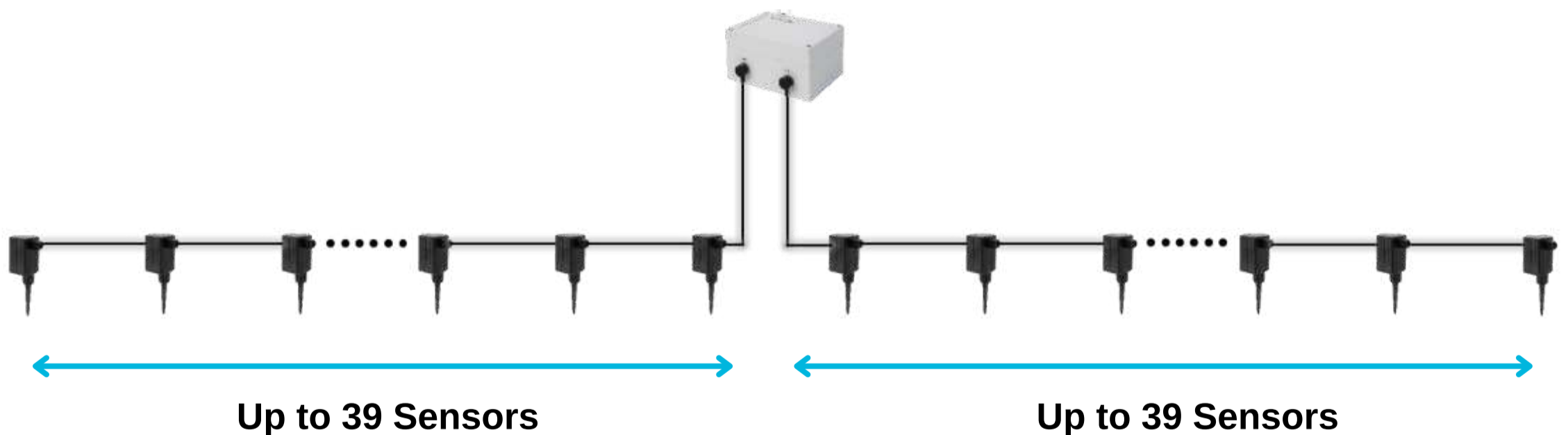
Single side HUB unit:

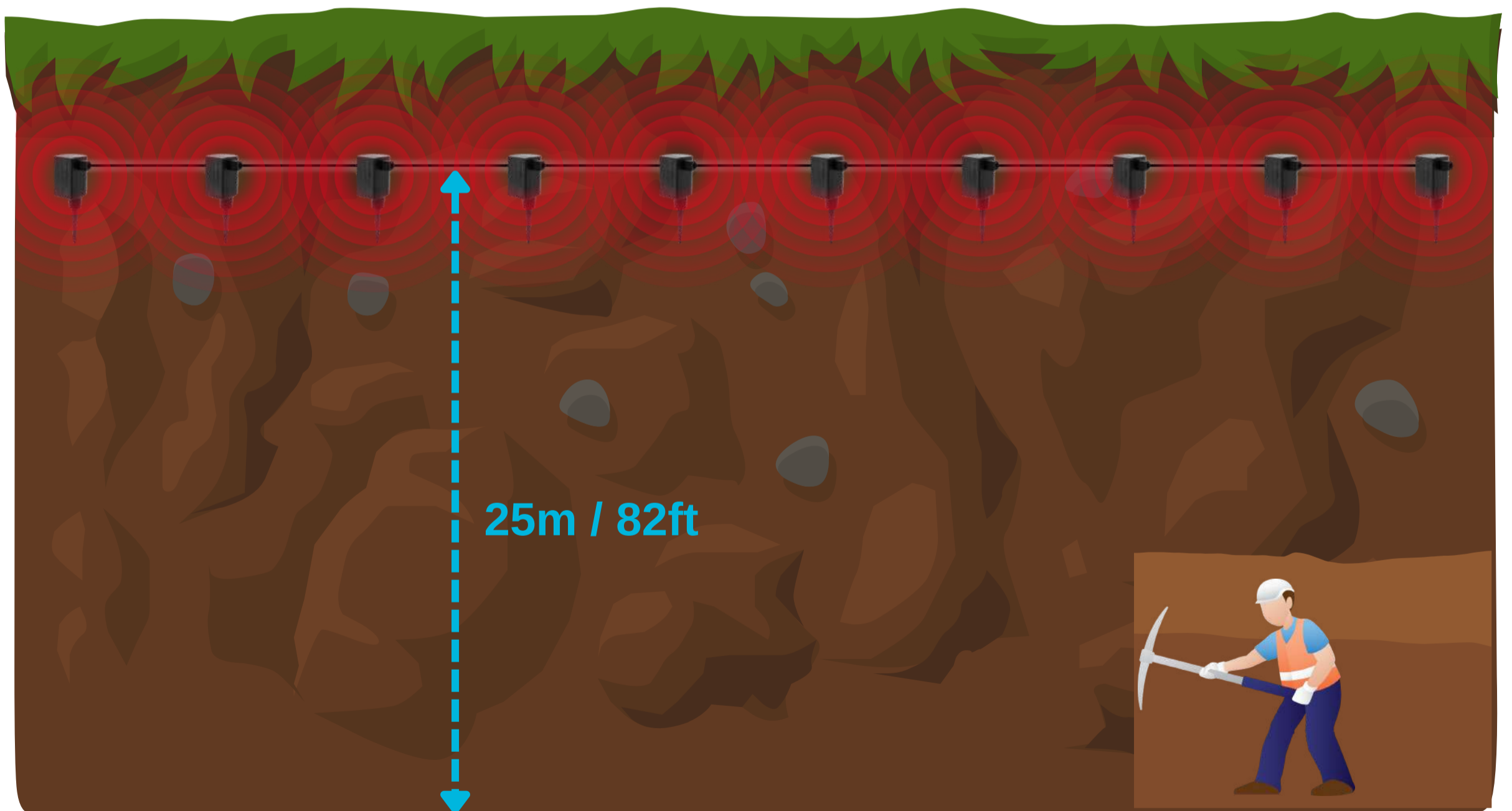
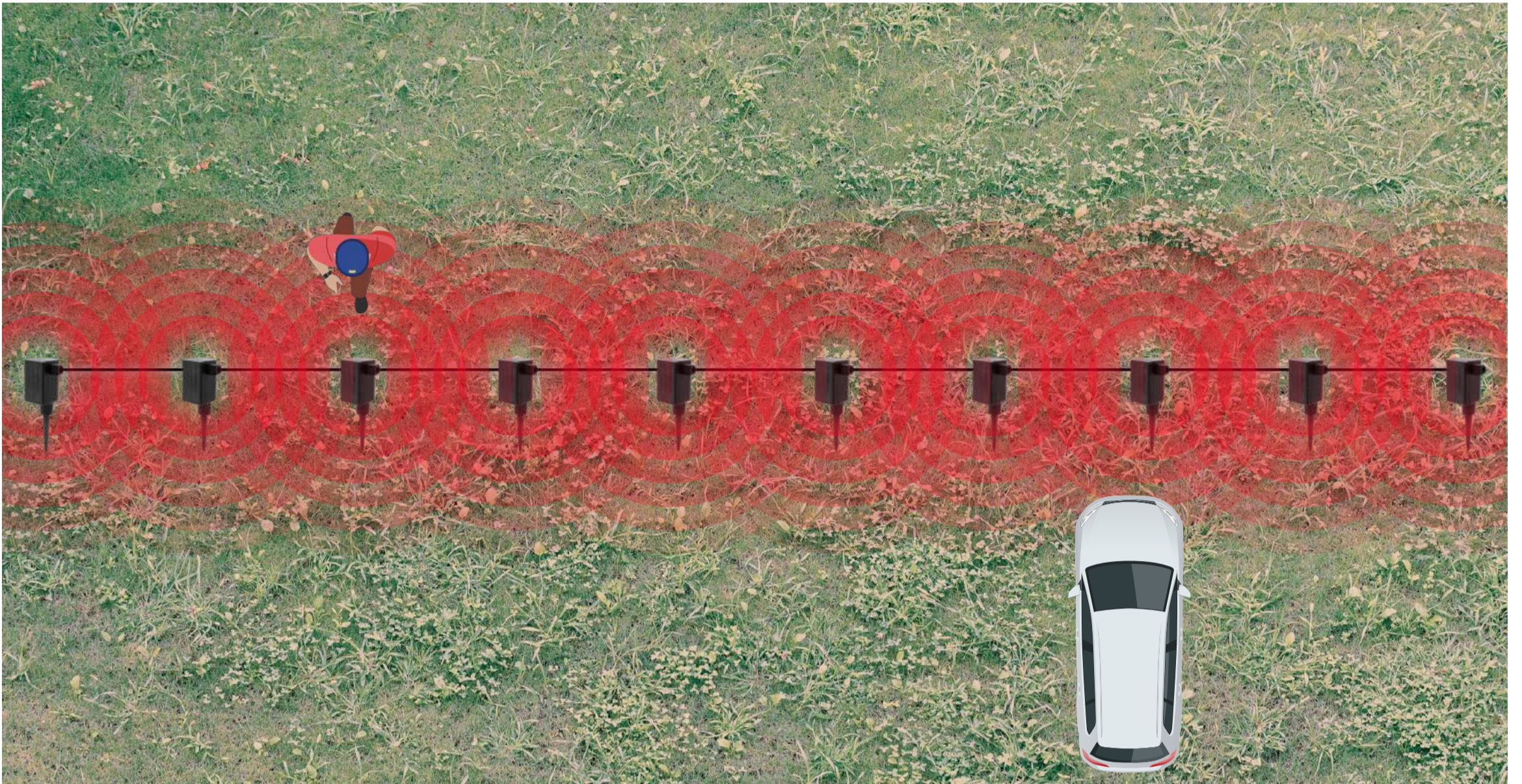
Single sided HUB Unit can control one line of sensor cable (up to 39 sensors). single sided HUB can be placed on any point of the sensors cable line (not only on the beginning/end).



Double sided HUB Unit:

Double sided HUB Unit can control 2 lines of 39 sensors. Double sided HUB must be placed on the middle of sensors cables, so it will have 39 sensors to each side.





InvisiFence Plus Cable



Description		
Maximum Sensors on String	Up to 39 sensors per string	
Operating Radius Detection performance depends on soil type, area environment and sensitivity level	Footsteps	Up to 12m/39ft radius
	Vehicles	Up to 25m/82ft radius
	Digging	Up to 25m/82ft radius
IP Rating (MIL-STD 810G)	IP68	
Power Supply	12V (9 to 20VDC)	
Power Consumption (Per Sensor)	15mW (1.3mA@12V)	
Working Temperature (MIL-STD 810G)	-40°C to 85°C / -40°F to 185°F	
Recommended installation depth	30-50cm / 11.8"-19.6"	
Bus Communication	RS485	

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Hub Unit



Description		
	Single Sided HUB	Double Sided HUB
Communication Interfaces	TCP/IP / UART	
Maximum Sensors	Up to 39 sensors	Up to 39 sensors on each side (78 sensors total)
Dry Contacts	18 Dry Contacts	36 Dry Contacts
Camera/External Sensor Alarm Inputs	6 Alarm Inputs	12 Alarm Inputs
IP Rating	IP67	
Power Supply	12V (9 to 20VDC)	
Working Temperature	-40°C to 85°C / -40°F to 185°F	
Weight	475g / 1.0lbs	950g / 2.0lbs
Size	190mm x 150mm x 55mm 7.4" x 5.9" x 2.1"	250mm x 160mm x 60mm 9.8" x 6.2" x 2.3"

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