

AIO XR

Technical Specification

Detection Capabilities

Footsteps Detection	Up to 18m/60ft radius
Vehicle Detection	Up to 35m/115ft radius
Digging Detection	Up to 35m/115ft 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
MTBF	100,000 Hours

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 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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