

MOSS OUTDOOR

Deploy Instant Surveillance. Anywhere. Anytime.

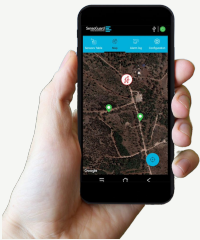
MOSS Outdoor is a rapid-deployment security kit with 360° seismic detection – no power, no infrastructure, no problem. Protect missions, camps, or borders with military-grade reliability.



5x AIO 2
Seismic Sensors



RF Receiver
Wireless RF
Receiver



**Rugged
Smartphone**
With SG-Patrol App



**Rugged
Suitcase**
Waterproof suitcase



Footsteps



Car



Digging



Disconnected



Low
Battery



**Ambush & Stakeout
Missions**



**Force & Route
Protection**



**Temporary Camp
Protection**



**VIP Event Area
Protection**

How It Works?



Seismic Sensor Detection
Detects human footsteps, vehicle movement, or digging activity



RF Receiver
Collects alerts wirelessly over long-range LoRa protocol



SG-Patrol App
Shows alerts and sensor location on a map with audio alarms.

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	Up to 1 year (rechargeable)

Physical Specifications

Dimensions (Sensor)	95mm x 70mm / 3.74" x 2.7"
Dimensions (Spike)	75mm / 2.95"
Weight	500g / 1.1lbs
Installation Depth	30-50cm / 11.8"-19.6"

1 How does the MOSS system work?

MOSS operates using a combination of wireless unattended sensors, a wireless smartphone receiver, and the SG-Patrol App on a ruggedized smartphone. Sensors detect intrusions and send alerts to the smartphone app, providing real-time alarm notifications and locations.

2 How does the system detect threats?

MOSS Outdoor uses seismic sensors to detect human footsteps, vehicle movement, or digging activity. Alerts are transmitted via LoRa RF to a rugged smartphone running the SG-Patrol App, which displays threat locations on a map and triggers real-time audio alerts.

3 How long does the system operate in the field?

The sensors are rechargeable and offer up to 1 year of battery life. The system is rated IP68 and tested to MIL-STD 810G, making it suitable for extreme environmental conditions from -40°C to +85°C.

