

MOSS INDOOR

Covert Indoor Protection. Deployed in Seconds.

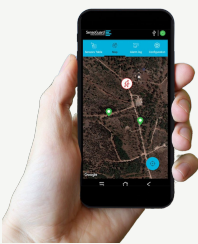
MOSS Indoor is a tactical rapid-deployment security kit for indoor environments. It enables the creation of an independent wireless alarm system in seconds – no infrastructure, no hassle.



5x TACT-PIR
Thermal Sensors



RF Receiver
Wireless RF
Receiver



**Rugged
Smartphone**
With SG-Patrol App



**Rugged
Suitcase**
Waterproof suitcase

The kit includes 5 TACT-PIR sensors by default, but users can customize their setup by replacing them with TACT-RADRA or MINI-VIB sensors



PIR



Radar



Vibration



Disconnected



Low
Battery



**Executive
Protection**



**Urban
Surveillance**



**Vacation
House**



**Indoor
Missions**

How It Works?



Motion/Vibration Detection
Detects intruder presence using PIR, Radar or Vibration sensor



RF Receiver
Collects alerts wirelessly over long-range LoRa protocol



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

Sensors

TACT-PIR

Detection Range	10m / 32.8ft
Field of View (FOV)	90°
Battery Life	Up to 6 months (rechargeable)
Power Consumption	~2.9mW (0.8mA @ 3.6V)

TACT-RADAR

Detection Range	5m / 16.4ft
Field of View (FOV)	360°
Battery Life	Up to 6 weeks (rechargeable)
Power Consumption	~11mW (3mA @ 3.6V)

MINI-VIB

Detection Range	10m / 32.8ft radius
Detection Capabilities	Hits/Vibration/Drill
Battery Life	Up to 3 years (rechargeable)
Power Consumption	~0.3mW (0.1mA @ 3.6V)

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range	Up to 250m/820ft radius

Environmental & Power

IP Rating	IP68 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F

Physical Specifications

Dimensions	32mm x 40mm x 75mm / 1.2" x 1.5" x 2.9"
Weight	150g / 0.33lbs

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How does the MOSS system work?

MOSS operates using a combination of wireless motion, vibration, and radar sensors, a wireless smartphone receiver, and the SG-Patrol App on a ruggedized smartphone. The sensors detect intrusion attempts and send alerts to the smartphone app, providing real-time alarm notifications and locations.
- 2

How does the system detect threats?

MOSS Indoor uses 3 types of sensors, PIR (thermal motion), radar, and vibration. The sensors detect intrusion attempts or tampering. Each sensor type provides a different layer of detection to suit varied indoor environments like hallways, secure rooms, or hidden access points. 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 the battery life varies by sensor type: PIR sensor - up to 6 months, Radar sensor - up to 6 weeks, and Vibration sensor - up to 3 years. The system is rated IP68 and tested to MIL-STD 810G, making it suitable for extreme environmental conditions from -40°C to +85°C.



STANDARD
MIL-STD
810G

