

# SDS Indoor Sensor Specifications

SDS Indoor gunshot detection sensors use true dual factor acoustic and infrared sensor technologies to deliver maximum accuracy and minimal false alerts.

All shot processing is done at the edge, inside the sensor, where detection and alerting happens in near real time to save precious seconds during a gun violence incident. SDS accuracy is so reliable that we have no human-in-the-loop or other systems which need an extra set of eyes and ears to further validate shots or weapons detected. Offered in both Power-over-Ethernet (PoE) and wireless versions, our sensors are also built with data and network security in mind, with no audio leaving the sensor.



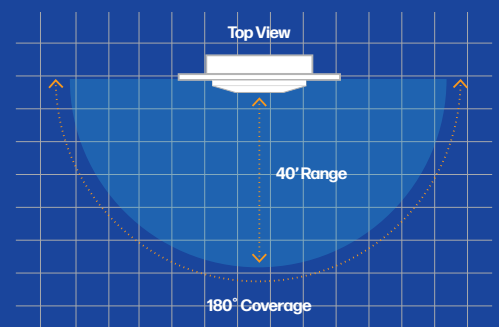
## DETECTION TECHNOLOGY

### Active Shooter Intelligence

- **Acoustic Muzzle Blast Detection:** High decibel, impulsive sound microphones customized for fast response and recovery from acoustic overpressure with no applied gain (no voice audio captured or processed by the sensor)
- **Infrared Muzzle Flash Detection:** 10X enhanced sensitivity, high gain infrared sensors detect in a field-of-view range with no line of sight to the weapon required
- Full infrared flash detection over the entire detection range
- Detects low caliber (.22) handgun to high powered rifle/shotgun
- 99.9% accuracy and less than 1 false alert per 5 million hours of use

## Your Total Solution for Gunshot Detection and Response

SDS sensors can be installed in a hybrid PoE/Wireless configurations for ultimate infrastructure flexibility. All SDS sensors are compatible with SDS' extensive library of IP integrations with the security systems you've already invested in, as well as our patented handheld testing tool for annual maintenance.



# Sensor Specifications

Both the PoE and wireless sensors utilize our proven dual-mode acoustic and infrared technology and are built for ease of installation, flush or surface mount in walls or ceilings, and blending in like any standard switch plate. SDS' wireless sensor is powered by a long-life battery with a sub-1GHz communications channel and AES encryption for optimum sensor uptime and network security, and both sensors are truly plug-and-play, requiring no calibration during or after installation.



## Size, Weight, Temperature

Faceplate Size	PoE and Wireless: 4.6" Square (117 cm)
Depth from Faceplate	PoE: 1" (2.54 cm)   Wireless: 1" (2.54 cm)
Depth from Sensors	PoE: 1.5" (3.81cm)   Wireless : 1.5" (3.81 cm)
Weight	PoE: <0.5 lbs (<0.25 kg) Wireless: 0.4 lbs. (0.18 kg); Battery Pack: 0.4 lbs. (0.18 kg)
Temperature Rating	0°C to 45°C, Indoors Only

## Coverage

40 Feet Left/Right/Center (12 Meters)
Min. 2500 Square Feet (233 Sq. Meters) Feet
Field of View coverage, no line of sight required

## PoE Sensor

### Power & Communications

Standard Power Over Ethernet (PoE)
10/100 Ethernet
TLS 1.2
802.3af Compliant, Modes A and B
Low Power Class 2 Device (<1 Watts)

### Monitoring & Maintenance

Field Testing	Annual testing with SDS Tester Tool, performed by an SDS Authorized Dealer
Heartbeat Message	Every 15 Seconds
Built-In-Self-Test (BIST)	Internal Acoustic & IR Sources
Firmware Upgrades	
Tamper Alert Feature	

## Wireless Sensor

### Power & Communications

Battery	3.6V, 38Ah Primary Lithium Pack
Battery Life	One (1) Year
Optional External DC Input	9V to 48V
Network Topology	Star
Wireless Range	Maximum 300 Feet
Long Range, low power wireless (LoRa) router (independent network)	
915 MHz, Spread Spectrum	
AES Encryption	

### Maintenance & Configuration

Field Testing	Annual testing with SDS Tester Tool, performed by an SDS Authorized Dealer
Heartbeat Message	Every 10 Minutes (configurable)
Built-In-Self-Test (BIST)	Internal Acoustic & IR Sources
USB	Firmware Update, Log Download
WiFi	WiFi 802.11 b/g/n
Tamper Alert Feature	

### Mounting Options

Standard Dual Gang NEMA Plates or Boxes	Flush Mount: Wallboard or Ceiling Tile
Low-voltage Frame	Wall or Ceiling Mount
Surface Mount: Brick/Concrete Structures	Wall Mounting Height: 8-16 feet

### Testing

Tested against FCC & UL Standards by an OSHA Nationally Recognized Testing Laboratory (NRTL)	NTS & NPSA 3rd Party Functionality & Performance Testing Certified
Strong Security Rating by Third-party Penetration Testing Authority (Nettitude)	DHS SAFETY Act Certified

For more information contact

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