

SDS Perimeter Outdoor Gunshot Detection Sensor



Now extend your building's gunshot detection capabilities outside. SDS Perimeter uses the same dual-factor acoustic and infrared technologies found in the SDS Indoor Gunshot Detection System that result in a 99.9% detection accuracy rate. In addition, SDS Perimeter has been built from the ground up specifically for outdoor operations using first-of-its-kind gunshot detection technology and is IP rated to stand up to the elements. Earlier versions of the SDS Perimeter technology were rigorously tested in the field with excellent results by the US Department of Homeland Security.

Unlike other outdoor systems, SDS Perimeter is not a listening device—no audio leaves the sensor, and the microphones are tuned for high-decibel impulsive sounds. It can operate as a standalone or multiple outdoor sensor system and works seamlessly with SDS Indoor, giving your organization complete situational awareness during a gun violence event.

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:** High gain infrared sensors developed specifically for longer-range, outdoor IR detections with no line of sight to the weapon required
- **Active Shooter Intelligence:** Advanced machine learning techniques provide enhanced detection processing capabilities
- Alerts in less than 3 seconds
- Identifies firearm type: long-gun vs. handgun
- Detects low caliber handgun (e.g., 9-millimeter) to high powered long-gun. Sub and Supersonic detection capabilities
- Identifies firearm caliber and range
- Detection accuracy rate greater than 99%
- Privacy Protections: No voice level audio recording capabilities, no human verification required

SDS Perimeter: Product Specifications

SDS Perimeter is a PoE sensor utilizing our proven dual-mode acoustic and infrared technology and is built for ease of installation. SDS Perimeter is affixed to a wall utilizing a 24-inch mounting arm. SDS Perimeter is truly plug-and-play, requiring no calibration during or after installation.



Size	8.1" W x 7.1" H x 5.1" D (205 mm W x 181 mm H x 130 mm D)
Weight	2.1 lbs (0.95 kg)
Mounting Arm Length	24 inches (610 mm)
Mounting Arm Weight	1.55 lbs (0.70 kg)
Coverage	180°
Temperature Rating	-35°C to 45°C
Detection Range	100 Feet Left/Right/Center, 15,700 Square Feet Field of view coverage, no line of sight required Firearm caliber will determine minimum and maximum detection range values

Mounting Options

Mounting Height	12 to 16 Feet
Mounting Surfaces	Concrete, Brick, Wood

Testing

IP Rating	IP65
Compliance Testing	FCC Part 15 Class A CA Emissions Compliance: ICES-003 RoHS Compliant

Power and Communications

Standard Power over Ethernet (PoE), 10/100 Ethernet
802.3af Compliant, Modes A & B

Communications Protocol	TCP	Static IP Support	Yes
Security Protocol	TLS	Power Consumption	10 Watts
DHCP Support	Yes	Power Connector	RJ45

Monitoring & Maintenance

Recommended Testing	Annual	Sensor BIST	Internal IR and Acoustic Sources
Heartbeat Message	Every 15 Seconds	Tamper Alert	Accelerometer-based