



Brivo Wireless Indoor Vape Detection Sensor

Get real-time detection for vaping and more in Brivo Eagle Eye Video.

Brivo wireless indoor vape detection sensors trigger instant mobile alerts the moment vaping, smoking, or tampering is detected, giving security and safety teams the real-time intelligence needed for immediate intervention. Automated reports generate a timestamped audit trail for every detected event, providing the documented evidence essential for disciplinary actions, legal defense, and insurance reports. The sensors are designed for high-risk environments such as schools, public facilities, and commercial buildings.

Key Applications

- Detect vaping where cameras are prohibited.
- Identify vaping trends to develop deterrence strategies.
- Receive instant alerts when vaping is detected.
- Generate reports on-demand to document proof of vaping activity.
- Support physical and video surveillance metrics with data to prove vape activity.
- Get tamper alerts to respond immediately to potential vandalism.

Secure, Scalable, Cloud Architecture

The sensor uses ultra-low-energy Bluetooth (BLE5) to transmit data to the cloud via a highly secure gateway. The gateway can connect up to 200 wireless sensors, allowing facility managers to monitor all aspects of the facility with Brivo Eagle Eye Video. The system is scalable from a single-sensor, one-site application to multi-site enterprises with thousands of sensors.

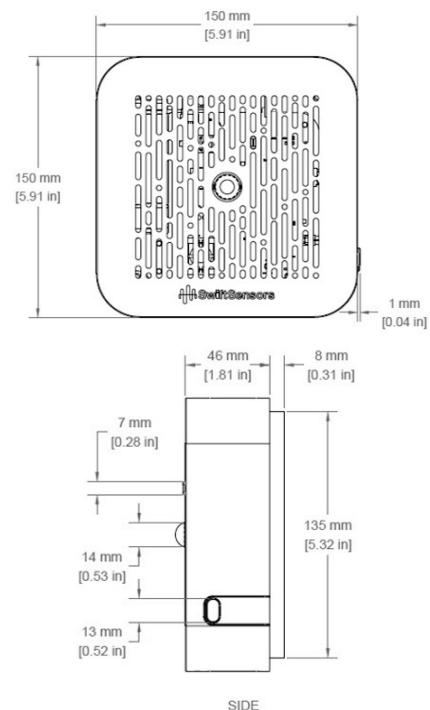
Real-Time Monitoring and Analytics with Configurable Thresholds

The Brivo Sensors Console enables real-time asset monitoring and analysis from any device. Its data analytics deliver deep operational insights, allowing you to set notifications using customizable thresholds and rules for individual sensors or groups. Sensor outputs feature a powerful threshold and alerting system. Standard defaults allow quick setup, or you can customize alerts via Brivo Eagle Eye Video to match specific facility conditions and reporting requirements.



Applications

- Schools
- Entertainment Venues
- Medical facilities
- Commercial offices
- Private businesses
- Healthcare facilities
- Public restrooms
- Libraries



OPERATIONAL SPECIFICATIONS	
Power Options	
1. DC Voltage	12-24VDC
2. POE	802.3af/at/PoE+ (passive PoE also supported at 40-56VDC)
3. USB-C Power Adapter	5VDC (110-230VAC Wall adapter included)
Backup Battery	2 Hours of uninterrupted operation
Operating Voltage	5VDC, 3.3VDC from various input sources
Avg. Power Consumption	0.5W (steady state), 0.9W (first two hours of operation)
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Storage Temperature	-10°C to +50°C (14°F to 122°F)
Operating Environment	Indoor use, 10-90% RH
Communication Protocol	BLE/BT5 2.4Ghz
Wireless Sensor Range	300m (Line-of-Sight), 100m (Non-Line-of-Sight)
Encryption	128-Bit AES Encryption
LED Indicators	1. Ethernet Port Solid Yellow, Solid Green (Power) 2. At Startup, Internal Green Flash Succession will initiate, 3s long
Find My Sensor	Command from Console to blink sensor LED
Weight	180g (7oz)
Sensor Dimensions	150mmL x 150mmH x 54mmD (Including Mounting Pegs + Plate) 5.9L x 5.9H x 2.1D
Mounting Plate Dimensions	135mm Radius, 10mm Thickness
Enclosure Material	ABS PA-765+
Certifications	FCC ID: X8WBT840X IC ID: 4100A-BT840X
EMC Compliance	FCC Part 15 Class B
Warranty	3-years

VAPE MEASUREMENT SPECIFICATIONS	
Mass Specified Range	0 - 1000 µg/m ³
Mass Size Range	0.3 to 2.5µm
Precision: 0-100 µg/m ³	±5 µg/m ³ and 5% m.v
Precision: 0-1000 µg/m ³	±10% m.v

TAMPERING MEASUREMENT SPECIFICATIONS	
Full Scale	± 2g
Sensitivity	0.976 mg/digit
Resolution	12-bit resolution
Mode	Low Noise

PART NUMBERS	
Brivo Wireless Indoor Vape Detection Sensor	EN-SS3-902
Brivo Standard Sensor Subscription (Monthly)	EN-M50-1
Brivo Standard Sensor Subscription (Yearly)	EN-M50-12

Brivo Sensors Gateway

The Brivo Sensors Gateway collects encrypted data from sensors within the specified communication range (100–300m) and transmits it to the cloud via Ethernet or Wi-Fi. The gateway auto-detects all sensors within range and will immediately establish secure communication without any user configuration or setup. Each gateway can support up to 200 sensors.

Brivo Sensors Console

All sensor data is automatically logged and stored in the cloud. The Sensors Console is configured to monitor and track all sensor data in the cloud. Multiple thresholds and alerts can be set separately for each sensor. An API allows integration with other data sources and third-party data analytics tools.

Vape Presence

Vape Presence returns a Yes or No reading, indicating the presence of vaping or similar smoking activity within the sensor's measurement range. The Vape Sensor detects ultra-fine liquid droplets including propylene glycol, glycerin, and nicotine across a precise 0.3 to 2.5 micrometer (µm) size range, delivering real time updates and exceptional ±5µg/m³ accuracy.

Tampering Count

The Tampering Count is derived by the number of times the sensor exceeds a determined threshold to detect forceful disturbance to the device. The count is a relative indicator of tamper activity — higher values indicate more frequent or sustained threshold crossings. A value of 1 indicates a short event such as a light tap. When the device is stationary and properly installed, the accelerometer reads a stable, known gravitational vector (1g downward). Any physical disturbance (picking it up, tilting it, striking it) changes that vector, triggering an alert.



Contact us at brivo.com or call us at 866.692.7486 to learn more.