

VAPE DETECTION

by ROEING



#NoVaping

Roeing has developed a turnkey solution for vaping detection using IoT technologies and AI sensors. This bundle is designed for customers who want to monitor for prohibited vaping activity, and it's particularly well-suited for use in education facilities. This solution delivers:

- Converged IoT support that enables vaping and sound anomaly detection
- Customizable dashboard with real-time sensor data, accessible via smartphone app or computer
- Limited-time special pricing

VAPE AND SOUND ANOMALY DETECTION FOR K-12

How does vaping detection work?

The unit has an internal sensor to detect when a typical vaping chemical fingerprint is occurring in a specific location. When detection occurs, a real-time silent message (email and/or text) is sent to one or more subscribers – i.e., a superintendent, principal, security or designated on-duty official.

What is the typical coverage area for vaping?

Typically, each detector will cover a 12' x 12' area.

What about ceiling height?

The detector is designed for a typical ceiling height of 8'. Generally, as the ceiling height increases, the effectiveness of the detector will decrease.

What are the factors impacting vaping detection?

Room layout, ventilation, airflow, and location of the detector are key factors. Detection is going to be degraded when vaping is done close to open windows or active ventilation such as exhaust fans. An HVAC system could impact the ability to detect vape properly. Also, if the vaper is aware of the detector, some individuals may use countermeasures to avoid system detection – such as exhaling vape inside a jacket or coat.

Can the detector identify other airborne chemicals?

Yes, the detector can also identify (and alert) for the chemical signatures of nicotine and THC.

Is there any maintenance required for the sensor?

It is suggested the sensor be treated with a short burst of compressed air a couple of times per year to remove small dust and debris particles from the sensor surface.

What if the detector is covered by a bag, hand, etc.?

The detector has a proximity to alert someone if there is an attempt to cover the device.

What occurs when a vaping or elevated sound alert is triggered?

When a sensor detects sound decibel level anomalies or chemicals from vaping, it sends an immediate, location-specific notification to the devices of designated school officials.

Does the detection unit incorporate a camera or microphone?

No, it does not. This allows the detector to be effectively deployed in problematic areas such as bathrooms and locker rooms, where privacy precludes the use of cameras and microphones.

Can the software be configured to disable alerts for specific times of day?

Yes. With the custom scheduling feature, administrators can select specific days and time blocks for subscribers to receive alerts. The system default for subscribers is currently Monday-Friday from 7:00am-4:00pm for all registered devices.

Can the detection performance be improved if there are false positives?

Yes, by classifying each alert - via the portal or mobile app - as a confirmed detection, unconfirmed detection, or false positive, you can help your devices learn their environment and improve overall detection performance.