



# Capture Comprehensive Health & Safety Awareness for your School Environment with HALO Smart Sensor, our all-in-one Security and Health device.



HALO Smart Sensor is Patented.

**HALO** is a key component in the solution to providing a low-risk environment by monitoring Carbon Dioxide (CO<sub>2</sub>), Particulate concentrations, Humidity, Volatile Organic Compounds (VOC), and Nitrogen Dioxide (NO<sub>2</sub>) in the air. **HALO** delivers safe, healthy, and comfortable environments that keeps all personnel safe while, at the same time, saving money by efficiently running the HVAC system.

## Vape and THC Detection

Identify vaping or smoking in bathrooms and locker rooms.

## Air Quality Monitoring

Automate and ensure proper ventilation in each room with BACnet integration.

## Disease Prevention with Health Index

Prevent the spread of infectious disease, ensure rooms have been cleaned, and the air is properly filtered.

## Aggression Detection and Calls for Help

Students and staff can call for help using specific keywords. Get notified of fights and bullying in bathrooms and locker rooms.

## Vandalism and Trespassing Alerts

Receive notifications when lights or noises are detected after hours or in unauthorized areas.

## Gunshot Detection

Identify gunshots and locations with two-factor authentication. Third-party certified.

## Chemical and Gas Detection

Catch chemical spills and hazardous gases in science labs, mechanical and utility rooms, custodial closets, and maintenance areas.



### HEALTH

- Health Index • Air Quality Index
  - Carbon Monoxide
  - Carbon Dioxide • Humidity
  - Volatile Organic Compounds
  - Nitrogen Dioxide • Pressure
  - Temperature • Particulates



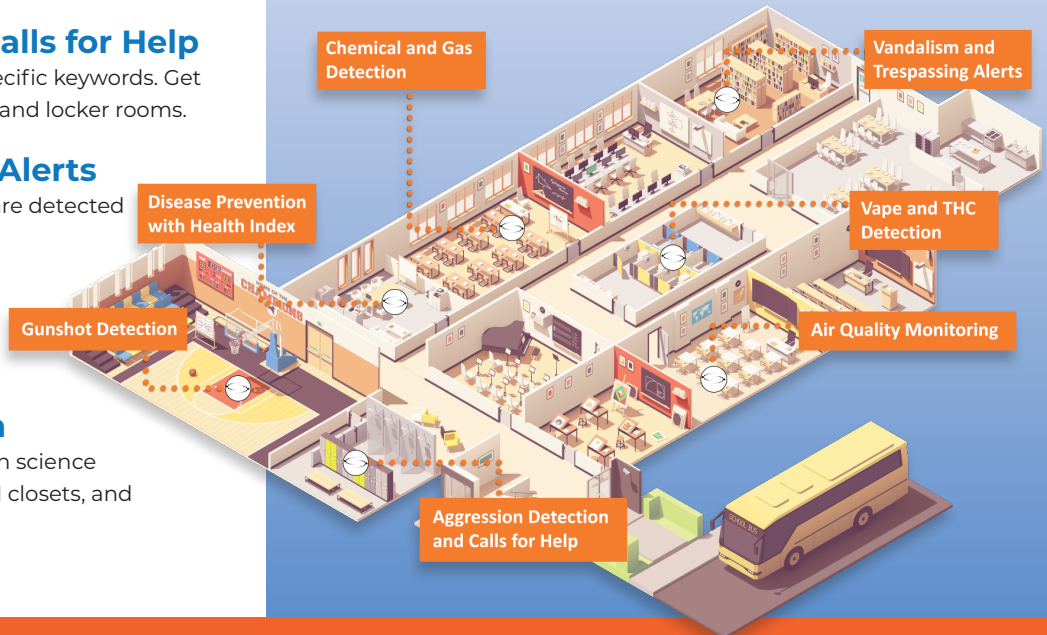
### SAFETY

- Spoken Key Word Alerting
  - Gunshot Detection
  - Abnormal Noise Level Detection • Bullying • Tamper
  - Aggression • Excessive Banging • Light Sensitivity

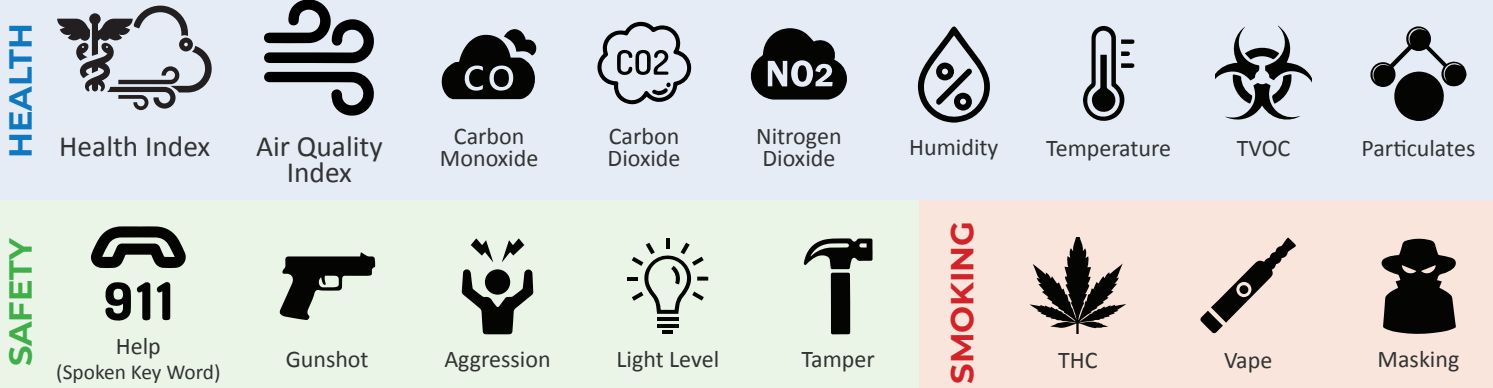


### SMOKING

- Vape • THC • Vape Masking



## Key Features



## General Specifications

Operating Temperature	32°F - 122°F (0°C - 50°C)
Operating Humidity	0 to 90% Relative Humidity (non-condensing)
Power Supply	PoE (IEEE 802.3af Class 3 Compliance) 9W
Dimensions	5.75" x 3.08" (146mm x 78mm)
Weight	0.8 lbs (0.365 kgs)
Mounting Options	Ceiling Flush Mount, Surface Mount (optional)
Vandal	IK10 rated, vandal proof housing with Tamper Alert
Certifications	UL, CUL, CE, RoHS, FCC, WEEE, California IoT Security 1798.91.04, C-Tick and CRM Compliant

## Network Specifications

Ethernet	RJ-45 (10/100 Base-T)
Alarm Triggers	Air Quality Index (AQI), Health Index, Vape, Vape THC, Aggression, Gunshot, Spoken Key Word, Tamper, Particulates, Carbon Dioxide Equivalents, Total Volatile Organic Compounds, Carbon Monoxide, Ammonia, Temperature/Humidity, Light Level, Sound Levels, Building Health
Protocols	BACnet, RTSP, TCP/IP, UDP, IPV4/V6, HTTP, HTTPS, DHCP, ARP, Bonjour, Wireless Connectivity
Maximum User Connections	Live MJPEG Stream, 8 Users

## Interface Specifications

*\*Image display of sensor readings only.*

Live Display Resolution*	1024 x 768
Frame Rate*	1 FPS
Audio	MEMS Microphones (2) [Audio Analysis Only] No Recording of Live Stream
Relays Outputs	2, Normally Open or Closed, 48VDC at 1 amp
Status Light	Alarm Condition, Multi-Color, Programmable
Speaker	Alarm Condition, Pre-Recorded Files, Programmable WAV Files

**Connect to HALO Cloud to manage multiple devices, receive real-time Health Index and AQI alerts and reporting, see alerts and historical data to document your buildings health status and trouble areas.**



**VMS Integrations:** Milestone, Genetec, Avigilon, ExacQ Vision, Rhombus Systems, Arcules, Vivotek, Pelco, Ganz Control, Nx Witness, Qognify, DW Spectrum IPVMS, Mirasys, Video Insight, EoCortex, Wisenet Wave VMS, Axxonsoft, Digifort, and many others!

**Supported Languages:** English, Foreign Languages Supported

**Other 3rd Party Integrations:** The Boring Lab, Presence Management, IDentifyED, Vigilance Software, Punch Alert, DIR-S, Extreme Network Defender, Aruba HPE, Connect One, AMT, Audio Enhancement, Gallagher, NuLEDs, Singlewire Informacast and many others!

**Emergency Key Words:** HALO supports multiple key words



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