

HALO Smart Sensor

Health, Safety, and Vape Detection



OUR STRATEGIC PRODUCT PLACEMENT AND SYSTEMS INTEGRATION MAXIMIZE THE HALO CAPABILITIES TO DELIVER RELIABLE 24/7 MONITORING

CM3 Building Solutions has been installing the award-winning HALO Smart Sensor since its introduction to the market several years ago.

We excel at strategic product placement to minimize footprint impact and reduce breakage probability and at systems integration to ensure connectivity with other communication and safety solutions, such as video surveillance and intrusion detection.

This ground-breaking multi-sensor is capable of vape detection, smoke detection, THC detection, and sound abnormalities.

HALO SENSOR

COMPREHENSIVE HEALTH & SAFETY
AWARENESS FOR YOUR BUILDING IN
ONE DEVICE.



HALO is a key component in providing a healthy and safe environment in your facility. By monitoring harmful elements in the air and detecting sound abnormalities, **HALO** helps keep all personnel safe while saving money by efficiently running the HVAC system.

HEALTH SENSORS



Disease Prevention

Ensure your staff is safe from airborne diseases, prevent the spread of infectious disease, ensure rooms have been cleaned, and the air is properly filtered.



Air Quality Monitoring

See the average quality of the air you are breathing over the course of a few hours. Automate and ensure proper ventilation in each room with BACnet integration.



Chemical and Gas Detection

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

SAFETY SENSORS



Gunshot Detection

Add an extra layer of protection with HALO. Identify gunshots and the location with two-factor authentication. This sensor is 3rd party certified.



Aggression Detection

Protect your staff and customers. With HALO you are able to detect fights and loud noises in usually quiet areas.

VAPE SENSORS



Vape and Marijuana (THC) Detection

Identify vaping and THC usage in privacy areas such as offices, bathrooms, break rooms, and common areas.

CUSTOM



Vandalism & Trespassing Alerts

Receive notifications when lights or noise is detected in unauthorized areas and after hours.



Managed HVAC Energy Costs

Monitor HVAC effectiveness and only use when rooms are occupied.

Real-time Customizable Alerts

HALO provides a real-time Air Quality and Health Index that sends alerts when either index falls into danger zones. Customize who is notified during different events and how to receive your notifications - via 3rd party integrations, SMS and/or email, or IO Trigger.

Multiple Sensors

Our device has over 12 unique detection sensors that work in conjunction to detect a multitude of measurements with unlimited customization. It's the only Vape Detector that detects THC oil.





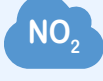












Designed For Air Flow

Built with airflow in mind! The unit's design allows the sensors to pick up harmful chemicals faster.

Less False Alarms

With multiple sensors and advanced analytics, settings are adjusted and maximized for the environment of the room. As a result, it removes false alarms that singular sensors get from body and disinfectant sprays.

KEY FEATURES

Health										
	Health Index	Air Quality Index	Carbon Monoxide	Carbon Dioxide	Nitrogen Dioxide	Relative Humidity	Temperature	TVOC	Particulates	
	Safety						Vape			
		911 Help (Spoken Keyword)	Gunshot	Aggression	Light Level	Tamper		THC	Vape	Vape Masking

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	L, 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

Network Specifications

Live Display Resolution	1024x768
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

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, iIdentifyED, 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

HALO CLOUD

MANAGE MULTIPLE SENSORS FROM A SINGLE PLATFORM.

HALO Cloud provides actionable intelligence by taking insight and awareness to new levels. Receive peace of mind by easily managing multiple devices, receive real-time Health Index and AQI alerts and reporting, and see alerts and historical data, allowing you to document your buildings' health status and trouble areas.



DEVICE	DATE	TIME
LAB_03-D3 HUMIDITY	8/5/2021	11:55:42 AM
TEST2 HUMIDITY	8/5/2021	11:55:00 AM
LAB_03-D3 HUMIDITY	8/5/2021	11:54:56 AM
TEST2 HUMIDITY	8/5/2021	11:54:29 AM

DEVICE	AQI	PM2.5	NO2	TVOC
Halo 152	38	2ppm	40ppb	128ppb
Halo_2.5_Protos5	11	0ppm	14ppb	1233ppb
Halo_2.5_Protos9	11	0ppm	12ppb	119ppb
LAB_02-D3	9	0ppm	11ppb	77ppb

Dashboard

View multiple HALOs displaying all events, current and historical, citing the type, time, and location of the event. Helps empower staff to provide an effective response to many monitoring points.

Live View Map

Visual sensor readings and alarm conditions on an interactive map providing faster resource allocation and a shorter training curve.

Analytics

View multiple graphed sensor readings and events over time periods gaining insight into Security Threats and Air Quality trends. Improve resource efficiency.

Health

Monitor HALO's connection status reducing downtime and lowering risk.

Logging

Log sensor readings automatically with capacity of 1 year of historical data. Satisfying compliance: FDA, CDC, local health department, board or customer requirements.

Reports

Generate historical text and graphical data log reports to create tangible documentation that identify security and air quality trends.

Maintenance

Configuration & Firmware Update Automation and Management. Increased HALO management and setup efficiency.

Secure

No back door to AWS. 3rd party penetration audit.