



HALO Smart Sensor is Multi-Patented and Design is Trademarked

# HALO Smart Sensor 2C

our all-in-one health, safety & vape device.

**HALO** is a key component in the solution to providing a low-risk environment by monitoring Carbon Dioxide (CO2), Particulate Concentrations, Humidity, Volatile Organic Compounds (VOC), and Nitrogen Dioxide (NO2) 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.



### 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.



### CARBON DIOXIDE

Utilizes Carbon Dioxide calibrated sensor that is very specific and much more accurate when it comes to the CO2 level readings.



### 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.



### CUSTOM: VANDALISM & TRESPASSING ALERTS

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



### 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.



### TEMPERATURE AND HUMIDITY

The Temperature and Humidity sensors are located on the outside very edge of the device, allowing more accurate readings of the temperature and humidity outside of the unit.



### AGGRESSION DETECTION

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



### CUSTOM: MANAGE HVAC ENERGY COSTS

Monitor HVAC effectiveness and only use when rooms are occupied.

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.



## Key Features

### HEALTH



Health Index



Air Quality Index



Carbon Monoxide



Carbon Dioxide



Nitrogen Dioxide



Relative Humidity



Temperature



TVOC



Particulates

### SAFETY



Help  
(Spoken Keyword)



Gunshot



Aggression



Light Level



Tamper

### VAPE



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	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

**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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