



## HALO Smart Sensor

our all-in-one health, safety and 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.

*HALO Smart Sensor is Multi-Patented and Design is Trademarked*



### GUNSHOT DETECTION<sup>4</sup>

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.



### HELP (SPOKEN KEY WORD)

Staff and customers can call for help using specific keywords. Whenever the keyword is said aloud, HALO will send notifications to those who have been designated to receive these alerts.



### AIR QUALITY MONITORING

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



### VAPE AND MARIJUANA (THC) DETECTION

Identify vaping in privacy areas such as bathrooms, break rooms, and the sales floor.



### PREVENT SPREAD OF INFECTIOUS DISEASE

Ensure rooms have been cleaned and that air is properly filtered.



### MOTION DETECTION

Receive trespassing alerts when movement is detected in unauthorized areas and after hours.



### CUSTOM SENSOR OPTIONS

Need customized calibrated industrial sensors? HALO 3C has options for Ozone, Sulfur Dioxide, Hydrogen Sulfide, Nitrogen Dioxide, and more!

## Key Features

<b>HEALTH</b>												
	Health Index	Air Quality Index	Carbon Monoxide	Carbon Dioxide	Nitrogen Dioxide	Relative Humidity	Temperature	TVOC	Particulates	Chemicals		
	<b>SAFETY</b>											
		Help (Spoken Keyword)	Emergency Escape & Alert Lighting <sup>1</sup>	Panic Button <sup>2</sup>	Occupancy (People Counter) <sup>3</sup>	Gunshot <sup>4</sup>	Aggression	Motion	Tamper			
		<b>VAPE</b>										
			THC	Vape	Vape Masking							

**Easier Installation with 3C with Surface Mount Installation and Power TWO Units Using One Cable Run\***

**"HALO, how healthy is this room?"**



## Download the HALO Cloud App to receive push notifications!

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.



### HALO 3C - General Specifications

<b>Operating Temperature</b>	32°F - 122°F (0°C - 50°C)
<b>Operating Humidity</b>	0 to 90% Relative Humidity (non-condensing)
<b>Power Supply<sup>5</sup></b>	Single HALO 3C, PoE (IEEE 802.3af Class 3 Compliance) 11W. HALO 3C with additional tethered HALO 3C, PoE (IEEE 802.3at Class 3 Compliance) 22W
<b>Dimensions</b>	5.5" x 2.0" (140mm x 51mm)
<b>Weight</b>	0.8 lbs (0.365 kgs)
<b>Mounting Options</b>	Surface Mount, Pole Mount (optional), Conduit Adapter (optional)
<b>Vandal</b>	IK8 rated, vandal proof housing with Tamper Alert
<b>Certifications</b>	UL, CUL, CE, RoHS, FCC, WEEE, NRCS, ACMA, RCA, UKCA, VCCI

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

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

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

**Emergency Keywords:** HALO supports multiple keywords



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

### HALO 3C - Network Specifications

<b>Ethernet In</b>	RJ-45 (10/100 Base-T)
<b>Ethernet Out</b>	RJ-45 (10/100 Base-T) IEEE 802.3af Class Compliance
<b>Protocols</b>	BACnet, RTSP, TCP/IP, IPV4/V6, HTTP, HTTPS, DHCP, ARP, Bonjour
<b>Wireless</b>	2.4 GHZ IEEE 802.11 b/g/n/ac Wireless
<b>Bluetooth</b>	Bluetooth 5.0, BLE

### HALO 3C - Interface Specifications

<b>Live Display Resolution<sup>6</sup></b>	1024 x 768, IFPS, Live MJPEG or H264, 8 Users maximum
<b>Audio</b>	MEMS Microphones (2) [Audio Analysis Only] No Recording of Live Stream
<b>Alarm Triggers</b>	Air Quality Index (AQI), Health Index, Vape, Vape THC, Aggression, Gunshot, Spoken Keyword, Tamper, Particulates, Carbon Dioxide Calibrated, Total Volatile Organic Compounds, Carbon Monoxide, Temperature/Humidity, Light Level, Sound Levels, Building Health, Motion Detection, Occupancy (People Counter), Panic Button
<b>Relay Output</b>	1, Normally Closed, 48VDC at 1 amp
<b>Input</b>	1, Isolated, 12 VDC / 24 VAC
<b>RS-485</b>	1, Integrates wired industrial sensors
<b>External Device Power Output</b>	5VDC out at: 300mA
<b>Status Light</b>	Alarm Condition, Multi-Color, Programmable
<b>Speaker</b>	Alarm Condition, Pre-Recorded Files, Programmable WAV Files

1. Available with HALO Cloud only  
 2. Add-on option only available to HALO Cloud customers  
 3. Available in the HALO 3C-PC model only  
 4. Advanced analytics available with HALO Cloud  
 5. Requires a PoE+ (IEEE 802.3at Class 3 Compliance) port  
 6. Live display refresh rate depends on network bandwidth