

# 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*



**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.



**VAPE AND MARIJUANA (THC) DETECTION**  
Identify vaping and THC usage in privacy areas such as offices, bathrooms, break rooms, and common areas.



**CHEMICAL AND GAS DETECTION**  
Catch chemical spills and hazardous gases in mechanical or utility rooms, custodial closets, and maintenance areas.



**PANIC BUTTON<sup>2</sup>**  
Users can trigger alerts via an external 3rd party panic button or via the HALO cloud app. The location of the trigger is associated to the HALO device in closest proximity.



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



**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



**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

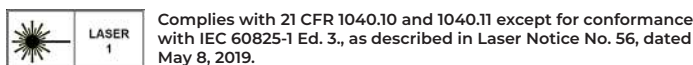
<b>Operating Temperature</b>	32°F - 122°F (0°C - 50°C)
<b>Operating Humidity</b>	0 to 90% Relative Humidity (non-condensing)
<b>Power Supply<sup>5</sup></b>	Single HALO 3C, PoE (IEEE 802.3af Class 3 Compliance) 11W. HALO 3C with additional tethered HALO 3C, PoE (IEEE 802.3at Class 3 Compliance) 22W
<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 Control, Nx Witness, Qognify, DW Spectrum IPVMS, Mirasys, Video Insight, EoCortex, Wisenet Wave VMS, Axonsoft, Digifort, and many others!

**Other 3rd Party Integrations:** Reflow+ Metasys and OpenBlue, The Boring Lab, Presence Management, IDentifyED, 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



### 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. Image display of sensor readings only