![HALO SMART SENSOR logo]

Air Quality Monitoring

Gunshot Detection

Manage HVAC Energy Costs

People Counting

Calls for Help and Aggression Detection

Chemical and Gas Detection

Emergency Escape Lighting

Vandalism and Trespassing Alerts

Vape and THC Detection

HALO Smart Sensor is Multi-Patented and Design is Trademarked

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 (CO_2), Particulate Concentrations, Humidity, Volatile Organic Compounds (VOC), and Nitrogen Dioxide (NO_2) 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 MARIJUANA (THC) DETECTION
The vape epidemic has been skyrocketing among students in recent years. HALO can identify vaping in privacy areas such as bathrooms, locker rooms, dorm rooms, and faculty rooms.

AIR QUALITY MONITORING
With poor air quality, a student's learning environment is compromised, leading to inattentiveness and lost productivity. Automate and ensure proper ventilation in each room with BACnet integration.

GUNSHOT DETECTION
School shootings are happening more often than you think. By placing HALO throughout your school, you can identify gunshots and the location with two-factor authentication. 3rd party certified.

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

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

PREVENT SPREAD OF DISEASE
Some infectious diseases are often spread through the air with high CO_2 levels. Ensure rooms have been cleaned and that air is properly filtered.

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

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

Key Features

HEALTH

Health Index | Air Quality Index | Carbon Monoxide | Carbon Dioxide | Nitrogen Dioxide | Relative Humidity | Temperature | TVOC | Particulates | Chemicals

SAFETY

Help (Spoken Keyword) | Panic Button | Aggression | Gunshot | Motion | Occupancy (People Counter) | Emergency Escape & Alert Lighting | Tamper

VAPE

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

Operating Temperature	32°F - 122°F (0°C - 50°C)
Operating Humidity	0 to 90% Relative Humidity (non-condensing)
Power Supply	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*
Dimensions	5.5" x 2.0" (140mm x 51mm)
Weight	0.8 lbs (0.365 kgs)
Mounting Options	Surface Mount, Pole Mount (optional), Conduit Adapter (optional)
Vandal	IK8 rated, vandal proof housing with Tamper Alert
Certifications	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, Axxonsoft, 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

LASER 1 — 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

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

HALO 3C - Interface Specifications   *Image display of sensor readings only.

Live Display Resolution*	1024 x 768, IFPS, Live MJPEG or H264, 8 Users maximum
Audio	MEMS Microphones (2) [Audio Analysis Only] No Recording of Live Stream
Alarm Triggers	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
Relay Output	1, Normally Closed, 48VDC at 1 amp
Input	1, Isolated, 12 VDC / 24 VAC
RS-485	1, Integrates wired industrial sensors
External Device Power Output	5VDC out at 300mA
Status Light	Alarm Condition, Multi-Color, Programmable
Speaker	Alarm Condition, Pre-Recorded Files, Programmable WAV Files