



REMOTE TECHS

K12 EDUCATION



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



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.



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.



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.



PREVENT SPREAD OF DISEASE

Some infectious diseases are often spread through the air with high CO₂, NO₂ & particulate levels. Ensure rooms have been cleaned and that air is properly filtered.



GUNSHOT DETECTION⁴

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.



CHEMICAL AND GAS DETECTION

Catch chemical spills and hazardous gases in science labs, mechanical or utility rooms, custodial closets, and maintenance 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!



REMOTE TECHS

www.remotetechs.com

info@remotetechs.com

626-765-3803

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

Operating Temperature	32°F - 122°F (0°C - 50°C)
Operating Humidity	0 to 90% Relative Humidity (non-condensing)
Power Supply⁵	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 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



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

Live Display Resolution⁶	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

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