



HALO Smart Sensor

Smoke Detection, Health & Safety Monitoring for Public Housing

One of the most significant recent developments in public housing has been the implementation of HUD's Smoke-Free Legislation to improve resident health, mitigate fire risk and reduce the costs of renovation and insurance. The **HALO Smart Sensor** and **HALO Cloud** interface help building managers manage non-compliance and reap the associated benefits, by detecting smoking and vaping as soon as they occur. It also contributes to residents' quality of life by alerting managers to a wide range of other environmental pollutants and risk factors.



HALO Smart Sensor is Multi-Patented and Design is Trademarked



SMOKING AND VAPING

Smoking is prohibited in all public housing at a federal level. Vaping is also banned in many municipalities and properties. HALO can alert property owners and managers when these are detected.



TEMPERATURE

HALO monitors room temperature to ensure it is within regulatory limits and can be programmed to send an alert when units or common areas are too warm or cold.



LIGHT LEVELS

HALO can be configured to trigger an alert when lights are turned on at night in spaces that are meant to be unoccupied.



NOISE DISTURBANCES

HALO's audio algorithms can be programmed to alert property managers to excessive music, large gatherings, fights, vandalism and calls for help.



VANDALISM & TRESPASSING ALERTS

HALO can be configured to send notifications when lights or noise is detected in unauthorized areas and after hours.



AIR QUALITY INDEX (PARTICULATES & CONTAMINANTS)

According to the EPA, Air Quality can have a significant impact on heart and lung health, particularly in the elderly. HALO enables staff and residents to monitor Air Quality at a unit level.



HUMIDITY

HALO can alert property managers when relative humidity is below 40% or above 60%. This improves resident health by preventing allergies from mold and mildew and minimizing the risk of disease transmission.



SOUND

HALO can be configured to trigger alerts when indoor sound levels exceed HUD's recommend limit of 45dB.



PANIC BUTTON SUPPORT

HALO's panic button integration alerts management and security staff to incidents via the HALO Cloud dashboard, mobile app and email.



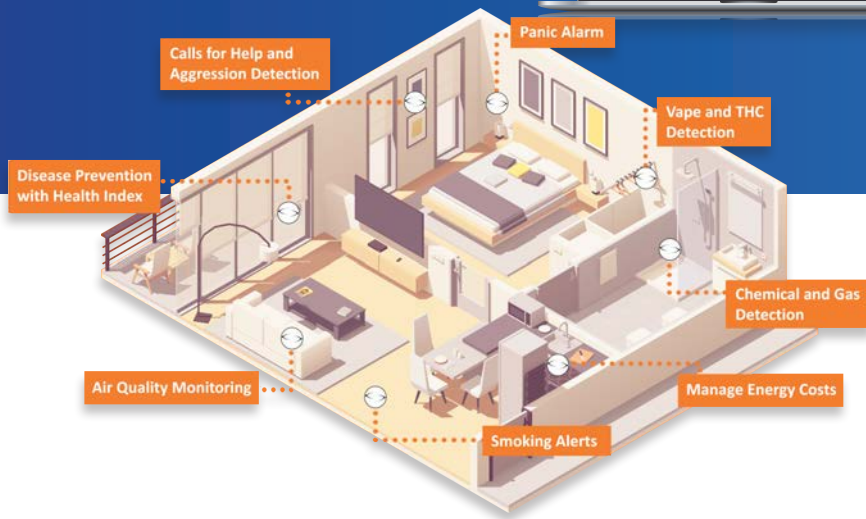
MANAGE HVAC ENERGY COSTS

HALO can help property managers minimize HVAC system use when units are unoccupied.



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.



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

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 Control, 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, 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

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



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.

