The new award-winning features of the HALO IOT Smart Sensor include air quality monitoring, BACnet integration and cleaning chemical signature verification. The multi-sensor is now a vape and THC detector, gunshot detector, security device for privacy areas, chemical detector, air quality monitor and a smart building guide in a single device.

Poor indoor air quality and air filtering is of great concern with the return to work and school. HALO will now monitor and send alerts based on Indoor Air Quality (IAQ) measurements and will report the Air Quality Index (AQI), based on the EPA’s regulated standards, for the indoor environment. It will identify if the environment is in the danger zone for the spread of disease at the location of each sensor.

The integration with BACnet allows communication to building automation and control systems for applications such as heating, ventilating, and air-conditioning control (HVAC), lighting control, access control, and fire detection systems and their associated equipment. HALO alerts and sensor readings now communicate to these varied control systems to address and make improvements in response to the alerts received.

In addition to standard chemical detection, an additional health and safety measure in HALO is the recognition of cleaning chemical signatures. Now you can monitor, record, and have validation of when specific locations have been sanitized to ensure safety.

Audio Analytics
• Spoken Key Word Alerting
• Abnormal Noise Level Detection
• Gunshot Detection
• Shouting
• Excessive Banging
• Occupancy
• Bullying

Air Quality
• Vape
• THC
• Smoke
• Formaldehyde
• Benzene
• Air Quality Index (AQI)
• Volatile Organic Compounds (VOCs)

Environmental
• Temperature
• Humidity
• Tamper
• Pressure
• Occupancy
• Light Sensitivity

Chemical
• Ammonia
• Carbon Monoxide
• Carbon Dioxide
• Nitrogen Dioxide

Alerting
• Email or SMS text alerts
• Alerts to Video Management & Access Control
• 3rd party emergency applications
• Low voltage relay outputs
• Cloud mapping alerts

*HALO IOT Smart Sensor - Patent Pending*
HALO IOT Smart Sensor contains a Class 1 Laser Product.

**General Specifications**
- Operating Temperature: 32°F - 122°F (0°C - 50°C)
- Operating Humidity: 0 to 90% Relative Humidity (non-condensing)
- Power Supply: PoE (IEEE 802.3af Class 3 Compliance) 9W
- Dimensions: 5.75" x 3.08" (146mm x 78mm)
- Weight: 0.8 lbs (0.365 kgs)
- Mounting Options: Ceiling Flush Mount, Surface Mount (optional)
- Vandal: IK10 rated, vandal proof housing with Tamper Alert
- Certifications: UL, CUL, CE, RoHS, FCC, WEEE, California IoT Security 1798.91.04

**Interface Specifications**
- Live Display Resolution*: 1024 x 768
- Frame Rate*: 1 FPS
- Video Compression*: MJPEG
- Audio: MEMS Microphones (2) [Audio Analysis Only] No Recording of Live Stream
- Relays Outputs: 2, Normally Open or Closed, 48VDC at 1 amp
- VMS Integrations: Milestone, Genetec, Avigilon, ExacqVision, Vivotek, Pelco, Ganz Control, Nx Witness, Qognify, DW Spectrum IP, VMS, Mirasys, VideoInsight, ExCortex, Wisenet Wave VMS, Axxonsoft, Digifort
- Status Light: Alarm Condition, Multi-Color, Programmable
- Speaker: Alarm Condition, Pre-Recorded Files, Programmable

**Network Specifications**
- Ethernet: RI-45 (10/100 Base-T)
- Alarm Triggers: Vape, Vape THC, Aggression, Air Quality Index (AQI) Gunshot, Spoken Key Word, Tamper, Particulates, Carbon Dioxide Equivalents, Total Volatile Organic Compounds, Carbon Monoxide, Ammonia, Temperature/Humidity, Light Level, Sound Levels
- Protocols: BACnet, RTSP, TCP/IP, UDP, IPv4/IPv6, HTTP, HTTPS, DHCP, ARP, Bonjour, Wireless Connectivity
- Maximum Users Connections: Live MJPEG Stream, 8 Users

**Image display of sensor readings only.**

**All information is subject to change without notice.**