Intelligent Multi-Function Sensors

Originally developed to address the urgent concerns of vaping and school shootings in educational institutions, the HALO IOT Smart Sensor has rapidly expanded its reach into various industries. This intelligent device is designed to detect environmental changes occurring in areas where privacy is a concern. Acting as a networked device, it promptly notifies security personnel by sending alerts.

HALO Smart Sensors provide a comprehensive solution by alerting designated personnel when environmental changes occur in typically unsupervised areas. It possesses the capability to detect various factors such as flammables, hazardous chemicals, alterations in air quality resulting from vaping or smoking, as well as fluctuations in temperature and humidity. Additionally, the HALO sensor is equipped to identify changes in noise levels, promptly notifying authorities in case of unusual activity. Its functionality extends further to analyzing room occupancy through light detection, while also incorporating a built-in tamper detection alert.

By leveraging cutting-edge smart technology, HALO introduces an additional layer of security in areas that conventional surveillance cameras cannot cover. With HALO, security staff can now effectively monitor locations where camera installations are prohibited. These crucial alerts can be conveniently accessed by staff through the web or via traditional burglar, video management systems, access control, or building management tools.

Air Quality Monitoring

• Detection of vaping and smoking
• Detection of dangerous chemicals
• Temperature and humidity

Sound Monitoring

• Detection of aggressive behavior
• Detection of gunshots (optional)

Alerting

• Email or SMS text alerts
• Alerts to Video Mgmt & Access Control
• Low voltage relay outputs
• Vandalism and tampering alerts

Room Occupancy

• Light & Shadow Detection

Chemical Detection

• Whippets *(nitrous oxide)*
• Propanol and Hydrogen levels
• Ammonia
• Total volatile organic compounds *(glue solvents)*
• Carbon Dioxide
• Carbon Monoxide

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GENERAL SPECIFICATIONS

Operating Temperature	32·F - 122·F (o·c - 5o"C)
Operating Humidity	Oto 90% Relative Humidity (non-condensing)
Power Supply	PoE (IEEE 802.3af Class 3 Compliance) 4W
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	Vandal proof housing with Tamper Alert
Certifications	UL, CUL, CE, RoHS, FCC, WEEE, California IoT Security 1798.91.04, C-Tick and CRM Compliant

INTERFACE SPECIFICATIONS — *Image display of sensor readings only.*

Live Image 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
Status Light	Alarm Condition, Multi-Color, Programmable
Speaker	Alarm Condition, Pre-Recorded Files, Programmable WAV Files

NETWORK SPECIFICATIONS

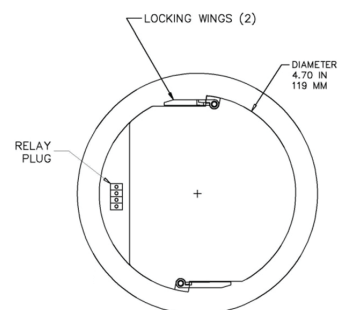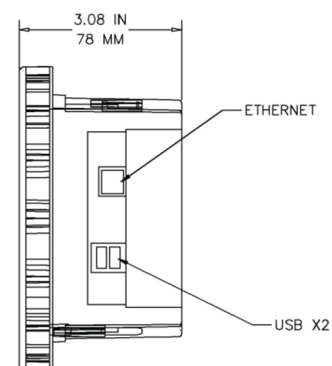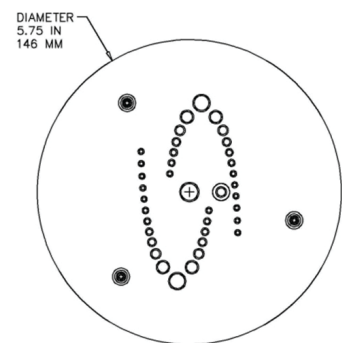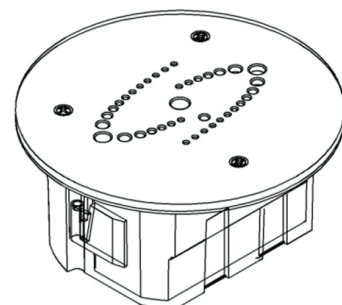|	
Ethernet	RJ-45 (10/100 Base-T)
Alarm Triggers	Air Quality Index (AQI), Health Index, Vape, Vape THC, Aggression, Gunshot, Spoken Key Word, Tamper, Particulates, Carbon Dioxide Equivalents, Total Volatile Organic Compounds, Carbon Monoxide, Ammonia, Temperature/Humidity, Light Level, Sound Levels, Building Health
Protocols	BACnet, RTSP, TCP/IP, UDP, IPV4/V6, HTTP, HTTPS, DHCP, ARP, Bonjour, Wireless Connectivity
Maximum User Connections	Live MJPEG Stream, 8 Users

VMS Integrations
Milestone, Genetec, Avigilon, ExacQ Vision, Rhombus Systems, Arcules, Vivotek, Pelco, Ganz Control, Nx Witness, Qognify, DW Spectrum IPVMS, Mrasys, Video Insight, EoCortex, Wisenet Wave VMS, Azzonsoft, Digifort, and others....

Other 3rd-Party Integrations
The Boring Lab, Presence Management, IDentifyED, Viligance Software, Punch Alert, DIR-S, Extreme Network Defender, Aruba HPE, Connect One, AMT, Audio Enhancement, Gallagher, NuLEDs, Singlewire Informacast, and others...

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We are the trusted advisor for the safe, secure, and efficient workplace. As your trusted advisor, we reduce the time and effort needed to research, install, and maintain the right solutions to make your workplace better. Our team of certified professionals across the nation deliver a full suite of reliable technologies with a service first approach. The MCA advantage is our extensive service portfolio to support the solution life-cycle from start to finish.

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