HALO SMART SENSOR

VAPE DETECTION
CHEMICAL DETECTION
AIR QUALITY MONITORING
SOUND DETECTION

Initially intended for schools to combat the vaping and school shooting epidemics, HALO IOT Smart Sensor has now expanded across industries. The HALO detects environmental changes that occur in privacy concern areas. As a device on the network, it will send alerts to security personnel.

With HALO, designated personnel will be alerted when environmental changes occur in typically unsupervised areas. HALO can detect flammables, hazardous chemicals, air quality changes such as vaping and smoking and changes in temperature and humidity. HALO can also detect noise level fluctuations and can send alerts when unusual activity occurs. HALO will also analyze room occupancy through light detection. HALO includes a built-in tamper detection alert.

Utilizing the latest in smart technology, HALO adds a layer of security in places not covered by traditional surveillance cameras.

With HALO, security staff can now monitor areas where cameras are not allowed. Staff can get these alerts through the web or traditional burglar, video management systems, access control or building management tools.

HALO IOT Smart Sensor - Patent Pending

Air Quality Monitoring
• Detection of vaping and smoking
• Detection of dangerous chemicals
• Temperature and humidity

Room Occupancy
• Light detection

Sound Frequency Monitoring
• Detection of aggressive behavior
• Detection of gunshots (optional)

Chemical Detection
• Whippets (Nitrous Oxide)
• Propanol and Hydrogen levels
• Ammonia
• Total volatile organic compounds (glue solvents)
• Carbon Dioxide
• Carbon Monoxide

Alerting
• Email or SMS text alerts
• Alerts to Video Management & Access Control
• Low voltage relay outputs

Other Features
• Flush mounting to ceilings
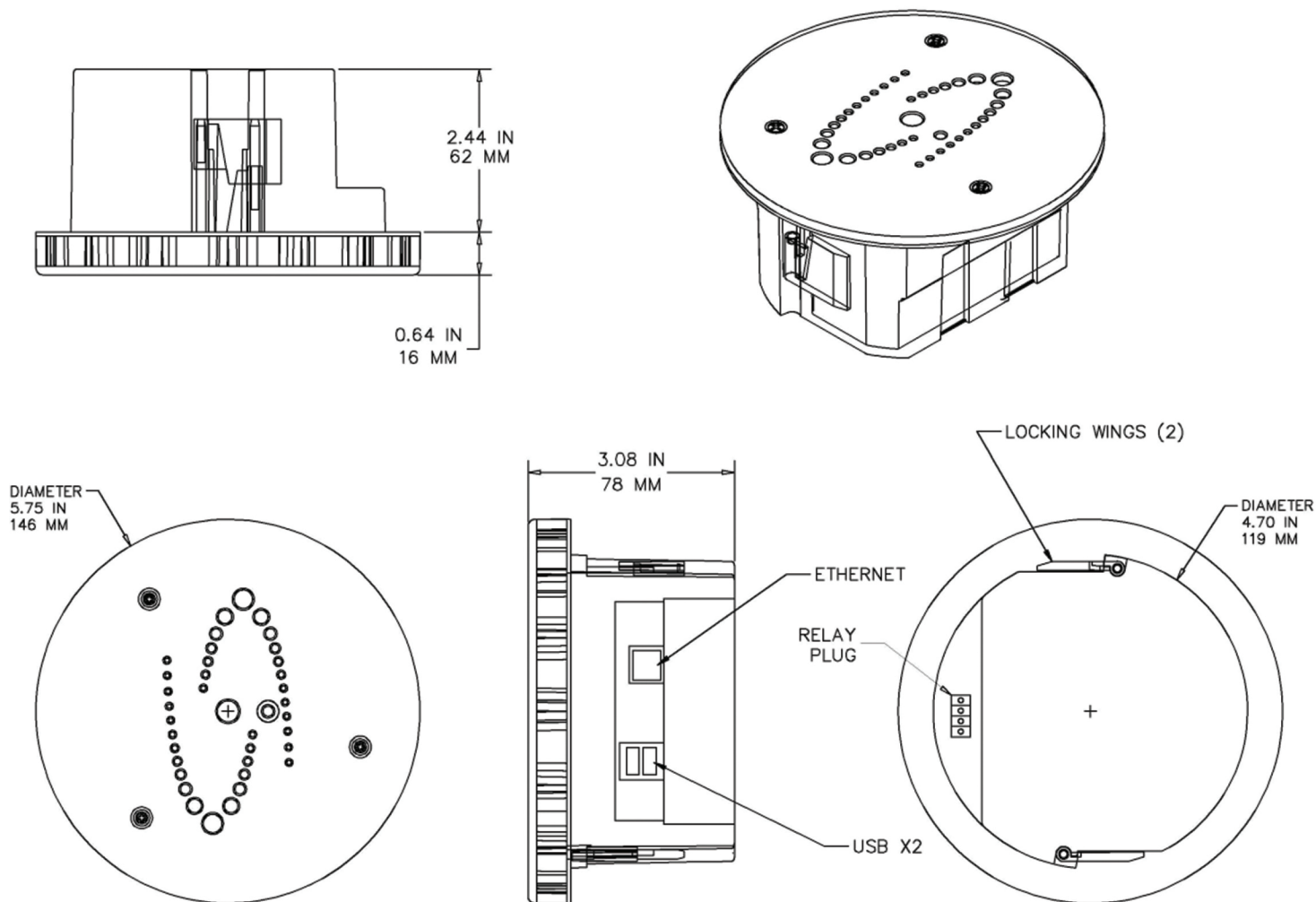• Unit is 5 ¾" diameter by 3" deep
• PoE connectivity

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) 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

2.44 IN
62 MM

0.64 IN
16 MM

DIAMETER
5.75 IN
146 MM

3.08 IN
78 MM

LOCKING WINGS (2)

DIAMETER
4.70 IN
119 MM

ETHERNET

RELAY PLUG

USB X2

Interface Specifications

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
VMS Integrations	Milestone, Panasonic, Axxonsoft
Status Light	Alarm Condition, Multi-Color, Programmable
Speaker	Alarm Condition, Pre-Recorded Files, Programmable

*Image display of sensor readings only.

Network Specifications

Ethernet	RJ-45 (10/100 Base-T)
Alarm Triggers	Particulates, Carbon Dioxide Equivalents, Total Volatile Organic Compounds, Carbon Monoxide, Oxidizing Agents, Ammonia, Temperature/Humidity, Light Level, Sound Levels, Tamper, Vape, Vape THC, Aggression
Protocols	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, RTP, RTSP, DHCP, ARP, Bonjour
Maximum Users Connections	Live MJPEG Stream, 8 Users

All information is subject to change without notice.