HALO™ SMART SENSOR

SOUND DETECTION
AIR QUALITY MONITORING
CHEMICAL DETECTION

Initially intended for schools to combat the vaping and school shooting epidemics, HALO 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.

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 and video systems management monitoring tools.

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

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

Alerting
- Email or SMS text alerts
- Digital alerts in Video Management

Other Features
- Flush mounting to ceilings
- Input/Output for connection to external devices
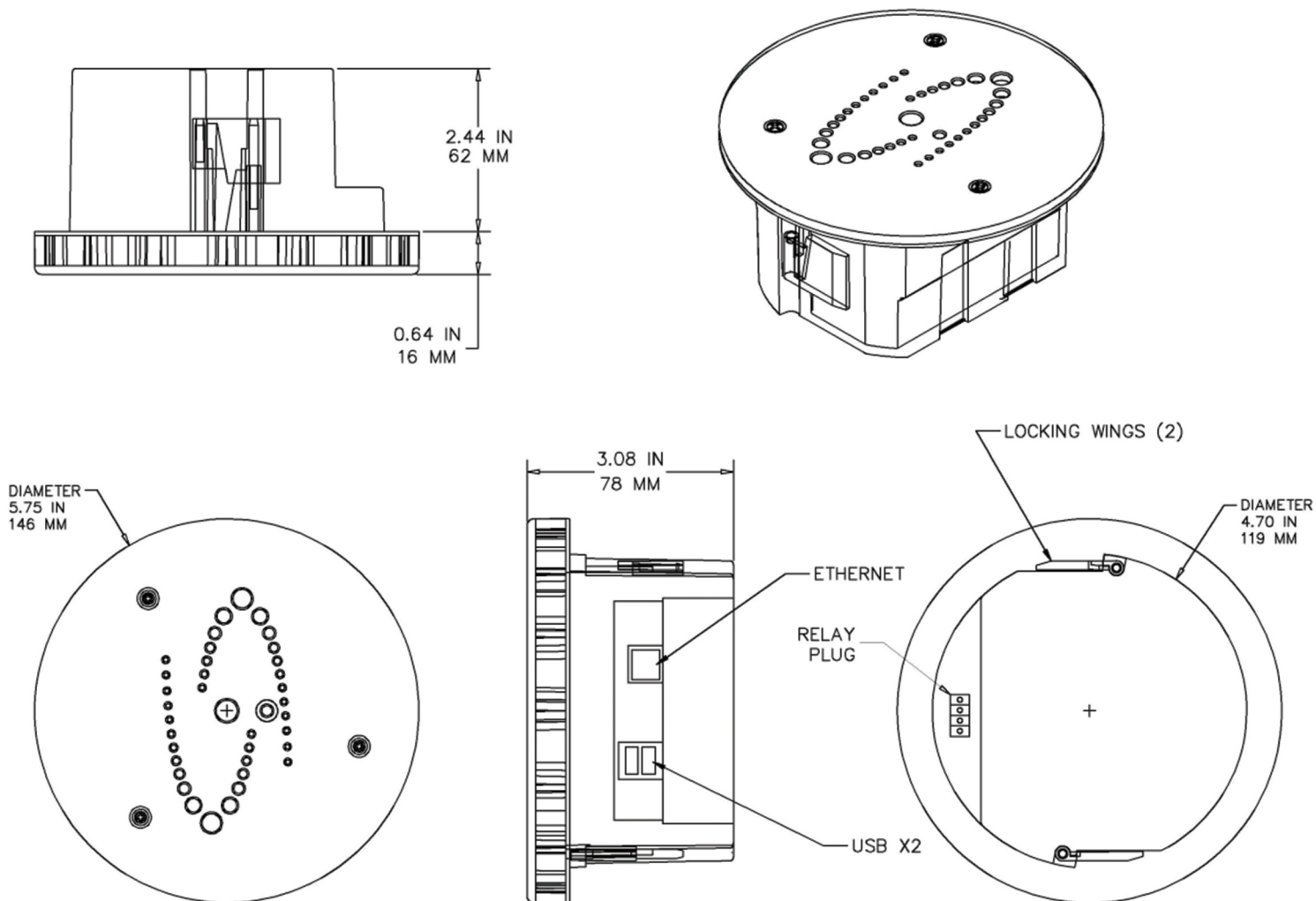- Unit is 5 ¾" round by 3" deep
- PoE connectivity

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) 80 mA (TBD)
Dimensions	5.75" x 3.08" (146mm x 78mm)
Weight	0.8 lbs (0.365 kgs)
Mounting Options	Ceiling Flush Mount, Surface Mount (optional)

Interface Specifications

Live Image Resolution	1024 x 768
Frame Rate	1 FPS
Video Compression	MJPEG
Audio	MEMS Microphones (2)
Relays Outputs	2, Normally Open or Closed, 48VDC at 1 amp
VMS Integrations	Milestone, Panasonic, Axxonsoft
Status Light	Alarm Condition (optional), Error, Sensor Life

Network Specifications

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