VITRITON

Placement, Installation, and **Networking Best Practice**

Parameter	Value
Ethernet	
Connection Speed	10/100 Mbps
PoE Support	IEEE 802.3at Class 3 Compliance) input and output
Power Draw	
Power Consumption	5W (Typical) 8W (Max)
Voltage Range	12 V DC, PoE
Networking	
Protocols	IPv4, IPv6, HTTPS, DHCP, TCP, RTSP, Onvif, MQTT
Wireless	2.4 GHZ IEEE 802.11 b/g/n/ac Wireless
Bandwidth	
Max Mitrate	2 Mbps
Streaming Resolution	1080p, 30 fps (Adjustable on VMS)
Compression Format	H.264

Quick Reference

- Power via PoE or 12 V DC Power (PoE Recommended)
- Network Connection via Ethernet or WiFi (Ethernet Recommended)
- Cat 6 Cable Recommended
- Save time and cable by connecting up to four sensors together with **POE Daisy Chain**
- Install one to two devices depending on room size, air flow, and required response time
- Install away from obstructions, HVAC vents, open windows, air purifying sprays, and other sources of airflow disruptions

Running Ethernet: Home Runs and Daisy Chain

Quick Info:

- PoE (IEEE 802.3at Class 3 Compliance) input and output.
- Tether up to 4 devices together using PoE daisy-chain
- Cat 6 cable recommended using a PoE+ or PoE++ switch
- Home runs for secluded sensors
- Daisy-Chain sensors in the same area

Connecting your Triton ULTRA sensors to power and data through Cat 6 networking cable is the most reliable way to install your sensors and ensure their functionality. To mitigate installation time, costs, and cable used, we recommend that you daisy-chain nearby sensors to each other using the respective PoE In and PoE Out ports on each sensor.



Device Placement Best Practice

When planning device placement, take the following into account:

- Coverage range for each sensor (assumes 2.59m high ceiling)
 - Nicotine and THC Vape: 14 sqm (optimal) 21 sqm (maximum)
 - Loitering and People Counting: 15.7 sqm (4m x 4m)
 - Keywords: 23.8 sqm (no obstructions or crossnoise)
 - Cloud Audio Analytics: 13.4 sqm (no obstructions or crossnoise)
- Place away from HVAC exhausts, windows, and other airflow disruption sources
- Avoid placement near automatic air freshener sprays
- Obstructions such as cornered walls can impact range and response time
- The further away the vape, the longer the alert will take
- Larger rooms or rooms with obstructions may require two sensors for maximum coverage

Coverage Diagrams



Single Sensor Placement

- 13.38 sqm reference room
- Placed near the center of the room to cover drug use, loitering, keywords, and more.
- Device centered towards the highest foot traffic part of the room for the quickest response time
- Not placed near HVAC vents to avoid airflow disruptions



Multi Sensor Placement

- 20.9 sqm reference room
- Sensors cover the entire room with small overlap
- Sensors overlap in high foot traffic areas for quick and accurate coverage
- Sensors daisy-chained together for high efficiency

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