

TheSmartCone™ Data Sheet

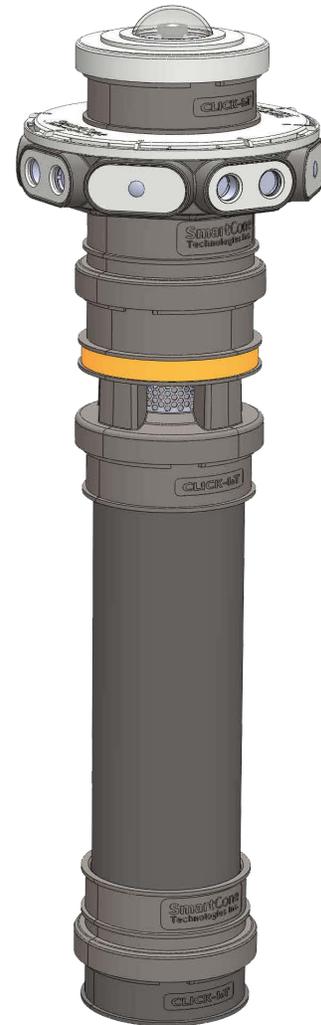
TheSmartCone™ is a portable, highly versatile IoT sensor platform for safety, security, asset tracking, and surveillance applications.

TheSmartCone™ can be installed permanently or placed temporarily where it is needed.

TheSmartCone™ Fuzioncore software fuses and processes data from a wide range of sensors (including video), providing detection, monitoring, and warning systems for vulnerable, hazardous, and potentially hazardous zones such as road works sites, remote stations, public events, bicycle and pedestrian paths, open pits, downed power lines, chemical spills, or any other location that requires 24/7 protection.

As new sensors and applications become available, they can easily be swapped out from TheSmartCone™ thanks to its Click-LoT™ modular design.

TheSmartCone™ is a next-generation IoT solution. Each cone is inter-networked, creating robust, on-premises networks that are self-reliant and self-healing. It is next-generation in that it processes and exchanges data on a local network (created by TheSmartCone™) before transmitting data over the Internet.



Next-generation IoT technology

TheSmartCone™ creates a local network to process sensor data and transmit information. On-site processing on TheSmartCone™ ensures:

- 1) More efficient data transmission over the cellular network when TheSmartCone™ communicates with the Cloud. (And less cost.) Only metadata is transmitted to the internet.
- 2) More reliable mechanisms for issuing real-time alerts. Network latency does not affect TheSmartCone™ alerts as they rely on internal processing in order to function.

TheSmartCones™ work together to create an intelligent mesh network. TheSmartCone™ IoT FuzionCore software uses a cognitive behavior analysis system to combine multiple sensor input data. A series of complex algorithms collect, manipulate, and populate a “prior knowledge repository” with real-time findings from the sensor network.

Each SmartCone is independent and connected. If one fails, the others can take over.

Specifications

Physical

Height:	16 - 24"+ (40.6 - 61 cm)
Width:	3 - 8"+ (7.6 - 20.3cm)
Weight:	5-8 lbs. (without battery)
Mounting:	Portable or permanent installation

Power/electrical

Input voltage:	12 VDC
Power consumption:	10 Watts
Power options:	AC, battery, Power over Ethernet (POE), Solar

Environment

Operating temperature range:	-40°C ~ 75°C
Weather Rating:	IP65

Core platform/functions

Wi-Fi Security:	WEP, WPA, WPA-PSK/ WPA2-PSK
Wi-Fi:	IEEE 802.11b/g/n 1T1R (max. 150Mbps throughput) Client or Access-Point, Multiple SSID
Interface:	Gigabit Ethernet Bluetooth capable

Network

CPU:	Quad-core ARM processor Linux-based server (Ubuntu 16.04) Web-based server MySQL database 5.7
GPS:	<i>Satellites:</i> 22 tracking, 66 searching <i>Update rate:</i> 1 to 10 Hz <i>Position Accuracy:</i> < 3 meters

Storage

Expandable to 2 Tb