“Smart” Safety and Monitoring with SmartCone Solutions

IoT-based safety and monitoring systems that provide intelligent detection, multiple-type warnings, total mobility, and full scalability for securing vulnerable and hazardous zones large and small.

Why SmartCone?

Everybody today can get data — video, images, sound, motion detection, cell phone signal detection — but few are able to sort through it cost-effectively. Without an efficient way to sort data, organizations can’t get mission-critical information in time nor alert all involved parties quickly enough.

For safety, that means providing instant feedback at a potentially dangerous situation to all relevant parties — potential victim included. For asset tracking, that means 24/7 monitoring and video, and sending only key data (and not expensive, unmanageable big data) through the appropriate channels. And for communications, it means broadcasting information at the right time to the right people, so they can receive information in a way that doesn’t intrude on their privacy.

SmartCone Technologies does all this by combining IoT technologies with the rich selection of sensors and alert mechanisms available today to create an intelligent and completely scalable safety and monitoring solution.

IoT technology

The SmartCone Solution is made up of one or many SmartCones. Each SmartCone contains a high powered computing platform running SmartCone IoT FusionCore software and sensors. Customers can quickly change the sensor modules to modify or expand the SmartCone’s capabilities.

SmartCones can work together to create an intelligent mesh network. The SmartCone IoT FusionCore uses a novel cognitive behaviour fusion engine to process sensor data coming in through the individual cones. 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.
Reduced bandwidth and storage requirements
The SmartCone provides connectivity thanks to “fog” computing capabilities that streamline data for delivery. The cones capture initial data through an array of sensors. The IoT FusionCore processes this data, and delivers only metadata over a network — private cloud or internet — to a central location such as headquarters.

Portable
SmartCones can be static or mobile. A cone can be installed in a permanent location, and covered in different “skins” for the cone to blend in. A SmartCone can also be completely mobile — employees simply drop cones where they are needed and walk away.

Scalable and adaptable
Sensor modules can easily be added or changed to adjust the SmartCone’s capabilities. For changing areas and zones, you can add as many cones as you like. Your needs determine the size of the SmartCone Solution.

Wide range of sensor capabilities
SmartCones can be setup to detect motion, vibration, sound, smells, balance, temperature, radiation, electrical voltage, or almost any combination thereof — a huge range of options is available.

Multiple detection/monitoring options
- Video cameras
- Motion sensors
- Facial and gender recognition
- License plate recognition
- LIDAR - trip wire/distance measuring
- Seismic
- Windspeed
- Multigas detectors, toxic and/or slightly toxic
- Air quality: ozone, particulate matter, carbon monoxide, sulfur dioxide, and nitrous oxide
- Temperature + variances in
- Others

Alert methods
- Text, telephone, and/or email notification
- Flashing LED lights, of any color (usually red and green)
- Digital signs
- Custom audio messages uploaded on the fly
- Pre-recorded sounds from speakers, such as a warning message, alarm bells or sirens
- Vibrating wrist devices
- Potential for wireless emergency alert
- Potential broadcast through emergency broadcast system
Customized to your needs
All SmartCone Technologies solutions are customized to your needs. We provide the integrations so you don’t have to worry about making all the devices, software, and databases work together.

Long-lasting
Off-the-shelf components ensure the longevity of your solution, and make upgrades and maintenance more cost-efficient.

Quick Installation
The SmartCone Solution is a plug-and-play solution that takes, on average, less than one day to install.

Cost-efficient research and archive capabilities
Research any data archives, including video, quickly and easily. The SmartCone HD video feed is captured, stored, and fused with the sensor data. Users search for video footage based on motion events, time, or sensor alarms.

Multiple power options
Your solutions can be battery-powered, solar-powered, or plugged into the grid.

About SmartCone Technologies
At SmartCone Technologies, our mission is simple: we want to save lives and secure your assets. Since 2011, we’ve been researching and developing IoT (Internet of Things) technologies to make safety more intelligent, cost-effective, adaptable, and mobile, all at the highest standards of security and privacy.

SmartCone solutions have been used for securing dangerous work sites, controlling bicycle lane traffic, managing vehicle fleets, monitoring traffic incident scenes, mobile and fixed advertising, crowd control, and site security surveillance. Our clients include utility companies, departments of transportation, construction companies, engineering firms, automobile dealerships and various policing agencies among others.
Secure
SmartCone Technologies provides industry-standard AES-256 TLS encryption with 2048-bit RSA keys on all its cones. Any data that is transferred off the system is encrypted. SmartCone Technologies can also satisfy other encryption requirements you require.

Green technology
SmartCone Technologies Juize boxes can provide 100% solar power to SmartCones.

To learn more about how you can deploy IoT technology to improve safety, contact us at
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A few of our customers
Enterprise Rent-A-Car
Exelon Corporation
City of Ottawa
Department of Transportation
North Dakota
SBA RCA Participant
Department of Transportation
Florida
Village of Lyons Police Department