HALO
Intrusion Detection
Precision Microwave PIDS

sensurity

Sensurity is dedicated to raising the standards for Perimeter Intrusion Detection Systems (PIDS). We pioneer and patent intelligent security systems with high levels of intelligence and unparalleled ease of use.

HALO by Sensurity brings a new level of intelligence to Perimeter Intrusion Detection Systems (PIDS).

HALO is a one-box dual technology system, combining both state of the art digital microwave and robust active IR detection.

HALO uses advanced signal processing and on-board analytics to deliver to work in challenging locations.

HALO

Intelligence

HALO is an intelligent system that can adapt to changing environmental conditions and intelligently reduce nuisance alarms. It has the narrowest possible active alarm zone while maintaining peripheral awareness.

Sense

HALO learns about its environment and self callibrates making it the system in its class. It requires the smallest installation footprint and has low maintenance requirements.

Integrity

HALO simply integrates with any system and provides secure data routing for peripheral sensors. It maintains system integrity using robust authentication, and offers secure channel communication.

Durability

HALO is hardened to operate in tough environments. It is weather proof, temperature tolerant, and vandal resistant. Continuously and rigorously tested, it has attained the toughest Certified Standards.

Summary of Features

+ Smallest footprint in class

+ Dual technology detection

+ Low nuisance alarm rate

+ One cable, data and Power

+ Optimised 100m coverage

+ Simple setup and integration

+ Install using existing infrastructure

INTELLIGENT SECURITY

Intelligent

Each pair of **HALO** nodes form part of an Intelligent Platform, the signal sent between the nodes is continuously analyzed using a variety of adaptive DSP techniques. These algorithms reduce nuisance alarms, narrow the active alarm zone and adapt to environmental changes.

HALO self-calibrates at start up making the system simple to deploy. By continuously adjusting to environmental changes, **HALO provides excellent coverage where similar systems fail to operate.**

Sense

HALO's dual sensor technology ensures the system has the smallest installed footprint of microwave systems. The narrow active alarm zone allows installation close by fence lines, roads and hedgerows.

Uniquely **HALO** can be installed back-to-back, requiring only 1 mounting per 2 nodes and one cable can deliver both power and data (POE). This considerably reduces the cost of installation. The intelligence alarm system ensures nuisance alarms are as low as possible; **HALO does not need a sterile zone to offer 100% coverage.**
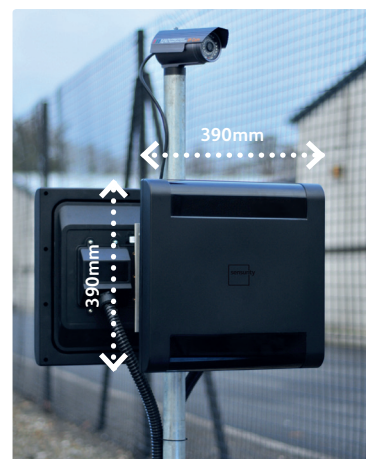
Integrity

.**HALO** creates a full PKI (Public Key Infrastructure) through which data can be securely exchanged over an encrypted channel. Peripheral devices such as access control nodes or other sensors can be securely integrated via **HALO,** removing the need for dedicated cabling. **HALO provides both intrusion detection and a secure transmission system.**

Specifications

Frequency	5.785-5.815 GHz
Output Power	+14 dBm peak EIRP
Modulation	FSK modulation
Modulation channels	30+ enabling multiple sensors to be stacked or deployed in close proximity
Range	3-200 m Coverage
Probability of detection	99.9% when properly installed
DC input	12-48 VDC or POE
LED indicators	1 – power on, hidden from outside view, 1 – status
Housing	IP65 High-impact Nylon / Polycarbonate
Sensors	Lower dead-zone elimination module, Upper dead-zone elimination module, GPS, Temperature, Vibration/Shock
System connections	2 multi-function relays, Ethernet, 4 Analogue inputs, 1 RS485
Relays	30 VDC. Function of each can be assigned based on requirements such as alarm, tamper, input power fail, fail-safe.
Operating environment	-40°C to 65°C. 0-95% humidity non-condensing.
Mounting options	Wall-mount or post-mount. Brackets available to support post diameters of 40-300 mm.
Cable ports	One cable port with connections accessible through access panel on enclosure back.
Approvals	CE, EMC and R&TTE, EN50130-4 Alarm System Standard

Dimensions

390mm

390mm

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