

SCAN-BEAM

Specifically developed to complement the Scan-360's area coverage. SCAN-BEAM provides a very narrow, defined 'beam break' perimeter intrusion system with invisible fence-line detection capability

scan



FEATURES

The Scan-Beam Perimeter Intrusion Detection System (PIDS) has a very narrow, well-defined 'beam break' functionality - ideal for perimeters, operating close to physical fences and boundaries.

A single pair of transmit & receive modules forms an invisible 3D volumetric microwave zone to detect intruders.

- Very narrow, well-defined 'beam break' functionality.
- Up to 500m range.
- Alarms on intrusion
- All weather capability
- Low total cost of ownership
- Compact and lightweight design
- Very easy to install and set up using web browser
- Power-over-Ethernet (POE)
- Advanced Digital Signal Processing (DSP) for best target detection and minimal false alarms
- Very high RFI and EMI immunity due to "super-heterodyne" design
- 24GHz operating frequency for improved detection probability and immunity to jamming
- Robust and thoughtful design for long life

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SPECIFICATIONS

Operation	Detect a vehicle or person, crawling or running up to 10m/s.
Maximum operating range	500m
Minimum operating range	10m
User interface	Web-browser based Graphical User Interface (GUI)
Set_Up	Using web browser. Select operating channel. Align using Receive Signal Strength Indicator (RSSI), then set alarm threshold.
Alignment	Adjustable bracket to easily orientate unit.
Install height	Typically 0.5m to 1m, pole mounted
Interface	Ethernet 100Mbps, RJ45 port. Circular multi-pole header for alarm relay.
Software	Upgradeable in service using website
Alarm data	Output to third party software, IP alarm function.
Probability of detection	At least 0.99
False alarm rate	Typically 1/unit/year based on signal to noise ratio.
Processing	Microprocessor controlled, Digital Signal Processing (DSP) to reduce false-alarms.
Supplied kit	Mounting bracket, operating manual. Optional 10m cable for alarm relay and other physical interfaces.
Operating frequency band	24.05 - 24.25 GHz (license exempt ISM band)
Operating channels	10 (selectable at installation)
Transmitted power	+20dBm (100mW) EIRP
Antenna beam width	Nominal 5° azimuth and 10° elevation
Alarm relay	Volt-free contact (relay), max voltage 24V, max current 25mA. Active impedance nominal 45ohms, inactive impedance > 100kohms.
Temperature range	-20°C to +55°C
Power supply	Power-Over-Ethernet (POE), 802.3af compliant
Power consumption	Transmitter: nominal 1.8W (2.1W with Ethernet connection). Receiver: nominal 3.2W (3.5W with Ethernet connection).
Interface	Alarm relay, Ethernet (IP).
Routine maintenance	None required
Colour	Light grey standard, optional camouflage paint schemes
Dimensions	220 x 210 x 60mm excluding brackets & sunshield
IP rating	IP65
Approvals	EN300440 RF, EN301489 EMC, IEC60950 Safety.
RF Hazard	None (<0.5mW/sq cm average at antenna)

Ogier Electronics reserve the right to alter this specification without notification



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Designed, developed and
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