

HIGH PERFORMANCE PERIMETER SECURITY

Super-Beam is the next generation microwave perimeter intruder detection system that uses radar technology to detect the precise location of any intrusions.

Super BEAM

The Super-Beam creates a very narrow width “beam break” detection zone of up to up to 400 metres length. When a person or vehicle crosses this zone the Super-Beam automatically slews up to four CCTV camera to the exact location of the intrusion and reports the co-ordinates over the Ethernet interface. The Super-Beam combines the high detection probability of conventional microwave PIDS with the intruder geo-position and slew-to-cue features of scanning surveillance radars.

FEATURES

- Up to 400m operating range
- High detection probability
- All weather operation
- Low false alarm rate
- Power over Ethernet (PoE)
- Automatic slew-to-cue camera control
- Reports intruder location over IP network
- Integrates with VMS and third-party systems
- Optional un-powered beacon simplifies infrastructure and installation



Typically installed at 1 metre height with both Super-Beams facing each other, these fixed sensors stare along the perimeter resulting in extremely high detection probability in excess of wide-area scanning sensors. In-built GPS with map integration makes alignment straightforward for installers, requiring no special training or tools.

Super BEAM

TECHNOLOGY

Our innovative technique utilises a pair of radar sensors that activate when intruders pass between them. For distances up to 200 metres one of the radar sensors can usually* be replaced with our unpowered "Beacon" to simplify installation and reduce power consumption.

HIGH PERFORMANCE

Digital algorithms and Doppler processing give high detection probability. The robust and rugged design and construction with proven microwave technology delivers unrivalled maintenance free operation.

SPECIFICATION

Operation	"Beam-break" detection with simultaneous range measurement of a vehicle or person crossing between the two radars, trigger an alarm and report range to target, steer camera to target.
Detection Range	Up to 400m using two radars (Super-Beam 400) or 200m using one radar and Beacon (Super-Beam 200)
Detection Zone Width	Very narrow, adjustable using software control. Typically as low as 1 metre for beam-break, depending upon operating range and user settings.
Install Height	Typically 1m, pole mounted.
User Interface	Web-browser based Graphical User Interface (GUI).
Alignment	Adjustable bracket to easily orientate unit. Simple alignment display using GUI interface.
Physical Interfaces	Ethernet 100Mbps, RJ45 port. Auxiliary circular multi-pole header for alarm relay.
Alarm data	Ethernet output to third party software (e.g VMS), P/IP alarm function.
Software	Built-in. No software licenses required. Upgradeable in service using website.
User interface	Web browser based GUI (Graphical User Interface).
Camera Compatibility	Up to 4 PTZ cameras. ONVIF Profile S (absolute zero positioning).
VMS interface	Accessed through GUI. Compatible with ADAMS and many popular VMS suites.
GPS	Built-in. Used for synchronisation of multiple radars and location mapping.
Operating Frequency Band	24.05 - 24.25 GHz (license exempt ISM band).
Radar Type	FMCW
Transmitted Power	+20dBm (100mW) EIRP.
Power supply	Power-over-Ethernet (PoE), 802.3af compliant, typically <10 W consumption. (Additional DC power supply needed for optional heater, additional 50W per radar)
Alarm Relay	Programmable (NO/NC) Volt-free contact (relay), 24V, 25mA max. Active impedance nominal 45ohms, inactive impedance > 100kohms.
Dimensions	220 x 210 x 60mm (Standard unit) excluding brackets, sunshield and connectors.
Weight	1.7 kg excluding brackets and sunshield.
Temperature range	-20°C to +55°C (optional -40°C with internal heater)
Bracket	Supplied with pole-mount bracket.
Colour	Standard colour: Light grey. RAL colours and camouflage finish optional.
Approvals	EN300440, EN301489, IEC60950.
RF Hazard	None (<0.5mW/sq cm average at antenna).
Routine Maintenance	None required.

Ogier Electronics reserve the right to alter this specification without notification

OgierElectronics

Unit 13,
Sandridge Park
Potters Wood,
St Albans Herts AL3 6PH
United Kingdom.
T: +44(0)1727 853 521
E: enquires@ogierelectronics.com
W: www.ogierelectronics.com



INSTALLATION

The design of the Super-Beam includes an intuitive graphical user interface (GUI) with built in configuration aids, making alignment straightforward. There is no need for specialist training or tools.

* We recommend that the Beacon be mounted at least 5 metres in front of large buildings or fences for optimum performance.