

Preliminary Specification

Operation	“Beam-break” detection with simultaneous range measurement of a vehicle or person crossing between the two heads, trigger an alarm and report range to target, steer camera to target.
Maximum operating range	Up to 400m between paired heads.
Minimum operating range	No less than 100m between paired heads.
Install height	Typically 1m, pole mounted.
User interface	Web-browser based Graphical User Interface (GUI).
Alignment	Adjustable bracket to easily orientate unit. Simple alignment using Receive Signal Strength Indicator (RSSI).
Set-Up	Using web browser. Download a map and set maximum detection range and operating channel then align camera with the radar if required. A special coverage mode moves associated camera back and forth when a target is detected to allow visual indication of operation for the installer.
Software	Upgradeable in service using website.
Interface	ONVIF, Ethernet 100Mbps, RJ45 port. Circular multi-pole header for alarm relay and radar sync interface.
Alarm data	Output to third party software (e.g VMS), IP alarm function.
Processing	Microprocessor controlled, Digital Signal Processing (DSP) for high detection probability and low false-alarm rate.
Operating frequency band	24.05 - 24.25 GHz (license exempt ISM band).
Target range resolution	1.5m nominal.
Transmitted power	+20dBm (100mW) EIRP.
Alarm relay	Volt-free contact (relay), max voltage 24V, max current 25mA. Active impedance nominal 45ohms, inactive impedance > 100kohms.
Power supply	Power-Over-Ethernet (POE), 802.3af compliant. Additional 48 Vdc supply required for optional internal heater.
Power consumption	POE < 10W (per head). Optional heater requires up to 50W (per head) @ 48Vdc.
Temperature range	-20°C to +55°C. (optional –40°C with internal heater)
IP rating	IP65.
Harsh environments	For cold climate operation the unit is fitted with an extended sunshield and optionally with a thermostatically controlled internal heater. The unit should be kept free of snow and ice for optimum performance.
Dimensions	220 x 210 x 60mm (Standard unit) excluding brackets, sunshield and connectors. When fitted with the cold climate extended sunshield then dimensions are TBD.
Colour	Light grey.
RF Hazard	None (<0.5mW/sq cm average at antenna).
Routine maintenance	None required.
Supplied kit	Mounting bracket, operating manual. Optional 10m cable for alarm relay and other physical interfaces.

Ogier Electronics reserve the right to alter this specification without notification



The system consists of a pair of identical equipments ("heads"), between which an invisible 3D detection zone is formed. An output alarm is triggered when a vehicle or person is detected breaking the narrow "beam" between the two heads. The range to the target will be automatically measured allowing a (optional) PTZ camera to be steered by the system to point at the location of the beam break.