Scan Fusion-360

The Smart Radar Solution

Scan Fusion-360 combines AI video analytics with 24/7 all-weather radar detection capability to provide the highest possible detection and lowest false alarm rates of any other system in its class

FEATURES



Ultra-low nuisance alarms
Video analytics and radar sensor fusion
Works with daylight, artificial lit and IR lit video streams*
Target Classification (Person/Vehicle)
200m range over 360° (125663 m^2 area coverage)
Automatically slews camera to target
Tracks up to 8 intruders in user defined detection zones
Set schedules (hours and days of week)
GPS for Google maps and multiple radar synchronisation
Power-Over-Ethernet (POE)
Simple installation using standard PTZ camera mount
Intuitive user interface for quick set-up
VMS and ADAMS integration
Low cost - No software licenses required
High reliability



APPLICATIONS

Provides advanced perimeter and wide area protection for people, infrastructure and high value assets in temporary and fixed locations such as:- critical infrastructure, gas and oil fields, solar farms, warehousing, science parks, private estates, airports, prisons, power stations.

*If the video quality drops below threshold limits, the radar will revert to using AI radar detection protocols only.

SPECIFICATION

Radar	Scan-360
Operation	Detect a person or vehicle, slew camera, track and trigger alarm
Detection range	Up to 200m in all directions (400m diameter)
Target range resolution	approx. 1.5 metres
Target angular resolution	approx. 2.6 degrees
Elevation beam shape	Spread beam (for best performance at all ranges)
Minimum target speed	0.5 metres per second nominal toward radar
Radar Tracking	Radar tracks up to 8 targets (max. 4 targets per 90° quadrant)
Scan Rate	360° per second
User interface	Web browser based GUI (Graphical User Interface)
Telemetry interfaces	Ethernet 100 Mbps, RJ45 port. Circular multi-pole header for alarm relay
Camera Interface	ONVIF Profile S (absolute zero positioning)
VMS interface	Accessed through GUI. Compatible with ADAMS and many popular VMS
Alarm Relay	Programmable (NO/NC) Volt-free contact (relay), 24 V, 25 mA max. Active impedance nominal 45 ohms, inactive impedance > 100k ohms.
GPS	Used for synchronisation of multiple radars and location mapping
Operating Frequency Band	24.05 - 24.25 GHz (license exempt ISM band)
Radar Type / Power	FMCW / +20 dBm (100 mW) EIRP
Power supply	Power-over-Ethernet (PoE), 802.3af compliant or 24 Vdc 10 W
Weight / Dimensions	4.0 kg / 248 mm diameter max x 310 mm tall (ignoring studs/connectors)
IP and wind speed rating	IP66, 200 km/h
Installation Height	Recommended 2 m to 6 m pole mounted
Approvals / RF Hazard	EN300440 RF, EN301489 EMC, IEC60950 Safety / None (<0.5 mW/sq cm average at antenna)

Computer	Scan-Fusion
Video Decoder	RTSP stream up to 1080p @ 30 FPS.
Weight / Dimensions	0.45 kg / W,D,H: 130 x 120 x 58.5 mm (excluding AC to DC power adapter)
IP Rating	IP20 (not suitable for outdoor use)
Operating temperature	-10° to +60° C
Interfaces	RJ45 Gigabit Ethernet, 4x USB 3.2 type A, 1x HDMI 2.1.
Power	9 to 19 Vdc, typically 25 W (supplied with AC to DC power adapter)

Ogier Electronics reserve the right to alter this specification without notification

Accessories

10 way Amphenol connector

Interface Mounting Bracket

Installation

Scan Fusion-360 is designed for simple installation and commissioning

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