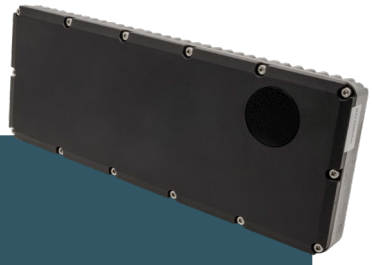


AGD352

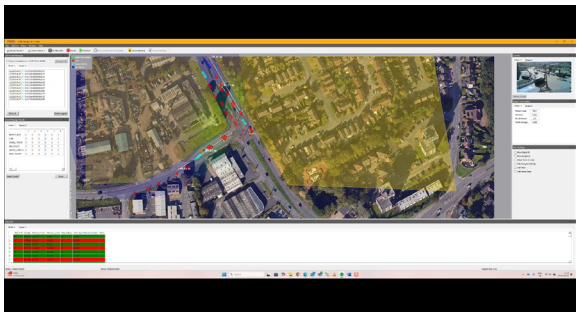
Multi-Lane Radar

The AGD352 is a multi-lane radar designed for use at complex signal-controlled junctions, delivering accurate and repeatable vehicle detection.

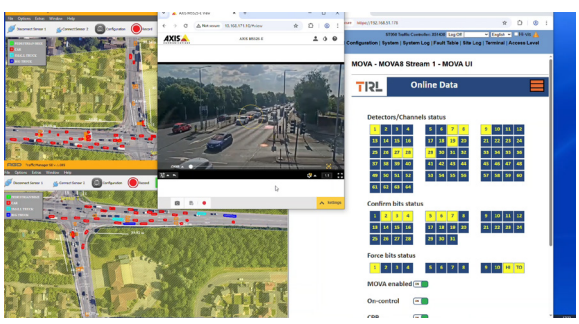
This advanced technology allows traffic to be monitored over multiple lanes with a single radar, letting a whole intersection to be monitored by just two radars. Using its 110° detection footprint and advanced 24 GHz FMCW radar technology, the AGD352 provides reliable, lane-specific detection from a single pole-mounted unit.

The sensor supports virtual detection zones for individual lanes and offers comprehensive detection modes including approach, recede, presence, stationary, queuing and speed aware vehicle detection. This ensures precise monitoring of traffic movements through the entire junction.

Installation is non-intrusive and highly efficient, requiring no cutting into the road surface, significantly reducing installation time and traffic management requirements. Detection performance remains consistent regardless of road surface condition and configuration is carried out safely off-carriageway using dedicated software tools, further simplifying deployment and ongoing maintenance.



Easy to use GUI for ease of set up and control



Provides data to traffic optimiser algorithms

KEY FEATURES

- Lane specific detection and vehicle tracking in up to 16 lanes simultaneously for 128 objects
- Up to 16 outputs per radar
- Channel selection to allow radars to be configured on the same site allowing coverage of up to four approaches
- True stationary target recognition for stop line detection
- Four individual vehicle classifications – Pedestrian/bike, car, small truck, big truck
- Easy set up and configuration of event zones via GUI for custom trigger conditions
- Consistent and reliable performance in all weather conditions

AGD352

Multi-Lane Radar

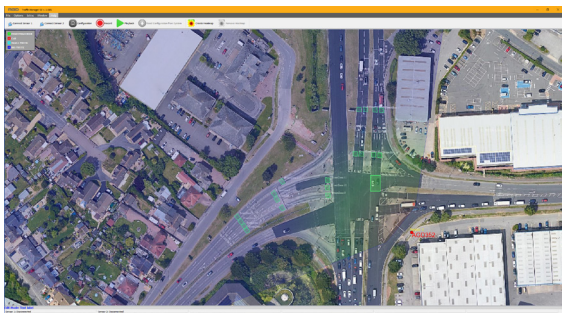
TRAFFIC MANAGER

Configuration and Comissioning Software

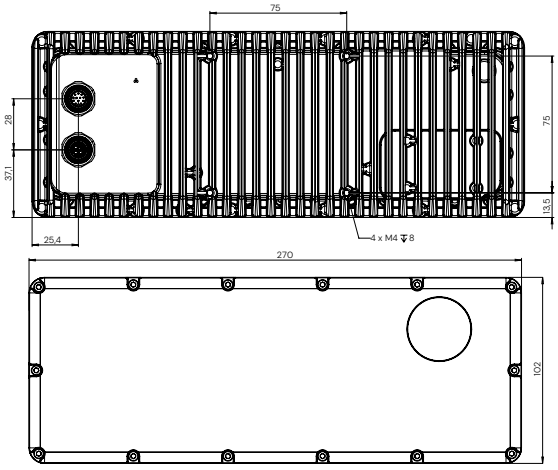
Traffic Manager is AGD's configuration and commissioning software used to set up and manage the AGD352 during installation and maintenance.

Key Functions:

- Visual configuration of detection zones
- Lane-specific zone definition
- Mapping detection zones to outputs
- Live status and diagnostics (configuration dependent)
- Feature availability is deployment dependent.

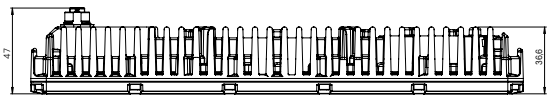


DIMENSIONS



PRODUCT SPECIFICATION

Description	Multi Lane Radar
Detection Technology	4D-MIMO-RADAR
Operating Frequency	24.05 - 24.25GHz
Target Tracking	Movement, Velocity, Direction, Distance, Angle, Presence
Speed Measurement	Up to 233kph
Range	Bike: 5m - 130m Car: 5m - 300m Truck: 5m - 300m
Multi-lane coverage	110°x30°, 4° angular resolution in azimuth boresight
Interfaces	Ethernet interface, RS485 Up to 16 OPTO outputs when using additional I/O interface cards
Power Supply	24 - 48V dc
Power	373mA / 19W @48V dc
Sealing	IP67
Operating Temp	-40°C to 80°C
Configuration	Traffic Manager Software
Dimensions	W 270mm x D 47mm x H 102mm
Weight	1000g
Testing	Full test cycle
Approvals	CE Declaration of Conformity UKCA NEMA TS 2 Referring to temperature and vibration. EMC (Art 3.1(b)): EN50293:2012 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.3.2 Health & Safety (Art 3.1(a)): DIN EN IEC 62311:2019 DIN EN IEC 62368-1:2021 Spectrum (Art 3.2): ETSI EN 300 440 V2.1.1 ROHS EN IEC 63000:2018



AGD® SAFER GREENER **MORE EFFICIENT**

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