

The AGD650 stop-line detector is a smart, optical, dynamic environment detector that makes

delivering robust vehicle detection data at the stop-line of multi lane approaches.

intersections and junctions more efficient by

The 650 has inbuilt artificial intelligence and makes use of a new neural processing platform and sophisticated algorithms to provide ultra-reliable real-time detection and automated decision making on vehicle types, including bicycles and scooters.

Traffic & Pedestrian Control



safer, greener, more efficient



AGD **650**DUAL ZONE STOP-LINE DETECTOR

Smart, Optical, Dynamic Environment Vehicle Detection

With in-built artificial intelligence (AI) it is a high performance product that processes information on board with a new neural processing platform and sophisticated algorithms for automated decision-making to provide ultra-reliable detection.

The AGD650 employs high grade optics and deep learning image recognition to detect stationary and moving targets as they approach the stop-line. The neural net has undergone extensive training to develop a library of vehicle types.

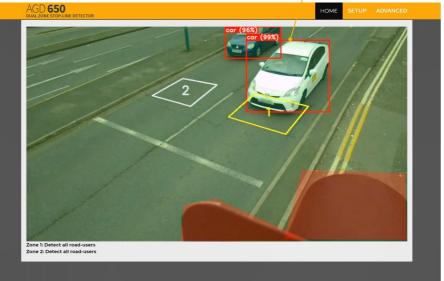
Objects that are not defined within this library are simply ignored.

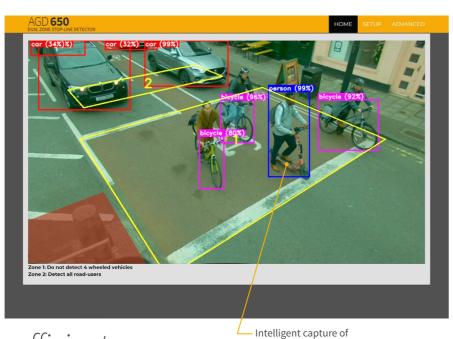
Direct communications with ITS control rooms



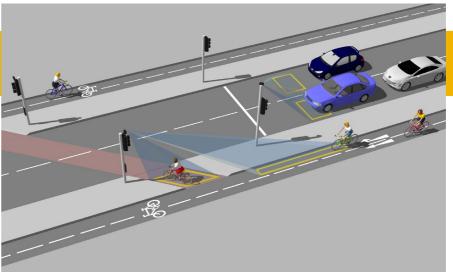
This exciting platform will have future capability to support the needs of smart cities by exporting detailed information about target types. The IP, POE, real-time video, capabilities will be accessed 'down the wire' straight into ITS control rooms - empowering truly informed decision making.



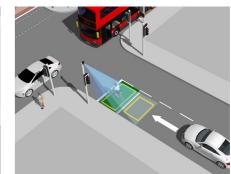




non 4 wheeled vehicles



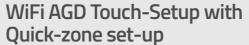




Applications

Features

- Detection of moving & stationary targets at the stop-line
- Two independent user adjustable detection zones
- Deep learning image recognition allows for prioritisation of vehicle types
- In-built AI aids target differentiation
- WiFi AGD Touch-setup speeds installation & reduces risk



The AGD650 is quick to setup using any WiFi device - smart-phone, tablet or laptop - with its unique & secure AGD Touch-setup that allows installers to configure the device in three simple steps:

- 1. Name device
- 2. Select and set virtual loops
- 3. Save settings

Multiple AGD detectors may be setup at the same time from a safe position on the ground, or in a vehicle up to 50m away. Conveniently, the AGD650 can be adjusted for zone changes just as quickly in the same way.



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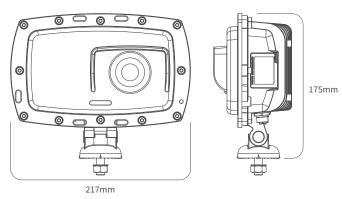


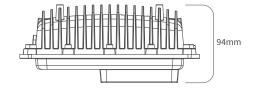
AGD **650**DUAL ZONE STOP-LINE DETECTOR

Technical Data

SPECIFICATIONS		
Description	Dual Zone Stop-line Detector	
Technology	AGD Optical Vision with AI	
Detection Zone	Dual Virtual Loops	
Mounting Height	3-6m Nominal	
Power Supply	24/42V ac/dc	
Power	12W @ 24Vac (740mA) / 24Vdc (440mA) /	
	42Vac (53	0mA)
WiFi Frequency/	2412-2472 MHz / Highest EIRP power in	
Power	the range (dBm): 19.7'	
LED Indication	LEDs for detect and WiFi connection	
Frames per second	7.5	
Housing Material	Black Polycarbonate / Aluminium	
Range	20m at full FOV / 30m at reduced FOV	
Ingress Protection	IP66	
Operating Temp	-25°C to +60°C	
Configuration	WiFi AGD Touch-Setup	
Lux Level	Operates down to 20 Lux	
Dimensions	W 217mm x D 94mm x H 175mm	
Weight	1200g	
Complies with	EMC (Art 3.1(b)):	
		EN50293:2012
		EN301 489-17 V3.2.4
		EN301 489-1 V2.2.3
	Health & Safety (Art 3.1(a)):	
		EN IEC 62368-1:2020+A11:2020
		EN 50556:2011
		EN 62479:2010
	Spectrum (Art 3.2):	
	DOLLC:	EN 300 328 V2.2.2
	ROHS:	EN IEC 63000:2018
	Other:	TOPAS 2505B Appendix E
Patent No.	Patent Pending	





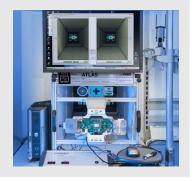


Owing to the Company's policy of continuous improvement, AGD Systems Limited reserves the right to change their specification or design without notice.

The smart optical AGD650 with AI and target recognition provides even greater performance at the Stop-line than its predecessor the AGD316 radar used on thousands of sites worldwide. The future IP capable AGD650 is the ideal detection solution for multi lane intersection approaches in smart city environments.

Tested and AGD Certified

All AGD products are Tested, Calibrated and AGD Certified so customers know that all devices will perform exactly as described.





PRODUCT SOLUTIONS FOR INTELLIGENT TRAFFIC SYSTEMS

