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

The AGD650 stop-line detector is a smart, optical, dynamic environment detector that makes intersections and junctions more efficient by delivering robust vehicle detection data at the stop-line of dual lane approaches.
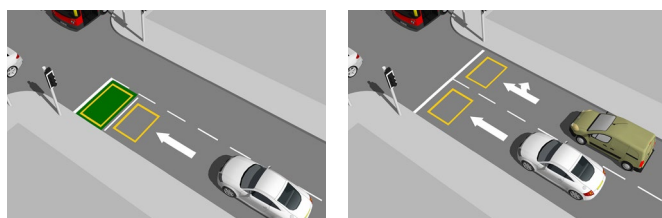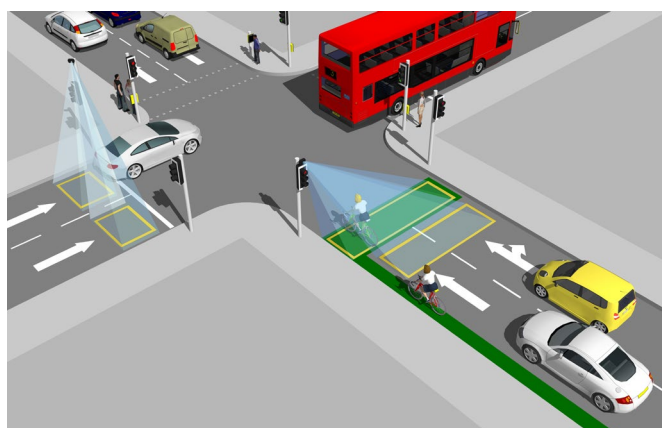
With in-built artificial intelligence (**AI**) it is a high performance product that processes information on board with a new neural processing platform and sophisticated algorithms for automated decision-making to provide ultra-reliable detection.

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.

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.

IN-BUILT ARTIFICIAL INTELLIGENCE

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

Traffic & Pedestrian Control

safer, greener, more efficient

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AGD **650**
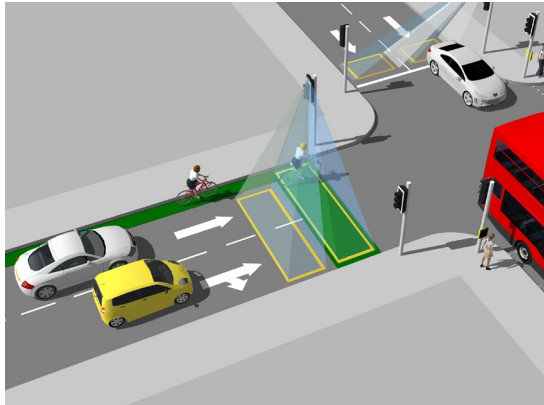## DUAL LANE STOP-LINE DETECTOR

AGD **Touch-setup**
WIFI 3-CLICK TOUCH-SETUP

WiFi AGD Touch-Setup with Quick-zone set-up

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.
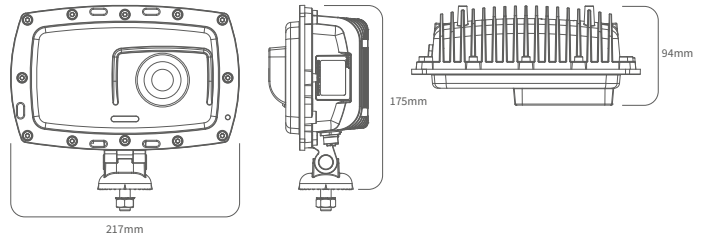

AGD Quick-zone set-up

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 dual lane intersection approaches in smart city environments.

Product Specification

Description	Vehicle Detector
Technology	AGD Optical Vision with AI
Detection Zone	Dual Virtual Loops
Mounting Height	3-6m Nominal
Power Supply	24V AC/DC
Power	11W @ 24V AC (700mA) / 24V DC (420mA)
Detect Output	Twin Opto / IP future proofed
LED Indication	LEDs for detect and WiFi connection
Real-time Video	Option on request
Housing Material	Black Polycarbonate / Aluminium
Sealing	IP65
Operating Temp	-25°C to +60°C
Configuration	WiFi AGD Touch-Setup
Lux Level	Operation down to 20 Lux under normal streetlighting conditions
Dimensions	W 217mm x D 94mm x H 175mm
Weight	1200g
Complies with	EMC: BS EN 50293:2012, EN 301 489-17, EN 301 489-1 Health & Safety: BS EN 62368, EN 60950-22, EN 50556, EN 62311 Spectrum: EN 300 328 RoHS: EN 50581 Other: TOPAS 2505B

Dimensions

94mm

175mm

217mm

Tested and AGD Certified

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

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