



AGD646

AI Pedestrian and VRU Detector

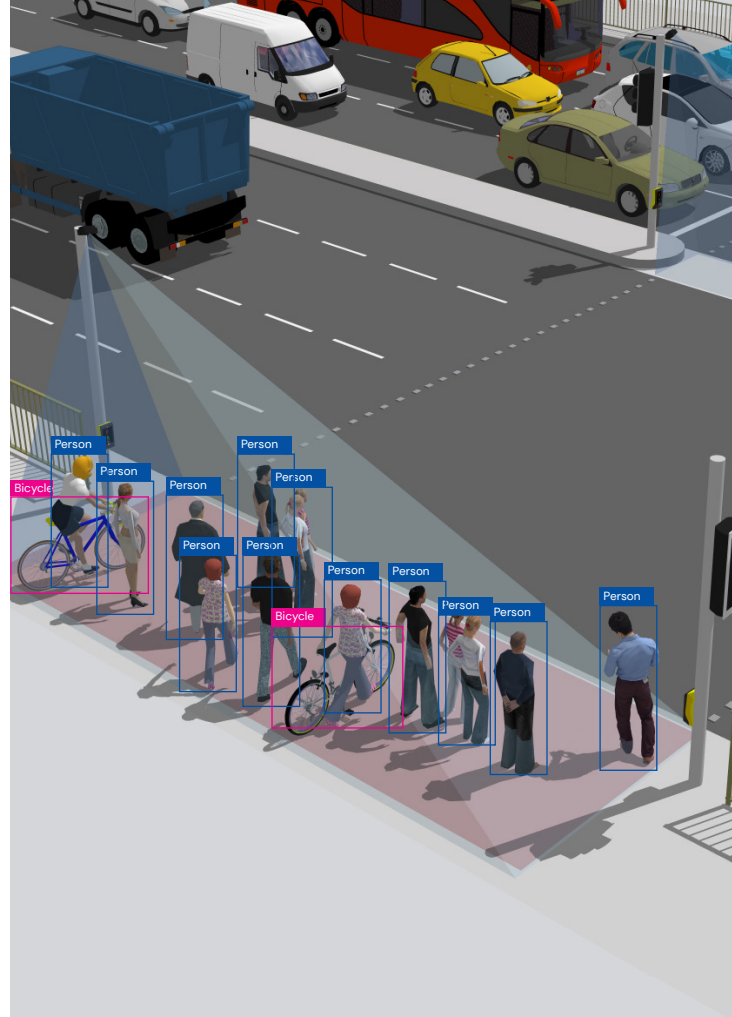
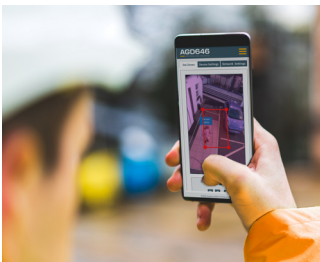
The AI Pedestrian and VRU Detector represents the next generation in intelligent detection technology for pedestrian crossings.

Building on the success of the AGD645, the AGD646 introduces Artificial Intelligence and long-range infrared illumination to deliver exceptional accuracy, reliability, and performance in all lighting and weather conditions.

Engineered specifically for kerbside detection, the AGD646 can identify pedestrians and cyclists in the waiting area, providing valuable data to support adaptive pedestrian signal control and improve safety for all Vulnerable Road Users (VRUs).

By identifying different user types in pedestrian wait areas, the AGD646 enables dynamic signal strategies that prioritise pedestrians and cyclists, reduce waiting times, and enhance crossing safety.

The AGD646 is where AI meets real-world safety, a true step forward in intelligent, connected detection for smarter cities and safer roads.



KEY FEATURES

- Next-generation AI engine specially trained for kerbside applications
- Long-range infrared illumination for large detection zones up to 3m x 10m
- High-quality image sensor and optics for enhanced detection accuracy
- Occupancy mode to enable pedestrian signal prioritisation
- Lower power consumption with improved efficiency
- Enhanced user interface for easy setup and monitoring
- Ethernet output with JSON data output
- Designed to meet TOPAS 2507B standards

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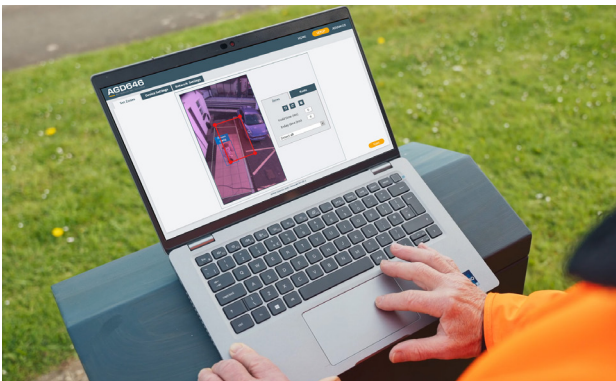


Secure access to AGD Touch Setup

The AGD646 is configured using the AGD Secure Browser to connect to the detector via the AGD646's built-in Wi-Fi or Ethernet interface.

The AGD Secure Browser verifies the user's AGD Connect credentials before providing access to AGD Touch Setup, where the device settings can be adjusted from a safe position on the ground.

Internet access is required at login, but once authenticated the Secure Browser remains authorised for up to 24 hours, supporting roadside configuration where mobile coverage may be unavailable.

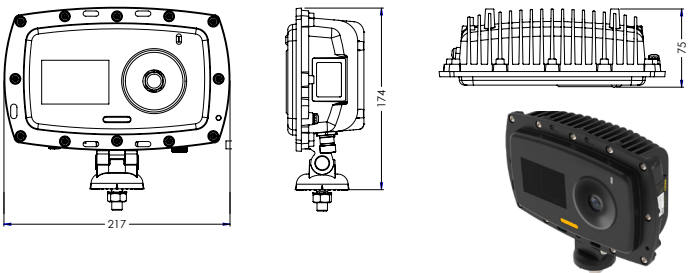


AGD Quick zone tool

PRODUCT SPECIFICATION

Description	AI Pedestrian and VRU Detector
Technology	AGD Optical Vision with AI
Detection Zone	10m x 3m (polygon with up to 30 points)
Mounting Height	3-5m (3.5m nominal)
Power Supply	24V ac/dc or PoE
Power	7W
Wi-Fi Frequency/Power	2412-2472 MHz Highest EIRP power in the range (dBm): 19.7'
Detect Output	Dual opto / Ethernet
LED Indication	LEDs for detect and Wi-Fi connection
Frame Rate	4Hz
Housing Material	Black polycarbonate / aluminium
Sealing	IP66
Operating Temp	-34°C to +74°C
Configuration	Secured AGD Touch-Setup
Low Light	Built-in IR for low light
Dimensions	W 217mm x D 75mm x H 174mm
Weight	1200g
Complies with	EMC: BS EN 50293:2012, EN 301 489-17, EN 301 489-1 Health & Safety: BS EN 62368-1, EN 50556, EN 62479 Spectrum: EN 300 328, FCC CFR47 Part 15.247, RSS-247 RoHS: EN 63000 Other: TOPAS 2507B

DIMENSIONS



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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