



# VEHICLE DETECTION

# DATA



## CW DOPPLER RADAR TECHNOLOGY



AGD 340

## TRAFFIC DETECTOR

### CW DOPPLER ENFORCEMENT RADAR

#### INTRODUCTION

This product has been designed specifically to measure the speed of passing vehicles for enforcement purposes. The detector is a CW Doppler radar which operates in the K-band (24GHz). It is able to discriminate between approaching and receding traffic.

#### DESCRIPTION

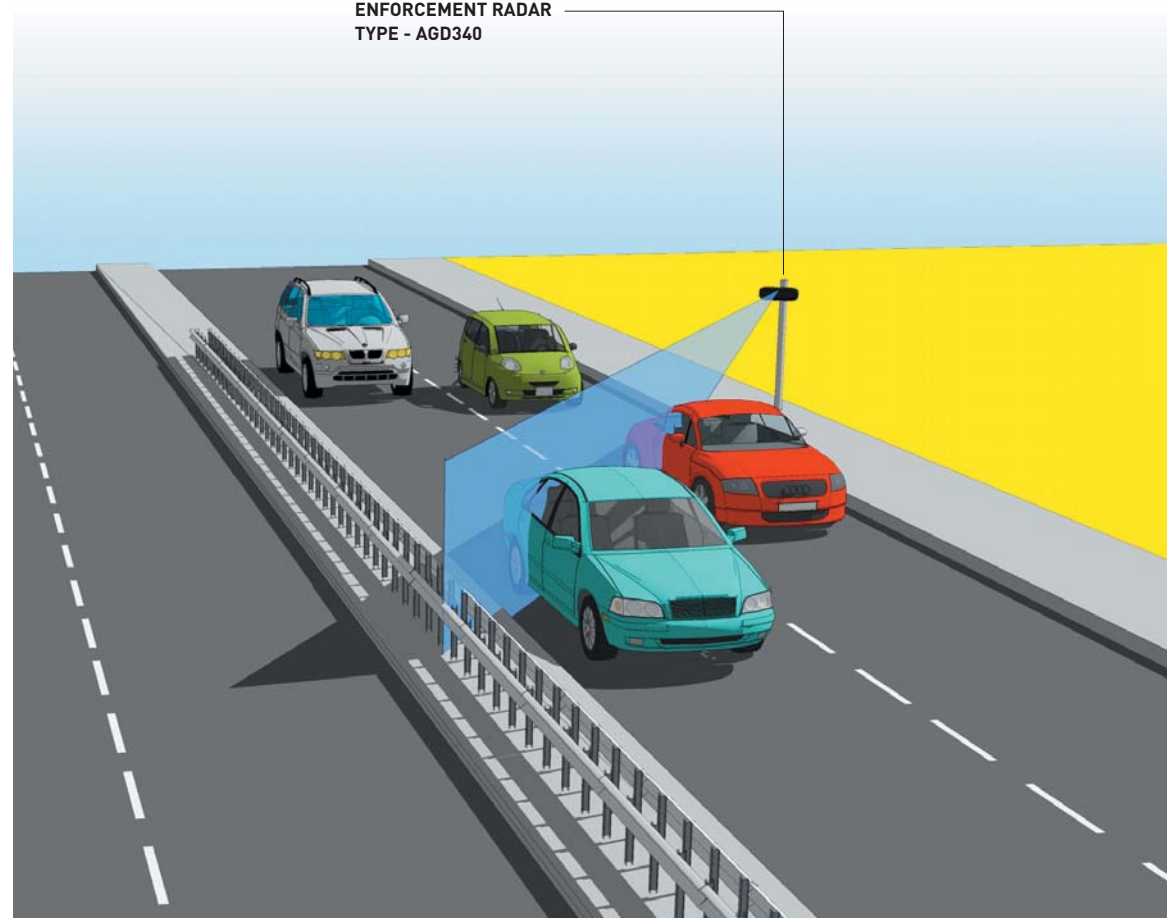
The AGD340 is a state of the art speed measuring radar specifically designed for speed enforcement applications. A number of special features have been designed in to the radar which make it suitable for many national requirements. The radar's antenna has been profiled for optimum performance when mounted in a roadside configuration.

The latest planar antenna and transceiver technology are used to give excellent signal to noise performance backed by a high speed 32 bit DSP processing platform to yield market leading speed measurement performance. The radar tracks and measures the speed of all passing targets and performs a precise measurement by way of Fast Fourier Transform processing which is then sent to the host system.

The radar has a high speed serial communications connection to the host equipment via which speeds of passing targets are passed. The detector also has built-in self-check features to ensure correct operation. The enclosure has been designed for stand-alone use or for integration into OEM equipment.

*(For gantry mount speed measurement radar please refer to AGD344 data sheet.)*

ENFORCEMENT RADAR  
TYPE - AGD340



APPLICATION: SPEED ENFORCEMENT





# VEHICLE DETECTION

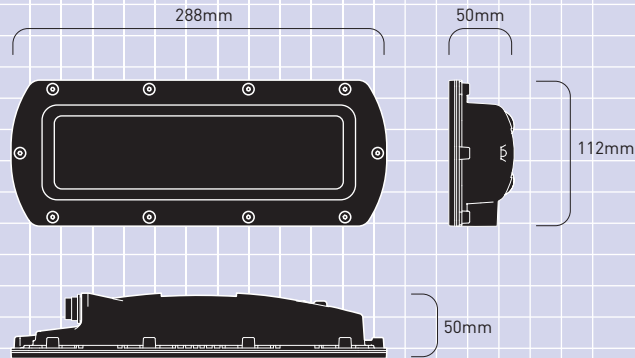
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## AGD 340 TRAFFIC DETECTOR

### DIMENSIONS



### SPECIFICATIONS

<b>Technology</b>	CW Doppler Radar
<b>Frequency</b>	K-band 24GHz (see option 1)
<b>Beam Width (HPBW)</b>	Horizontal 4.5 degrees Vertical 15 degrees
<b>Radiated Power</b>	<100mW eirp
<b>Mounting</b>	Flange Fixings or Tripod mount
<b>Mounting Height</b>	1 - 3.5m nominal
<b>Measurement Angle</b>	In the range 22 degrees
<b>Speed Detection Range</b>	20 - 300 Km/Hr
<b>Displacement Distance</b>	1m
<b>Speed Accuracy</b>	+/- 3Km/Hr (or +/- 1.5% whichever is greater)
<b>Supply</b>	9 - 30 V dc (power cables must be less than 3m)
<b>Current</b>	100mA (24V dc)
<b>Weight</b>	800g
<b>Housing Material</b>	Polycarbonate
<b>Housing Finish</b>	Self-coloured black
<b>Sealing</b>	IP66
<b>Operating Temperature</b>	-25° C to +60° C
<b>Output</b>	RS422
<b>EMC Specification</b>	EN301-489/BSEN50293
<b>Radio Specification</b>	ETS300.440 / FCC CFR47 Part 15.245 / AS/NZS 4268
<b>Highest Temp Humidity Combination</b>	50C 80%

### OPTIONS

1. Frequency option preset to suit local requirements between 24.000GHz and 24.250GHz.



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



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