



AGD640 FAQ'S

MOUNTING

What height should the AGD640 be mounted at?

The AGD640 should be mounted at a height of between 3-4 metres from the ground and at the recommended angle of declination indicated on the customer information sheet for correct operation and have no obstructions from adjacent Signal Head hoods, backing boards etc as this will impair detection performance.

Is there a recommended angle that the AGD640 should be installed at?

When first installing the AGD640 the tilt angle should be adjusted so that the triangular arrow marking on the housing is aligned with the vertical edge of the mounting foot. A diagram showing this optimum angle alignment can be found on the Customer Information Sheet and also in the Technical Advice Note document TAN23.

CONNECTIVITY

What methods can I use to connect to the AGD640 for set up?

There are two methods both made via a suitable Notebook PC. A direct 'Livewire' cable connection between the detector and PC, or connection can also be made via 'Bluetooth' between PC and detector using the recommended Bluetooth dongle.

When connecting to an AGD640 via Bluetooth, how do I know which detector I am connected to as there are more than one on site?

After searching for all available AGD640's on site via Bluetooth, a list will be populated. To connect to an AGD640 on this list, the detector should be highlighted with the mouse and the connect button should be clicked. A Blue LED will light up on the detector that you are trying to connect to and a window prompt will ask you if this is the right detector. If the Blue LED is not lit up on the detector of interest, simply click 'NO' on the prompt box and select another AGD640 to connect to.

Is it possible to connect to more than one AGD640 at a time using the Bluetooth Connection mode?

No, it is only possible to connect to one AGD640 at a time and the Blue LED on the unit that you are connected to will be lit to indicate this.

I have changed the Bluetooth name on my AGD640, but it doesn't seem to appear when I carry out another search afterwards. Why is that?

The Bluetooth name has been changed, however this will not normally be displayed until the AGD640 Livewire program is closed down and your PC is re-booted. This is due to the Microsoft Bluetooth protocols contained in Windows which can only handle limited device name changes. Once re-booted and the AGD640 Livewire software is re-started, the name change will be displayed when a further search of the AGD640 units is carried out.

DETECTION ZONES AND OPERATING MODES

How many zones can be set using the AGD640?

The AGD640 has only one zone of detection which can be set in two different modes of operation, 'Enhanced' or 'Standard'.

What is Enhanced Mode?

Enhanced Mode utilises the two cameras on board the AGD640 to build up a stereoscopic "3D" image within the set zone of detection to detect pedestrian height in the zone and determine a valid input demand. This mode of operation provides high levels of shadow rejection in the set zone compared with previous generations of product.

What is Standard Mode?

Standard Mode utilises only one of the cameras (which camera is in use can be set by the user) and whilst a larger zone can be set than in Enhanced Mode users should note that Standard Mode will not offer shadow rejection performance. Optimum performance in Standard operating mode can be achieved by selecting ASH mode.

FAQS



AGD640

What is the maximum zone size of the AGD640?

The AGD640 has two modes of operation, 'Enhanced' and 'Standard'. The zone sizes are up to 3 Metres x 2 Metres in Enhanced Mode and when Standard mode is deployed it can be optimised for larger zone sizes. For wider Toucan crossings AGD recommends deployment of an AGD640 at each end of the wide zone for optimum detection performance.

How do I know if my AGD640 is in Enhanced or Standard mode?

When you connect to the detector using the AGD640 Livewire Software, the zone is downloaded and displayed. At the bottom left hand side of this screen, text will tell you which mode of operation the detector is currently in.

I have a zone of 5 Metres in length and need to use two AGD640's on two signal poles (one at each end of zone) to cover this area. Will the two AGD640's interact or crosstalk with each other if the zones overlap in the middle?

The AGD640 is a Vision Detector and does not transmit any RF signal, so having zones overlapping from two separate units will not make them interact with each other.

What is ASH Mode?

ASH Mode or Adaptive Shadow Heuristics mode has been specifically designed for use when the Standard Mode of the AGD640 Kerbside Detector is in use to limit environmental factors influencing the detector through visible/non-visible changes in light/shadows etc and enhance the detection performance. This function can be activated when the AGD640 is in Standard mode only. Please refer to TAN13 Section 5 for further information.

I only have one Signal Pole to mount an AGD640 to and want to utilise the Enhanced Mode feature to detect pedestrians in a zone size of more than 3 metres x 2 metres. Can I mount two AGD640's on this signal pole and set one of them up to cover the recommended enhanced area zone of 3m x 2m and the other to cover the extended length beyond 3 metres?

No, it is not possible to cover a zone of more than 3 metres in length in the Enhanced mode of operation by using two AGD640's from the same mounting position. The Enhanced mode detection will only support height detection of pedestrians in zones of up to 3 metres in length away from the mounting position.

Can I re-calibrate the cameras on the AGD640 before I set up the zone of detection, or can this be done afterwards?

Re-calibration of the cameras during set-up is recommended following zone set-up and after any subsequent adjustments have been made. This operation can however be performed at any time in the set-up process and will not affect any other parameters or settings already made.

What is the minimum height that the AGD640 will detect someone standing in the zone?

The AGD640 will detect any pedestrian from 1.0 Metre in height upwards as specified in HA Specification TR 2507.

MISCELLANEOUS AND POWER RATING

Can the AGD640 be used in low light levels and at night?

Yes the AGD640 employs infra-red LED illumination of the zone to enable it to be used at nighttime and in very low light conditions to maintain full detection of pedestrians in the zone at all times of day (24hrs).

Can the AGD640's detect LED be switched off at night?

Yes, the detect LED can be switched off via the Tools/Settings tab of the AGD640 Livewire software.

What is the current consumption of the AGD640?

The current consumption of the AGD640 is 180Ma @24Vac.

What is the Elexon code for the AGD640?

The Elexon code for the AGD640 is:- 79 52 003 001 100

Users are recommended also to refer to technical advice notes TAN13 Section 5 'Ash Mode' and TAN23 'Connection and Configuration' for further information.