

# Guardall V12

The Guardall V12 is a 15m Passive Infrared (PIR) detector which utilises the revolutionary “Dual-Hex” verification technology. This is the result of an intensive research & development project set with the task of significantly reducing false alarms in the Industry. Guardall – the manufacturer who brought out the World’s first commercial PIR – have taken intruder detection to a new level of capability.

## End-User Benefits

One of the main concerns of end-users of PIR detectors is “when the detector alarms, do I really have an intruder?” A number of external and internal factors can lead to false alarms in certain detectors – eradicating these factors is the main competitive advantage of the Guardall V12. The technology in the detector has been designed specifically to **verify** an intruder signal and to eliminate potential false alarm signals such as internal noise.

The unit also has a number of product features listed over the page which are built in as standard to ensure reliability of the unit and user friendliness.

The look and feel of the detector has also been designed with domestic installation in mind such that it is small and unobtrusive as well as being aesthetically pleasing.

## Installer Benefits

The main benefit for the installer is again the Guardall V12’s level of immunity to false alarms. The Guardall V12’s use of ‘Dual-Hex’ technology takes the PIR a significant step beyond quad system detectors. With 12 pyro elements – in two groups of 6 – and a custom designed Application Specific Integrated Circuit (ASIC) the detector is able to **verify** signals on both amplifier channels as being an exact match. The principal allows a very high degree of false alarms to be eliminated – signals which could evade quad technology.

The detector itself is focused on the needs of installers with installation easy and straightforward. A number of features of the product are mentioned over the page which highlight the quality of the detector and its ease of use and setting.

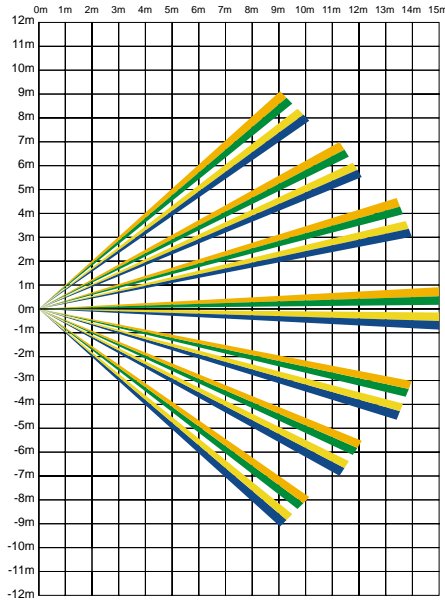


**Guardall** • **V**SERIES

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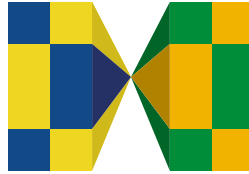
SUPPLIER/INSTALLER

## COVERAGE

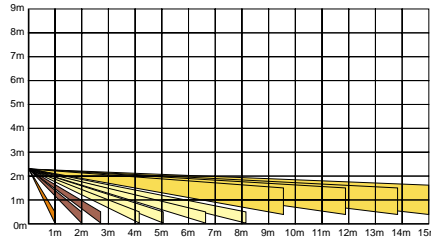


Volumetric Plan elevation

## DUAL-HEX TECHNOLOGY



- 12 pyro element detection pattern in each zone
- 216 detection points over 15m area
- 2 amplifier channels requiring exact match for verification



Volumetric Side elevation

## ORDERING INFORMATION

W73525	Guardall V12	15m Volumetric
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## ACCESSORIES

W73767	Corridor and curtain lens pack (1 of each)
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## SPECIFICATION

<b>Power</b>	Voltage Current Max. Ripple	9.0V – 16.0V dc 12mA typical at 12V dc 2V peak to peak 12V dc
<b>Alarm Output</b>		Normally closed voltage free reed relay contacts. Rated at 24V, 50mA dc with 10 Ohm series protection resistor
<b>Alarm period</b>		Approximately 3 seconds
<b>Tamper output</b>		Normally closed voltage free switch contact. Rated at 30V, 50mA dc
<b>Temperature range</b>		-10°C to 55°C
<b>Coverage adjustment</b>		+3° to -11° vertically +5° horizontally when corner mounted
<b>Walk test LED</b>		Internal switch to enable
<b>Pulse count</b>		Internal switch enable (factory enabled)
<b>Remote LED enable</b>		Remote control of unit alarm LED via test line
<b>Packed weight</b>		100g (approximately)
<b>Dimensions (H x W x D)</b>		98 x 69 x 48mm (approximately)

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### PRODUCT FEATURES-

The detector offers a number of features and benefits over and above its high quality detection performance and false alarm immunity:

- A self-test is initiated approximately once every 30 minutes.
- Built in switchable end-of-line resistors for easy interaction with Guardall control panels.
- DIL switch makes option selection easy.
- Robust, quality enclosure which resists the strictest shock tests without false alarming or damage to the unit's functionality.
- Sealed optics – insect and dust tight beyond the requirements of IP4X.
- Tamper switch (enclosure and 'off the wall').
- Sneak lens.
- Temperature compensation while preventing over sensitivity at high temperatures.
- Low supply monitor – the detector gives a warning of low supply without giving an alarm condition.
- Selectable pulse count.
- Selectable PIR range.

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