

# Guardall V12AM

The Guardall V12AM is a high security 15m Passive Infra Red detector with Anti-Masking. All V Series detectors incorporate Guardall's 'Dual-Hex' technology – the results of an intensive research and development programme directed towards reducing false alarms through use of genuinely new technology. Guardall – the company who brought out the World's first commercial PIR detector – have now taken intruder detection to a new level of capability.



## End-User Benefits

The new 'Dual-Hex' technology takes the Guardall V12AM above and beyond quad systems. As opposed to 4 pyro elements in the detector – the Guardall V12AM has 12. The main benefits of the unit, through the use of 12 pyro elements and custom designed ASIC, is its immunity to false alarms. An **exact** match is required on both amplifier channels with 'spikes' on either channel (e.g. internal noise) eradicated as a potential alarm through the **verification** process. Solid state relays mean that the unit is extremely reliable with no noise or mechanical moving parts and the detector cannot be compromised by external magnets. Coupled with market leading Anti-Mask technology, the Guardall V12AM leaves other PIRs standing when it comes to the peace of mind of the end-user.

## Installer Benefits

The main benefit for the installer is the V12AM's unsurpassed resistance to false alarms through use of new technology specifically designed to meet this aim. Ease of installation is a much quoted advantage on many detectors – the Guardall V12AM is genuinely installer focused, and the product incorporates design and features from feedback Guardall received from installation companies. This means the Guardall V12AM has been designed to make installation simple and trouble-free.

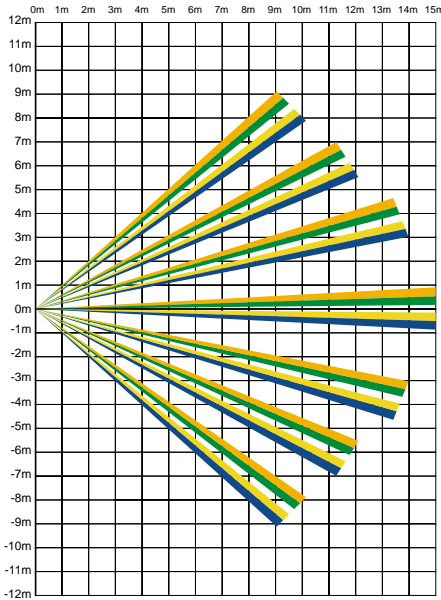


**Guardall** • **V** SERIES

# Guardall V12AM

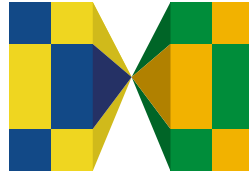
SUPPLIER/INSTALLER

## COVERAGE

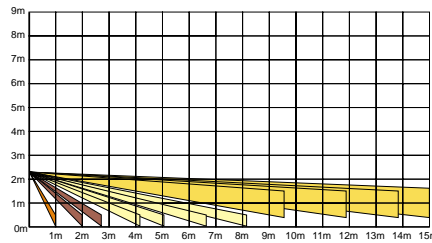


Volumetric Plan elevation

## 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

W73526

Guardall V12AM

15m Volumetric

## ACCESSORIES

W73767

Corridor and curtain lens pack (1 of each)

## SPECIFICATION

<b>Power</b>	Voltage Current Max. Ripple	9.0V – 16.0V dc 18mA typical at 12V dc 2V peak to peak at 12V dc
<b>Alarm Output</b>		Normally closed voltage free solid state relay contacts. Rated at 30V,50mA dc with 10 Ohm series protection resistor
<b>Alarm period</b>		Approximately 3 seconds
<b>Auxiliary Output</b>		Normally closed voltage free solid state relay contacts. Rated at 30V,50mA dc with 10 Ohm series protection resistor
<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>Latching</b>		Memorised alarm display through LED
<b>Packed weight</b>		155g (approximately)
<b>Dimensions (H x W x D)</b>		118 x 81 x 52mm (approximately)

## Guardall V12AM

### PRODUCT FEATURES-

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

- The highest quality active IR Anti-Mask in the industry which will detect metal, paper, sprays, lacquers and paint obstructions.
- Separate isolated solid state relay output for fault and Anti-Mask.
- Solid state relays improve reliability, eliminate noise and cannot be compromised by magnets.
- Periodic calibration – approximately once every minute the mask circuitry checks for the effects of dust build up, temperature and ageing and compensates accordingly.
- Selectable Anti-Mask sensitivity.
- Built in switchable end-of-line resistors for easy interaction with Guardall control panels.
- DIL switch makes option selection easy.
- Selectable Standard and High Security operating modes.
- Selectable pulse count.
- Selectable PIR range.
- 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.
- A self-test is initiated approximately once every 30 minutes or, alternatively, generated by the user.
- Low supply monitor – the detector gives a warning of low supply without giving an alarm condition.
- Option for latching (alarm memory).

### Guardall Limited

Lochend Industrial Estate  
Newbridge, Edinburgh, UK EH28 8PL  
Tel: 0131 333 2900 Fax: 0131 333 4919  
Web Site: [www.guardall.co.uk](http://www.guardall.co.uk)

Technical Helpline: +44 (0) 131 333 3802  
Sales: +44 (0) 131 333 4666