

## DD 300 Plus Series

## Dual Technology Detectors

ARITECH

- Now upgraded to 12 m and 7 curtains
- High performance PIR verified by a novel «Distance of Motion» technique
- 7 Autofocus curtains of detection formed by precision optics
- «3D» signal processing
- True range control
- On-site selection of coverage pattern
- Walk test of each detection method plus verified alarms
- Remote enable/disable of walk test LED
- Alarm memory version



### → Distance of Motion Verification

The DD 300 Plus Series are dual technology detectors based on a high quality PIR verified by a novel «Distance of Motion» (DoM) measurement technique. This technique uses ultrasonic technology to measure the distance travelled by the target and its accuracy is not significantly effected by the distance of the target from the detector. The result is a family of detectors with sharp detection characteristics and excellent rejection of traditional false alarm sources.

### → Seven Autofocus Curtains

The precision optics are based on Aritech's patented gliding focus curtain design which allows true range control to be obtained, together with undercrawl capability. The Autofocus capability of the curtains addresses the issue of «hot spots» in the coverage of the PIR which can degrade the false alarm rejection performance of detectors using conventional «beam» optics. The curtain optics provide uniform sensitivity along the field of view whereas traditional beam optics provide areas of high local sensitivity.

### → «3D» Signal Processing

This product family uses Aritech's «3D» signal processing to ensure optimum performance. «3D» processing intelligently analyses signal patterns to distinguish between human movement and false alarm hazards. The signal processor has been created in an ASIC (custom designed chip) to provide the highest levels of reliability and immunity to effects such as radio interference. When coupled with DoM processing, a detector of the highest integrity is obtained.

### → True Range Control

In the DD 300 Plus Series, the detection range of both the PIR and the DoM detectors are adjusted together, optimising the detector against false alarm rejection capability of the detector in rooms of various sizes. This gives significant performance improvements over conventional dual technology products which offer limited, or no control over range. With such products, there is the risk of excessive sensitivity which counters the basic objective of reducing false alarms.

### → On Site Selection Of Coverage Pattern

In addition to control over detection range, the field of view of the detector can be modified on-site to match the requirements of the installation. This is achieved by a masking piece which can be used to modify the coverage pattern of the PIR.

### → Walk Test LED

To simplify installation and problem solving, the walk test LED can be selected to indicate the output from the PIR channel, DoM channel or the verified alarm output. Remote control of this LED is also supported.

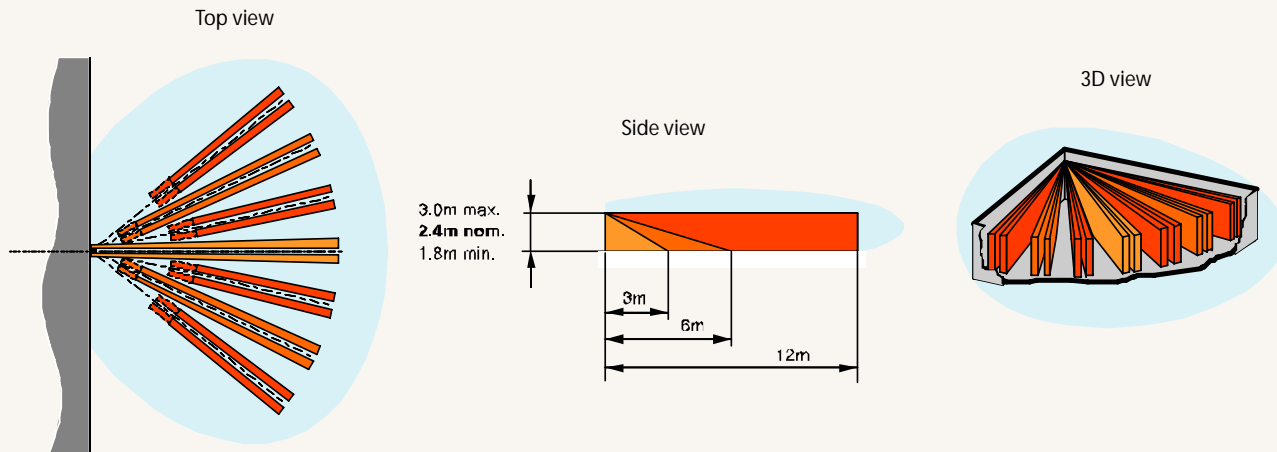
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## DD 300 Plus Series

### → Technical data

Supply voltage	10 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc	
Current consumption	<b>DD 325/335 Plus</b>	<b>DD 326/336 Plus</b>
Normal operation	14 mA	18 mA
In alarm, LED on	18 mA	22 mA
Outputs		
Alarm	NC (DD 325/335 Plus) or changeover (DD 326/336 Plus); contacts rated, 100 mA at 28 V dc	
Tamper	NC Contact ,rated 100 mA at 28 V dc	
Coverage	12 m; adjustable to 5, 8 and 12 m	
Mounting height	1.8 to 2.4 m	
Environmental limits	-10° to +55°C; Relative humidity max. 90%	
Dimensions	124 x 72 x 56 mm	

### → Detection patterns



### → How to order

DD 325 Plus	Dual technology detector, 12 metre range, NC contact
DD 326 Plus	As DD 325 Plus with changeover contact
DD 335 Plus	As DD 325 Plus with alarm memory
DD 336 Plus	As DD 326 Plus with alarm memory
ST 400	Pry-off tamper kit
CM115	Ceiling mount bracket

**Interlogix UK Limited**  
 Unit 5, Ashton Gate,  
 Ashton Road, Harold Hill,  
 Romford, Essex RM3 8UF  
 Tel. 01708-381496  
 Fax 01708-381371

**Interlogix Ireland Limited**  
 Taurus Business Centre  
 Greenhills Road  
 Tallaght, Dublin 24  
 Tel. 01-459.97.60  
 Fax 01-452.74.48

**Interlogix Europe & Africa**  
 Headquarters  
 Excelsiorlaan 28  
 B-1930 Zaventem  
 Tel. 02-725 11 20  
 Fax 02-721 40 47

**Sales Offices :** Austria, Baltic States, Belgium, Czech Republic, Denmark, Eastern Europe, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Slovak Republic, South Africa, Spain, Sweden, U.K.

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