

# DD497AM

20m volumetric dual/AM  
motion sensor

## OVERVIEW

The DD497AM series are 20 meter dual technology anti-masking detectors. They utilize the features of all Interlogix's Aritech PIR's, including sealed Gliding Focus Mirrors, high quality microwave technology, the latest 4D signal processing and unique anti-masking protection. Twin Opposed Antennae ensure a better signal to noise ratio and better microwave direction.

The DD497AM features Interlogix's unique patented anti-masking technology which makes innovative use of Active Infrared (AIR) and light guides in the detection of masking attempts. The light guides allow the AIR to safeguard both the PIR and Microwave technologies ensuring maximum confidence that the detector is operating correctly. Even the most sophisticated masking attempts made to disable the detector, using a wide range of materials, are automatically reported to the control panel. As a further level of confidence, the DD497AM performs its own regular self-test of the PIR and Anti-Masking functions, again reporting any discrepancy automatically to the control panel.

The DD497AM also features solid curtains of detection. Full undercrawl protection gives maximum security while the special characteristics of the "gliding curtain" ensure not only better intruder detection but also better PIR stability from the environment including tolerance for wall angle deviation. The DD497AM series is able to adjust both PIR and Microwave channels to its environment for better stability.

The DD497AM features Distance of Motion (DoM) Processing. This proprietary microwave processing converts the analogue signal into a digital one where the custom ASIC can effectively measure the distance travelled by the intruder, irrespective of the intruders speed or distance from the detector. This gives a significantly more uniform microwave signal over the entire protected area.



The DD497AM utilises the latest generation of 4D PIR processing. 4D processing allows the PIR channel to intelligently analyse a signal pattern and distinguish between real human movement and false alarm hazards. The PIR channel in it's own right is resistant to false alarms by analysing the size, shape and speed of successive signals. The "Moving Pole Filters" recently added to the 4D processing ensures real immunity to traditionally harsh environments. The end result is products with sharp detection and excellent false alarm immunity.

## FEATURES

- PIR verified by microwave module
- Anti Masking for all masking attempts
- "Step & Gliding Focus Multi Curtain" mirror optic
- Plug-in electronics and sealed optics
- ASIC with "4D" processing
- Distance of Motion microwave signal processing
- Microwave switched off when the system is disarmed (PIR only)
- Selectable range with full undercrawl detection
- Selectable AM reporting and resetting
- No adjustment required for different mounting heights
- Operation and reporting are easily field programmable.
- Tolerates wall angle deviation
- Pry-off and cover tamper
- Complies with EN50131-2-2

# DD497AM

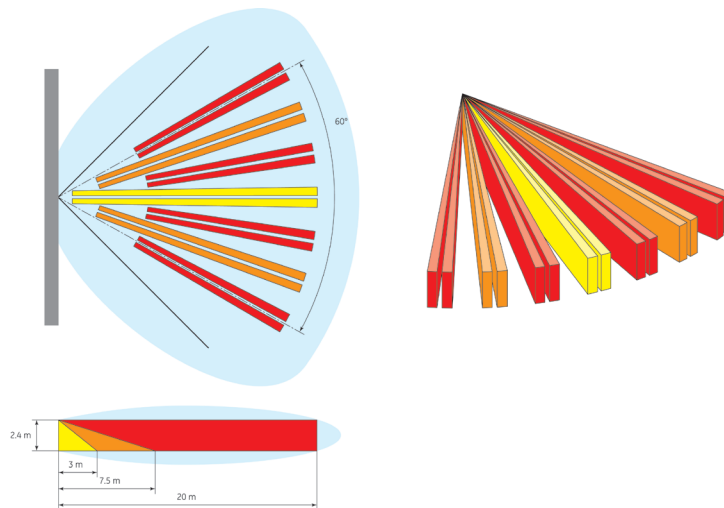
Interlogix  
National Sales Enquiries  
1300 361 479

271-273 Wellington Road  
Mulgrave Vic 3170  
T +61 3 9239 1200  
F +61 3 9239 1298

## 20m volumetric dual/AM motion sensor

### SPECIFICATIONS

Detection range	20m
Undercrawl protection	Yes
Detection range selection	20m or 12m
Coverage field of view	60° with 7 curtains
Coverage pattern selection	Blinders and curtain labels
Mounting height	1.8 to 3.0 m
Power supply	9 to 15 VDC
Current consumption (nom.)	13 mA
Alarm relay (voltage free)	NC when energised
Tamper relay (voltage free)	NC when cover closed
AM relay (voltage free)	NC when no AM
Relay configuration	Isolated or 4k7 EOL
Remote control lines	Walk test & Day-Night
Alarm memory	Yes
Microwave frequency (nom.)	2410 MHz
PIR only mode	When disarmed
Dimensions (W x H x D)	78 x 140 x 68 mm
Ambient conditions	-10 to +55°C; 95% relative humidity
Pry-off tamper	Yes
EN50131-2-2	Grade 3



### ORDERING INFORMATION

DD497AM	Dual/AM Detector with 7 curtains of 20 m NC Relay
DD498AM	Dual/AM Detector with 7 curtains of 20 m CO Relay
SB01	Wall/ceiling mount bracket ( $\pm 45^\circ$ horizontal, $0^\circ$ or $-5^\circ$ vertical)

Specifications subject to change without notice.

Copyright © 2014 UTC Fire & Security Australia Pty Ltd.  
All rights reserved.

UTC Fire & Security Australia Pty Ltd trading as Interlogix is a UTC Building and Industrial Systems company.



DD497AM-DS-140122-5