

Mirage Dual Technology

COMBINED MICROWAVE & PIR DETECTOR

**ESIA
GOLD
AWARD**

THE EUROPEAN SECURITY
INDUSTRY INNOVATION
AWARDS



The new *Mirage Dual Technology* detector builds on the phenomenal success of the original award-winning *Mirage*. All areas of the electronics design have been upgraded, from the new state-of-the-art PCB antenna with patented harmonic filtering techniques, to the advanced microprocessor core utilising complex software algorithms for ultimate responsiveness and reliability. With triple independent LEDs and fully adjustable microwave range, the *Mirage Dual Technology* detector provides outstanding catch performance however harsh the environment.

Outstanding features include:

- ✓ STATE-OF-THE-ART PCB ANTENNA
- ✓ FULLY ADJUSTABLE MICROWAVE RANGE
- ✓ 3 LED INDICATION
- ✓ DIGITAL TEMPERATURE COMPENSATION
- ✓ PATENTED TAMPER-PROOF BRACKETS WITH CABLE FEED-THROUGH
- ✓ LATCH & FTA (FIRST TO ALARM) INDICATION
- ✓ SURFACE MOUNT TECHNOLOGY (SMT)
- ✓ NEURAL BASED ENVIRONMENT LEARNING
- ✓ REMOTE LED DISABLE
- ✓ FUZZY LOGIC SIGNAL ANALYSIS

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MIRAGE DT FEATURES



3 LED Indication

Award-Winning Design

Texcom's *Mirage Dual Technology* detector, winner of the EASEM Gold Award for Innovation, has been significantly upgraded and improved. The new state-of-the-art PCB antenna provides improved microwave pickup coupled with a more clearly defined detection area. To further aid installation the microwave range is now fully adjustable allowing precise coverage set-up.

At the heart of the *Mirage* lies an advanced microprocessor. Neural based environment learning provides the detector with real intelligence, enabling the PIR circuitry to continually monitor the installation. This adjusts the detection criteria to ensure optimum catch performance while maintaining maximum false alarm immunity.



Proprietary PCB Antenna



Patented Tamper-Proof Brackets with Cable Feed-through

Digital Temperature Compensation

The digital temperature compensation ensures that the Fuzzy Logic signature algorithms most suited to that particular environment are employed. If the environment changes then so do the signal processing algorithms. This technique, unique to Texcom, ensures superb performance even in the hottest of climates.

Additional inputs have also been added to further assist the installation engineer. The RLED (Remote LED Disable) input allows the walk test LED to be disabled from the control panel. The LA (Latch) input allows the detector to give both latching and first to alarm indications, a feature which is particularly useful when there are multiple detectors on a zone.



Adjustable Mounting Height



Slim, Low Profile Design

Specifications

Range:	12m (40 feet), 104° volumetric coverage
Supply Voltage:	9 - 16Vdc
Current Consumption:	20mA typical at 12Vdc
Alarm Output:	Normally closed (failsafe) voltage free relay contacts. Rated at 24Vdc, 50mA protected by 18Ω series resistor.
Dimensions:	90mm x 63mm x 40mm
Packed Weight:	125g (4.5oz) approx.
EMC:	Independently certified to EN50130-4 : 1996
Design:	Noise reduction circuits with maximum ground plane.
RF Immunity:	No false alarms from 80MHz to 1GHz at 50V/m modulated.



Sealed Optics

European Standards

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).
Approved to BS EN 55022 Class B and BS EN 50130-4 : 1996.

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.

MIRAGE SERIES

Mirage Dual Technology



Dual technology state-of-the-art microwave & PIR detector. Fully adjustable microwave range, digital temperature compensation & neural based learning ensures optimum performance in any environment

Mirage DT Petwise



Pet immune dual technology detector. IR beam shaping coupled with microprocessor analysis of both PIR & microwave signals allows reliable pet immunity of up to 100 lbs (45kg).

Mirage Quad



Advanced quad element PIR with superior surface mount signal processing. Excellent stability in harsh environments whilst maintaining catch performance.

Texcom products are protected by UK and International patents, trademarks and registered design rights. *Mirage* is a trademark of Texcom Ltd.

UK Registered Design Nos. 2036936, 2036937, 2036938. UK Patent No. 2285915

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