

The image shows a white, dome-shaped security detector with a series of horizontal slats on its front. The background is a light blue gradient.

# ***Mirage*** Dual Technology

## Microwave & PIR Detector

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

- State-of-the-art PCB Antenna
- Fully Adjustable Microwave Range
- 3 LED Indication
- Digital Temperature Compensation
- Patented Tamper-proof Brackets With Cable
- Latch & FTA (First To Alarm) Indication
- Surface Mount Technology (SMT)
- Neural Based Environment Learning
- Remote Led Disable
- Fuzzy Logic Signal Analysis

**Texecom**  
Designed to Perform



## 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.

## 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.

### Mirage DT 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:	116mm x 66mm x 41mm
Packed Weight:	190g (7oz) 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

## European Standards

EMC: 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.

PD 6662 & EN 50131 Grade 2 Environmental Class II.

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection. Texcom products are protected by UK and International patents, trademarks and registered design rights.

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