

# *Mirage* Dual Technology LOOK NO FURTHER

EASEM

**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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28 page full colour Product Guide.

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## AWARD-WINNING DESIGN

## SPECIFICATION

Texecom'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.

The surface mount PIR circuitry has also been upgraded and improved to give even more detailed signal processing algorithms. These ensure the best ever signal analysis and false alarm immunity. **Three** highly visible **LED** indicators are now included as standard to show MW, PIR and Alarm activations.

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 Texecom, 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.

When all of these features are combined with incredible RF immunity at an extremely attractive price, the result is a dual technology detector with an unparalleled specification.

## ELECTRICAL

**Voltage** 10 - 16Vdc.

**Current** 20mA typical at 12Vdc.

**Maximum Ripple** 2Vpp at 12Vdc (50 - 120Hz sinusoidal).

**Alarm Output** Normally closed (failsafe) voltage free relay contacts. Rated at 24Vdc, 50mA protected by 18Ω series resistor.

**Tamper Output** Normally closed voltage free switch contacts. Rated at 24Vdc, 50mA.

**Alarm Period** 2 - 3 seconds typical.

**Walk Test LED** Internal link to enable/disable.

**Remote LED Disable** Switched input between 0V and 12Vdc (16V max).

**Latch Input** Switched input between 0V and 12Vdc (16V max).

**Detection Method** Passive Infrared and Microwave Doppler.

**Pyro-Electric Detector** Dual element, low noise.

**Microwave Doppler** S-Band (2.45GHz) Microwave PCB antenna. Complies with I-ETS 300 440 and FCC Part 15.

**Power Density** <5mW EIRP.

## FALSE ALARM PROTECTION

**Design** Microprocessor based Fuzzy Logic signal analysis. Neural based environment learning. Noise reduction circuits.

**RF Immunity** No false alarm from 80MHz to 1GHz at 50V/m modulated, equivalent to a 700W uniform transmitter at 3m (10ft). Complies with BS EN 61000-4-3 : 1997.

**Electrostatic Discharge** No false alarm up to 8kV. Complies with BS EN 61000-4-2 : 1995.

**Fast Transient Immunity** No false alarm up to ±4kV. Complies with BS EN 61000-4-4 : 1995.

**High Energy Transient Immunity** No false alarm up to ±2kV. Complies with BS EN 61000-4-5 : 1995.

**Conducted RF Susceptibility** No false alarm at 10Vrms. Complies with BS EN 61000-4-6 : 1995.

**Conducted Emissions** Complies with EN 55022 Class B.

**Radiated Emissions** Complies with EN 55022 Class B.

**Pulse Count** Adjustable Digital & Analogue Pulse Count.

## ENVIRONMENTAL

**Operating Temperature** -10°C (+14°F) to +55°C (+131°F).

**Temperature Compensation** Microprocessor controlled digital temperature compensation.

**Temperature Tolerance** No false alarm up to 1.7°C/minute (3°F/minute).

**Maximum Humidity** 95% non-condensing.

**Storage Temperature** -20°C (-4°F) to +60°C (+140°F).

**EMC Environment** Residential/Commercial/Light Industrial and Industrial.

## PHYSICAL

**Mounting** Corner or wall mount (without mounting bracket). Optional ceiling and wall mount brackets supplied as standard with adjustment range ±30° horizontal, -30° vertical. Mounting height up to 4.1m (13'6").

**Casing** 2.5mm (0.1") wall thickness in flame retardant ABS. Designer white with super-white lens.

**Dimensions** 90mm x 63mm x 40mm (3.6" x 2.5" x 1.6").

**Packed Weight** 125g (4.5oz) approx.

## COVERAGE

**Volumetric (standard)** 12m (40ft) range; 24 facets with look-down creep zones; 104° coverage producing a maximum width of 18.9m (62ft).

**Pet** 12m (40ft) range; 11 facets; 104° coverage producing a maximum width of 18.9m (62ft).

**Curtain** 12m (40ft) range; 11 facets; 6° coverage producing a maximum width of 1.3m (4ft).

## 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, BS EN 50130-4 : 1996 and ETS 300683.

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

## BEST MANUFACTURER 2000 & 1999

## INTRUDER ALARM MANUFACTURER OF THE YEAR 2001 & 2000

**1st** For offering the best quality products at the right prices

**1st** For reliability & responsiveness

**1st** For excellence in customer care & service

**1st** For providing a high level of support & servicing including training & help lines

**Mirage** Dual Technology

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