

Mirage DT Petwise

PET IMMUNE DUAL TECHNOLOGY DETECTOR

EASEM

ESIA
GOLD
AWARD

THE EUROPEAN SECURITY
INDUSTRY INNOVATION
AWARDS



Advanced digital technology, enhanced features and sleek styling make this detector special. The award-winning technology of the *Mirage DT Petwise* ensures exceptional catch performance whilst reliably ignoring animals of up to 100lbs (45kg). With an unrivalled specification, the *Mirage DT Petwise* takes pet immunity to a higher level - and beyond.

Outstanding features include:

- ✓ PATENTED 3D HOLOGRAPHIC OPTICAL TECHNOLOGY
- ✓ FULL COMPLIANCE WITH EN 50130-4
- ✓ FULLY ADJUSTABLE MICROWAVE RANGE
- ✓ DIGITAL TEMPERATURE COMPENSATION
- ✓ PATENTED TAMPER-PROOF BRACKETS WITH CABLE FEED-THROUGH
- ✓ 100lbs (45kg) ANIMAL IMMUNITY
- ✓ 1.5m - 3.1m ADJUSTABLE MOUNTING HEIGHT
- ✓ DIGITAL SIGNAL PROCESSING
- ✓ 3 LED INDICATION
- ✓ LATCH & FTA (FIRST TO ALARM) INDICATION

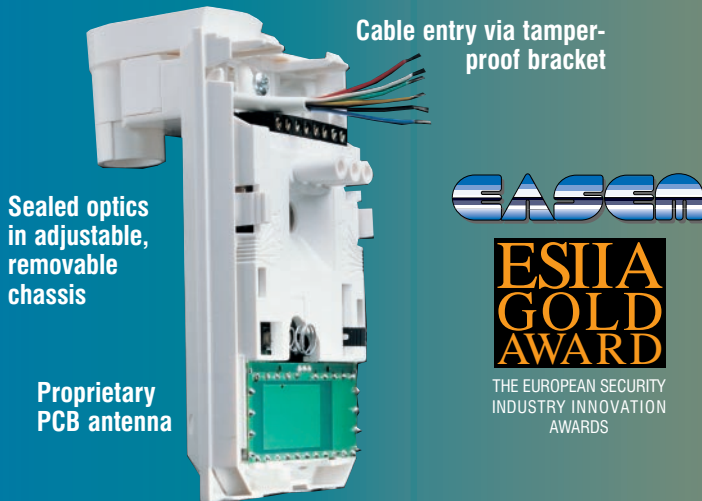
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AWARD-WINNING DIGITAL DESIGN

The *Mirage DT Petwise* features two separate award winning technologies providing immunity to animals up to 100lbs (45kg) even in the harshest of environments. The state-of-the-art microwave unit is based on Texecom's *Mirage Dual Technology* detector, winner of the EASEM Gold award for innovation. A new advanced **PCB antenna** gives improved microwave pickup and a more clearly defined detection area. To further aid installation the microwave range is fully adjustable allowing precise coverage set-up.



Cable entry via tamper-proof bracket

Sealed optics in adjustable, removable chassis

Proprietary PCB antenna

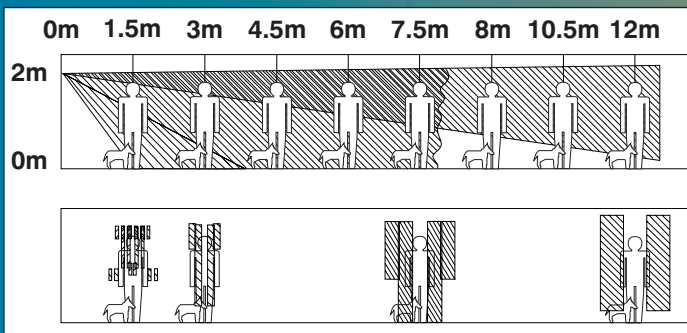


THE EUROPEAN SECURITY INDUSTRY INNOVATION AWARDS

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, adjusting detection criteria to ensure optimum catch performance while maintaining maximum false alarm immunity.

HOLOGRAPHIC OPTICAL TECHNOLOGY (HOTLens™)

For many years now PIR detectors have relied on mirrors or Fresnel lenses to focus IR. However, recent developments in laser technology have made it possible for Texecom to develop a system of optics based around diffractive structures. This award-winning technology can actually **filter** and **shape** the detection zones. This "beam shaping" allows the optical system to be tuned so that it is more sensitive to humans and less sensitive to animals.



As the *HOTLens* is diffractive (as opposed to refractive) only IR is focussed onto the pyro. This dramatically reduces the chance of false alarms due to sunlight, car headlights, spurious heat sources etc.

Mirage Series

Mirage DT Petwise
PET IMMUNE DUAL TECHNOLOGY DETECTOR

Mirage Dual Technology
MICROWAVE & PIR DETECTOR

Mirage Quad
GENUINE QUAD ELEMENT DETECTOR

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.

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).

FALSE ALARM PROTECTION

Design Microprocessor based Fuzzy Logic signal analysis. Neural based environment learning. Patented Holographic Optical Technology (*HOTLens*). 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 : 1996.

Conducted Emissions Complies with EN 55022 Class B.

Radiated Emissions Complies with EN 55022 Class B.

EMC Independently certified to EN 50130-4.

Pulse Count Multi Mode Pulse Count. Internal link to select.

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. Mounting height up to 3.1m (10'0").

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 160g (6oz) approx.

EUROPEAN STANDARDS

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).

Independently certified to EN 50130-4.

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



Certificate Number: FM 35285

EASEM

BSIA

British Security Industry Association



MDTPEU1