

# 3D-PetWise

## HOLOGRAPHIC PET IMMUNE PIR



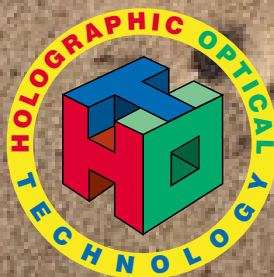
THANK YOU FOR VOTING TEXECOM



Widely regarded by our customers to out-perform all other pet immune detectors, the **3D-PetWise** can actually **see** the difference between humans and animals. The world's first genuine pet immune detector utilising Texecom's patented holographic optics incorporates unique infrared beam shaping technology. This ensures optimum sensitivity even in the lower zones resulting in totally reliable detection performance.

Outstanding features of the **3D-PetWise** include:

- ✓ PATENTED HOLOGRAPHIC OPTICAL TECHNOLOGY (*HOTLens*™)
- ✓ PATENTED TAMPER-PROOF MOUNTING BRACKETS
- ✓ INTRUDER CONFIRMATION CIRCUITRY (ICC™)
- ✓ 200V/m IMMUNITY TO MOBILE PHONES
- ✓ 80lbs (35kg) ANIMAL IMMUNITY (Eg. 1 x LABRADOR OR 7 x CATS)
- ✓ 1.5-3.1m ADJUSTABLE MOUNTING HEIGHT
- ✓ SURFACE MOUNT TECHNOLOGY (SMT)
- ✓ REMOTE LED DISABLE
- ✓ 65V/m RF IMMUNITY
- ✓ SEALED OPTICS

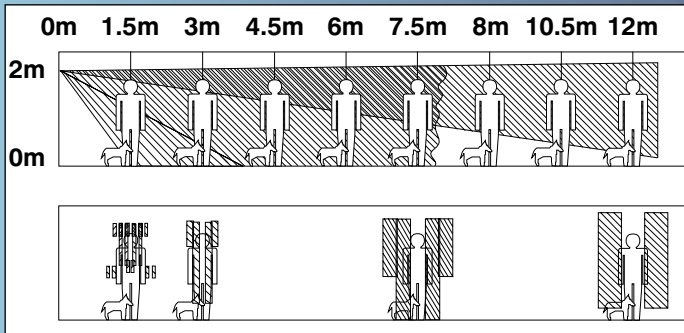


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## HOLOGRAPHIC OPTICAL TECHNOLOGY (HOTLens)

For many years now PIR detectors have relied on mirrors or Fresnel lenses to focus infrared. However, recent developments in laser technology have made it possible for Texecom to develop a system of optics based around diffractive structures. The *HOTLens* can not only focus infrared, it can also **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. When the *HOTLens* is combined with ICC™ (see below) the result is *the world's first genuine pet immune detector*.

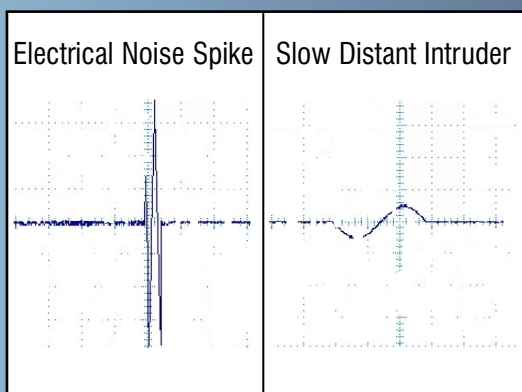


Because the *HOTLens* is diffractive (as opposed to refractive) **only** infrared is focused onto the pyro. This dramatically reduces the chance of false alarms due to sunlight, car headlights, spurious heat sources etc.

## INTRUDER CONFIRMATION CIRCUITRY (ICC™)

Historically there has always been a trade off between the false alarm immunity of PIRs and their catch performance. Texecom have overcome this problem with the invention of ICC™. This is a signal processing technique that can differentiate between large unwanted signals (eg. an electrical noise spike) and small genuine signals (eg. a slow moving, distant intruder).

Note: See how the <sup>3</sup>D-PetWise avoids false alarms but detects distant or slow moving intruders:



Conventional Pet Immune Detector:	False Alarm	Missed Detection
<sup>3</sup> D-PetWise:	No False Alarm	Detects

**3D Series**

**3D-PetWise**

PET IMMUNE DETECTOR WITH HOLOGRAPHIC OPTICAL TECHNOLOGY

**3D-Pro**

PIR DETECTOR WITH HOLOGRAPHIC OPTICAL TECHNOLOGY

**3D-Quad**

GENUINE QUAD DETECTOR WITH HOLOGRAPHIC OPTICAL TECHNOLOGY

## SPECIFICATION

### ELECTRICAL

**Voltage** 9 - 16V<sub>DC</sub>.

**Current** 10mA typical at 12V<sub>DC</sub>.

**Maximum Ripple** 2V<sub>pp</sub> at 12V<sub>DC</sub> (50 - 120Hz sinusoidal).

**Alarm Output** Normally closed (failsafe) voltage free relay contacts. Rated at 24V<sub>DC</sub>, 50mA protected by 18Ω series resistor.

**Tamper Output** Normally closed voltage free switch contacts. Rated at 24V<sub>DC</sub>, 50mA.

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

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

**Remote LED Disable** Switched input between 0V and 12V<sub>DC</sub>, (16V max).

**Detection Method** Passive infrared.

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

### ENVIRONMENTAL

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

**Temperature Compensation** Automatic.

**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.

### FALSE ALARM PROTECTION

**Design** Patented Holographic Optical Technology (*HOTLens*™).

Intruder Confirmation Circuitry (ICC™).

Noise reduction circuits and maximum ground plane.

**RF Immunity** No false alarms at 200V/m due to digital telephone disturbances

tested to DD ENV 50204 : 1996, at 900MHz; No false alarms from 80MHz to 1GHz at 65V/m modulated, equivalent to a 1200W uniform transmitter at 3m (10ft). Complies with EN 61000-4-3 : 1997.

**Electrostatic Discharge**

No false alarm up to ±8kV. Complies with EN 61000-4-2 : 1995.

**Fast Transient Immunity**

No false alarm up to ±4kV. Complies with EN 61000-4-4 : 1995.

**High Energy Transient Immunity**

No false alarm up to ±2kV. Complies with EN 61000-4-5 : 1995.

**Conducted RF Susceptibility**

No false alarm at 10Vrms. Complies with EN 61000-4-6 : 1996.

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

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

**Pulse Count** Adjustable Adaptive Pulse Count. Internal link to select.

### 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.

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

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

**Colour** Designer white with super-white lens.

### COVERAGE

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

### 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.

## 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

