ELLIPSE DETECTOR RANGE
SMART-SET-UP, EASY-TO-FIT, GREAT VALUE

Complete and consistent range of sensors for all your detection needs.

www.hikvision.com
PRODUCTS IN THE RANGE

**Ellipse PIR**
- Detection range: 18 m x 18 m, 85.9°
- Pet immune range 10 m
- 3D optics including creep-zone protection
- Low power consumption
- Smart Environmental Control (SEC) Technology
- Self adjusting sensitivity: plug & play
- Optional PET mask filter included in the packaging (10 kg)

**Ellipse DT**
- Detection range: 12 m x 12 m, 85.9°
- Up to 30 kg pet immunity
- Dual technology (PIR and Microwave)
- Non-interfering 24 GHz microwave technology
- 3D optics including creep-zone protection
- Low power consumption
- Smart Environmental Control (SEC) Technology
- Self adjusting sensitivity: plug & play

**Ellipse DT Anti-Mask**
- Detection range: 15 m, 85.9°
- Dual technology (combination PIR and Microwave)
- Up to 30 kg pet immunity
- 24 GHz microwave to prevent wall penetration
- Fixed anti masking range
- 3D optics including creep-zone protection
- Low power consumption
- Smart Environmental Control (SEC) Technology
- Self adjusting sensitivity: plug & play

**Ellipse Combi PIR-BG**
- PIR detection range: 12 m x 12 m, 85.9°
- Up to 30 kg pet immunity
- 8 m Dual Frequency Break-Glass Detection
- Directional BG with selectable 3 positions
- 3D optics including creep-zone protection
- Flex and shatter frequency detection
- Smart Environmental Control (SEC) Technology
- Self adjusting sensitivity: plug & play

**Ellipse 360° ceiling mount detector**
- Detection range: 12 m x 360° (4 m max installation height)
- Real interlocking Quad Sensor
- Max installation height 2.4 m to 4 m
- Smart Environmental Control (SEC) Technology
- Self adjusting sensitivity: plug & play
KEY FEATURES

The Ellipse range of detectors is the latest advancement in intruder detection technology from Hikvision. Utilising know-how built on years of experience, the Ellipse range utilises digital microprocessor technology and the latest advancements in intruder detection to bring a range of detectors which are of great value, highly reliable, and easy-to-fit.

**Smart Microwave Sensing Technology**

K-Band 24 GHz microwave technology used in DT and DTAM sensors provides benefits, including:

- **Digital temperature compensation** - Digitally adjusts its sensitivity to maintain its specified range when the background temperature is close to body temperature.
- **Automatic sensitivity** - The Ellipse self-adapts to changing environmental conditions to maintain stability and intruder catch performance.
- **3D optics** - Improves the detection of moving targets; ensuring more precise signals can be received from the PIR by enabling the perfect focusing of the infra-red signal onto the pyro-electric sensor; allowing SEC Technology to clearly identify the positive and negative signal edges.

**SEC (Smart Environmental Control) Technology**

Using advanced digital signal processing and 3D optics, this technology allows the Ellipse to safeguard against false alarms and improve immunity to interference, by perfectly adapting to its environment:

- **Digital temperature compensation** - Digitally adjusts its sensitivity to maintain its specified range when the background temperature is close to body temperature.
- **Automatic sensitivity** - The Ellipse self-adapts to changing environmental conditions to maintain stability and intruder catch performance.
- **3D optics** - Improves the detection of moving targets; ensuring more precise signals can be received from the PIR by enabling the perfect focusing of the infra-red signal onto the pyro-electric sensor; allowing SEC Technology to clearly identify the positive and negative signal edges.

**CREEP-ZONE PROTECTION**

Utilising 3D optics, the Ellipse even covers the blind spot area directly below it, where an intruder may have otherwise avoided detection.

**SELECTABLE EOL RESISTORS**

All detectors are equipped with selectable EOL resistors. Optimising its value, the Ellipse range incorporates selectable alarm resistor values of 1K, 2K2, 4K7, 5K6 and 6K8, as well as tamper resistance values of 1K, 2K2, 4K7 and 5K6; catering for most wired control panels on the market.
<table>
<thead>
<tr>
<th>Product</th>
<th>DS-PDP18-EG2</th>
<th>DS-PDC15-EG2</th>
<th>DS-PDD12P-EG2</th>
<th>DS-PDBG8-EG2</th>
<th>DS-PDSK-P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PIR</td>
<td>PIR Curtain</td>
<td>Dual-Tech</td>
<td>Glass Break</td>
<td>Shock</td>
</tr>
</tbody>
</table>

### Detection Method
- **Passive Infrared**
- **Passive Infrared**
- **Passive Infrared + Microwave**
- **Acoustic Sensor**
- **Piezoelectric Shock Sensor**

### Detection Range
- 18 m
- 15 m
- 12 m
- 8 m
- 2.5 m

### Detection Angle
- 85.9°
- 85.9°
- 120°
- 360°

### Detectable Speed
- 0.3 - 2 m/s
- 0.3 - 2 m/s
- 0.3 - 2 m/s
- N/A
- N/A

### Detects the frequency of glass flexing
- N/A
- N/A
- N/A
- ✓
- N/A

### Detects the frequency of glass breaking
- N/A
- N/A
- N/A
- ✓
- N/A

### Sensitivity
- High, Auto, Low
- Fixed
- Auto, Pet
- Potentiometer Adjustment
- Potentiometer Adjustment

### Pet Immunity
- 10 kg
- 30 kg
- N/A
- N/A

### White Light Filter
- 6500 lux
- 6500 lux
- 6500 lux
- N/A
- N/A

### Microwave Frequency
- N/A
- N/A
- 24 GHz (24.15-24.25 GHz)
- N/A
- N/A

### Digital Temperature Compensation
- ✓
- ✓
- ✓
- N/A
- N/A

### Creep Zone Protection
- ✓
- ✓
- ✓
- N/A
- N/A

### Digital Processing
- ✓
- ✓
- ✓
- N/A
- N/A

### Sealed Optics
- ✓
- ✓
- ✓
- N/A
- N/A

### Tamper Protection
- Front
- Front
- Front
- Front
- Front

### Alarm Output
- Normally Closed
- Normally Closed
- Normally Closed
- Normally Closed
- Normally Closed

### LED Indicator
- Blue (Alarm)
- Blue (Alarm)
- Green (PIR) Blue (Alarm)
- Red (High Frequency) Blue (Alarm)
- Blue (Alarm)

### Power Supply
- 9 to 16 VDC
- 9 to 16 VDC
- 9 to 16 VDC
- 9 to 16 VDC
- 9 to 16 VDC

### Typical Voltage
- 12 VDC
- 12 VDC
- 12 VDC
- 12 VDC
- 12 VDC

### Power Consumption
- 11 mA Max
- 11 mA Max
- 17 mA Max
- 25 mA Max
- 30 mA Max

### Operation Temperature
- -10 °C to 55 °C
- -10 °C to 55 °C
- -10 °C to 55 °C
- -10 °C to 55 °C
- -10 °C to 55 °C

### Storage Temperature
- -20 °C to 60 °C
- -20 °C to 60 °C
- -20 °C to 60 °C
- -20 °C to 60 °C
- -20 °C to 60 °C

### Operation Humidity
- 10% to 90%
- 10% to 90%
- 10% to 90%
- 10% to 90%
- 10% to 90%

### Dimension(WxHxD)
- 65.4 mm x 86.8 mm x 45.5 mm
- 65.4 mm x 86.8 mm x 45.5 mm
- 65.7 mm x 103.8 mm x 45.5 mm
- 38.8 mm × 107 mm × 22.5 mm
- 30 mm x 108 mm x 22 mm

### Weight
- 68 g
- 68 g
- 99 g
- 49.5 g
- 37.5 g

### Mounting Height
- 1.8 m to 2.4 m
- 2.4 m to 3.6 m
- 1.8 m to 2.4 m
- N/A
- N/A

### Mounting Method
- Wall
- Wall
- Wall
- Wall; Ceiling
- Wall; Ceiling

### Application Scenario
- Indoor
- Indoor
- Indoor
- Indoor
- Indoor

### Bracket
- Sold Separately
- Sold Separately
- Sold Separately
- None
- None

### Certifications
- CE, CB, FCC, RCM, EN Grade 2
- CE, CB, FCC, RCM, EN Grade 2
- CE, CB, FCC, RCM, EN Grade 2
- CE, CB, FCC, RCM, EN Grade 2
- CE, CB, FCC, RCM
<table>
<thead>
<tr>
<th>Product</th>
<th>PIR Ceiling</th>
<th>Dual-Tech Ceiling</th>
<th>Dual-Tech AM</th>
<th>PIR-Glass Break</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>DS-PDCL12-EG2</td>
<td>DS-PDCL12OM-EG2</td>
<td>DS-PDD15AM-EG2</td>
<td>DS-PDGP12P-EG2</td>
</tr>
<tr>
<td>Picture</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td>Coming soon</td>
</tr>
</tbody>
</table>

**Detection Method**
- Passive Infrared
- Passive Infrared + Microwave
- Passive Infrared + Microwave
- Passive Infrared + Acoustic Sensor

<table>
<thead>
<tr>
<th>Detection Range</th>
<th>12 m</th>
<th>12 m</th>
<th>15 m</th>
<th>12 m / 8 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Angle</td>
<td>360°</td>
<td>360°</td>
<td>85.9°</td>
<td>85.9°/120°</td>
</tr>
<tr>
<td>Detectable Speed</td>
<td>0.3 - 2 m/s</td>
<td>0.3 - 2 m/s</td>
<td>0.3 - 2 m/s</td>
<td>0.3 - 2 m/s</td>
</tr>
<tr>
<td>Detects the frequency of glass flexing</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>✓</td>
</tr>
<tr>
<td>Detects the frequency of glass breaking</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>✓</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Auto, Low</td>
<td>Auto, Low</td>
<td>Auto, Pet</td>
<td>Auto, Pet + Potentiometer Adjustment</td>
</tr>
<tr>
<td>Pet Immunity</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>White Light Filter</td>
<td>6500 lux</td>
<td>6500 lux</td>
<td>6500 lux</td>
<td>6500 lux</td>
</tr>
<tr>
<td>Microwave Frequency</td>
<td>N/A</td>
<td>24 GHz (24.15 - 24.25 GHz)</td>
<td>24 GHz (24.15 - 24.25 GHz)</td>
<td>N/A</td>
</tr>
<tr>
<td>Anti-Masking</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Anti-Cloaking</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Digital Temperature Compensation</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Creep Zone Protection</td>
<td>N/A</td>
<td>N/A</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Digital Processing</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Sealed Optics</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Tamper Protection</td>
<td>Front</td>
<td>Front</td>
<td>Front</td>
<td>Front</td>
</tr>
<tr>
<td>Alarm Output</td>
<td>Normally Closed</td>
<td>Normally Closed</td>
<td>Normally Closed</td>
<td>Normally Closed</td>
</tr>
</tbody>
</table>

**LED Indicator**
- Blue (Alarm)
- Green (PIR)
- Red (Microwave)
- Green+Orange (Mask)
- Blue (Alarm)
- Green (Top PIR)
- Red (Microwave)
- Green+Orange (Mask)
- Blue (Alarm)

**Power Supply**
- 9 to 16 VDC
- 9 to 16 VDC
- 9 to 16 VDC
- 9 to 16 VDC

**Typical Voltage**
- 12 VDC
- 12 VDC
- 12 VDC
- 12 VDC

**Operation Temperature**
- -10 °C to 55 °C
- -10 °C to 55 °C
- -10 °C to 55 °C
- -10 °C to 55 °C

**Storage Temperature**
- -20 °C to 60 °C
- -20 °C to 60 °C
- -20 °C to 60 °C
- -20 °C to 60 °C

**Operation Humidity**
- 10% to 90%
- 10% to 90%
- 10% to 90%
- 10% to 90%

**Dimension(WxHxD)**
- Ø101.2 mm x 32.9 mm
- Ø101.2 mm x 32.9 mm
- 65.7 mm x 103.8 mm x 45.5 mm
- 65.7 mm x 103.8 mm x 45.5 mm

**Mounting Height**
- 2.4 m to 4 m
- 2.4 m to 4 m
- 1.8 m to 2.4 m
- 1.8 m to 2.4 m

**Mounting Method**
- Ceiling
- Ceiling
- Wall
- Wall

**Application Scenario**
- Indoor
- Indoor
- Indoor
- Indoor

**Bracket**
- None
- None
- Sold Separately
- Sold Separately

**Certifications**
- CE, CB, FCC, RCM, EN Grade 2
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