



# ELLIPSE DETECTOR RANGE

SMART-SET-UP, EASY-TO-FIT,  
GREAT VALUE

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

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## 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°
- Pet immune range 10 m
- Optional PET mask filter included in the packaging (10 kg)
- 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)
- 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:

- The Microwave doesn't penetrate walls, which means the microwave only detects in the shape of the protected room
- Non-interfering technology allowing back to back installation or front to front, in a common area of 5m or more. This allows the detector to be installed and set up quicker than traditional DT's giving time and cost saving advantages to the installer.

### 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.

Product	PIR	PIR Curtain	Dual-Tech	Glass Break	Shock
Model	DS-PDP18-EG2	DS-PDC15-EG2	DS-PDD12-EG2	DS-PDB68-EG2	DS-PDSK-P
Picture					
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°	6.3°	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	High, Auto, Low	Potentiometer Adjustment	Potentiometer Adjustment
Pet Immunity	10 kg	✗	10 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	✓	✓	✓	✓	✓
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) Red (Microwave) Blue (Alarm)	Red (High Frequency) Green (Low 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 x 107 mm x 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

Product	PIR Ceiling	Dual-Tech Ceiling	Dual-Tech AM	PIR-Glass Break
Model	DS-PDCL12-EG2	DS-PDCL12DM-EG2	DS-PDD15AM-EG2	DS-PDP612P-EG2
	<b>Coming soon</b>	<b>Coming soon</b>	<b>Coming soon</b>	<b>Coming soon</b>
Picture				
Detection Method	Passive Infrared	Passive Infrared + Microwave	Passive Infrared + Microwave	Passive Infrared + Acoustic Sensor
Detection Range	12 m	12 m	15 m	12 m / 8 m
Detection Angle	360°	360°	85.9°	85.9°/120°
Detectable Speed	0.3 - 2 m/s	0.3- 2 m/s	0.3 - 2 m/s	0.3 - 2 m/s
Detects the frequency of glass flexing	N/A	N/A	N/A	✓
Detects the frequency of glass breaking	N/A	N/A	N/A	✓
Sensitivity	Auto, Low	Auto, Low	Auto, Pet	Auto, Pet + Potentiometer Adjustment
Pet Immunity	✗	✗	✗	30 kg
White Light Filter	6500 lux	6500 lux	6500 lux	6500 lux
Microwave Frequency	N/A	24 GHz (24.15 - 24.25 GHz)	24 GHz (24.15 - 24.25 GHz)	N/A
Anti-Masking	✗	✓	✓	✗
Anti-Cloaking	✗	✗	✓	✗
Digital Temperature Compensation	✓	✓	✓	✓
Creep Zone Protection	N/A	N/A	✓	✓
Digital Processing	✓	✓	✓	✓
Sealed Optics	✓	✓	✓	✓
Tamper Protection	Front	Front	Front	Front
Alarm Output	Normally Closed	Normally Closed	Normally Closed	Normally Closed
LED Indicator	Blue (Alarm)	Green (PIR) Red (Microwave) Green+Orange (Mask) Blue (Alarm)	Green (Top PIR) Red (Microwave) Green+Orange (Mask) Blue (Alarm)	Green (PIR) Red (Glass Break) 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)	φ101.2 mm x 32.9 mm	φ101.2 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	CE, CB, FCC, RCM, EN Grade 2	CE, CB, FCC, RCM, EN Grade 2	CE, CB, FCC, RCM, EN Grade 2