

DS-PDD15AM-EG2

Wired Dual Technology Detector

User Manual

EN 50131-1:2006+A1+A2+A3
EN 50131-2-4: 2020
Security Grade (SG) 2
Environment Class (EC) II
Tested by TÜV Rheinland

ENGLISH

1 Appearance

1. Lens 2. LED Light Pipe 3. Lens Holder
4. PCB 5. Nut 6. Casing Screw

4 The Printed Circuit Board (PCB)

1. PIR Sensor 2. Block ☒ Block ON ☐ Block OFF
3. Anti-Masking ☒ Anti-Masking ON ☐ Anti-Masking OFF
4. MW Range Control 5. Microwave Module
6. Tamper Resistor Jumpers 7. Mask Resistor Jumpers
8. Terminals 9. Alarm Resistor Jumpers 10. Tamper Spring
11. LED ☒ LED ON ☐ LED OFF
12. Sensitivity Settings ☒ CLOAK ☐ AUTO

2 Installation

Screw Model: PA_3.5×25 (4 screws)

a. Ceiling Bracket Fitting

b. Wall Bracket Fitting

Note: Brackets are optional.

3 The 15 m Lens

a. Detection Range: 85.9°, 52 zones, 4 planes

b. Mounting Height:

Mounting height range from 1.8 m to 2.4 m.

The recommended mounting height is 2.2 m.

c. Microwave Range Control:

Max: 15 m Medium: 0 to 10 m Min: Off

4 Resistor Wiring

Relay Status

	Normal	Alarm	Mask	Fault
Alarm Relay	Close	Open	Open	Close
Mask Relay	Close	Close	Open	Open

The detector has two method for resistor wiring:

(1) Using jumpers to select the End of Line resistance (Control panel dependent) on the ALARM/TAMPER/MASK pins.

(2) Select an resistance (Control panel dependent), and add the resistor to ALARM/TAMPER/MASK wiring ports of the detector.

a. Alarm Resistance: 1K, 2K2, 4K7, 5K6, 6K8

b. Tamper Resistance: 1K, 2K2, 4K7, 5K6

c. Mask Resistance: 1K, 2K2, 6K8

5 Connection Type

a. Normally Closed

b. Single End of Line Wiring

c. Double End of Line Wiring

d. Triple End of Line Wiring

6 Powering on

After powering on, the indicator flashes rapidly. Once the detector self test is completed, the LED indicator will go out until the detector detects movement.

7 Anti-Masking Alarm

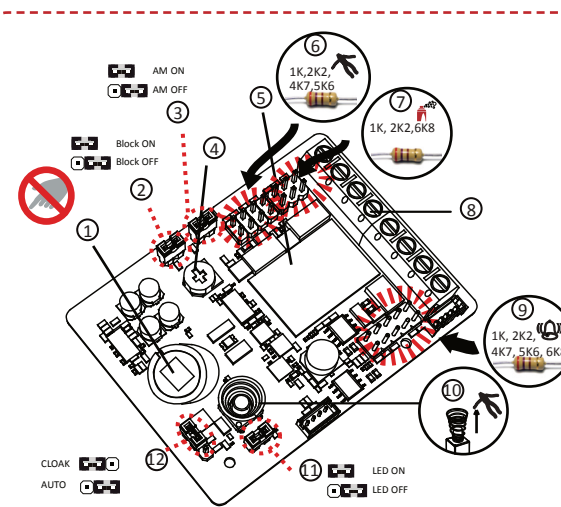
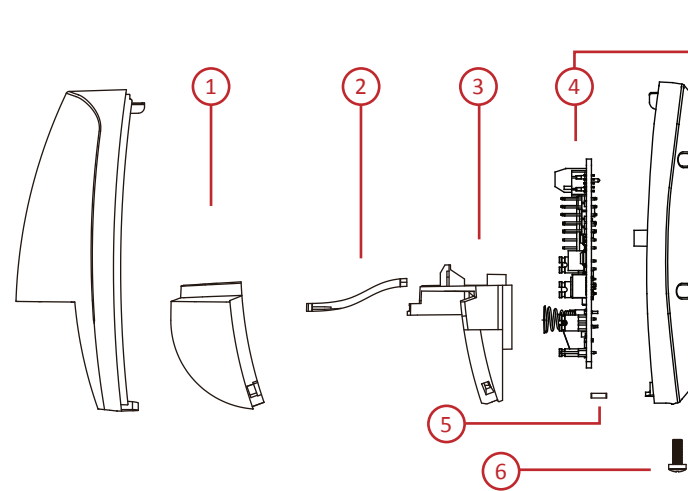
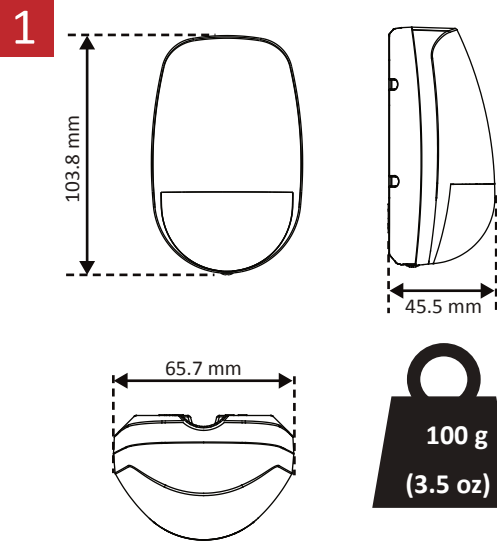
8 Anti-Cloaking Alarm

Specification

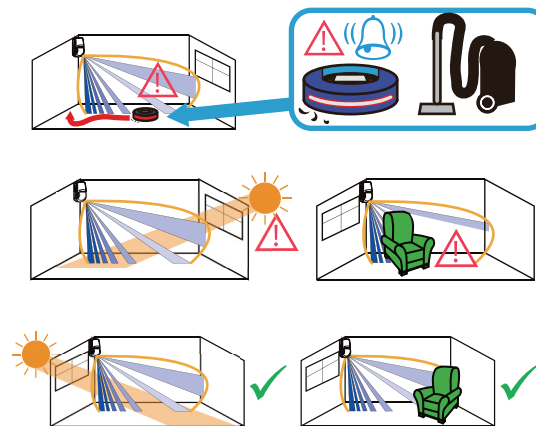
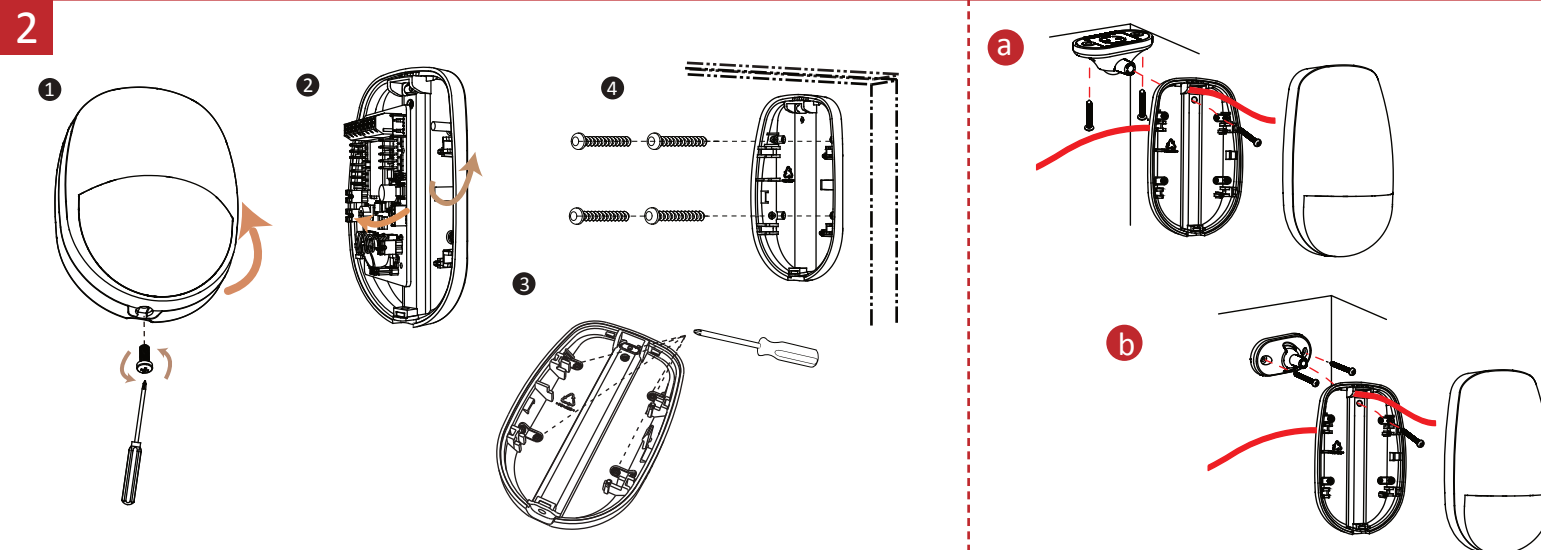
Detection Method	Passive Infrared, Microwave
Detection Range	15m
Detection Angle	85.9°
Detection Zones	52
Detectable Speed	0.3 2m/s
Sensitivity	Auto, Low
White Light Filter	6500lux
Microwave Frequency	24GHz (24.15~24.25GHz)
Digital Temperature Compensation	Support
Creep Zone Protection	Support
Digital Processing	Support
Sealed Optics	Support
Tamper Protection	Front
Anti-masking	Support
Anti-cloaking	Support
Anti-blocking	Support
Alarm Output	Normally Closed
LED Indicator	Green (PIR), Red (Microwave), Blue (Alarm)
Transmission Method	Wired
Power Supply	9 to 16 VDC
Typical Voltage	12 VDC
Power Consumption	25mA Max
Operation Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Operation Humidity	10% to 90%
Dimension(W×H×D)	65.7 mm (2.59") × 103.8 mm (4.09") × 45.5 mm (1.79")
Weight	100g
Mounting Height	1.8 m to 2.4 m
Mounting Method	Wall
Application Scenario	Indoor
Bracket	Optional wall & ceiling accessory

Please use the power supplies comply with the requirements of EN 50131-6 at the appropriate grade and environmental class.

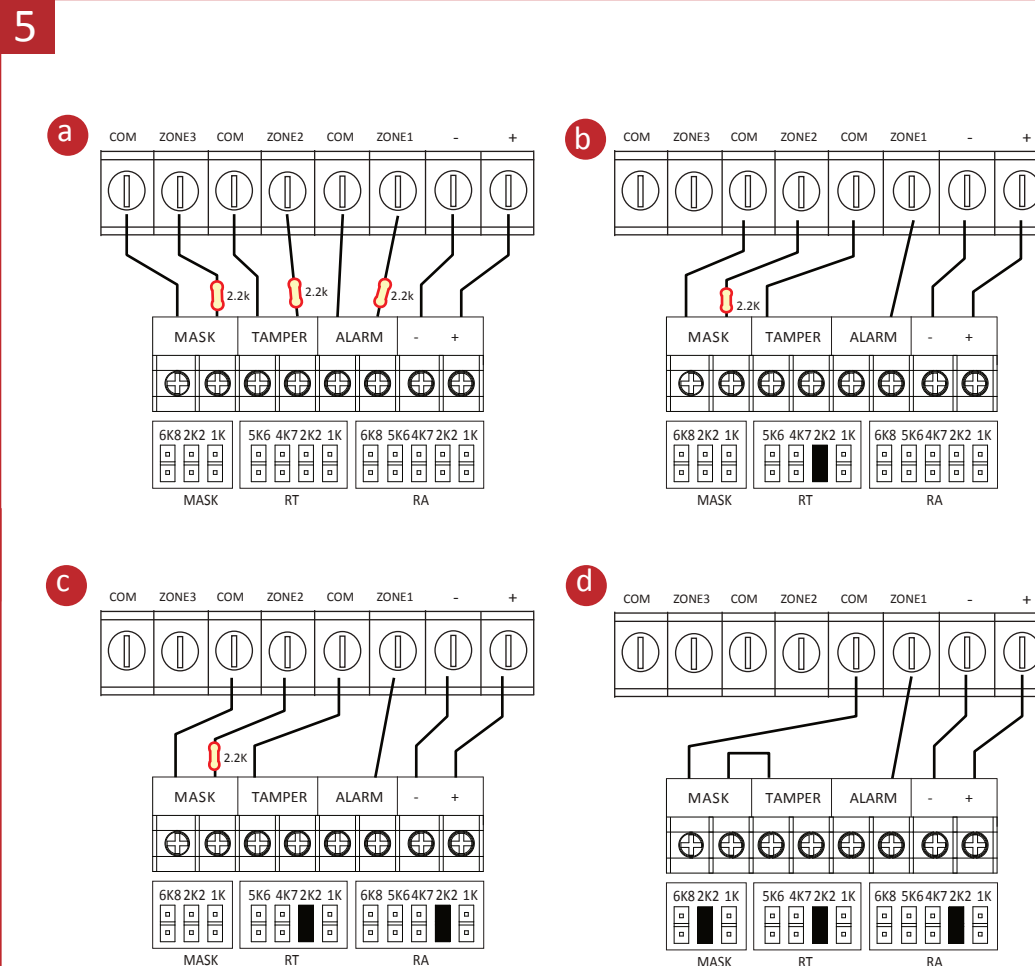
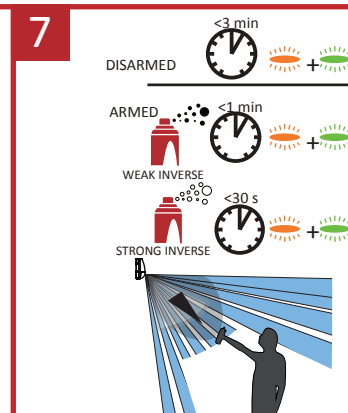
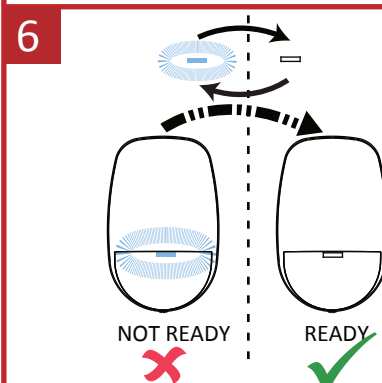
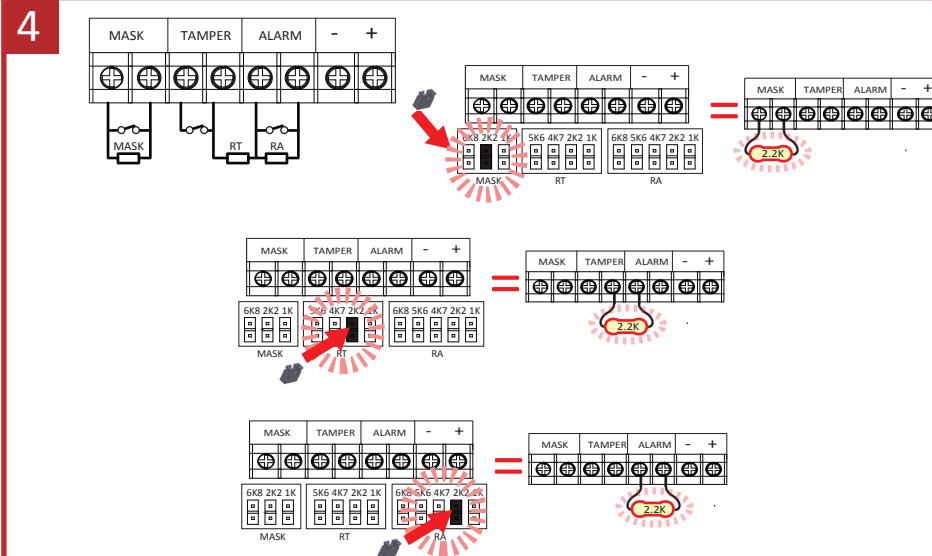
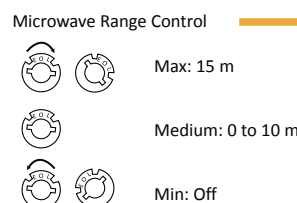
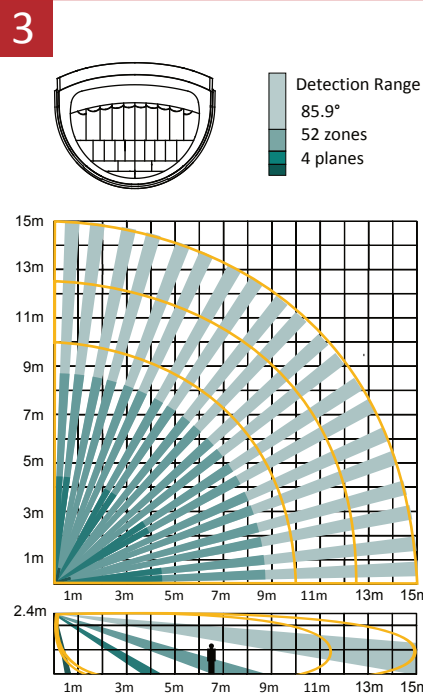
Notes: In Brazil the device only operates in 24.25 GHz.



8 CLOAK



Please do not obscure the detector's field of view partially or completely.



- Where Not to Install**
- **Outdoor.** Outdoor conditions can damage the sensor and cause frequent false alarms.
 - **In a special temperature and humidity area.** Exposure to excessive temperature and humidity can damage the sensor and affect its performance. When the ambient temperature is very close to the body temperature (average 36.6°C), the sensitivity of PIR to human detection will be reduced.
 - **In areas with strong air currents.** Fans or open windows can cause false alarms due to rapid temperature changes.
 - **In direct sunlight.** Direct sunlight can cause false alarms and lead to sensor malfunction.
 - **In areas with obstructions.** Objects blocking the sensor's view can hinder detection accuracy.
 - **Behind glass or near reflective surfaces.** Glass or reflective surfaces can impact infrared radiation, reducing the sensor's effectiveness.
 - **Outside the recommended installation height.** Installing the detector at the wrong height can reduce detection range and increase false alarms.
 - **Parallel to the direction of pedestrian traffic.** This can reduce detection sensitivity and lead to delayed alarms.
 - **Near devices emitting strong electromagnetic radiation.** These devices, such as radio transmitters and antennas, can lead to false alarms.
 - **Improper wiring (Wired Detector only).** Power and signal lines should be routed correctly to prevent interference.
 - **An environment that lacks regular cleaning.** Lack of regular cleaning can lead to dust accumulation and equipment malfunction.
 - **An environment that lacks regular testing.** Please test the detectors regularly to ensure proper operation.
 - **Near the items of metal material.** Metal materials can reflect and absorb infrared rays, affecting detection accuracy.

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