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Qinolgo PA-465

Qinolgo Wired 12V Ceiling Infrared Motion Detector PA-465 User Manual

Model: PA-465

1. INTRODUCTION

The Qinolgo PA-465 is a wired 12V ceiling-mounted infrared motion detector designed for security and surveillance applications. It features advanced technology for accurate motion detection and resistance to false alarms. Its compact design and durable construction make it suitable for various environments.



Figure 1: Front view of the Qinlorgo PA-465 Infrared Motion Detector. This image shows the circular, white casing with the central infrared sensor lens.

Key Features:

- **Intelligent Detection:** Utilizes pulse counting tunable technology and DMT technology for smart and accurate motion capture.
- **False Alarm Resistance:** Engineered to minimize false alarms while maintaining high detection capability.
- **Temperature Compensation:** Dual temperature compensation technology ensures stable performance across varying temperatures.
- **Durable Construction:** Made from ABS flame retardant material, offering durability and excellent seismic performance.
- **Versatile Installation:** Can be wall-mounted or ceiling-mounted, with an optimal installation height range.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your motion detector. The device is designed for easy and fast installation.

Installation Guidelines:

- **Mounting Type:** The detector supports both wall-mounted and ceiling-mounted installations.
- **Installation Height:** For best performance, install the detector at a height between 2.2 meters and 4.5 meters from the floor.
- **Power Connection:** Connect the detector to a 9-15V/DC power source. The operating current is approximately 18mA. Ensure correct polarity during wiring.
- **Placement Considerations:** Avoid placing the detector near heat sources, direct sunlight, or areas with strong air currents (e.g., air conditioning vents) to prevent false alarms.

Indoor Top Mounted 360 Degree Passive Infrared Motion Detector

ABS flame retardant material, durable and safe to use.



Figure 2: The Qinlorgo PA-465 detector shown mounted on a ceiling, illustrating its discreet integration into an indoor environment.

Compact and lightweight, easy and fast to install.



Figure 3: A close-up view of the detector installed on a ceiling, emphasizing its compact and lightweight design for easy installation.

3. OPERATION

Once installed and powered, the Qinlorgo PA-465 detector continuously monitors its detection area for motion.

Detection Characteristics:

- **Detection Range:** The effective detection area is approximately 6 meters by 7 meters.
- **Detection Speed:** Capable of detecting movement at speeds ranging from 0.2 m/s to 3.5 m/s.
- **Sensitivity:** The detector features 2 levels of adjustable sensitivity to adapt to different environmental needs.
- **Sensor Type:** Equipped with low noise, high sensitivity, anti-EMI binary pyroelectric sensors.
- **Environmental Stability:** Dual temperature compensation technology enhances stability against temperature fluctuations.
- **Interference Resistance:** Designed with anti-white light interference (up to > 8000LUX) and anti-EMI capabilities (30V/m, 10MHz-1000MHz).

Excellent ability to resist false alarm and capture

Adopt pulse counting tunable technology,
smart and accurate.



Figure 4: Illustration of the detector's ability to sense movement, showing infrared detection patterns emanating from the ceiling-mounted unit.

Dual temperature compensation technology makes it more stable while facing temperature variation.



Figure 5: This image visually represents the dual temperature compensation technology, indicating the detector's stable operation across varying ambient temperatures.

Typical Applications:

Widely Used

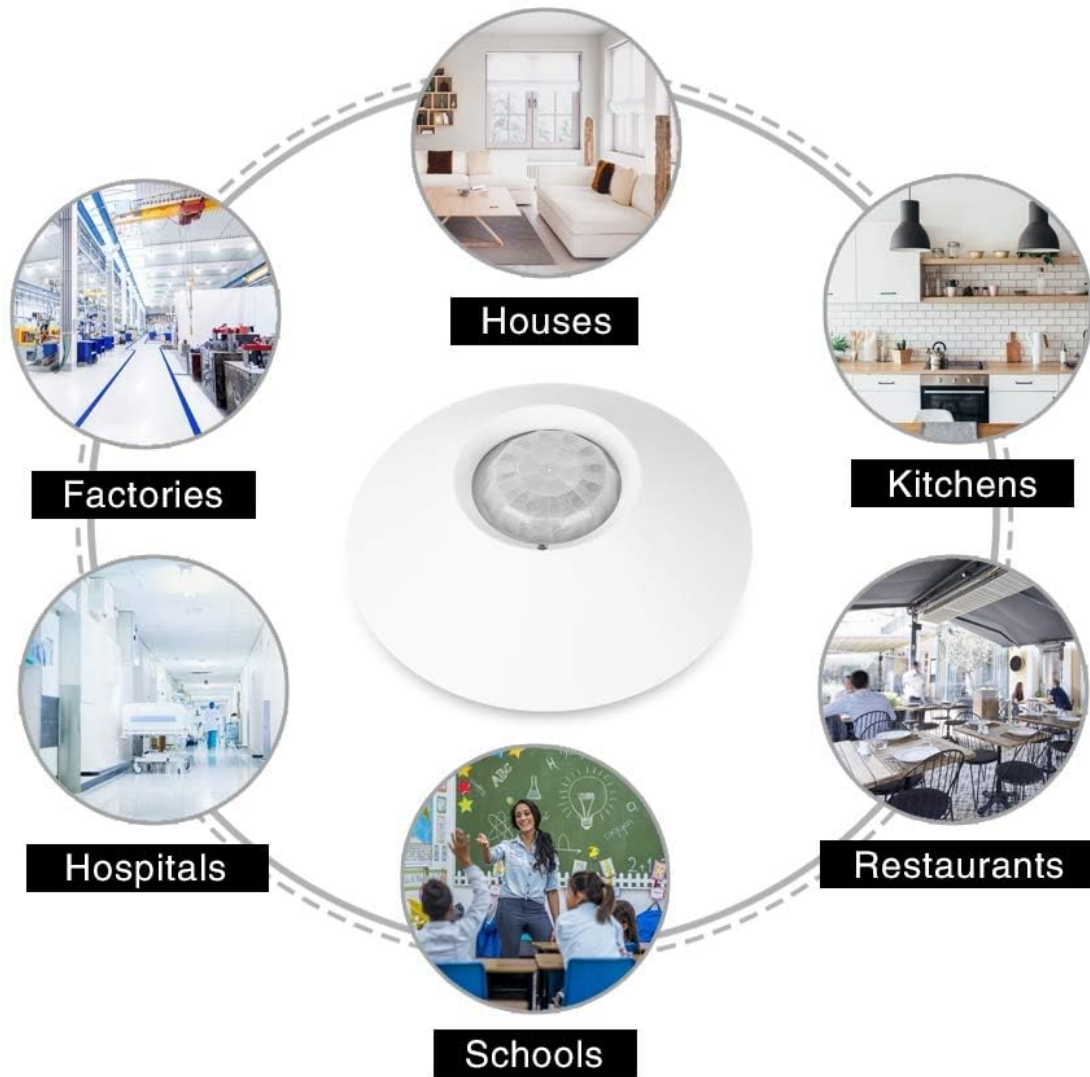


Figure 6: A diagram illustrating the wide range of suitable environments for the detector, including houses, factories, hospitals, schools, restaurants, and kitchens.

4. MAINTENANCE

The Qinlorgo PA-465 motion detector requires minimal maintenance to ensure continued reliable operation.

General Maintenance:

- **Cleaning:** Periodically wipe the detector's lens and casing with a soft, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges (-30°C to 70°C, 5%-95% RH) to prevent damage and ensure optimal performance.
- **Regular Checks:** It is recommended to periodically test the detector's functionality to confirm it is operating correctly.

5. TROUBLESHOOTING

If you encounter issues with your Qinlorgo PA-465 motion detector, refer to the following common troubleshooting steps.

Common Issues and Solutions:

- **False Alarms:**

- Check for heat sources (heaters, direct sunlight) or strong air currents (HVAC vents) within the detection area.
- Ensure the detector is not exposed to white light exceeding 8000 LUX.
- Verify that the sensitivity setting is appropriate for the environment.

- **No Detection:**

- Confirm the detector is receiving proper power (9-15V/DC).
- Check wiring connections for security and correct polarity.
- Ensure the detection area is clear of obstructions.
- Verify that the sensitivity setting is not too low.

- **Intermittent Operation:**

- Check for unstable power supply.
- Ensure the operating temperature and humidity are within specified ranges.
- Inspect for potential electromagnetic interference (EMI) sources.

If problems persist after attempting these steps, please contact customer support.

6. SPECIFICATIONS

Feature	Specification
Model	PA-465
Brand	Qinolrgo
Power Source	Corded Electric
Operating Voltage & Current	9-15V/DC, 18mA
Detection Range	6m x 7m (Maximum 7 Meters)
Detection Speed	0.2 m/s - 3.5 m/s
Sensitivity	Level 2 adjustable
Sensors	Low Noise, High Sensitivity, Anti-EMI Binary Pyroelectric Sensors
Working Temperature	-30°C to 70°C
Working Humidity	5% - 95% (RH)
Installation Height	2.2 m - 4.5 m
Mounting Type	Wall mounted or Ceiling mounted
Anti-White Light Interference	> 8000 LUX
Anti-EMI	30V/m (10MHz-1000MHz)
Item Weight	0.09 Kilograms (approx. 3.17 ounces)
Batteries Included	No

7. WARRANTY AND SUPPORT

Warranty Information:

Specific warranty details for the Qinolrgo PA-465 motion detector are typically provided with the product packaging or can be found on the manufacturer's official website. Please refer to these sources for comprehensive warranty terms and conditions.

Customer Support:

For any questions, technical assistance, or support regarding your Qinolrgo PA-465 motion detector, please contact Qinolrgo customer service. The manufacturer is committed to providing satisfactory support and aims to respond to inquiries within 24 hours.