

PARADOX NV5W3C

Paradox NV5 High-Performance Infrared Motion Detector

User Manual

1. INTRODUCTION

The Paradox NV5 is a high-performance infrared motion detector designed for reliable security applications. This device offers advanced detection capabilities, false alarm immunity, and ease of installation, making it suitable for various indoor environments. This manual provides essential information for the proper setup, operation, and maintenance of your NV5 detector.



Figure 1: Paradox NV5 Motion Detector Overview

2. PRODUCT OVERVIEW AND FEATURES

The NV5 detector is engineered for superior performance and reliability. Key features include:

- **High-Performance Detection:** Provides even detection with no dead zones within the protected range.
- **Fast Response:** Quick response to both slow and fast movements.
- **False Alarm Immunity:** Utilizes Paradox's Auto Pulse Signal Processing (APSP) and Dual/Single Edge Processing for enhanced stability.
- **Digital Temperature Compensation:** Maintains consistent catch capability across specified operating temperatures.
- **RF Immunity:** Designed to resist radio frequency interference.
- **Customizable Sensitivity:** Offers 5 levels of sensitivity to adapt to different environmental needs.

- **Pet Resistant:** Designed to minimize false alarms caused by pets.
- **Adjustable Creep Zone:** Enhanced creep zone sensitivity with an optional mirror add-on.
- **Easy Installation:** Designed for quick and straightforward setup without PC board removal.



Figure 2: Front View of NV5 Detector



Figure 3: NV5 Internal Components and Detection Patterns

3. SETUP AND INSTALLATION

The NV5 detector is designed for simple and efficient installation. Follow these guidelines for optimal performance:

3.1 Mounting Location

Choose a mounting location that provides the best coverage of the protected area. The NV5 is designed for wall mount installation. Avoid placing the detector directly facing heat sources, windows, or areas with strong air currents that could cause false alarms.

3.2 Mounting the Detector

1. Separate the front cover from the base of the detector.
2. Mount the base securely to the wall using appropriate screws. An optional wall/ceiling mount bracket is available for flexible positioning.
3. No PC board removal is necessary for installation; the PC board can be easily clipped in and out if desired for maintenance.

3.3 Wiring

The NV5 is a hardwired device and requires a corded electric power source. Connect the detector to your alarm system panel according to the panel's wiring diagram. The NV5 is compatible with EVO, Spectra, Magellan, and various 3rd party alarm systems. Ensure all connections are secure and correctly polarized.

3.4 Power-Up and Walk Test

After wiring, apply power to the detector. Allow a few minutes for the detector to stabilize. Perform a walk test to verify the detection coverage and ensure the detector triggers the alarm system when motion is detected within the protected area. Adjust the detector's position if necessary to optimize coverage.

4. OPERATING THE DETECTOR

The NV5 detector operates automatically once installed and powered. Its advanced features ensure reliable motion detection.

4.1 Sensitivity Levels

The NV5 offers 5 levels of sensitivity. You can adjust the sensitivity to match the specific requirements of the protected area and minimize false alarms. Refer to the detector's internal settings or your alarm panel's manual for instructions on adjusting sensitivity.

4.2 Pet Immunity

The NV5 is designed with pet immunity to prevent false alarms from small animals. For optimal pet immunity, ensure the detector is mounted at the recommended height and the pet's movement does not exceed the specified immunity threshold. Consult the installation guide for specific pet immunity guidelines.

4.3 Creep Zone

The detector includes an adjustable creep zone, which covers the area directly beneath the detector. For enhanced creep zone sensitivity, especially in situations where an intruder might attempt to bypass the main detection pattern by staying low, a mirror add-on is available and recommended.

5. MAINTENANCE

Regular maintenance ensures the long-term reliability and performance of your NV5 motion detector.

- **Cleaning:** Periodically clean the detector's lens with a soft, dry cloth to remove dust or smudges that could obstruct its view. Do not use abrasive cleaners or solvents.
- **Functionality Test:** Conduct a walk test at least once a year to confirm the detector is functioning correctly and its coverage area remains effective.
- **Wiring Check:** Inspect wiring connections periodically to ensure they are secure and free from corrosion.

6. TROUBLESHOOTING

If you encounter issues with your NV5 detector, consider the following troubleshooting steps:

| Problem | Possible Cause | Solution |
|--------------|---|--|
| No Detection | <ul style="list-style-type: none">• Incorrect wiring• Power loss• Obstructed view• Incorrect sensitivity setting | <ul style="list-style-type: none">• Check all wiring connections to the alarm panel.• Verify power supply to the detector.• Ensure the lens is clean and unobstructed.• Adjust sensitivity to a higher level. |

| Problem | Possible Cause | Solution |
|------------------------|--|---|
| False Alarms | <ul style="list-style-type: none"> • Heat sources or air currents • Pets or small animals • Incorrect sensitivity setting • Loose wiring | <ul style="list-style-type: none"> • Relocate the detector away from heat sources or drafts. • Ensure pet immunity settings are appropriate; consider adjusting mounting height. • Reduce sensitivity if too high. • Check and secure all wiring connections. |
| Intermittent Operation | <ul style="list-style-type: none"> • Loose wiring connection • Power fluctuations • RF interference | <ul style="list-style-type: none"> • Inspect and tighten all wiring connections. • Ensure stable power supply. • Check for nearby sources of strong RF signals. |

If problems persist after attempting these solutions, contact Paradox technical support or a qualified security professional.

7. SPECIFICATIONS

| Feature | Specification |
|-----------------------|---|
| Model Number | NV5W3C |
| Part Number | NV5W3C |
| Item Weight | 2.2 pounds |
| Product Dimensions | 1 x 1 x 1 inches |
| Power Source | Corded Electric |
| Item Package Quantity | 1 |
| Mounting Type | Wall Mount |
| Batteries Included | No |
| Batteries Required | No |
| Compatibility | EVO, Spectra, Magellan, 3rd party alarm systems |

8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation provided with your purchase or visit the official Paradox website. For technical support, installation assistance, or any other inquiries, please contact Paradox customer service or your authorized dealer. Keep your purchase receipt and product model

number (NV5W3C) handy when contacting support.

Paradox Official Website: www.paradox.com

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