

U-PROX PIR Outdoor V2

Wireless Outdoor Motion Detector
Part of the U-PROX Security Alarm System

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1. Introduction

The U-PROX PIR Outdoor V2 is a wireless outdoor motion detector designed for integration into the U-PROX security alarm system. Featuring advanced detection algorithms, digital temperature compensation, and an extended anti-masking system, this device reliably monitors outdoor spaces and communicates alerts to the control panel.

Manufacturer:

LLC INTEGRATED TECHNICAL VISION

Mykoly Hrinchenka str. 2/1, 03038, Kyiv, Ukraine

2. Package Contents

When you open the package, you should find the following items:

- U-PROX PIR Outdoor V2 Device
- Two CR123A Lithium Batteries (pre-installed)
- Device Hood
- Mounting Kit
- Quick Start Guide

3. Device Overview

The device comprises several key components. The main elements are as follows:

- **Device Hood**
- **Device Case**
- **Light Indicator** – Shows the operation modes
- **Anti-Masking Diffuser #1**
- **Fresnel Lens**
- **Anti-Masking LED**
- **Anti-Masking Diffuser #2**
- **Second Fresnel Lens**
- **Mounting Bracket**
- **Bracket Connector**
- **Fixing Screw**
- **Tamper Switch Plate**
- **Back of the Device**
- **Power Button**
- **Motion Detection Range Adjuster**

A diagram on the device (not reproduced here) shows the positions of these components to assist with installation and troubleshooting.

4. Technical Specifications

Power Supply: 3 V from two CR123A lithium batteries (battery life up to 5 years)

Dimensions:

Without hood: 183.8 x 77.2 x 88.6 mm

With hood: 180 x 70 x 62.5 mm

Wireless Communication:

ISM-band interface with multiple channels

ITU Region 1 (EU, UA): 868.0–868.6 MHz and 869.0–869.4 MHz

ITU Region 3 (AU): 916.5–917 MHz

Bandwidth: 100 kHz, **Maximum output:** 20 mW, **Line-of-sight range** up to 4800 m

Communication: Two-way, encrypted (256-bit key) with sabotage (jamming) detection

Operating Temperature: -20°C to $+55^{\circ}\text{C}$

Optical Noise Immunity: Greater than 6500 Lux

Working Distance: 3 to 15 meters

PIR Target Detection Speed: 0.2 to 5 m/s

Mounting Height: 0.9 to 1.10 meters

Detection Angle: 90°

Device Color: White

Protection Class: IP55

Additional Ratings:

Pet Immunity: Up to 20 kg

Environmental Class: III (per EN 50131)

Permissible Humidity: Up to 95%

Security Grade: 2

5. Installation & Setup

5.1 Mounting and Placement

Device Placement: Ensure the detector is mounted at a height between 0.9 and 1.10 m for optimal performance.

Using the Mounting Kit: Use the provided mounting kit (bracket, connector, and fixing screw) to securely install the device. The mounting bracket is designed to support a pet weight of up to 20 kg.

5.2 Calibration and Registration

Initial Setup: The U-PROX PIR Outdoor V2 is paired with the U-PROX control panel and configured using the U-PROX Installer mobile application. Follow the in-app instructions for device registration and configuration.

Calibration Procedures:

- **Range Test Mode:** Perform a range test to ensure the device detects motion over the designated distances (3 to 15 m). During calibration, ensure there are no obstacles and avoid direct sunlight.
- **Anti-Masking Calibration:** The system conducts anti-masking calibration to detect partial or full masking (70% to 100% coverage). Calibration times may vary (typically 10–30 seconds) depending on environmental conditions. Follow the on-screen instructions in the U-PROX Installer app.

6. Operation & Maintenance

6.1 Battery and Power

Battery Details: The device operates on two pre-installed CR123A lithium batteries. Expected battery service life is up to 5 years.

Battery Replacement: Caution: Replacing the battery with an incorrect type may cause an explosion. Always dispose of used batteries in accordance with local regulations. Follow the instructions in the Quick Start Guide for safe battery replacement.

6.2 Anti-Masking System

The U-PROX PIR Outdoor V2 features an extended anti-masking system:

- Dual anti-masking diffusers and Fresnel lenses work together to prevent tampering.
- The device continuously monitors for interference or masking attempts and filters out noise to reduce false alarms.
- Anti-masking calibration is integrated into the setup process via the U-PROX Installer app.

7. Compliance, Warranty & Safety

Compliance: The U-PROX PIR Outdoor V2 complies with the Radio Equipment Directive 2014/53/EU and Directive 2011/65/EU (RoHS). The original Declaration of Conformity can be found on the website at www.security.u-prox.systems under the Certificates section.

Warranty: Warranty for U-PROX devices (excluding batteries) is valid for 2 years from the date of purchase. If the device does not function properly, contact UPROX technical support for troubleshooting and possible remote resolution.

Safety Precautions: CAUTION: There is a risk of explosion if the battery is replaced with an incorrect type. Always use the correct CR123A lithium batteries and dispose of used batteries properly as per national regulations.

8. Support and Contact Information

For technical support or additional information regarding installation, operation, or troubleshooting, please contact:

Email: support@u-prox.systems

Website: www.security.u-prox.systems

9. Operation & Maintenance

9.1 Battery Replacement

The device is powered by two pre-installed CR123A lithium batteries with a service life of up to 5 years.

- **Battery Replacement Procedure:**
 - Press and hold the on/off button (if necessary) to disable the device.
 - Remove the device from its mounting bracket by loosening the fixing screw.
 - Open the rear cover to access the battery compartment.
 - Replace the old batteries with new CR123A lithium batteries, ensuring proper polarity.
 - Reassemble the device and remount it.
 - Dispose of used batteries in accordance with local regulations.

10. Compliance, Warranty & Safety

Compliance: UPROX PIR Outdoor V2 complies with EN 501311 (Environmental Class III) and meets the requirements of relevant EU directives such as RED and ROHS.

Warranty: The warranty period is 2 years from the date of sale (excluding batteries). If the device does not function properly, contact UPROX support for assistance—remote troubleshooting may be available.

11. Scope of Delivery

- U-PROX PIR Outdoor V2 Device
 - Two CR123A Lithium Batteries (pre-installed)
 - Device Hood
 - Mounting Kit
 - Quick Start Guide
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