

# UPROX Siren Outdoor Manual

Version: UA.0.010 | Release Date: 03.2024

## Table of Contents

- Introduction
- Safety Warnings
- Description and Principle of Operation
- Functional Elements
- Features
- Installation
  - 6.1 Selecting the Installation Location
  - 6.2 Installation Procedure
- Settings and Registration
- Operation
  - 8.1 Activation and Deactivation
  - 8.2 Status Indications
- Service and Maintenance
  - 9.1 Battery Replacement
- Compliance and Warranty
- Scope of Delivery

## 1. Introduction

This manual describes the installation, configuration, and operation of the UPROX Siren Outdoor—a robust, weather-resistant audible alarm designed for outdoor use within the UPROX wireless security system. Please read this manual carefully before installation and operation.

## 2. Safety Warnings

**Battery Safety:** This device is powered by four CR123A lithium batteries. Use only the recommended battery type. Incorrect batteries may cause fire or explosion. Dispose of used

batteries in accordance with local regulations.

**Installation Safety:** Ensure the siren is mounted on a stable surface and away from areas that may cause signal attenuation (e.g., large metal objects or mirrors). The siren must be installed at least 1 m from the security center.

**Electrical Safety:** If using an external power source, verify that its voltage is between 10.8 V and 13.8 V.

**General Warning:** The siren is designed to work exclusively with the UPROX security system. Do not connect it to third-party systems or modify its circuitry.

### 3. Description and Principle of Operation

The UPROX Siren Outdoor provides a powerful audible alarm to deter intruders and alert occupants of potential danger. It operates via a secure, two-way encrypted wireless communication channel with sabotage (jamming) detection. The device features three customizable sound volume levels and a built-in light indicator for status confirmation. It is optimized for outdoor environments and can be powered by batteries or an optional external power supply.

### 4. Functional Elements

- **Siren Housing:** Durable, white case designed for outdoor use.
- **Light Indicator:** Built-in LED for visual status feedback.
- **Tamper Plate:** Removable plate that secures the device and indicates tampering.
- **Resonator Openings:** Optimized for efficient sound output.
- **Mounting Screw:** For securing the siren to a wall or other surface.
- **Rear Cover:** Provides access to internal components (e.g., batteries).
- **Power Connector (Optional):** For connecting an external power source (10.8–13.8 V).
- **On/Off Button:** For manual activation/deactivation.

### 5. Features

- **Sound Pressure Level:** 113 dB at 1 m
- **Response Delay:** Activates within 10 seconds from trigger
- **Volume Levels:** Three customizable levels
- **Light Indication:** Built-in LED indicator confirms status changes
- **Power Supply:**
  - Primary: 3 V from four preinstalled CR123A lithium batteries

- Optional: External power input (10.8 V to 13.8 V)
- Battery Service Life: Up to 5 years
- **Radio Frequency:**
  - ISM wireless interface with multiple channels
  - ITU Region 1: 868.0–868.6 MHz
  - ITU Region 3: 916.5–917 MHz
  - 100 kHz bandwidth, 20 mW maximum output, communication range up to 4800 m (in open space)
- **Communication:** Two-way, encrypted (256-bit key) with sabotage (jamming) detection
- **Operating Temperature Range:**  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$
- **Permissible Humidity:** Up to 95%
- **Environmental Class:** III (EN 501311)
- **Security Grade:** 2
- **Dimensions:**  $167 \times 120 \times 38$  mm
- **Case Colour:** White
- **Weight:** 0.64 kg
- **Protection Class:** IP54

## 6. Installation

### 6.1 Selecting the Installation Location

Choose a location with optimal wireless coverage to ensure reliable connectivity with the UPROX security center. Avoid areas with high levels of radio interference or where nearby objects (e.g., metal, mirrors) may block the signal. Mount the device in an area that is clearly audible and visible during an alarm event. Ensure the installation site adheres to the environmental requirements: operating temperature  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  and humidity up to 95%.

### 6.2 Installation Procedure

- **Prepare the Mounting Surface:** Clean and dry the surface. Mark the installation point ensuring a minimum distance of 1 m from the security center.
- **Mount the Siren:** Remove the siren from its packaging. Unscrew the fixing screw (if applicable) and attach the mounting bracket using the provided screws and dowels. Place the siren onto the bracket and slide it downward until the tamper contact locks in place (the light indicator will flash to confirm proper locking).
- **Secure the Device:** Tighten the fixing screw to secure the siren firmly.
- **External Power (Optional):** If using an external power source, connect it to the power connector ensuring the voltage is within 10.8–13.8 V.

## 7. Settings and Registration

The siren is compatible only with the UPROX security system. Registration and configuration are performed using the UPROX Installer mobile application.

- **Registration Procedure:**
  - Place the siren within 1 m of the security center.
  - Launch the UPROX Installer app and follow the onscreen instructions.
  - The siren will automatically connect and register (indicated by a brief flash of the LED).
  - Once registered, use the app to customize sound volume levels and the alarm duration.

## 8. Operation

### 8.1 Activation and Deactivation

**Activation:** The siren activates automatically upon receiving an alarm signal from the security center, with a response delay of no more than 10 seconds. To manually activate the siren, press the on/off button; a short audible beep and the LED indicator will confirm activation.

**Deactivation:** To turn off the siren, disconnect the external power (if connected) and press and hold the on/off button for 3 seconds until the LED indicator turns off.

### 8.2 Status Indications

- **Standby Mode:** LED indicator is off.
- **Armed Mode:** LED indicator flashes briefly (e.g., a short flash every 10 seconds) to confirm the system is “Under Protection.”
- **Alarm Mode:** The siren emits an audible alarm at one of the three customizable volume levels. The LED indicator may flash in a specific pattern to indicate the alarm state.

## 9. Service and Maintenance

### 9.1 Battery Replacement

The siren is powered by four 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 siren.

- Remove the siren 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 the correct polarity.
- Reassemble the device and remount it.
- Dispose of used batteries in accordance with local regulations.

## 10. Compliance and Warranty

**Compliance:** The UPROX Siren Outdoor 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 technical support for troubleshooting and possible remote resolution.

## 11. Scope of Delivery

- UPROX Siren Outdoor
- Four CR123A lithium batteries (preinstalled)
- Short user manual

---

© 2024 UPROX

[www.u-prox.systems](http://www.u-prox.systems)