This manual describes the procedure for installing and configuring the U-Prox PIR VB wireless motion sensors with the "Vertical Barrier" ("Curtain") lens. Please read this manual carefully before using the device.

Technical support for all U-Prox products is provided by phone: +38(091)481-01-69 and/or via email:

support@u-prox.systems

Security Warnings

WARNING. THE DEVICE HAS A BUILT-IN BATTERY. REPLACING THE BATTERY WITH AN INCORRECT TYPE MAY RESULT IN FIRE OR EXPLOSION. DISPOSE OF USED BATTERIES IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.

Applications for Customization

U-Prox Installer Mobile Application

An application for configuring the U-Prox wireless security system. Intended for both individual users and engineers of central monitoring organizations. Using a mobile phone, the app allows you to perform full system setup – installation, testing, and calibration of wireless elements; configuration of security groups; connection to monitoring centers; and adding users with rights to control the security system via the U-Prox Home app.

Installer Web Portal

The U-Prox Installer WEB portal is designed for configuring the U-Prox wireless security system. It is intended for both individual users and engineers of central monitoring organizations. Using a web browser, you can perform complete configuration of the security system – installation, testing, and calibration of wireless elements; configuration of security groups; connection to monitoring centers; and adding users with rights to control the security system via the U-Prox Home app.

Description and Principle of Operation

U-Prox PIR VB is a digital passive infrared radio channel sensor equipped with a PIR sensor and a "Vertical Barrier" lens (also known as "Curtain") featuring a narrow horizontal field of view.
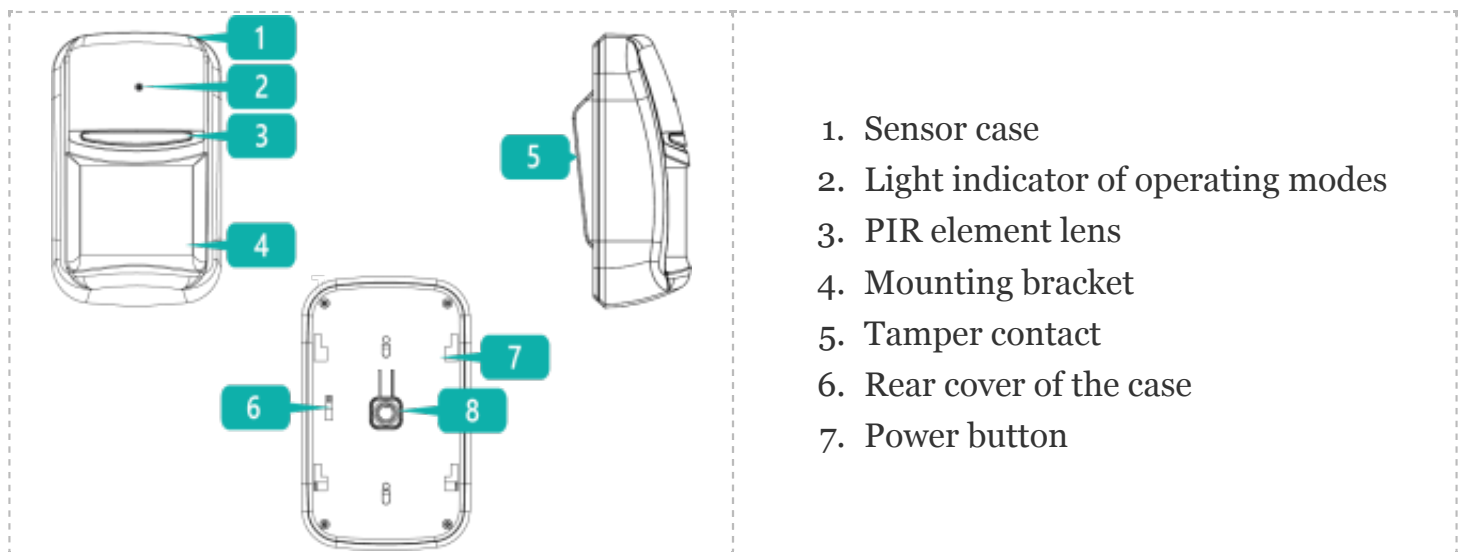
The device is designed for indoor perimeter control, protecting glazed structures, windows, doors, garage doors, etc.

Based on changes in the thermal balance of the environment, it sends an intrusion signal to the U-Prox security center.

It is installed indoors.

The sensor works exclusively with the U-Prox security system; connection to third-party systems is not supported.

Functional Elements of the Device

1. Sensor case
2. Light indicator of operating modes
3. PIR element lens
4. Mounting bracket
5. Tamper contact
6. Rear cover of the case
7. Power button

Power Supply

The device uses a CR123A lithium battery, which allows it to operate for up to 5 years on a single battery.

Current Mode Indication

The light indicator displays data transmission and sensor activation. Data exchange with the

security center is indicated by the following LED signals:

    a. Sensor activation – red
    b. Data transmission:
- Green – transmission successful
- Red – data transmission failed

    c. Receiving confirmation:
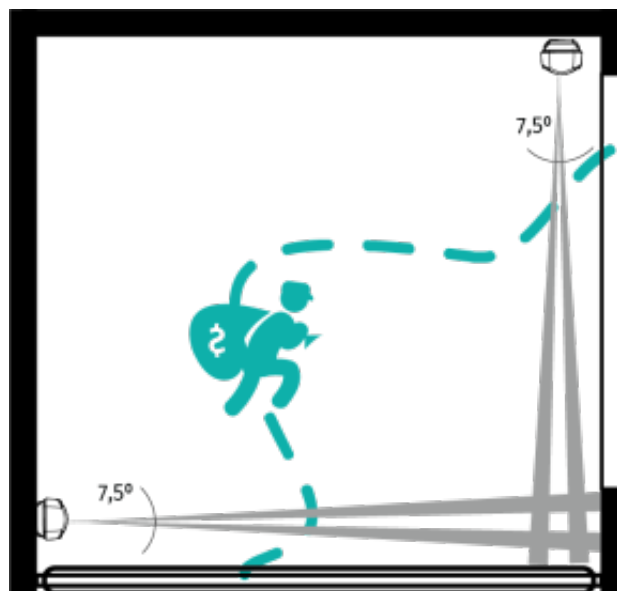- Green – reception successful
- Red – data reception failed

Steps 2 and 3 may be repeated up to 3 times (with increased transmission power on repeats).
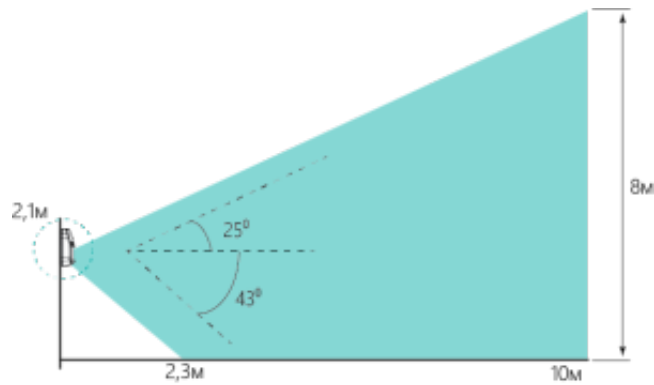
Installation

7.1 Selecting the Installation Location

Choose the installation location for the U-Prox PIR VB device carefully, taking into account the lens orientation and any obstacles that may limit the sensor's view.

The sensor should be installed so that the area with the highest likelihood of intrusion falls within its maximum field of view and the intruder's movement is perpendicular to the installation axis.

To maximize the sensor's field of view, install it at a height of 2.1 meters from the floor level.

The device must not be placed:

1. Outdoors or in environments with unsuitable humidity and temperature
2. In locations with high levels of radio interference
3. Near objects that may cause attenuation or shielding of the radio signal (e.g., metal, mirrors)
4. So that direct sunlight falls on the sensor lens
5. Opposite objects with rapidly changing temperatures or in areas with strong air circulation
6. Opposite moving objects at approximately human body temperature
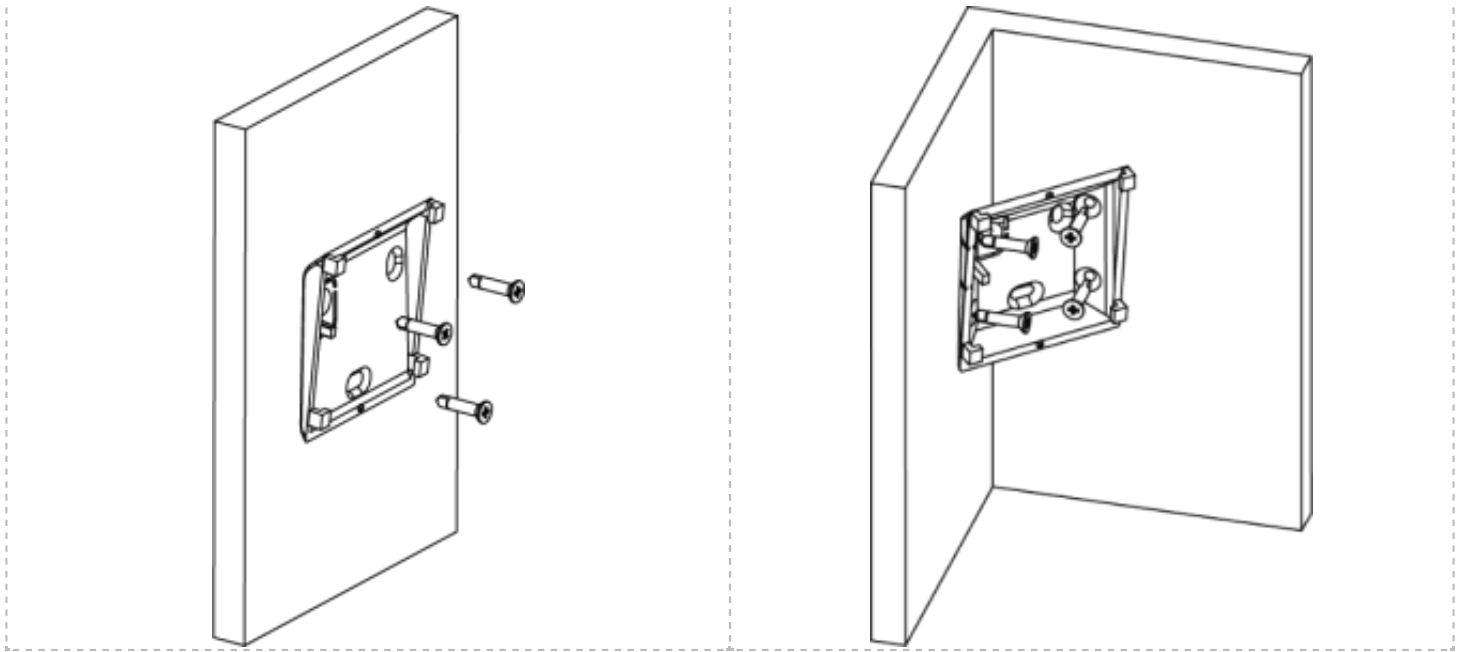7. Closer than 1 meter from the security center

It is recommended to perform the installation in the following sequence:

1. Register the sensor in the security system using the U-Prox Installer app
2. Select the installation location with the optimal signal using the U-Prox Installer app (note that the sensor can be installed either vertically or horizontally)
3. Install the mounting bracket
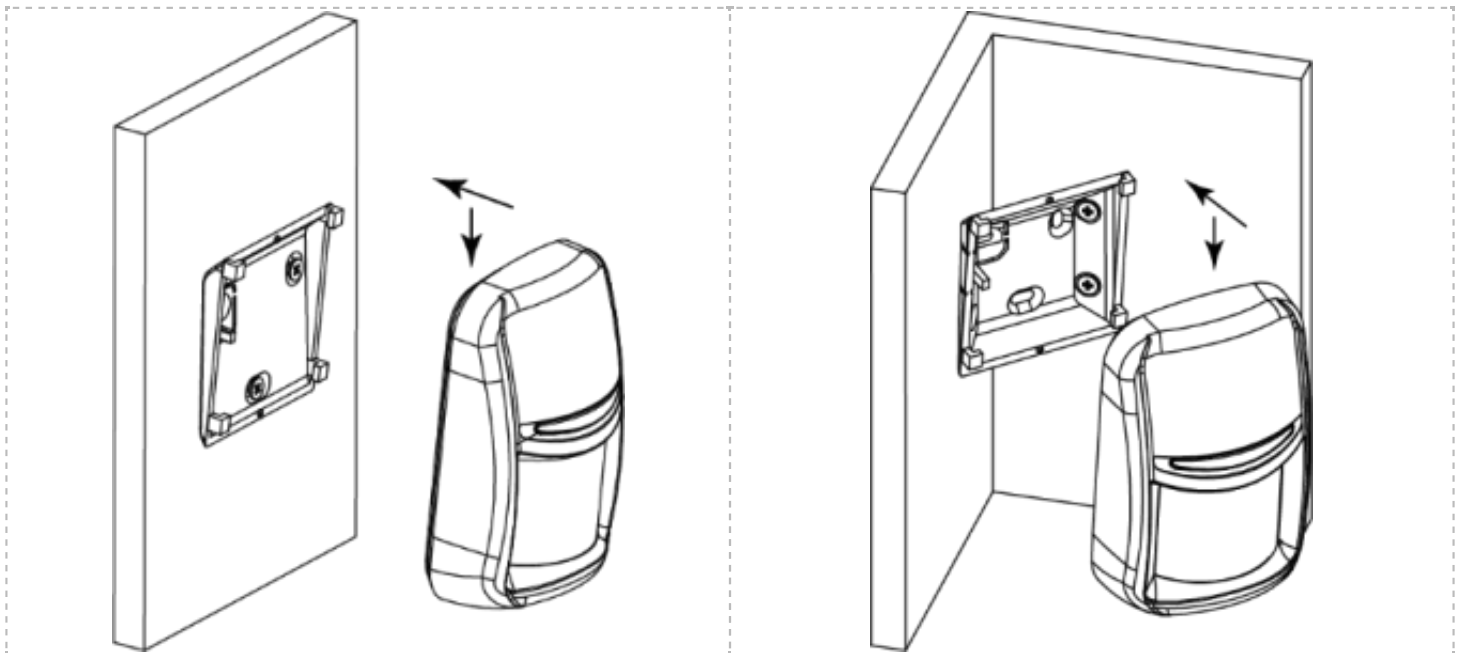4. Install the device

Mounting

1. The kit includes two brackets – one for angled installation and one for installation on a flat surface

2. Mount the appropriate bracket using the screws and dowels provided in the kit.

3. Install the device on the bracket and slide it downward to secure and lock the tamper contact (5). Flashes on the indicator light will confirm that the tamper is locked.
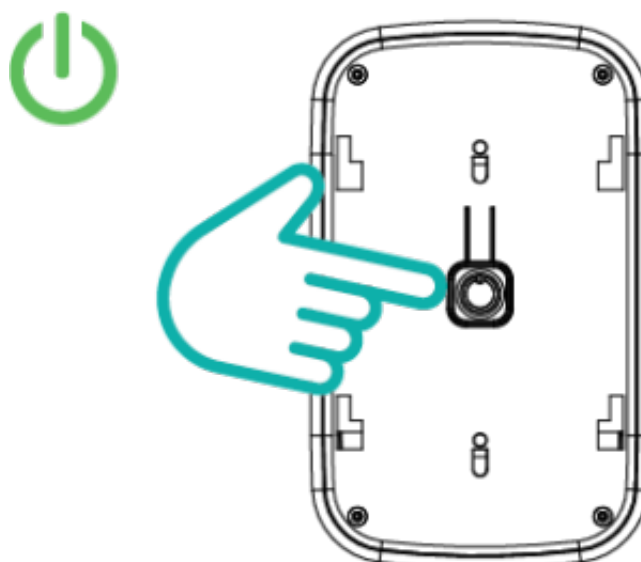

For flat surfaces – Angled bracket

WARNING! WHEN THE DEVICE IS INSTALLED CORRECTLY, THE TAMPER WILL BE CLAMPED (LOCKED).

Turning On and Off

Press and hold the button (8) for 3 seconds to turn on the device – the indicator light will be illuminated.

If the device has already been registered in the security system, it will switch to standby mode.

To turn off the device, press and hold the button (8) for 5 seconds until the indicator light goes off.

Settings

- Download and install the U-Prox Installer mobile application for system configuration
- Launch the U-Prox Installer app and log in, or access it via the U-Prox Installer WEB portal

If necessary, register in the system as an independent installer or gain access as a security company installer.

Adding a Device to the Security System (Registration)

- Launch the U-Prox Installer app or open the web portal in a browser and log in
- Select from the list the U-Prox MPX device to which you want to add the wireless sensor
- Press the button (I) ("Add radio device"), and the security center will enter registration mode for sensors, keypads, etc. In this window, click on the device icons to view activation instructions.
- According to the instructions, turn on the wireless sensor and bring it to the security center at a distance of about 1 meter
- Wait 15–20 seconds – the wireless sensor will be registered

The wireless sensor settings will then open in the app. Configure the device as required.

Basic Settings of U-Prox PIR VB

Select the device you want to configure from the list:

- "Name" – the device name
- "Group" – select the security group to which the device belongs. A security group is a logical collection of zones within a protected premises (for example, a room, apartment, garage, or floor of a building) representing the minimal security unit. Security groups allow you to control all zones simultaneously; users can view only those groups, devices, and events for which access is granted.
- "Sensitivity" – set the detection range of the sensor: Low (about 6 meters), Medium (about 8 meters), or High (about 12 meters).
- "Light indication" – enable or disable the device's light indicator
- "Temperature limits notification" – when the device exceeds the specified temperature limits, it will generate corresponding events ("Cooling" and "Overheating"). This can be used in various scenarios.
- "Setting" (zone type) – choose the operating mode of the device based on its intended use:
    a. "Delayed" or "Entrance zone": if the system is armed, triggering the sensor starts an entry delay. If the system is not disarmed during the delay, the system switches to "Alarm" and sends an alarm notification. When arming, an exit delay will commence, after which the system will be armed.
    b. "Without delay": if the system is armed, triggering the sensor immediately switches the system to "Alarm" and sends an alarm notification. If the system is disarmed, sensor triggering is ignored.
    c. "Corridor": if the system is armed and there is no entry delay (or the delay has expired), the system switches to "Alarm" and sends an alarm notification; if an entry delay is active, sensor triggering is ignored; if the system is disarmed (or an exit delay is in progress), sensor triggering is ignored.
    d. "Internal corridor": if the system is armed and there is no entry delay (or the delay has expired), the system switches to "Alarm" and sends an alarm notification; if an entry delay is active, sensor triggering is ignored; if the system is disarmed (or an exit delay is in progress), sensor triggering is ignored; and if the system is armed in Perimeter mode ("Stay" or "Night mode"), sensor triggering is ignored.
    e. "Inner zone": if the system is armed, triggering the sensor switches the system to "Alarm" and sends an alarm notification; if the system is armed in Perimeter mode ("Stay" or "Night mode"), sensor triggering is ignored; if the system is

disarmed, sensor triggering is ignored.

f. "24-hour zone" (around the clock): regardless of system mode, triggering the sensor switches the system to "Alarm" and sends an alarm notification.

g. "Delayed entry" (only for the delayed installation type) – the time allowed to disarm the security system after entering the premises.

h. "Delayed exit" (only for the delayed arming type) – the time allowed to leave the premises after arming or disarming.

i. "Delay for entry in Stay Armed mode" (only for the delayed arming type) – the time provided for disarming the security system after entering the premises (when arming in Stay/Night mode).

j. "Delay to exit in Stay Armed mode" (only for the delayed installation type) – the time allowed to exit the premises after arming the Perimeter security mode (Stay/Night mode).

k. "Intelligent Alarm Recognition" – when enabled, motion sensors within a security group form a single "smart zone" with an alarm confirmation function. When any sensor in the smart zone is triggered, a default delay (typically 20 seconds) begins; if an alarm condition occurs on any sensor during this period, a repeated alarm is triggered, or the sensor remains in alarm until the delay expires, an alarm signal is sent to the security company.

l. "Arming with a broken sensor" – allows forced arming of a sensor even if it is malfunctioning, with options:

- "Forced arming after exit delay" – if the sensor does not recover after the exit delay countdown, the system switches to "Alarm" and sends an alarm notification.
- "Forced arming when the sensor is restored" – the system waits for the sensor to recover and then arms it.

m. Special Settings:

- "Disable tamper" – when enabled, the device will not respond if the case is opened.
- "Disable alarm when communication is lost" – do not generate an alarm when communication with the device is interrupted.

Device Removal

Attention! Testing will be automatically completed 30 minutes after it starts.

Launch the U-Prox Installer application or log in via the U-Prox Installer WEB portal.

Select the security center from the list.

Select the device from the list, click the "Uninstall" button, and confirm the removal.

Wireless Device States

The device displays various status indicators, including:

- Main power supply normal
- Main power supply absent
- Device case closed
- Device case open
- Battery charged
- Battery charge level indicated
- Battery critically low
- Battery defective
- Radio communication level with the security center
- No radio communication with the security center
- Zone bypass activated for the duration of protection

Service

The device normally requires minimal maintenance. Use a dry, appliance-suitable cloth to periodically clean the device case from dust and contaminants as needed.

Replacing the Battery

1. Remove the device from the backplate by sliding it upward.
2. Unscrew and remove the rear housing cover (6).
3. Replace the battery and reassemble the device.
4. Dispose of used batteries in accordance with local laws and regulations.

Compliance with Standards

The device complies with the following standards:

- RED (Radio Equipment Directive) Directive 2014/53/EU
- EU ROHS Directive 2011/65/EU, EN IEC 63000:2018
- EN 62311:2008
- EN 62368-1:2014
- EN 50130-4:2011/A1:2014
- EN 61000-6-3:2007/A1:2011
- ETSI EN 301 489-1 v2.2.3; ETSI EN 301 489-3 v2.1.1
- ETSI EN 300 220-1 v3.1.1; ETSI EN 300 220-2 v3.2.1

- EN 50131-1 Grade 2, Class II (and related parts)

Warranty Obligations

The warranty period for the U-Prox device (excluding batteries) is 2 years from the date of sale. If the device is not functioning properly, please contact

support@u-prox.systems

; the issue may be resolved remotely.

The Scope of Delivery

1. U-Prox PIR VB device;
2. CR123A battery (pre-installed);
3. Wall bracket;
4. Corner bracket;
5. Installation kit;
6. Quick start guide.

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