

When adding the detector to Orion NOVA X SCP/Orion NOVA X (LTE) SCP using **oLoader II** software, the assigning and activation processes occur automatically by doing the following: scanning the QR code and pressing the **"Start"** button **(6)**.

When adding the detector to Orion NOVA S (LTE), Orion NOVA M (LTE), Orion NOVA L (LTE) SCPs, it is necessary to add the detector to the SCP settings and do the following:

1. **The detector is assigned** to the SCP using oLoader II software (creating a new wireless zone and entering the detector serial number) or Control NOVA II software (entering the detector serial number for the previously created wireless zone using the oLoader II software). Assignment and adjustment (sensitivity, time parameters for test messages, etc.) of the detector are carried out following the SCP operating documentation.

2. After successfully assigning the detector to the SCP it is necessary to carry out the process of activating the detector (switching on, exchanging settings, and switching to operating mode with the SCP). To activate the detector, first activate the activation mode on the SCP, and then briefly press the button **(6)**. Activation of the detector lasts up to 4 seconds and is accompanied by a sounding buzzer with a period of 0.5 seconds. You can also start the activation mode using the Control NOVA II by clicking the appropriate button in the "Wireless Devices" tab of the required wireless zone from the list of available. Other ways to switch the SCP to activation mode (by means of the keypad, after switching on the SCP) are described in the installation manual the appropriate SCP. The description of the X-Motion Alarm indication after activation is given in Table 4.1.

Table 4.1 - Description of the detector indication after activation

Indication	Activation result
Three buzzer sounds	The detector was activated and added to the SCP successfully.
Two buzzer sounds	Activation failed. The serial number of the detector does not match the serial number entered in the SCP settings.
One buzzer sound	Activation failed. The detector is not within range of the wireless network, or the SCP is off or not in activation mode.

When adding the detector to the SCP using the Control NOVA II software - the processes of assigning and activating the detector occur automatically when performing the specified steps (scanning the QR code and pressing the "Start" button).

When the detector is activated and ready to work with the SCP, the buzzer sounds once upon pressing the button **(6)**.

To **switch off** the detector, press and hold the button **(6)** within 3 seconds, and after the buzzer sounds, release the button. The buzzer sounds again after executing the detector shutdown command.

Briefly press the button **(6)** to **switch on** the detector. If the detector has been added to the SCP before switching off - the buzzer will sound three times. If the detector has

not been added to the SCP, the activation process described above will start.

The detector can be **removed** by both the installer and the administrator of the Control NOVA II software in the "Wireless Devices" tab, and only by the installer using the display keypad.

To reset the detector to factory settings (and remove the detector from the SCP settings if the detector is connected to the SCP), press, and hold for 6 seconds the button **(6)** and after double sounding the buzzer - release the button. After deleting, the detector switches off.

The detector also provides measurements of temperature, the signal level of communication with the SCP, and battery charge. These values are constantly monitored by the detector and transmitted for display in the Control NOVA II software.

In search mode, the added detector's buzzer sounds 15 times with an interval of 1 sec after receiving a command.

To ensure long battery life, the detector by default generates 5 motion detection alarms per security session. The detector will react to the motion after repeated or automatic arming. The number of alarm messages from the detector is set via the oLoader II software.

5 PACKAGE CONTENTS

After unpacking, visually inspect the detector to make sure it does not have mechanical damage, check the completeness according to the table below.

Table 5.1 - Package contents of the detector

Name	Quantity, (pcs.)
X-Motion Alarm detector	1
User manual	1
Bracket (pre-installed)	1
Battery CR123A (VARTA) (pre-installed)	1
Dowel 6×30	3
Screw for the dowel 3.0×30	3
Double-sided glue tape 9×30×1	2

ATTENTION! The characteristics and package contents of the detector may be changed by the manufacturer without additional notification.

6 REGULATORY COMPLIANCE

Hereby, "Tiras-12" LTD declares that the radio equipment model X-Motion Alarm is in accordance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: tiras.technology.

The X-Motion Alarm detector is designed so that it can be operated as intended in the EU countries, without violating the applicable requirements for the use of the radio spectrum.

The X-Motion Alarm detector has no restrictions on commissioning in EU countries and does not require obtaining a permit for use.

The X-Motion Alarm detector complies with RoHS Directive 2011/65/EU.

In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the detector should be disposed of separately from household waste. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

In accordance with EU Directive 2006/66/EC, batteries (included in the product) should be disposed of separately from household waste. For proper recycling, return the battery to your local supplier or dispose of it at designated collection points.

7 WARRANTY OBLIGATIONS AND REPAIR INFORMATION

The manufacturer guarantees compliance of the detector with the declared characteristics during the warranty period of operation and under the conditions of transportation, operation, and storage.

The warranty period is 36 months and is valid from the date of sale specified below or in other accompanying documents (contract, invoice, etc.). If you do not provide a document confirming the date of sale of the detector - the warranty period is calculated from the date of manufacture of the detector.

(date of sale) (seller's signature) seller's stamp

The detector is repaired by the manufacturer or its authorized representative. The detector is repaired for free in case the warranty period has not expired, and it was operated in accordance with the accompanying documentation. For repairs, the detector is sent together with the document, which indicates the date of sale, and with a letter stating: the nature of the fault, the place of operation, and the contact person for repair.

If the detector is not working properly, please contact technical support first, perhaps this problem can be resolved remotely.

The date of manufacture of the detector and/or its serial number are indicated on the detector label and packaging.

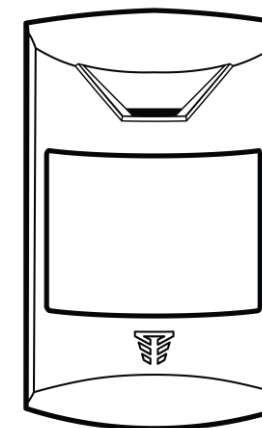
Information about limitation of liability is available in the "Warranty" section on the website: tiras.technology



8 CONTACTS OF THE MANUFACTURER

"Tiras-12" LTD, Ukraine, Vinnytsia, Khmelnytskoho Shose lane 2, b. 8

Sales department: market@tiras.ua
Technical support: support@tiras.ua
Warranty and post-warranty service: otk@tiras.ua



X-Motion Alarm

Wireless motion detector
with sounder

User manual



"Tiras-12" LTD
Ukraine, Vinnytsia,
Khmelnytskoho Shose lane 2, b. 8



More information on the site
tiras.technology

1 GENERAL INFORMATION

X-Motion Alarm is a wireless motion detector with a sounder (further – detector) designed to detect the motion of persons (with immunity to animals weighing up to 20 kg) in protected premises and to alert about an alarm using sound indication. A pyroelectric infrared sensor determines a motion by the object's infrared radiation level and a piezo buzzer creates a sound with a volume of 105 dB in case of alarm.

The detector can operate with Orion NOVA X security control panel (further – SCP), Orion NOVA X (LTE) and is compatible with Orion NOVA S (LTE), Orion NOVA M (LTE), and Orion NOVA L (LTE) SCPs with installed M-X wireless expansion module.

The detector is intended for continuous 24h work in premises with regulated climatic conditions without the direct influence of climatic factors of the external environment.

2 SPECIFICATIONS

Specifications of the detector are shown in Table 2.1.

Table 2.1 – Specifications of the detector

Parameter	Value
Sensor type	PIR
Sounder type	Piezo buzzer
Maximum sound volume (dB) at a distance of 1 m	85
Sound frequency range, kHz	1.6-3.5
Maximum motion detection distance, m	12
The angle of motion detection, horizontal	88.5°
Radio frequency range, MHz	868.0-868.6
Maximum transmitter power, mW	25
Maximum bandwidth of the channel, kHz	100
Maximum deviation of the channel frequency, kHz	6
Encryption	AES
Maximum range of radio communication in open space and in the absence of radio interference, m	3000
Battery, lithium battery, Supply voltage, V	1×CR123A, 3
Overall dimensions (L×W×H), mm	61×98×50
Weight, g	80
Protection class	IP 30
Operating temperature range at relative humidity up to 75% without condensation	from -10 °C to +40 °C
Average battery life, years or Activation lasting 1 minute at maximum power ¹ , times	3 1000
Average service life, years ²	10

Notes. 1. At an air temperature of +25°C.

2. Does not apply to the battery.

3 PREPARATIONS FOR OPERATION

When selecting an installation location for the detector, consider the presence of obstacles in front of it and the detection area (Fig. 3.1). It is also necessary to assume the possible trajectories of the intruder, as the PIR sensor is more sensitive when motion is perpendicular to the intersection of the rays and less sensitive when moving parallel to the rays.

The detector is installed on a vertical surface and at a height of 2.4 m. When installed at a different height – will change the zone of motion detection, impairing security effectiveness.

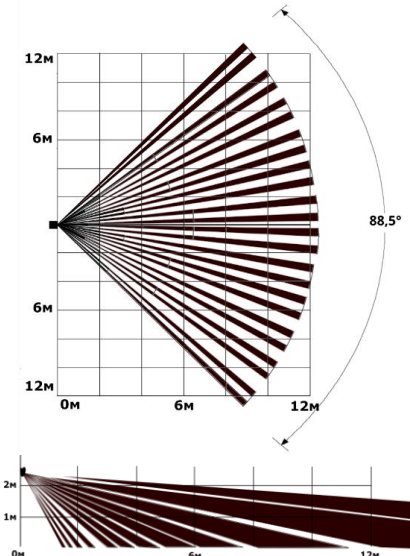


Figure 3.1 - Detection area

Do not install the detector:

- Outdoors or in areas where the range of humidity and temperature is outside the detector's acceptable limits;
- Opposite objects whose temperature changes rapidly;
- Near sources of powerful electromagnetic radiation and in places with high levels of radio interference;
- In places exposed to direct sunlight.

The detector is installed on a bracket (Fig.3.2), which is fastened with screws on a flat surface or in a corner. It is necessary to provide a clearance of at least 30 mm from the top of the bracket fixed on a flat surface or at an angle to a fixed obstacle (Fig.3.2) or at least 5 mm from the top of the detector to a fixed obstacle to remove from the bracket.

The detachable element (10) in Fig.3.3, c) on the bracket detects interference in the case and separation from the surface to which the detector is attached. The detachable element should be fixed with a screw. If the

detector is detached, the detachable element remains fixed on the surface, which will break the tamper.

After installing the detector at the place of its permanent operation, remove the factory film from the lens.

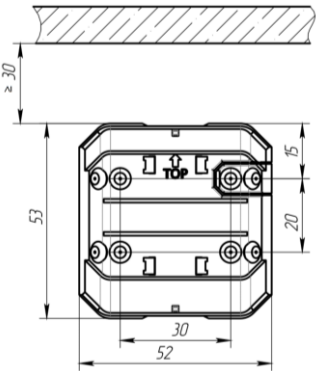


Figure 3.2 – Mounting dimensions of the bracket

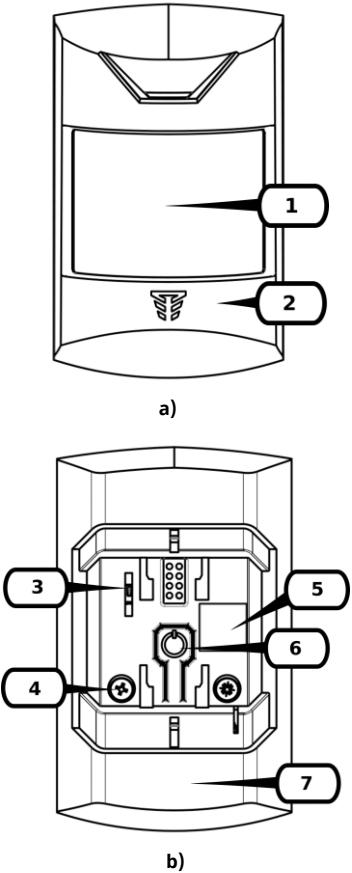


Figure 3.3 (a, b, c) - Appearance of the detector elements

- 1 – PIR element lens; 2 – front cover of the case;
- 3 – tamper button; 4 – case screw;
- 5 – QR code for assigning; 6 – “Start” button;
- 7 – back cover of the case;
- 8 – places for fastening in a corner;
- 9 – places for mounting on a flat surface;
- 10 – detachable element.

Battery replacement:

1. Remove the detector from the bracket by sliding it up.
2. Unscrew the two screws (4) and move the front cover (2) relative to the back (7).
3. Replace the battery according to the polarity indicated on the board.
4. Assemble the detector in reverse order.

Caution:

1. The printed circuit board of the detector contains static-sensitive components. To avoid damage to sensitive components before handling any boards you should discharge static electricity in your body by touching the ground.
2. Battery replacement must be performed by qualified personnel. The battery must be connected properly according to its polarity.
3. To ensure the safety of the device and the declared characteristics, it is not allowed to replace the battery with another type.
4. It is not allowed to use battery with visible damages.
5. The manufacturer is not responsible for the results of incorrect battery installation.

Each detector has a unique serial number, that can be scanned from the QR code. The QR code is located on the back cover of the detector (5) under the bracket and duplicated on the package.

The serial number is used to assign the detector to the SCP using oLoader II or Control NOVA II software.

4 OPERATION WITH THE DETECTOR

To work with the SCP, a detector should be added to the SCP settings. The addition of the detector occurs after the sequential execution of the assigning and activation processes.