

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

When the siren is activated and ready to work with the SCP, the indicator **(1)** flashes once when the button **(5)** is pressed.

To **switch off** the siren, press and hold the button **(5)** for 3 seconds, after flashing the indicator **(1)** and one short buzzer signal, release the button. The indicator **(1)** will light up and one long buzzer will sound, indicating that the command to turn off the siren has been executed.

To **switch on** the siren, press the button **(5)** briefly. If the siren was added to the SCP before it was switched off, indicator **(1)** will flash 3 times shortly. If the siren has not been added to the SCP, the activation process described above will start.

The siren can be **removed** by the installer and administrator of the Control NOVA II software in the "Wireless Devices" tab, as well as the installer by means of the display keypad.

To **reset the siren to factory settings** (and remove the siren from the SCP settings if the siren is connected to the SCP), press, and hold for 6 sec. the button **(5)** and after double blinking the indicator **(1)** and two short beeps - release the button. After removing, the siren switches off (indicator **(1)** lights up and buzzer long beeps).

The siren also provides measurements of temperature, the signal level of communication with the SCP, battery charge. These LED indicators are constantly monitored by the siren and transmitted and displayed in the Control NOVA II software.

Added siren in **search mode** (activated using Control NOVA II software) after receiving the appropriate command – LED indicator **(1)** flashes.

5 PACKAGE CONTENTS

After unpacking, visually inspect the siren to make sure it has no mechanical damage, check the completeness according to Table 5.1.

Table 5.1 - Package contents of the siren

Name	Quantity, (pcs.)
X-Siren	1
User manual	1
Battery AA (pre-installed) (Energizer ULTIMATE LITHIUM)	4
Bracket	1
Dowel 6×30	4
Screw for the dowel 3.0×30	4
Screw 3.0×12	4
Leg	4

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

6 REGULATORY COMPLIANCE



Hereby, "Tiras-12" LTD declares that the radio equipment model X-Siren 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-Siren 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-Siren has no restrictions on commissioning in EU countries and does not require obtaining a permit for use.

The X-Siren complies with RoHS Directive 2011/65/EU.



In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the siren 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 batteries to your local supplier or dispose of them at designated collection points.

7 WARRANTY OBLIGATIONS AND REPAIR INFORMATION

The manufacturer guarantees compliance of the siren 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 siren - the warranty period is calculated from the date of manufacture of the siren.

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

The siren is repaired by the manufacturer or its authorized representative. The siren 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 siren 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, contact person for repair.

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

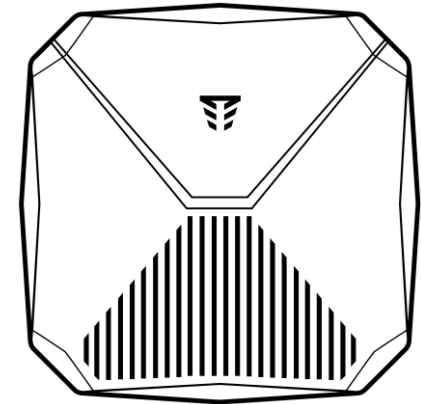
The date of manufacture of the siren and/or its serial number are indicated on the siren label and packaging.

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



8 CONTACTS OF THE MANUFACTURER
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Sales department: market@tiras.ua
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X-Siren
Wireless outdoor siren

User manual



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



More information on the site
tiras.technology

1 GENERAL INFORMATION

X-Siren is a wireless outdoor siren (further – siren) designed for sound and light alert. The siren is self-powered but also allows the connection of an external 12V power supply. The X-Siren is compatible with the Orion NOVA X security control panel (further – SCP) and with Orion NOVA S (LTE), Orion NOVA M (LTE), Orion NOVA L (LTE) SCPs with the installed M-X wireless expansion module.

The siren is designed for continuous 24h work and has ingress protection according to environmental class IV (IP54), which allows it to be placed outside the premises.

2 SPECIFICATIONS

Technical specifications of the siren are given in Table 2.1.

Table 2.1 – The siren specifications

Parameter	Value
Sounder type	Piezo buzzer
Maximum sound volume (dB) at a distance of 1 m	105
Sound frequency range, kHz	1.6-3.5
Radio signal frequency range, MHz	868.0-868.6
Maximum transmitter power, mW	25
Maximum bandwidth of the channel, kHz	100
Maximum channel frequency deviation, 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	4xAA 3
External power supply, DC, V	9.3 – 15.2
Maximum current consumption from external power supply, mA	400
Overall dimensions (L×W×H), mm	121×121×42
Net weight, g	350
Protection class	IP 54
Operating temperature range at relative humidity up to 75% without condensation	from -25°C to +60°C
Average battery life, years	5
Average service life, years ¹	10

Note. 1. Does not apply to batteries.

3 INSTALLATION AND CONNECTION

The minimal recommended installation height is 2.5 m. This will make it difficult for attackers to access the siren.

Do not mount the siren:

- Near sources of powerful electromagnetic radiation and in places with a high level of radio interference.
- In places exposed to direct sunlight.

The siren is installed on a bracket (Fig. 3.1), which is fixed to a flat surface by means of screws. It is necessary to ensure a distance of at least 50 mm from the top of the bracket fixed on a flat surface to a fixed obstacle (Fig. 3.1) or at least 8 mm from the top of the siren to a fixed obstacle for the possibility of removal from the bracket.

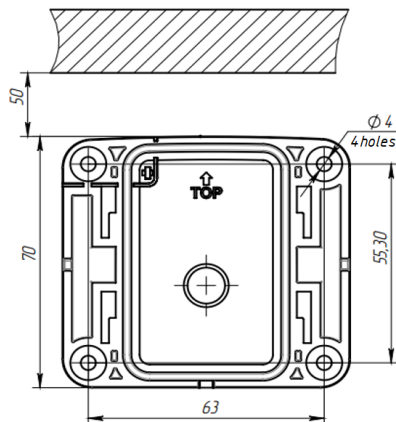


Figure 3.1 – Installation dimensions of the siren bracket

The detachable element (9 in Fig. 3.2 c) on the bracket is designed for tamper detection and case separation from the surface. The detachable element must be fixed with a screw. When the siren is separated from surface, the detachable element remains fixed on the surface, which will break the tamper.

Before installing the siren on the bracket, make sure that the sealing cord (12 in Fig. 3.2 c) is present and sits tightly in the gutter. In the absence of a sealing cord, the tightness of the case will be violated.

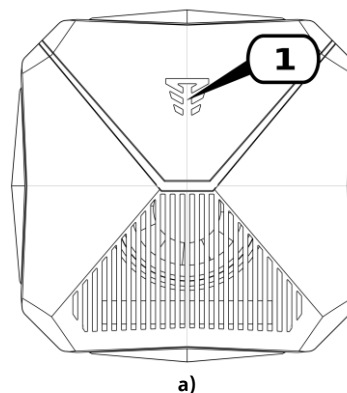
Caution:

1. Installation and connections must be carried out with the external power supply disconnected.
2. Printed circuit board of siren 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.
3. Battery replacement must be performed by qualified personnel. To ensure the safety of the device and the declared characteristics, it is not allowed to replace the batteries with another type. It is not allowed to use batteries with visible damages. The batteries must be connected properly according to their polarity. The manufacturer is not responsible for the results of incorrect installation of batteries.
4. Do not wipe off the silicone sealant, as this may result in poor sealing of the device.

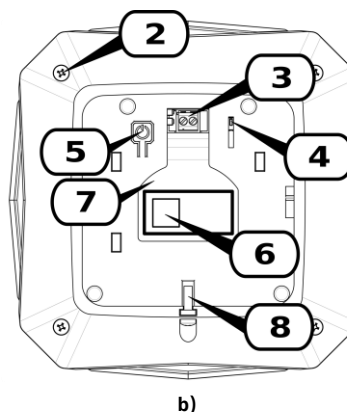
The external power supply is connected using the 12V terminal block (3 in Fig. 3.2 b). To connect the siren to an external power supply, it is necessary to make a hole for the cable in the bracket in a specially designated place (10 in Fig. 3.2 c).

WARNING! Before installing the siren, make sure that there is no damage in the insulation of the wires!

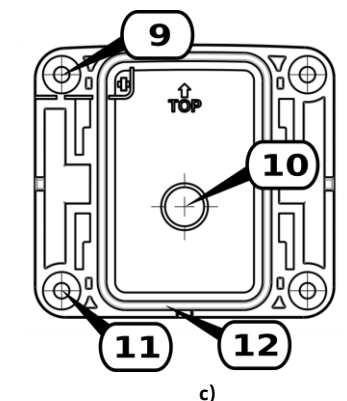
Insert the cable into the recess (7 in Fig. 3.2 b), install the siren on the bracket and fix the bracket with the screw (8 in Fig. 3.2 b).



a)



b)



c)

Figure 3.2 (a, b, c) – The Appearance of the siren elements

- 1 – Light indicator; 2 – case screw;
- 3 – 12V terminals; 4 – tamper button;
- 5 – "Start" button; 6 – QR code for assigning;
- 7 – a place for wires laying; 8 – bracket fixing screw;
- 9 – detachable element; 10 – the cable entry hole for external power supply wires;
- 11 – a hole for a screw; 12 – sealing cord.

Battery replacement:

1. Remove the siren from the bracket by unscrewing the fixing screw (8 in Fig. 3.2 b) and moving the siren up.
2. Unscrew four screws (2 in Fig. 3.2 b) and separate the front and rear parts of the case.
3. Replace the battery, following the polarity indicated on the board.
4. Assemble the siren in reverse order.

4 OPERATION WITH THE SIREN

Each siren has a unique serial number, which is specified in the QR code and duplicated below it. The QR code with the serial number is located on the back cover of the siren under the bracket and duplicated on the package.

The serial number is used to assign the siren to the SCP by means of oLoader II or Control NOVA II software.

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

1. **The siren is assigned** to the SCP using **oLoader II** software (entering the siren serial number) or **Control NOVA II** software (entering the siren serial number for the previously created wireless device in oLoader II software). Assignment and adjustment (volume, time parameters for test messages, etc.) of the siren is carried out in accordance with the operating documentation on the SCP.

2. After successfully assigning the siren to the SCP it is necessary to carry out the process of activating the siren (switching on, exchanging settings, and switching to operating mode with the SCP). To activate the siren, first activate the activation mode on the SCP, and then briefly press the "Start" button. Activation of the siren lasts up to four seconds and is accompanied by a blinking indicator (1) with a period of 0.5 s. You can start this mode of operation of the SCP using the Control NOVA II software by clicking the appropriate button in the "Wireless Devices" tab.

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 siren indication after activation is given in Table 4.1.

Table 4.1 - Description of the siren indication after activation

LED Indication	Activation result
Blinking three times	Successful activation of the siren and addition to the SCP
Blinking twice	Activation failed. The serial number of the siren does not match the serial number entered in the SCP settings.
Blinking once	Activation failed. The siren is not within range of the wireless network, or the SCP is off or not in activation mode.