

Dama outdoor

Installation manual

Last updating 04 of July 2024

MANUAL PRINTING

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INTRO

DAMA OUTDOOR is a **wireless outdoor siren** with power up to 112 dB at 1 meter, the flashing light is red high intensity that ensures a vision from afar. It installs and configures quickly thanks to easy-fix support and ensures a 5-year life with pre-installed batteries. The aesthetic line is pleasant thanks to a careful design study.

It is made of weather and UV resistant ABS. Thanks to the particular design of the gaskets guarantees a maximum water tightness and is in compliance with IP55.

OPERATION

DAMA OUTDOOR works within the **D'AVINCI system** with a range of up to 1500 meters (in free space) by connecting, via radio, directly to the **Lisa control panel or via Automa repeater**. The communication is **bidirectional** (transmission/reception) with the indication of confirmation of receipt and command. In the case of obstacles such as walls, objects, etc. the range is reduced. It uses a high-efficiency piezoelectric transducer that can deter any attackers. It also has tamper anti-tampering able to instantly signal the removal from the wall and the opening of the body.

The **communication protocol**, like the connections between all the components of the system, is the **GENIO**, encrypted and protected from interception.

Configuration takes place via **D'AVINCI app** downloadable for free from IOS and Android.

The Siren operates on **two frequencies in the 868 MHz band**, **automatically** and **dynamically** positioned on the one that is **free or less interfered**.




DEVICE CONFIGURATION IN THE D'AVINCI

SYSTEM

Warning. Before adding the device:

- **Install the D'AVINCI** app, available for iOS/Android, on your smartphone.
- **Create an account.** Add a **D'AVINCI** Control Panel, save the necessary settings and create at least one **Room**
- Make sure the Control Panel is on and has internet access via Ethernet cable.
- Make sure that the **Control Panel is off** and not running updates by checking its status via the mobile application.

To add a device to the control panel, in the D'AVINCI app ¹

1. Select the Tab **Device** ² 
2. Click on **Add Device** 
3. **Name** the device
4. Insert **the serial number** of the device shown on the label or click on **icon**  to scan the code via the app.

5. Select the associated **Room** for the device.

6.

Click Add – a countdown will start.

7.

Remove the tab from the batteries, so as to Power the device (see installation phase of the device).

The siren LEDs will emit flashes when it is switched on.

When paired with the control panel, the siren will appear in the list of devices in the AVINCI App.

The connection request to the Control Panel is transmitted for a short period of time as soon as the device is switched on.

If the connection to the AVINCI control panel fails, turn off the detector for 5 seconds and repeat the procedure.

¹ *Installer privileges are required.*

² *To start the configuration procedure, the device must be within the radio communication zone of the associated Control Panel.*

INSTALLATION OF THE SIREN

Make sure that you have selected the ideal installation location according to the guidelines in this manual.

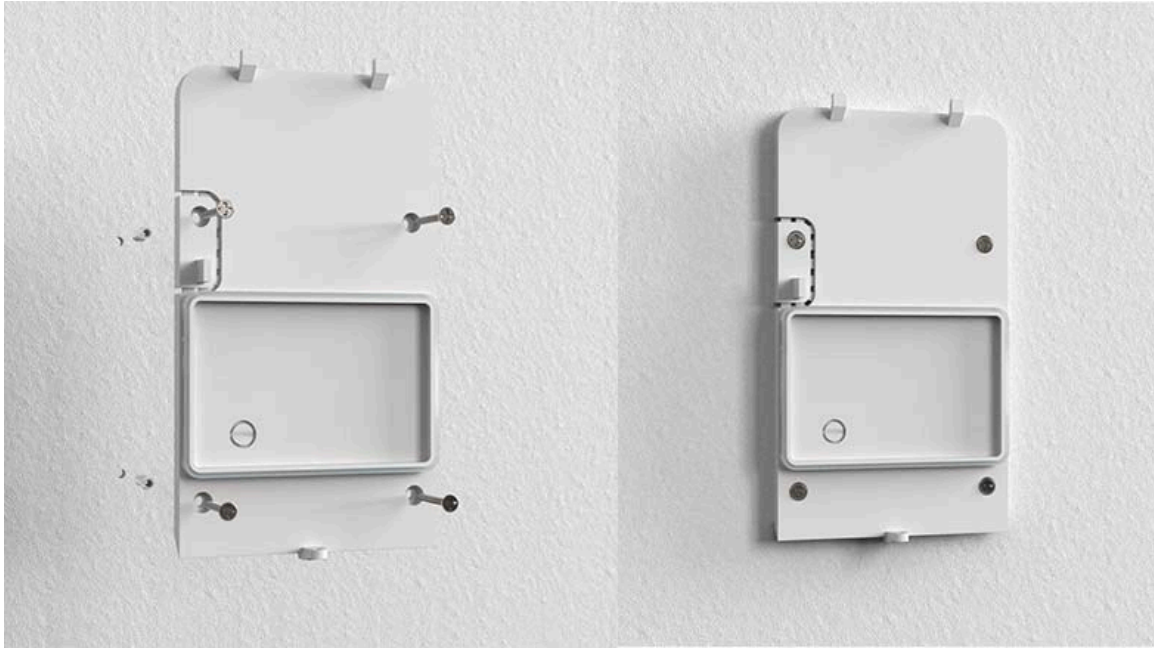
The place of installation of the siren affects the connection with the control panel and any obstacles between the devices can block the transmission of the radio signal. Such obstacles can be walls, floors or large objects within a room. Be sure to install the siren on a flat surface, in a position not easily accessible in such a way as to minimize the risk of tampering.

If the signal level is low, stable operation of the safety system is not guaranteed. Please take any measures to improve the signal quality!

First, try to move the device

If this is not enough and the device still has a low or unstable signal strength, use a **radio signal repeater**.

To install the device:



Fix the support to the wall through the supplied screws.

Remove the tabs from the batteries.

Fix the Siren on the support with the special locking screw.

Do not install the siren:

- Close to metal objects or mirrors which could attenuate or block the radio signal

- Next to other radio devices (gsm/wireless router/etc.) to avoid mutual interference
- In environments where the temperature or humidity values may exceed the limits specified in the characteristics

OPERATING SETTINGS

The detector settings can be changed in the **D'AVINCI app** (Installer privileges are required):

1. Go to device tab
2. Select the device from the list.
3. Go to settings by clicking on the icon (gear)

DEVICE NAME

Siren name , display in the device list and as notification text.
It can hold up to 24 characters

ROOM

Selecting the virtual room to which the device is assigned the environment name appears in notifications.

Note: Changing this parameter requires Administrator privileges

SIREN VOLUME

Allows you to adjust the acoustic intensity of the device.

- Disabled
- Low
- Normal
- High

REPORTING TIME

Sets the duration of the device's signal.

[5 – 180] seconds

SOUND TONE

Sets the sound tone of the siren.

[1 – 8] seconds

TAMPERING ALARM

Allows you to enable/disable the device acoustic warning in case of tampering

ALERT STATUS ARMED

Enables/disables the visual indication of the device when it is armed.

- Never: visual signalling is not enabled
- Inserted: visual signalling is enabled to implant inserted.

ACOUSTIC SETTINGS

Enables/disables the acoustic indication of the device.

–**Switched on/off**: If enabled, the siren warns of on and off with a light indication and a short beep.

–**Switched on/off Stay** : if enabled, the siren warns of the insertion and the

Stay mode deactivation with a light indication and a short acoustic signal.

–**Input delay**: If enabled, the siren will sound, with a short beep, a late entry

–**Output delay**: if enabled, the siren beeps for a short delay on exit.

–**Stay mode input delay**: if enabled, the siren signals with a short signal

acoustic, a delay at the entrance in Stay mode

–Stay mode output delay: if enabled, the siren signals with a short signal

acoustic, an outgoing delay in Stay mode

REPEATER

Enables the connection of the device to the system through a repeater (Automa).

- Repeater number: indicates the number of the repeater to which the device is associated.

VERIFICATION OF RADIO CONNECTION

Enables alarm warning in case of failure to communicate with the central. If disabled, the report of failure to connect to the central will be exclusively archived.

Ping interval: time interval, in seconds, between a transmission of survival and the next in the absence of activation.

- [12 :600] seconds

Ping number: number of connection attempts before failure report radio communication

- [1 : 15]

RADIO SIGNAL INTENSITY TEST

With this function, the device after pressing the START button processes a test where it will indicate the signal level , flashing the led n times depending on the result obtained.(1-4)

TEST VOLUME

With this function, the device after pressing the START button will perform an acoustic test.

EXCLUDE DEVICE

By selecting this button, the device is completely excluded from the operation of the system, not signaling alarms or events.

No: The device works normally and transmits all events/alarms

All: The device does not execute the sent commands. The system ignores the device and its notifications.

Lid Only: The system ignores notifications about activating the (tamper) button

tampering with the device.

REMOVE DEVICE

Dissociate the detector from the Control Panel, removing it from the app and deleting the device settings.

INTENSITY GENIO SIGNAL

The level of the radio signal **GENIO** is determined by the number of packets sent by the detector and the actual number of packets received by the associated control panel.

To display the signal strength select the card Devices and the signal level field **GENIO**

0 = No radio signal, no connection to control panel.

- = Poor radio signal, unstable connection with the Control Panel , operation of the detector not guaranteed.
- = Low radio signal, low signal strength.
- = Good radio signal, good signal strength.
- = Excellent radio signal, optimal signal strength.

Check the radio signal strength before the final installation of the device. In case of low or unstable signal it is recommended to use the Automa repeater.












DEVICE STATUS

The status shows information and parameters of operation of the device.

To view the status:

- 1.** Access the D'AVINCI application
- 2.** Select the Control Panel on which the detector is associated
- 3.** Go to Devices tab

4. Select the detector

Icon	Description	Note
	Connection status	<ul style="list-style-type: none"> - Online: connection established with the control panel - Offline: connection error with the control panel
	Genio signal level	<ul style="list-style-type: none"> - 0 - 1 - 2 - 3 - 4
	Battery level	<ul style="list-style-type: none"> - 25 % - 50 % - 75 % - 100 %
	Tamper status	<ul style="list-style-type: none"> - Alarm - Regular
	External power supply status	<ul style="list-style-type: none"> - Disconetted - Connected
	Siren Volume	<ul style="list-style-type: none"> - Disabled -Low - Normal - High
	Reporting time	5 sec. / 3 Min.
	Beep tone	1 / 8
	Signaling status inserted	<ul style="list-style-type: none"> - Never - Inserted
	Device exclusion status	<ul style="list-style-type: none"> - No - Total - Lid only
	Repetear use	<ul style="list-style-type: none"> - NO - YES (1-5)

REPLACING THE BATTERIES

The battery life of the siren depends on the battery quality, the frequency of activation and the duration of the acoustic device and the ping interval between the siren and the control panel.

If the battery of the detector is low, the user receives a notification via app

Unscrew the mounting screw from the wall bracket

Release the Siren from the stirrup.

Remove the empty batteries and replace them with new ones.

Reassemble the Siren on its bracket and tighten the screw to lock it.

WARNINGS AND MALFUNCTIONS

A malfunction appears if:

- the siren is removed from the installation location or the siren cover is opened
(tamper anti-tampering active)
- No radio communication between power station and siren
- The siren battery is low

Event	Indication	
Start device	All LEDs flash for 3 seconds	
Alarm	It beeps and the frame flashes red	
System armed	Flashing yellow LED with one break of 10 seconds	
Setting	The led frame flashes once and emits a short beep	
Unsetting	The led frame flashes 2 times and emits a short beep	
Flat battery inserted	Yellow LED flashes for 3 seconds	

TECHNICAL SPECIFICATIONS

Type of device	Outdoor siren (Piezoelectric Transducer)
Acoustic signal	3 min, configurable via app
Anti sabotage protection	<ul style="list-style-type: none">- antijammer- tamper anti opening and anti tear
LED Indication	<ul style="list-style-type: none">- System signal inserted with yellow LED

	- Alarm signal 4 red LED with high brightness, with signaling mode configurable via app
Additional input	Yes for 12 volts power supply
Radio communication protocol	Genio
Operating frequencies	868.20 MHz 868.95 MHz
RF signal power	13 dBm
Modulation	GFSK
Radio signal range	Up to 1500 m
Power supply	4 CR123A – 12V batteries
Battery life	5 years
Installation	Outdoor
Protection class	IP55
Operating temperatures	from -25°C to +55°C
Maximum allowable humidity	Up to 95%
Dimensions	195x198x45 mm
Weight	604 grams

CERTIFICATION

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