



**i4 Technology LLC**

Microphone, dictaphone and eavesdropping device jammer

# **BugHunter DAudio bda-6**

User manual



This User Manual contains key features, operating instructions (intended use, maintenance, repair, storage and transportation) of Microphone, dictaphone and eavesdropping device jammer BugHunter DAudio bda-6 (hereinafter – device).

The device is designed to protect conversation areas from eavesdropping. The device blocks radio microphones, wired microphones and most of professional digital voice recorders including smartphone voice recorders\*. The device emits inaudible ultrasonic interference\*\* to suppress eavesdropping devices.

*\* The manufacturer can not guarantee complete jamming of absolutely all brands and kinds of microphones and eavesdropping devices as it doesn't have possibility to test all the devices available on the global market.*

*\*\* Ultrasonic pressure level of the operating device at a distance of 1 meter or less may exceed the maximum safety emission level and cause a health threat!*

Before using the device, please carefully read this User Manual.

The device has long service life and works efficiently if used according to the Manual's recommendations.

# 1. DEVICE DESCRIPTION AND OPERATION

## 1.1. Description

It is a portable device designed to protect conversation areas from eavesdropping.

## 1.2. Device operating instructions:

- surrounding air temperature ..... from +5 to 55 °C (41...131 °F)
- relative air humidity at 25 °C ..... up to 98%
- atmospheric pressure ..... from 66,6 to 106,6 kPa (from 500 to 800 mmHg)

### 1.3. Technical specifications

1.3.1. Visual appearance of the device is shown on Figure 1.



Figure 1 – Visual appearance of the device

#### 1.3.2. Device characteristics:

- Dimensions, less than ..... 345 x 290 x 145 mm
- Weight, less than ..... 4 kg
- Built-in power supply ..... 12 V
- Battery capacity ..... 7 A\*h
- External source of power supply ..... 18 V
- Maximum current consumption from charger ..... not more than 2,5 A
- Effective (maximal) range of jamming ..... up to 10 m
- Effective (optimal) range of jamming ..... up to 4 m
- Sound pressure level at 1 m distance ..... not more than 124 dB
- Battery life ..... not less than 2 h
- Battery charging time ..... 5-8 h

## 1.4. Package content

Package content is shown on Table 1.

Table 1

Nº	Description	Quantity
1	Microphone, dictaphone and eavesdropping device jammer BugHunter DAudio bda-6	1
2	External power supply source AC 50 Hz, 110/220 V	1
3	Remote control	2
4	Individual package	1
5	User Manual	1

## 1.5. Configuration and functioning

1.5.1. The device's configuration is shown on Figure 2.

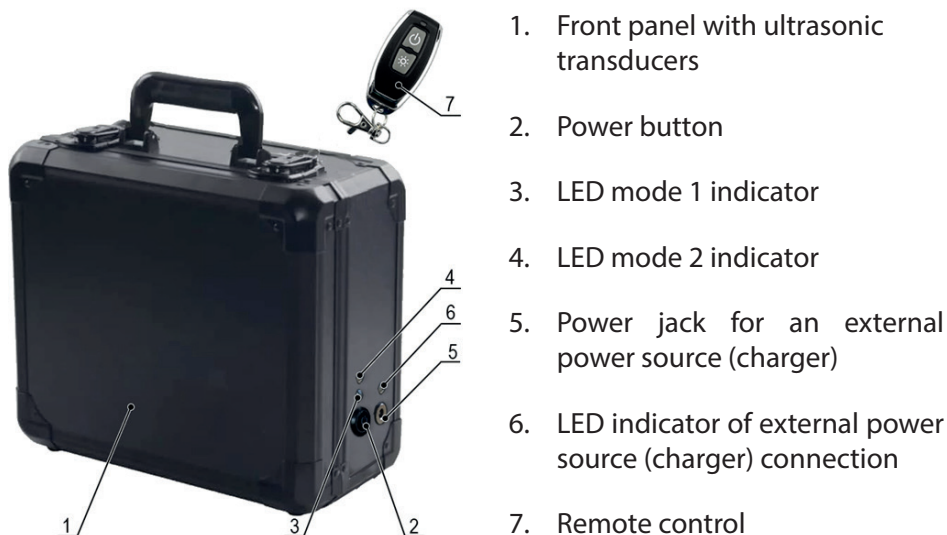


Figure 2 – The device's configuration

1.5.2. The device operates under command of micro controller with special software.

1.5.3. The device's transducers emit high frequency sound waves (pattern of the sound is determined by software according to the specially developed

algorithm).

1.5.4. The device is powered by the built-in 12V 7Ah battery or the external power supply unit (charger). The battery is charged from the external power supply unit (charger) included in the package contents.

1.5.5. The device is portable and is designed as a suitcase.

1.5.6. The device has 2 operation modes (2 patterns of ultrasonic emission). Use the remote control to turn the device on and off and select a mode.

1.5.7. The device displays the selected mode, battery charge level and process of charging.

## **2. INTENDED USE**

### **2.1. Operating restrictions**

2.1.1. Ultrasonic pressure level of the operating device at a distance of 1 meter or less may exceed the maximum safety emission level and cause a health discomfort!

2.1.2. Do not stay close to the operating device, it may cause headache and temporary hearing loss.

2.1.3. Do not damage the transducers located on the device's front panel. Their damage leads to malfunction, reducing the efficiency and disabling the device.

2.1.4. Do not cover the operating device's front panel with your hands, cloth, etc.

2.1.5. Keep the device out of reach of children!

2.1.6. The device may be audible to and cause a negative effect on pets (cats, dogs, rodents, etc.). Please avoid using the device in their presence if possible.

2.1.7. Keep the device with fully charged battery. Do not allow deep battery discharge to extend its service life. Use the included power supply unit (charger) only.


### **2.2. Device usage**


2.2.1. The front panel of the device should be pointed at the possible eavesdropping devices (voice recorder, microphone, spy bug, etc) location, for

example, at your clients, visitors, negotiating table, etc. The optimal distance from transducers to eavesdropping device's microphone is up to 4 m.

Do not block the way from the device with objects as ultrasonic waves do not penetrate through hard materials and will be reflected. Always position the device between the recording device and the speaking person whose speech is to be protected.

#### 2.2.2. Turning on/off the device:

Press the Power button (2, fig. 2) to turn the device on. Press  button on the remote control. One of the mode indicators (3 or 4, fig. 2) will light up. The transducers start to emit ultrasonic interference. Turn the device off in the same way.

2.2.3. Adjust the device if needed. Press  button to select one of the modes. Mode 1 is the most efficient, while mode 2 is more appropriate for hidden usage as the emission is almost inaudible.

#### 2.2.4 Battery charge level indication:

- mode indicator (3 or 4, fig. 2) is lit — the device is operating, battery charge level is more than 50%;
- mode indicator (3 or 4, fig. 2) flashes once in 1 second — the device is operating, battery charge level is more than 25%;
- mode indicator (3 or 4, fig. 2) flashes twice in 1 second — critical battery level (less than 25%), please, connect the external power supply unit (charger).
- mode indicator (3 or 4, fig. 2) is not lit — the device is not operating (ultrasonic interference is not emitted), the battery is completely discharged, please charge the device.

2.2.5 Connect power supply unit (charger) to the power jack (5, fig. 2) to charge the battery. LED indicator of external power source (charger) connection (6, fig. 2) is lit in red while charging\*. When charging is finished, the indicator (6, fig. 2) goes out.

*\*In case of critical battery level or poor battery condition, the indicator of external power source connection can light up in a few minutes, not immediately.*

## 3. MAINTENANCE

Maintenance requires in-time battery charging and cleaning the device's surface if necessary.

## 4. TYPICAL PROBLEMS AND POSSIBLE SOLUTIONS

Typical problems and possible solutions are specified in Table 2.

Table 2

Problem	Possible reasons	Possible solution
LED mode indicator (3 or 4, fig. 2) does not light up and ultrasonic interference does not emit after turning the device on with the remote control	Power button (2, fig. 2) is not pressed	Turn the device on according to 2.2.2 point of the Manual
	The built-in battery is discharged	Charge the battery
	The remote control battery is discharged	Replace the battery
	The device is defective	Take the device to the service center
LED indicator of external power source connection (6, fig. 2) does not light up after connecting the charger	Deep battery discharge	Wait for 1-30 minutes while the battery is being restored with a small charging current
	The device is defective	Take the device to the service center

## 5. PACKAGING, STORAGE AND TRANSPORTATION

Each device is supplied in an individual cardboard box according to the package contents specified in Table 1. The device is fixed in order to prevent its moving inside the package.

Packaged devices can be transported by vehicle or railway in covered trucks or containers, or by air.

Packages should be protected from precipitation and direct sun rays during transportation.

### Transportation conditions:

- Ambient air temperature: from -50 up to 50 °C;

- Relative humidity: up to 95 % at 25 °C;
- Atmospheric pressure from 84 up to 107 kPa (from 630 to 800 mmHg);
- Shock acceleration peak value is up to 147 m/s<sup>2</sup> (15 g), with a duration from 10 to 15 ms.

The requirements indicated on warning signs must be strictly obeyed when loading and transporting.

## 6. MANUFACTURER WARRANTY

6.1 The manufacturer guarantees that the product conforms to the applied requirements under the operating, storage and transportation conditions specified in the Manual.

6.2 The device's service life — 5 years.

6.3 Manufacturer warranty — 12 months from the date of purchase.

6.4 If the device fails during the warranty period, the supplier (manufacturer or companies providing maintenance services) should replace or repair it at its own expense.

6.5 Customer loses the right to obtain warranty service in the following cases:

- after warranty period expiration;
- violation of the operation, transportation and storage instructions;
- mechanical damages causing device failure after the purchase;
- manufacturer warranty seal is broken.

6.6 Repairing and maintenance of the device with an expired warranty period are covered at the customer's expense.



Manufacturer has the right to amend and change the device characteristics to improve its efficiency.

Manufacturer's technical support: [www.en.i4technology.ru](http://www.en.i4technology.ru)

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Questions concerning the replacement and after-sales service should be directed to the distributor that completed a sale.