

DELIVERY SET

- **SPYSONIC 21XL+** jammer – 1 pcs.
- Power adapter – 1 pcs.
- Key to switch power – 1 pcs.
- User's manual – 1 pcs.

TECHNICAL DATA

Characteristic	Min	Typ	Max	Units
Supply voltage of jammer	7.5	12	12	V
Supply voltage of power adapter	100	220	240	V
Supply current in jamming mode	–	0.8	1.0	A
Frequency range of interference (2 bands)	24.4	25.0	25.6	kHz
	17.5	18.0	18.5	kHz
Type of interference selection	ULTRANOISE or ULTRASOUND			
Adjustment of interference power	3 levels			
Overload and reverse polarity protection	Yes			
Operating temperature	-20	–	+50	°C

Data in **Typ** column is at 20°C and 12V.

Appearance of the jammer may slightly differ from the version described in this manual.

GUARANTEE AND SALE MARKS

Manufacture guarantee for faultless work of the electronics within 3 years since the date of sale.

SELLER _____

DATE OF SALE _____

www.spysonic.ru

SPYSONIC 21XL+

2nd GENERATION DUAL BAND ULTRASONIC JAMMER

USER'S MANUAL

GENERAL DESCRIPTION



SPYSONIC 21XL+ is a 2nd generation dual band ultrasonic jammer of audio recorders with 2 working modes: **ULTRASOUND** & **ULTRANOISE**. The jammer is disguised as desktop speaker. Approximate speaker dimensions (cm): 25x15x18. Number of ultrasound transmitters: 16 + 1.

Ultrasonic jammer of audio recorders (jammer of audio transmitters, jammer of wired microphones, suppressor of audio recorders in mobile phones) is an ultrasound generator that affects microphones and preamplifiers of various recording devices.

Although not providing 100% guarantee of suppression, 2nd generation dual band jammers exceed 1st generation jammers not only in jamming distance, but in the number of types of devices suppressed. In addition to wired microphones Shoroh, MKU and majority of voice recorders Edic, **SPYSONIC 21XL+** suppresses all iPhones, including iPhone6, microphones in laptops and headsets, as well as various bugs.

ULTRANOISE & ULTRASOUND

Operating modes **ULTRANOISE** and **ULTRASOUND** are 2 different algorithms of formation of ultrasonic noise.

COMMON IN ULTRANOISE AND ULTRASOUND MODES

Ultrasonic carrier is modulated by noise signal of audible range. In sound recorder microphone this modulated signal turns into loud noise which covers all other sounds. In the 2nd generation jammers, 2 ultrasonic frequencies are used, which significantly expands the number of types of recording devices suppressed.

DIFFERENCES IN ULTRANOISE AND ULTRASOUND

The main difference is the modulation depth of the ultrasonic carrier. Ultranoise mode has maximum depth of modulation, which provides maximum suppression, but the signal of the jammer is heard by the human ear as a sound resembling the background AC sound of unattached loudspeaker. In Ultrasound mode the jammer is almost silent, but the radius of suppression decreases approximately 1.3 - 1.5 times.

CONTROLS AND INDICATORS



At the back panel of the speaker there is a power connector, red power button combined with on/off indicator and green Ultranoise/Ultrasound switch button. In rare need to reduce the power of the jammer, it can be done using the switch on the power supply adapter (See Power Adjustment).

USAGE

To activate the device, just connect the power supply and press the red button. It is advisable to point the jammer toward possible location of sound recording device. Often the optimal location of the suppressor is under the table, as close as possible to the place of the probable location of an audio recorder. We recommend using the jammer without decorative cover, as its fabric absorbs about 10% of the power of ultrasound.

SWITCHING JAMMING MODES

In **ULTRANOISE** mode the sound of the jammer is perceived by the human ear as a light crackling. If you want the suppressor to work as quietly as possible, you should enable silent mode **ULTRASOUND** by pressing the green button.

POWER ADJUSTMENT

If it is necessary to reduce the power of ultrasound, voltage can be reduced from 12 to 9 or 7.5 volts. To do this, unplug the AC adapter and switch the yellow arrow to the desired voltage using the key that came with the power supply. Do not install the power supply voltage below 7.5 volts.

CONDITIONS OF EXPLOITATION

SPYSONIC 21XL+ can be used over a wide temperature range (-20°C ... + 50°C) with humidity up to 95%. Operating in direct exposure to rain or snow is not allowed. In the event of a short circuit or reverse polarity, **SPYSONIC** has built-in protection.

APPROXIMATE DISTANCES OF SUPPRESSION

Efficiency of suppression is not the same for various devices.

For iPhones (4 & 5) and most Chinese transmitters (bugs) jamming distance is more than 10 meters. For iPhone 6 the distance is 1 - 2 meters and depends on series of iPhone 6. For video cameras, microphones in headsets and laptops, suppression distance is in the range 2 - 5 meters. For some smart phones the distance of suppression may not exceed 1 meter.

In Ultrasound mode the radius of suppression decreases approximately 1.3 - 1.5 times.