

DELIVERY SET

- **SPYSONIC PANEL XXL+** jammer – 1 pcs.
- Power adapter – 1 pcs.
- Adjusting resistors – 4 pcs.
- User's manual – 1 pcs.

TECHNICAL DATA

Characteristic	Min	Typ	Max	Units
Supply voltage of jammer	7	9	10	V
Supply voltage of power adapter	100	220	240	V
Supply current in jamming mode	–	2	3	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-2 or ULTRASOUND-2			
Adjustment of interference power	4 levels			
Overload and reverse polarity protection	Yes			
Operating temperature	-20	–	+50	°C

Data in **Typ** column is at 20°C and 9V.

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 PANEL XXL+

HIGH POWER 2nd GENERATION DUAL BAND ULTRASONIC JAMMER

USER'S MANUAL

GENERAL DESCRIPTION



SPYSONIC PANEL XXL+ is a high power 2nd generation dual band ultrasonic jammer of audio recorders with 2 working modes: **ULTRASOUND-2** & **ULTRANOISE-2**. The jammer is made as panel, which can be installed into ceiling, wall or some office furniture. Panel dimensions (cm) 32x22x3. Number of ultrasound transmitters: 60 + 4.

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.

Compared to **SPYSONIC 21XL+**, **SPYSONIC PANEL XXL+** provides 2 times bigger jamming range. The jammer suppresses all iPhones, including iPhone6 and iPhone6 plus, microphones in laptops and headsets, as well as various bugs.

ULTRANOISE & ULTRASOUND

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

COMMON IN ULTRANOISE-2 AND ULTRASOUND-2 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-2 AND ULTRASOUND-2

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 times.

CONTROLS AND INDICATORS



At the back of the panel there is a power connector, red power button combined with on/off indicator and green Ultranoise/Ultrasound switch button.

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. Placing the jammer on the ceiling usually is not the best option, because in such a way the jammer is closer to persons' heads than to possible recording devices. 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.

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 change the power of ultrasound, voltage can be change within 10 to 7 volts. To do this, unplug the AC adapter and change the adjusting resistor on the side of the adapter. We supply 10V, 9V, 8V and 7V resistors. The recommended voltage is 9V. To slightly increase power, change it for 10V. To decrease power, use 8V or 7V resistors.

CONDITIONS OF EXPLOITATION

SPYSONIC PANEL XXL+ 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

SPYSONIC PANEL XXL+ provides probably the best range of suppression, but its efficiency is not the same for various devices.

For iPhones 4 and 5 and most Chinese transmitters (bugs) jamming distance is more than 10 m. For iPhone 6 and iPhone 6 plus the distance is 3 - 5 m. For video cameras, microphones in headsets and laptops, suppression distance is in the range 4 - 8 m. For some smart phones the distance of suppression may not exceed 2 m. In Ultrasound mode the radius of suppression decreases approximately 1.3 times. If microphone is covered with some cloth, the jamming distance is reduced.