

## Ultrasound microphone jammer

# USJ-03-Sector



**Ultrasound jammer USJ-03-Sector is a powerful device intended to prevent unwanted eavesdropping or making an unauthorised recording using various spy and recording devices, e.g.:**

- GSM a UMTS spying devices
- radio spying devices
- mobile phones and PC
- digital and analog dictaphones
- spying devices based on microphone, placed in various things like button, tie, watch, videorecorder and many other common recording devices

### How it works

- The device operates on the principle of saturation the spying device microphone with ultrasound which is of proper frequency and it results into input amplifier circuits limitation.
- Frequency combination of ultrasound is generated with respect to elimination of local points (nodes) with low level of ultrasound. Device uses two ultrasound ranges 21 and 25kHz, this enhances the efficiency of the device greatly.
- USJ-03-Sector is designed to cover space by ultrasound in horizontal range of approx. 90°. Vertical angle of ultrasound beam is approx. 50°, so device is suitable to be installed especially in corners of protected space.
- Acoustic signal corruption caused by ultrasound and by limitation of electric signals in device circuits makes original audio signal unrecoverable.
- Device is intended to be installed in corners of room. Optionally it can be placed on a table or other flat surfaces as standalone unit. For this case there is an option with **built-in Li-Ion cells<sup>(\*)</sup>** and integrated charger board. It may also be mounted on the **ball joint<sup>(\*)</sup>** anywhere on the wall or ceiling and aimed to proper direction.



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## Optional accessories:

### Ball joint

There is standard photographic 1/4" thread on the back side of the device. It allows to place the device on an tip/tilt or ball joint mount and aim it to the proper direction. You can use any commercially available model or ask supplier for an suitable type.

### Built in Li-Ion cells

Standard USJ-03 model used as wall-mounted has power terminal screws only, placed inside on the board. For standalone portable use, device can be supplied with second board consisting of Li-Ion cells, charger circuits and standard 5.5/2.5mm DC plug socket for 12V DC adapter (adapter is included). The another use of the Li-Ion cells can be power backup of the wall mounted devices.

The USJ-03-Sector device is equipped with an **integrated switch-off timer** that is set by the manufacturer for a three-hour period. This time period can be changed when requested. (through the service connector inside the device, which can be reached after the cover is taken off)

As a part of the device there is the **remote control** for switching it on and off.

## Technical data (preliminary)

- type description: USJ-03
- power supply: 12 V DC / 1.5 A minimum (10 to 14V)
- maximum power consumption: 18 W
- ultrasound frequency: 21kHz + 25kHz
- horizontal ultrasound beam angle: (-6dB loss): ~ 90°
- vertical ultrasound beam angle (-6dB loss): ~ 50°
- sound pressure level: 110 dB at 1m distance
- operating temperature range: 0 to 30 °C
- material: ABS plastic
- colour: Ivory RAL 9002, opt. painted to black RAL9005
- intended for use in dry indoor environments only

### Portable model:

- type description: USJ-03-A
- built-in Li-Ion cells, 4 x 3.6 V, 3400 mAh
- power supply 12 V DC / 2A
- accumulator operation: ~ 3h
- other specifications are identical to stationary model