

Noiseless Acoustic Safe ASU-20 "Safebox"

Ultrasonic noiseless acoustic safe ASU-20 is designed to protect speech and any other acoustic information from leakage through smartphones, tablets and headsets. The acoustic safe is a box made of natural wood with a built-in ultrasonic acoustic noise generator. The dimensions of the box allow to place up to 20 phones in it. Thanks to the use of powerful noise emitters in close proximity to the microphones of the protected devices, reliable suppression of any acoustic information is ensured. Unlike passive acoustic boxes and jammers, that turn on suppression only when the phone is active, a constantly working jammer in the ultrasonic acoustic safe guarantees complete blocking of smartphones' and headsets' microphones. When the lid is closed, the box works silently. Reception of incoming calls and messages is **not** blocked. When phones are in the box, the sounds of calls and messages are heard from the outside, and all external sounds inside the box are muted. The operating time of the acoustic safe is not limited.

In the era of push-button telephones, listening to a room through a telephone microphone seemed like a paranoid idea. With the advent of smartphones, this has become a reality. A group of scientists from Northeastern University in 2018 [analyzed 17,260 applications from Google Play](#) and found that 9,100 of them had access to the camera and microphone, and several hundred of them were constantly transmitting the user's media information to their servers. How obtained information can be used - one can only guess.

In addition, there are dozens of programs for Android and iOS that anyone can purchase and use to covertly listen to a room through a smartphone. The search query "[listen to phone surroundings](#)" produces a large number of links to such applications. Conversations may not be transmitted immediately, but recorded in a phone's memory and only then (when network available) be uploaded to the attacker's server. In such a situation, conventional cell phone jammers and Faraday cages are not effective. The best solution is to securely block microphones of phones and headsets during conversations to prevent leakage of any acoustic information.



Working with the Device

- Connect the power adapter to the connector on the back of the box. The switch on the power supply is recommended to be set to 9V, which corresponds to power level 4. Positions from 4.5 to 12V are possible, corresponding to power levels from 1 to 5. Our tests showed that at the power level 3 (7.5V) full microphones suppression of more than 30 various tested phones was provided.
- Open the box, put the phones and headsets in there and press the red button. The indicator should start flashing periodically (to the beat of random noise generation). Close the lid.
- On finish of negotiations, take out the phones and turn off the device by pressing the red button again.

Specifications

- Supply voltage: from 4.5 to 12V (adapter 100-240V, 50-60Hz included)
- Consumption: no more than 250mA @ 12V
- Total power of acoustic emitters: up to 2W
- Type of interference: ultrasonic pseudo-random frequency hopping signal (floating spectrum noise)
- Switchable power levels: 5
- Operating mode: continuous
- Switching on/off: manual
- Number of protected phones: up to 20
- External dimensions / internal dimensions of the safe: 359x244x59 mm / 330x200x50 mm
- Packing dimensions and weight with packing: 391x252x60 mm, 1.3 kg

Contents of Delivery

- Acoustic safe – 1 pcs
- Power adapter with a key – 1 pcs
- Device passport – 1 pcs
- Packaging – 1 pcs

Available Colors

- Light wood
- Red wood
- Dark wood
- Oak (check availability)

Conditions for Storage and Operation

In a warehouse, the product must be stored in a packages at an ambient temperature of +5°C to +40°C and a relative humidity of up to 80%. Quantity in a stack is not more than 10. Operation is allowed at temperatures from 0°C to +40°C and relative humidity up to 90%.

Acceptance Certificate and Manufacturer's Warranty

The manufacturer guarantees the correct functioning of the product subject to the rules of storage and operation. Warranty period is 3 years from the date of sale.

Acceptance Certificate	The device has been manufactured and found working according to specifications. Date of manufacture: _____ Serial number: _____ Manufacturer's stamp and signature of the responsible for acceptance: _____ STAMP
Manufacturer's Warranty	Date of sale: _____ Seller's stamp and signature: _____ STAMP