PHONE SAFE ULTRA

PROTECTION AGAINST A MOBILE PHONE'S SURROUNDINGS LISTENING AND RECORDING

Obviously mobile phones have an infinite number of benefits for communication and business; however, they also create certain threats of information leakage. One of the potential leakage channels is the phone's microphone being able to pick up surrounding acoustics with a high sensitivity. The PHONE SAFE ULTRA has been developed by information security professionals to protect against this exact type of threat.
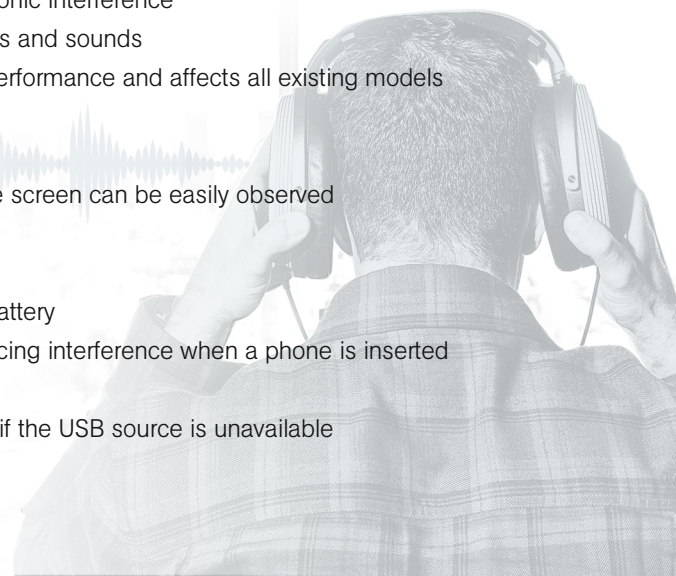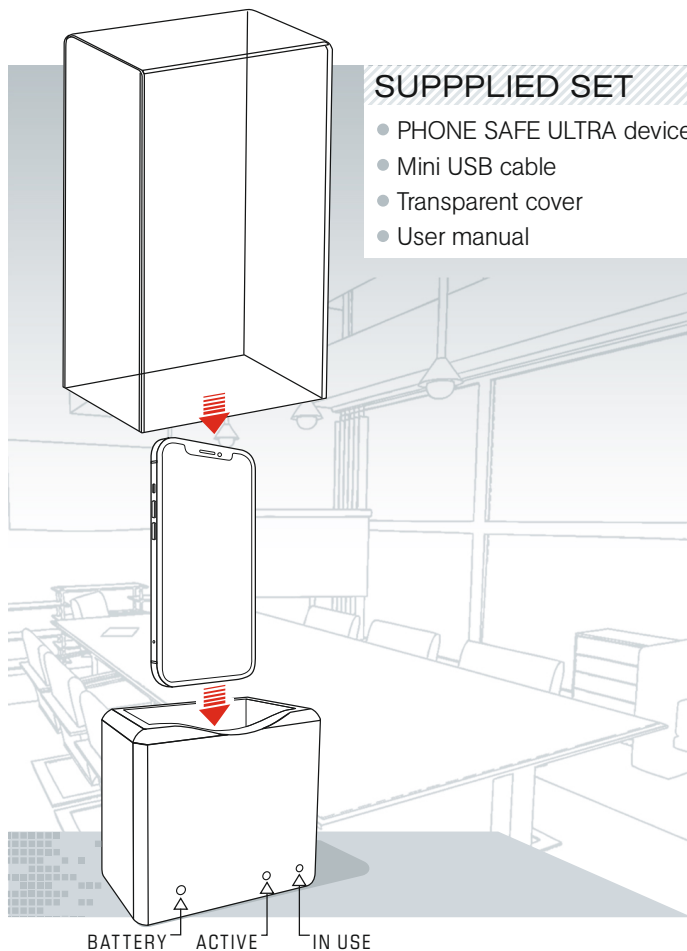
While developing this product the following features and vulnerabilities of modern phones were taken into account:

- The phone can be intentionally, or covertly, 'off-hook' during important negotiations
- Voice recording software can intentionally, or secretly, run on the smartphone
- Listening software can run in a 'stealth' mode
- Spyware can be installed on the smartphone without the owner's knowledge, allowing attackers to activate covert eavesdropping around the phone. There are known cases of transmission of such software by exploiting the vulnerabilities of some messengers
- The acoustic environment around the phone can be transmitted to the server, or cloud service of the attackers either in real time or with a postponed uploading
- Smartphone apps which have access to the phone's microphone can be used for eavesdropping in cases of them having been hacked (usually messengers or social network apps)
- Uploading of information can be done in the following ways: conventional voice call, mobile internet, Wi-Fi, Bluetooth, the phone's connector

FEATURES AND ADVANTAGES

- Blocks the microphone of the phone with the help of non-filterable ultrasonic interference
- Efficiently prevents surround recording apps from capturing conversations and sounds
- The frequency of interference has been optimally selected for the best performance and affects all existing models of smartphones
- Made with the design of an attractive natural wood stand
- The acoustically isolated phone can remain close to the owner where the screen can be easily observed
- The phone stays online and available for incoming calls
- No illegal radio jamming
- Can be powered by the external USB, or from the built-in rechargeable battery
- Has 2 sensors, increasing the battery's resource: the device starts producing interference when a phone is inserted (IN USE sensor) and a conversation is present (ACTIVITY sensor)
- The rechargeable battery provides a continuous working time of 6 hours if the USB source is unavailable
- Is compatible with all types of phones (max. width 88 mm)

SUPPPLIED SET

- PHONE SAFE ULTRA device
- Mini USB cable
- Transparent cover
- User manual

FEATURES

INTERFERENCE

Type of interference	Ultra sound
Frequency	20 kHz
Power of noise	<2 W in the active area
Guaranteed suppression area	10 cm from the transducer

DIMENSIONS AND WEIGHT

Dimensions	114 * 105 * 79 mm
Compatible phones	Width up to 88 mm
Weight	0.5 kg

POWER

Source	1) USB 5V 2) Built-in rechargeable battery
Current consumption	500 mA (noise mode) 5 mA (stand-by mode)
Battery	Li-Ion, 3.2 B, 3200 mAh
Connector	Mini USB
Battery resource	> 6 hours
Recharging time	6 hours

OTHER

Sensors	IN USE , ACTIVE
Indicators	BATTERY, ACTIVE, IN USE, RECHARGE

BATTERY   ACTIVE   IN USE

USAGE

The PHONE SAFE ULTRA is a reliable and easy to operate device. For stationary use, or in order to recharge the battery, connect the USB charging cable to the socket on the right side of the device and the other end to a USB socket of a phone charger or computer. The 'RECHARGE' LED on the bottom of the device will glow red while charging, and will turn off when the battery is fully charged.

The 'POWER' switch, on the device's base, turns the device off and on.

The 'BATTERY' LED on the left side front of the device will change its color depending on the battery's level of charge:

- ☀ GREEN - the battery is full
- ☀ ORANGE - the battery is half discharged
- ☀ RED - the battery is low and needs recharging

Note: When the BATTERY indicator is red, the device will stop producing interference. To continue securing your phone, connect the device to a charging source (USB).

Place the PHONE SAFE ULTRA on the table/desk in front of the user and insert the phone which is to be protected inside.

Put the supplied transparent cover over the device.

The supplied cover has the following purposes:
1. Increases the efficiency against upper microphones which may be active during video recording
2. Maintains efficiency when the phone is inserted upside down
3. Isolates the interference if the user's hearing is sensitive to ultrasound

BATTERY   ACTIVE   IN USE
RECHARGE→
ACTIVITY SENSOR
POWER OFF ▮ ON

PHONE SAFE ULTRA
Protection against phone recording and spyware

The orange, 'IN USE' LED on the right side, will indicate that a phone is installed in the device.
The ACTIVITY sensor detects sound and turns on noise when there is sound. This minimizes battery discharge. When sound is present and noise is active, the 'ACTIVE' LED flashes blue.

To make sure that the interference is effective, turn on the voice recorder on your phone and insert it in the PHONE SAFE ULTRA. Do not forget to put the cover on. Create test sounds, then playback the recording.

Recommendations for use:

- The PHONE SAFE ULTRA can be used alone or as part of a wider speech protection system
- Equip the meeting room, or office, with the required number of devices, taking into account the maximum number of visitors
- For continuous use, ensure that the required number of USB ports are available near the devices