GUARDIAN ULTRASONIC -USER MANUAL

PRODUCT INTRODUCTION

Guardian Ultrasonic is an ultrasonic microphone blocker designed to protect sensitive conversations in confidential settings. Unlike traditional RF jammers, which are illegal in many regions due to their disruption of communication networks, Guardian Ultrasonic operates solely using ultrasonic waves.

It does not interfere with mobile networks, Wi-Fi, Bluetooth, GPS, or any other wireless communication systems, making it a legal and practical solution for securing private conversations.

Even while active, **calls**, **messages**, **and internet access remain fully functional**. However, any attempt to **record audio** will result in **unusable sound** due to targeted interference with smartphone microphones.

Privacy & Security by Design: Unlike some competing products, Guardian Ultrasonic does not use Wi-Fi, Bluetooth, cloud connectivity, or software updates—eliminating potential security risks. The device is designed for maximum privacy and operates completely of-

For a full list of security and connectivity details, see Security & Connectivity.

HOW IT WORKS

A common misconception is that disabling a phone's network prevents eavesdropping. Malware **or spyware** on a compromised device can **still record conversations locally** and upload them once an internet connection is available.

Guardian Ultrasonic **directly prevents audio recording** by emitting **ultrasonic interference** that disrupts smartphone microphones.

The device operates using 28 ultrasonic transmitters, discreetly placed inside the enclosure. Ultrasonic waves are emitted through the gap surrounding the smartphone resting surface, where they reflect off the box's interior structure to create an optimal interference pattern.

These ultrasonic signals shift dynamically between 23 kHz and 27 kHz, preventing modern microphones from adapting. As a result, recordings capture only a distorted, unusable signal. This highly targeted effect impacts only smartphones placed directly on

the **smartphone resting surface** (up to two at a time). Other devices in the room remain unaffected.

Important: Guardian Ultrasonic does not communicate with phones in any way—it simply emits ultrasonic waves to block microphones.

EFFORTLESS OPERATION

Guardian Ultrasonic is **designed for ease of use**, requiring **no manual adjustments**. Simply ensure the **power switch on the underside** is set to **ON**, and the device will **automatically activate** when smartphones are placed on it.

When active, the **illuminated GUARDIAN logo** signals operation. If running on **battery power**, a **warning beep and a red LED indicator** near the USB-C port will alert the user when the battery is low.

No Connectivity or External Control Required: Unlike other security devices, Guardian Ultrasonic requires no app, no remote control, and no external connections. It operates fully offline, with no updates or additional configurations needed.

For **transport or storage**, switching the device **OFF** prevents unintended activation.

Note: The use of ultrasonic microphone blockers may be subject to **legal regulations in some regions**. Please check local laws before operating this device.

SETUP AND USAGE

UNBOXING AND INITIAL SETUP

- Remove the Guardian Ultrasonic device from its packaging.
- Ensure that the device and USB-C cable are included.
- Set the power switch (on the underside) to ON before use.
- Place the device on a flat, stable surface indoors.

USING GUARDIAN ULTRASONIC

- The device automatically detects when smartphones are placed on the smartphone resting surface.
- If at least one phone is detected, the device activates ultrasonic jamming and signals this by:
 - Illuminating the GUARDIAN logo on the front side
 - Playing a short confirmation sound.
 - O RGB LED Indicator:
 - If no USB-C cable is connected → Battery status is displayed.
 - If a USB-C cable is connected → The LED shows a blue charging animation
- When all phones are removed, the device switches to low-power standby mode, and the logo light turns off.

POWER AND CHARGING

Guardian Ultrasonic features a **built-in rechargeable battery** and can also be powered via **USB-C**. Below are the **LED indicators** and their meanings for battery operation and charging.

BATTERY MODE

RGB Indicator	Battery Status
Green	Battery level ≥ 30% (Normal operation)
Orange	Battery level ≥ 20% and < 30% (Normal operation)
Red	Battery level 10% - 20% (Low battery warning)
Red blinking	Battery critically low (Device shutting down)

- Green & Orange → Normal operation.
- Red → Low battery warning. A warning tone will sound, but jamming continues.
- Red (Blinking) → Critical battery level. The device will shut down and disable all functions.

★ Important Battery Warnings:

- If the battery is critically low, the device cannot be used until recharged.
- If a phone is placed on the resting surface while the battery is empty, the device will play a warning tone, the LED will

blink red, and the **logo will not illuminate** (meaning jamming is inactive).

• Jamming is only active when the front logo is illuminated.

USB-C POWER MODE

- The device can be used immediately when plugged into USB-C, even if the battery is empty.
- Charging does not need to be completed before operation resumes.

RGB Indicator	Battery Status
Blue	Charging in progress
Green	Fully charged
Magenta	Charging error or battery issue (device can still operate via USB-C)

If the LED turns magenta, the battery may be faulty or unable to charge, but the device can still be used while plugged in.

TURNING OFF AND SAFE STORAGE

When no smartphone is placed on the resting surface, the device **automatically enters low-power standby mode** to conserve energy.

Turn the device OFF to prevent accidental activation during:

- ✓ Transport
- √ Storage
- ✓ Extended periods of non-use

Slide the power switch (on the underside) to OFF.

- In the OFF position, the device will not react to smartphones or other objects placed on it.
- Charging remains possible, and the battery status LED will still function.

This ensures the device remains completely inactive while allowing for safe storage and charging.

BEST PRACTICES FOR USE

While Guardian Ultrasonic has been tested on various modern smartphones and provides reliable microphone blocking, certain devices may require **minor adjustments** to achieve the best results.

- Place the smartphone directly on the resting surface and adjust its position or orientation if needed.
 - Check the phone's audio settings some models use stereo recording or advanced noise cancellation, which may affect performance. If available, try disabling these features.

Jamming is most effective on modern microphones. Certain older devices may have microphone designs that are more or less affected by ultrasonic interference.

If you notice unexpected behavior, we encourage you to contact us with your device model and testing details. Your feedback helps us improve compatibility and optimize performance further.

TROUBLESHOOTING AND QUICK FIXES

DEVICE WON'T TURN ON

- Check if the power switch is set to ON (located on the underside).
- If using battery power, ensure the battery is charged. Plug in a USB-C cable and check the LED indicator.
- If using USB-C power, try a different cable or adapter that meets the required voltage.

DEVICE DOESN'T ACTIVATE WHEN A PHONE IS PLACED ON IT

- Ensure the power switch is ON.
- Make sure the device has sufficient battery capacity.
- Plug in a USB-C cable and check if the LED indicator turns
- Check that the smartphone is correctly positioned on the resting surface:
- The phone should be placed either on the left or right side in the middle of the resting surface.
- Try placing a different phone on the surface, preferably a larger model.
- To trigger activation manually, touch either the left or right side of the surface with your hand.

DEVICE IS TURNED ON, BUT THE LOGO IS NOT LIGHTING UP

- The logo only lights up when jamming is active. If no phone is on the surface, the device remains in idle mode.
- Ensure the power switch is ON and the device is charged.
- Make sure at least one phone is placed correctly on the left or right resting surface.

DEVICE SPECIFICATIONS

GENERAL

- Product Name: Guardian Ultrasonic
- Model Number: GU01
- **Dimensions:** 42 mm x 253 mm x 218 mm
- Weight: ~400g (final measurement pending)
- Housing Materials: ABS plastic, Alcantara (resting surface), synthetic rubber (feet), zinc-nickel-plated steel (screws).
- Color Options: White, Black

POWER & BATTERY

- Power Input: USB-C (for charging only, does not support data transfer), 5V/3A
- Battery Type: Lithium-Polymer
- Battery Capacity: 4000 mAh
- Charging Time: ~2.5 hours
- Battery Life: >300 cycles
- Power Consumption:
 - Active mode (jamming ON, phone on surface): ~400mA
 - O Idle mode (ON but not jamming): ~5mA
 - Standby mode (power switch OFF): ~4mA

ULTRASONIC JAMMING SYSTEM

- Effective Range: Smartphones placed on resting surface
- Frequency Range: 23 27 kHz
- Sound Pressure Level (SPL): ~112dB

SENSORS & INDICATORS

- Sensors: Touch sensor for phone detection
- Indicators: RGB LED (battery/charging), illuminated GUARDIAN logo (active status), internal speaker (audio signals)

OPERATING CONDITIONS

- Intended Use: Indoor Only
- Operating Temperature: 0-45°C
 - O Maximum: -10° to 60°C
 - Recommended: 10° to 34°C
- Storage Temperature: -5°C to 30°C

SECURITY & CONNECTIVITY

Guardian Ultrasonic is designed for complete privacy and security. It has no connectivity features that could introduce security risks or external control.

- ✓ No wireless connections No Wi-Fi, Bluetooth, Zigbee, NFC, or RFID
- No data interfaces No USB data transfer (USB-C for charging only)
- ✓ No software updates The device is self-contained and does not receive firmware updates
- ✓ No wired networking No Ethernet/LAN connection
- ✓ No SIM card / mobile data No 2G, 3G, 4G, or 5G capability
- No cloud services or online functionality The device operates fully offline.
- ✓ No remote control or wireless signals No IR (infrared),
 RF (radio frequency), or other communication protocols
- No sensors beyond the touch sensor No microphone, no cameras, no motion detection, no smart tracking

The only requirement for operation is power – either via battery or USB-C charging. The device does not interact with phones placed on it—it simply emits ultrasonic waves to block microphones.

SAFETY INFORMATION AND WARNINGS

WARNING: Read and follow all safety instructions before using this device. Failure to do so may result in injury, damage, or malfunction.

GENERAL SAFETY

- This device is designed for indoor use only. Do not use it outdoors or in humid environments.
- Keep away from extreme heat sources (e.g., radiators, direct sunlight, fire). Maximum operating temperature: 40°C (104°F).
- Maintain a minimum distance of 1 meter (3.3 ft) from the device during operation.
- A small percentage of people may be sensitive to ultrasonic frequencies. If you experience discomfort, dizziness, headaches, or other symptoms while the device is in operation, increase your distance from the device or turn it off.
- Do not place small objects (e.g., coins, screws, paperclips, or other loose items) on the device, as they may fall into openings and cause internal damage. Once inside, removal may be difficult or impossible.
- Do not modify, disassemble, or attempt to repair the device yourself. Doing so voids the warranty and may cause injury or malfunction.

ELECTRICAL & BATTERY SAFETY

- Use only a USB-C power source that meets the required voltage and current specifications (5V/3A).
- Do not expose the USB-C port or charging cable to water, moisture, or conductive materials.
- The built-in battery must not be punctured, crushed, exposed to fire, or short-circuited.
- If the device emits smoke, a burning smell, or excessive heat, disconnect it immediately and place it in a non-flammable area.
- Do not keep the device permanently connected to power. Unplug when not in use to prolong battery life and prevent power waste.
- Only use certified and high-quality USB-C adapters. Using incompatible chargers may lead to battery damage, overheating, or fire.
- Do not dispose of the battery improperly. Take it to an authorized recycling facility.
- If the device is unused for an extended period, fully charge and turn it off before storing it. Recharge it at least every two months to prevent deep discharge.

USAGE RESTRICTIONS

- Do not use this device in sensitive environments such as hospitals, airplanes, or government facilities. Ensure compliance with local regulations.
- Do not use this device in critical environments, such as airports or areas where communication is essential for safety.
- Keep away from children and pets. This device is not a toy.

HANDLING & MAINTENANCE

- Do not cover the device while it is powered on, especially with capacitive materials, as this may cause unintended activation
- If you need to store or cover the device, ensure that the power switch is set to OFF to prevent accidental operation.
- Clean only with a dry, soft cloth. Do not use liquid cleaners or compressed air.
- Store in a cool, dry place when not in use.
- Do not drop, shake, or expose the device to excessive vibration.
- Any liquid damage to the internal components will void the warranty.
- If the device shows signs of damage or malfunction, discontinue use and contact customer support.

PREVENTING INTERFERENCE WITH NEARBY DEVICES

While Guardian Ultrasonic does not emit or interfere with radio frequencies (e.g. Wi-Fi, mobile networks, Bluetooth), the ultrasonic waves it uses may, in rare cases, affect nearby devices with sensitive microphones or audio components.

If you notice unexpected interference (e.g., buzzing or distortion in speakers or microphones), you can take the following steps:

- Increase the distance between Guardian Ultrasonic and the affected device
- Remove smartphones from the resting surface to stop ultrasonic emission.
- Turn off the device using the power switch on the underside. This completely deactivates the ultrasonic emitters.
- Note: Unplugging the USB-C cable is not sufficient, as the device can continue operating from its internal battery while switched on

Important:

The ultrasonic emitters are active as long as the front-facing GUARD-IAN logo is illuminated. If the logo is off, the device is inactive, and no ultrasonic jamming is taking place.

To ensure ultrasonic emission has stopped:

- Make sure no smartphones (or other objects) are on the resting surface, and
- Check that the logo is not illuminated.
- If the logo remains on even without any devices on the surface, switch the power switch to OFF on the underside of the device.

If you intend to make phone calls, use voice recording, dictate, or send voice messages, remove the phone from the device and verify that the logo is not illuminated to avoid interference with the microphone.

DISPOSAL & RECYCLING INFOR-MATION

Proper disposal and recycling of **Guardian Ultrasonic** help protect the environment and comply with local regulations. Please follow these guidelines when disposing of the device and its packaging:

PACKAGING DISPOSAL

The packaging is made of cardboard (PAP) and is fully recyclable. Please dispose of it according to your local recycling guidelines.

DEVICE DISPOSAL

Do not dispose of this product in household waste. It contains electronic components and a built-in LiPo battery, which must be properly recycled.

- As the battery is non-removable, the entire device must be disposed of as electronic waste (WEEE-compliant recycling).
- Follow your local WEEE (Waste Electrical and Electronic Equipment) regulations for proper disposal. Many recycling centers and electronic retailers accept WEEE-compliant waste.

IMPORTANT BATTERY INFORMATION

- This device contains a non-removable Lithium-Polymer (LiPo) battery.
- Do not disassemble or attempt to remove the battery.
- Do not puncture, burn, or expose the device to extreme heat.
- Dispose of the device at an authorized recycling facility or return it to an approved electronic waste collection point.

For more information on responsible disposal, please refer to **local authorities or electronic recycling facilities**.

By recycling this device properly, you contribute to environmental protection and resource conservation.

LEGAL & COMPLIANCE INFORMATION

FCC COMPLIANCE STATEMENT

This device complies with **Part 15 of the FCC Rules**. Operation is subject to the following two conditions:

- 1. This device may **not** cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Guardian GmbH could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: This equipment complies with part 18 of the FCC Rules.

CE DECLARATION OF CONFORMITY

Guardian GmbH hereby declares that the Guardian Ultrasonic device complies with the essential requirements and relevant provisions of the following European Directives:

- ✓ EMC Directive 2014/30/EU Ensures electromagnetic compatibility compliance.
- V RoHS Directive 2011/65/EU Restricts hazardous substances in electrical and electronic equipment.
- ✓ Packaging Directive 94/62/EC Ensures environmentally friendly packaging materials.

The full text of the **EU Declaration of Conformity** is available at: (TODO)

WEEE & RECYCLING COMPLIANCE

This device is marked with the **WEEE symbol** (Waste Electrical and Electronic Equipment Directive 2012/19/EU), indicating that it must be **disposed of in accordance with local regulations**.

For proper disposal and recycling guidelines, please refer to the **Disposal & Recycling Information** section.

Do not dispose of this product as household waste.

TEST REPORTS & CERTIFICATION DOCUMENTS

Full compliance test reports and official declarations of conformity are available on our website: www.projectguardian.eu/compliance (TODO)

MANUFACTURER INFORMATION

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MORE INFORMATION & OFFICIAL DOCUMENTS

For additional product details, user guides, and certification documents, visit:

 Official Website
 https://www.projectguardian.eu

 Support & Downloads
 https://www.projectguardian.eu/support

WARRANTY & CONSUMER RIGHTS

This product is covered under standard consumer protection laws applicable in your country.

- European Union (EU): Under EU law, this product is subject to a minimum 2-year statutory warranty (legal guarantee), provided by the seller, covering manufacturing defects existing at the time of delivery.
- Other Regions: Warranty rights may vary depending on local consumer protection laws.

This does not cover:

- Damage cause by misuse, modifications, or unauthorized repairs.
- Normal wear and tear.
- Battery degradation over time.
- For further details on consumer rights and claims, please contact us directly via <u>contact@projectguardian.eu</u>