

||||| UpTone Audio |||||

ISO  
REGEN

User Guide

Made in U.S.A.

## Thank you for purchasing an UpTone Audio ISO REGEN.

This unique device takes the USB audio stream from your computer or music-streamer, and **generates a completely new USB data signal of very high integrity to feed to your DAC.** It accomplishes this by combining a carefully chosen USB 3.1 hub chip with 5 ultra-low-noise regulators and an ultra-low-phase-noise clock. Importantly, it does so with ideal impedance matching—right at the input of your DAC. In addition, **ISO REGEN provides true galvanic isolation** of data, ground, and power lines, further eliminating upstream factors which can negatively affect sonic performance in audio systems.

ISO REGEN also replaces the computer's noisy 5 volt bus power with **extremely clean 5VBUS** on its output—for DACs that need it.

### **Your ISO REGEN kit includes:**

- The REGEN with USB 2.0 'B' input and USB 2.0 'A' output.
- A world-voltage compatible, 22 watt/7.5V/2.93A, switch-mode power supply and a short, detachable AC mains cord.
- Our proprietary USPCB A>B Adapter, an impedance-controlled, circuit-board-based adapter to attach the REGEN to your DAC.
- A 15cm male/male USB A>B cable (for use only if your physical set up does not permit the use of the USPCB).
- A 3-year, transferrable warranty.

## Installation and use of the ISO REGEN is simple:

### **Power:**

The REGEN requires external power in the range of 6~8 volts +DC (the jack size is 5.5mm x 2.1mm). This is normally supplied either by an included 7.5V SMPS or ideally by an UpTone [UltraCap LPS-I](#). (Please read notes on our website if you wish to consider powering your REGEN with a voltage outside the 6~8V range.) The small red LED on the input side of the REGEN will light when power is applied. **ISO REGEN also requires 5 volt USB VBUS power**—from the USB cable connected to its input—to power the upstream side of its special galvanic isolator chip.

### **Connections:**

The REGEN can perform its functions at either end of your USB cable, but is **most effective when placed at the DAC end**. Attach the 'A' end of your own USB cable to your computer or other USB audio source, and the 'B' end to the REGEN jack marked "INPUT."

For connection of the REGEN to your DAC, please use the supplied [USPCBA>B Adapter](#) for best results. Plug the adaptor into the jack marked "OUTPUT," and then the entire assembly into your DAC's USB audio input. (Place a cube of foam or wood under the REGEN to support it if you are concerned about strain on the jacks.)

### **Recognition by computer:**

The ISO REGEN uses a high-speed hub controller compliant with USB 2.0 standards. No software drivers are required. Once powered and attached to your computer, it should be immediately recognized as a USB hub, and any USB device attached to the “OUTPUT” jack of the REGEN will be seen as connected via that hub. You may need to check your operating system and player software preferences/control panels to confirm that your DAC is being seen “through” the hub.

The ISO REGEN has been tested on Windows, macOS, and Linux, and with a variety of DACs that use their own specialized software drivers. So far, compatibility has been 100%.

If your music player application or computer does not immediately “see” your DAC, please first turn your DAC off/on, check again, and then reboot your computer with the REGEN and DAC attached. In rare cases, you may need to reinstall the DAC driver software.

### **Defeating the isolation:**

The red switch on the REGEN should normally remain in the down position, towards the letters ISO. Only in very rare cases (typically in systems where no component is grounded) will you need to try the switch in its up (“ON”) position, which defeats the unit’s isolator chip. Such instances will be discussed on our website.

We hope the ISO REGEN enhances your music system.

UPTONEAUDIO LLC • MARIPOSA • CALIFORNIA • U.S.A.

Phone 1-209-966-4377 • [uptoneaudio.com](http://uptoneaudio.com)