



User Manual

engineered by SONNECT®

Your Sound Bullet

Congratulations!

You now own *your* personal **Sound Bullet**.

Conceived and designed to streamline your workflow; the Sound Bullet is your pocket-sized tool for confirming audio inputs, outputs and anything in between.

Using your Sound Bullet to prevent and locate faults quickly and effectively will help you and your sound team ensure a solid and reliable signal infrastructure.

Why all this? Simple:

Help you become a better sound engineer.

We thought we'd make this small enough to fit in your pocket, so it's always available when you need it!

I really hope you enjoy using your Sound Bullet.

A handwritten signature in black ink that reads "David Sealecraft". The signature is fluid and cursive, with "David" on the first line and "Sealecraft" on the second line.

2 Year Warranty

Sonnect guarantees the function of the Sound Bullet for a period of two years from the date of purchase. If the product becomes defective or malfunctions within two years of purchase, Sonnect will either repair the product free of charge or replace it.

These guarantee provisions do not cover damage caused by accidents, transportation, incorrect use, carelessness, third party modifications, operation with non-specified outputs or inputs, Phantom Power voltages and currents outside of P48 standards (IEC 61938:2018) or charging adaptors non-compliant with USB power supply standards. The warranty will become void by carrying out any repairs or services by third parties.

The full Terms and Conditions can be found on the Sonnect website:

www.sonnectaudio.com/termsandconditions

To obtain the benefit of this warranty, simply contact us at hello@sonnectaudio.com

Declaration of Conformity



CE Compliance Statement

We, the manufacturer, do hereby declare that this device is compliant with the limits of the European Council directive on the approximation of the laws of the member states relating to electromagnetic compatibility according to RL2004/108/EG and European Low Voltage Directive RL2006/95/EG.

Disposal and Recycle



According to the guideline RL2002/96/EG (WEEE - Directive on Waste Electrical and Electronic Equipment), valid for all European countries, this product has to be recycled at the end of its service life. In the event that the disposal of electronic waste is not possible, the recycling can also be done by Sonnect. For this, the device has to be sent free to the door to:

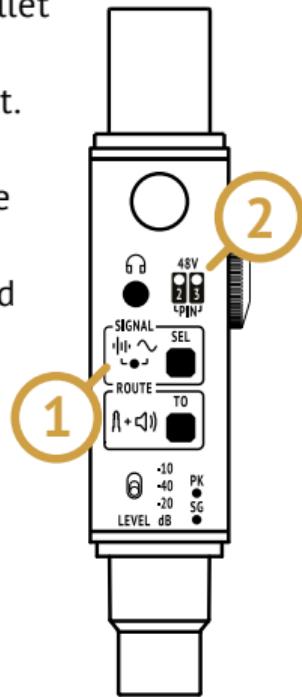
Sonnect S.r.l.
Via Arturo Ferranti 5, 06055
Marsciano PG, Italy

Product Overview

1. Signal Generator

When switched on, the Sound Bullet generates pink noise, which is routed to the male XLR by default. Press the **T0** button to route the generator to the 1/4" Jack and the internal speaker/Mini-Jack. A 1 kHz sine wave can be selected by pressing the **SEL** button.

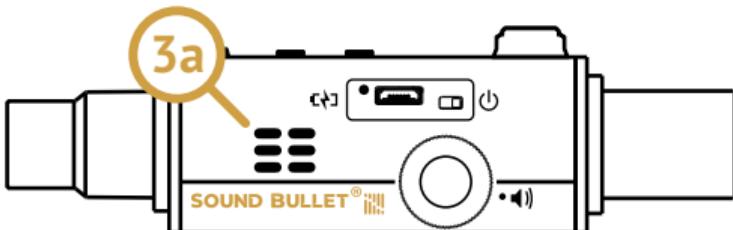
The generator's output can be adjusted to three levels: -40, -20 and -10 dBu.



2. 48V check

The Sound Bullet checks for Phantom Power voltage, which is individually metered on pins 2 and 3 of the male XLR. Two dedicated LEDs will illuminate according to the P48 voltage standard ($48V \pm 4V$).

If the voltage detected is below 44V and above 24V, the LEDs will flash slowly.

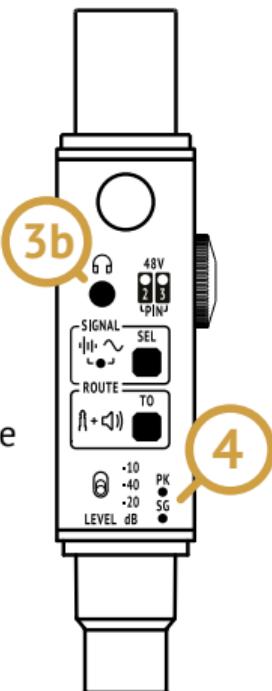


3. Speaker/Mini-Jack

The internal speaker (3a) reproduces signals present on the female XLR or the 1/4" Jack.

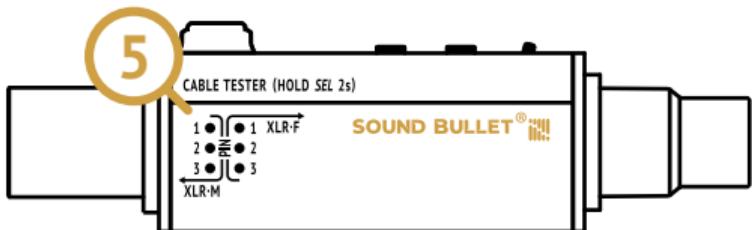
The speaker and Mini-Jack output (3b) share the same internal amplifier whose output level is adjusted by the side thumbwheel. If a 3.5mm Jack (headphones) is plugged into the Mini-Jack port, the speaker mutes and its output is routed to the Mini-Jack.

Routing the internal generator to the 1/4" Jack (by pressing **T0**) will also route it to the speaker and Mini-Jack.



4. XLR Input Metering

Two LEDs will illuminate according to the RMS amplitude of the signal present on the female XLR. The **SG** LED is lit when the signal exceeds -20dBu RMS, and the **PK** LED lights up when the signal exceeds +10dBu.

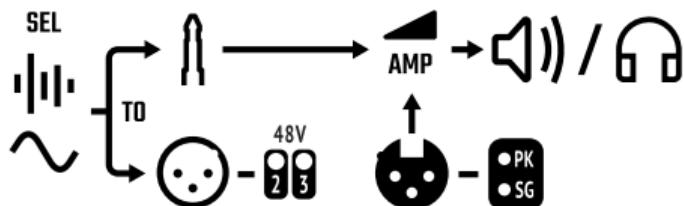


5. XLR Cable Tester

An XLR cable can be plugged into either end of the Sound Bullet in order to conduct a continuity test on the XLR pins 1, 2 and 3. To enter (and exit) this function, press and hold the **SEL** button for 2 seconds. To cycle the pin under test press the **T0** button.

Conceptual Diagram

The following diagram sums up the Sound Bullet's internal signal flow:



Examples of Use

Line-check a multicore

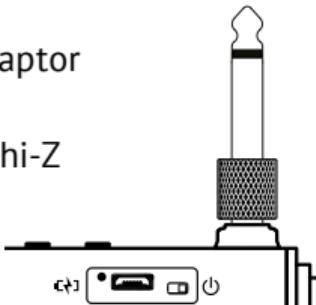
The Sound Bullet can test lines of a multicore line system connected to the inputs of a sound console. Activating Phantom Power on the input channels desired to be checked will allow for simultaneous test of all three cores of the XLR line. Simply switch on the Sound Bullet, which will start to generate pink noise, and plug it into the XLR line. The operator at the sound console will listen out for the pink noise while the sound engineer on the other end will check the 48V indication on the Sound Bullet (see table). This will determine if all pins of each XLR line are functional, and confirm that the patch is correct.

48V 	XLR Line
	Line OK
	PIN 1 defective
	PIN 2 defective
	PIN 3 defective

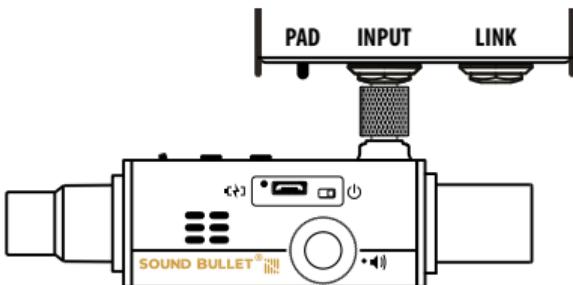
Test a DI box

Outputting an unbalanced signal via the 1/4" jack is very useful for quickly confirming one or multiple DI boxes connected to a mixing console.

The provided 1/4" Jack-Jack adaptor allows you to quickly plug the Sound Bullet straight into the hi-Z input of a DI Box.



Simply switch on the Sound Bullet, which will start to generate pink noise. Direct the generator to the 1/4" Jack by pressing **T0**. As a confirmation, you'll hear pink noise coming out of the speaker*, along with the function LED turning blue. With the Jack adaptor inserted, plug the Sound Bullet into the DI box and check for pink noise being received at the mixing console.



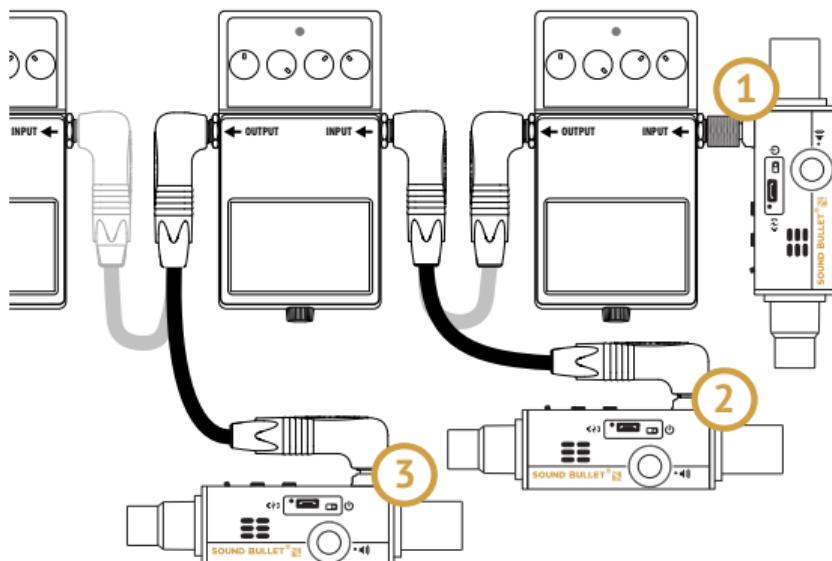
**Adjusting the speaker's volume by the thumbwheel will not affect the output of the 1/4" Jack.*

Troubleshoot pedalboards

The Sound Bullet can be used as a quick diagnostic tool to troubleshoot FX pedalboards.

Press the **T0** button to switch between sending and receiving audio via the 1/4" Jack. This will allow you to quickly inject a signal into the input (1, 2) of FX pedals or listen to their outputs (3).

By tapping into each segment of the FX chain you can effectively detect which pedal contributes to the issue; testing out one effect unit at a time.



Check XLR feeds

Thanks to its internal speaker, your Sound Bullet can test balanced feeds layed out for wireless or hardwired IEMs, self-powered speakers or speaker amps/processors, recording and camera feeds.

When the Sound Bullet is switched on, signals present on the female XLR or 1/4" Jack are reproduced by the internal speaker by default. Make sure the mixing console is sending either pink noise, music or any other type of audio into the line you are testing and simply plug that line into the Sound Bullet.

The input meter on the Sound Bullet will give you indication of signal presence '**SG**' or of the signal being very loud, '**PK**'. This feature is very useful in noisy environments, or if you can't get your ear close enough to the Sound Bullet's speaker.

If you require a more accurate listening to the signal, plug your headphones into the Sound Bullet's Mini-Jack output and adjust its output level with the volume thumbwheel on the side.

Charging

Charge your Sound Bullet using the provided Micro-USB cable. Please use a standard USB charger (5V, 500mA). Charging your Sound Bullet takes around one hour and the device can be used while charging.

Battery

The LED by the Micro-USB port  indicates the charging state while the Sound Bullet is being charged. The LED lights up red while the battery is charging, and turns off when it's fully charged.

The function LED next to the **SEL** button will blink



SEL

white as a warning when the battery is:

- **Low** → 3 white blinks
- **Discharged** → 6 white blinks

Consider recharging your Sound Bullet when the first 'low battery' warnings appear.

The device may be used while 'discharged', however doing so may damage the battery and the main functions will stop after a few seconds.

Technical Specs

Typical Values and Tolerances

		XLR	1/4" unbal Jack
Generator	1 kHz Tone ($\pm 1\text{dB}$)	-40, -20, -10 dBu	-40, -20, -10 dBu
	Pink Noise ($\pm 1\text{dB}$)	-40, -20, -10 dBu	-40, -20, -10 dBu
Input meter	'SG' threshold	-20 dBu	n/a
	'PK' threshold	+10 dBu	n/a
Impedance	Output	350 Ω	600 Ω
	Input	3 k Ω	600 Ω / 3.5 k Ω
Voltages	P48 detection	fixed: 44>52 V flash: 24>44 V	n/a
	Cable-tester DC	3.3 V	n/a

Warning: the Sound Bullet shouldn't be used to test Party-Line intercom systems.



Get in touch!



www.sonnectaudio.com



hello@sonnectaudio.com

