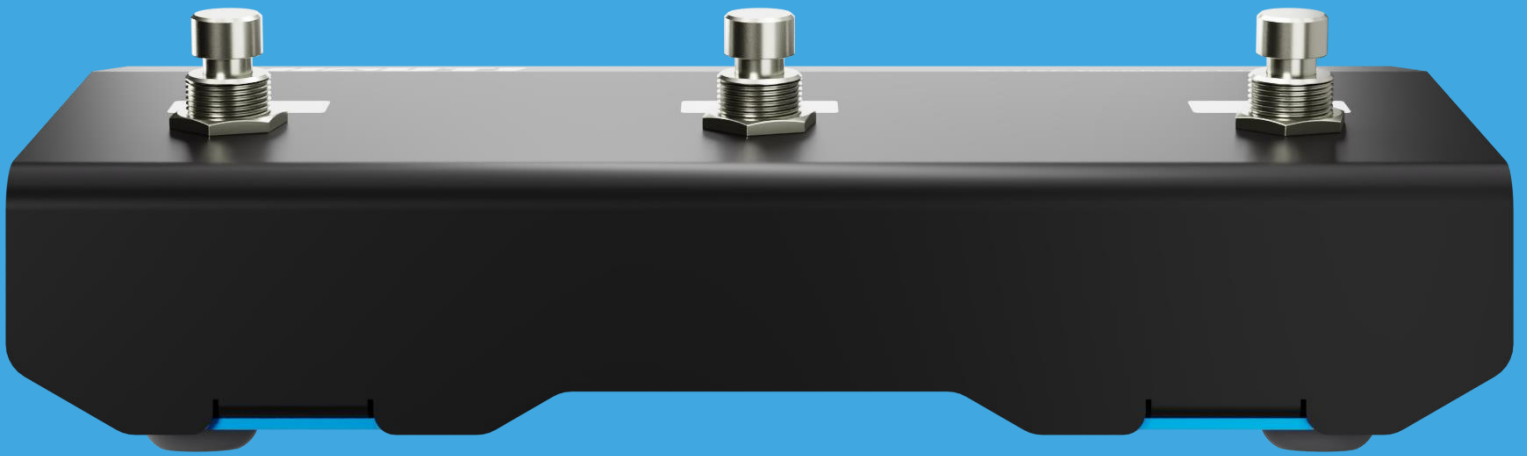


SHOUT!

ACTIVE TALKBACK SYSTEM



USER MANUAL

OUT 
PHASE

APRIL 2025

Thank you for trusting SHOUT!

We sincerely thank you for choosing SHOUT! for your professional communication needs. As a modern active talkback solution, SHOUT! has been designed to meet the demands of today's technicians and musicians, ensuring sound quality and uncompromised reliability. We are confident that our product will fully satisfy you and help make your sessions even smoother and more efficient. If you have any questions or suggestions, please don't hesitate to contact us, and we'll be happy to assist you.

While we've designed SHOUT! to be as straightforward as possible, we encourage you to explore this guide to unlock its full potential and make the most of your new unit.

We are excited to support and enhance communication during your upcoming performances!

A word about SHOUT!

SHOUT! is a professional-grade 3-direction talkback switching pedal designed to meet the demands of modern stage environments for technicians, musical directors, and musicians. Optimized for In-Ear Monitor setups, SHOUT! is an active device that ensures completely transparent audio switching with zero unwanted noise or signal degradation.

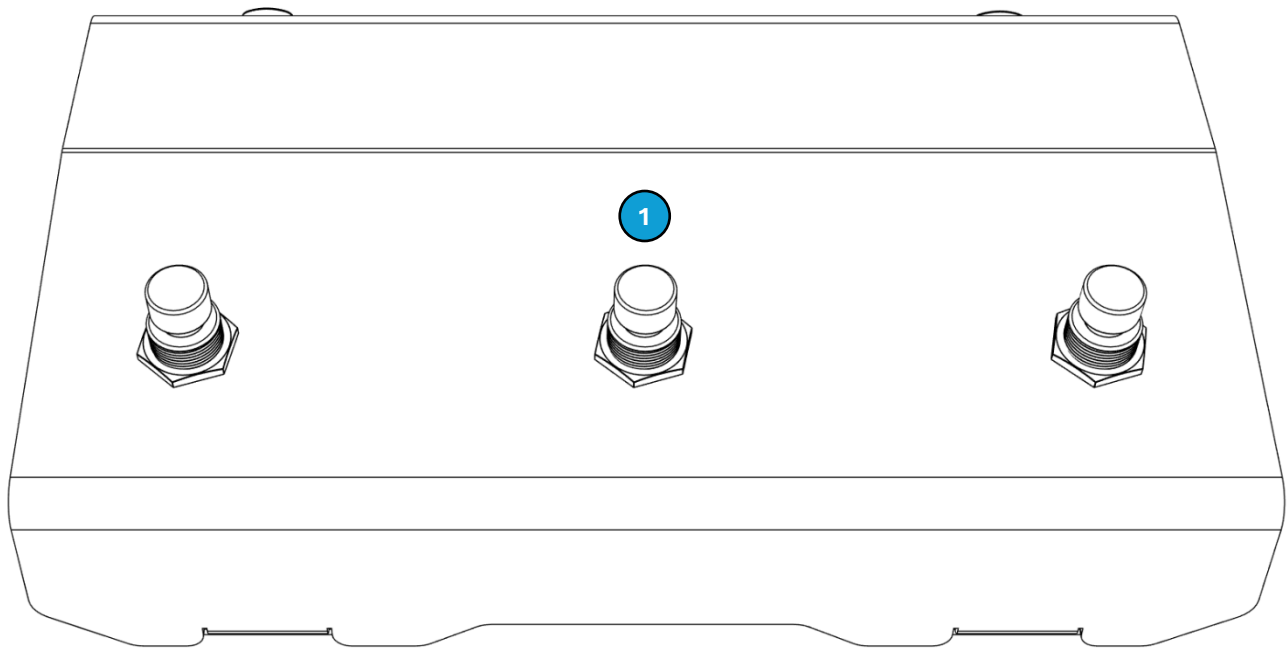
SHOUT! is fully compatible with phantom power, making it versatile for use with devices such as condenser microphones, direct boxes, and optical gates (refer to the compatibility guide for details).

Its robust design, featuring a 1.5mm stainless steel enclosure, guarantees durability and reliability, making SHOUT! the ultimate solution for stage communication applications.

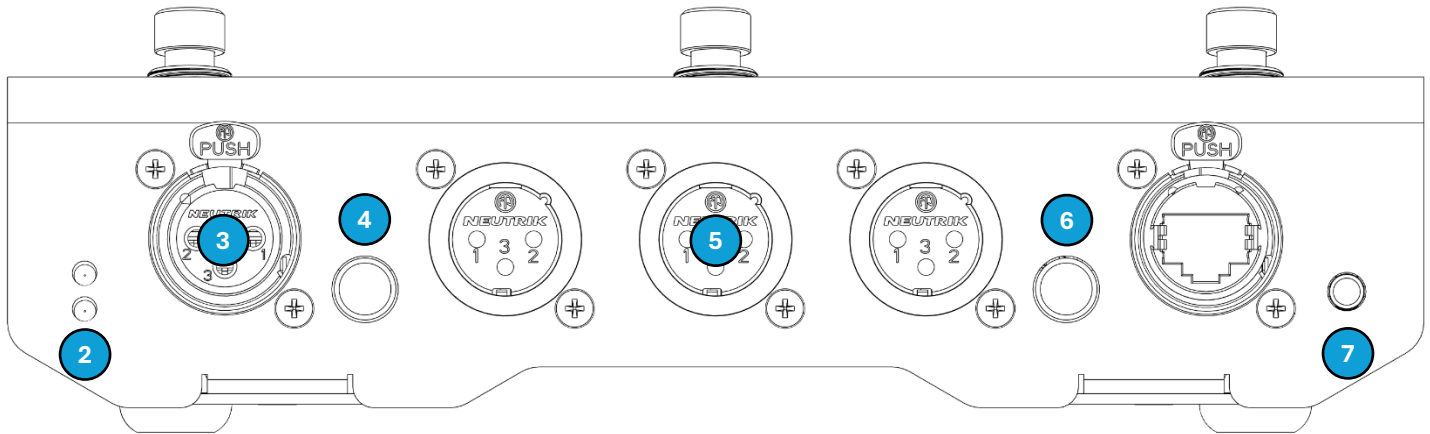
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MEET SHOUT!



- 1 Momentary action footswitches



- 2** Power (blue) & +48V phantom power (red) indicators
- 3** Microphone input
- 4** Phantom power to the microphone input toggle
- 5** Balanced switched outputs
- 4** Channel A alternative modes toggle (see page 10)
- 5** CAT5 TAIL/LINK toggle (see page 13)

USAGES AND APPLICATIONS

SHOUT! offers a wide range of applications, limited only by your creativity. However, it was specifically designed to streamline communication both on and off the stage.

Example of Use Case: Communication Between the Musical Director, Band, and Technicians

In modern setups, it's common for the Musical Director (M.D.) to communicate with multiple individuals, including:

- **Other band members:** Providing real-time musical instructions.
- **The Monitor engineer or Playback tech:** Coordinating adjustments for sound and monitoring.
- **The Vocalist or Singer:** Cueing songs or providing guidance during the performance.

SHOUT! provides an all-in-one solution that enables the Musical Director (M.D.) to communicate with all necessary parties discreetly and efficiently using a single microphone. This ensures clear, uninterrupted communication while keeping the focus on the performance.

Additionally, you can take full advantage of SHOUT!'s built-in +48V phantom power capability to integrate an optical gate. This setup eliminates the need to press a footswitch, offering a hands-free solution ideal for musicians with limited mobility, such as drummers or keyboardists.

CONNECTION & FIRST USAGE

This section will guide you through the various wiring configurations and functions of SHOUT!, helping you unlock the full potential of the product right away.

Connecting the inputs and outputs

SHOUT! Offers two ways of connecting inputs and outputs.

Connecting with the XLR connectors

1. Connect a dynamic or condenser microphone of your choice in the “INPUT” XLR male connector.
2. Connect the desired number of outputs (minimum one) from the SHOUT! XLR outputs to the mixing desk microphone inputs preamps.

OR

Connecting using the TAIL/LINK cat5 connector

1. Connect a dynamic or condenser microphone of your choice in the “INPUT” female XLR connector or in the female XLR connector of your TAIL breakout.
2. Connect a **SHIELDED** Cat5 cable from the TAIL/LINK output into a compatible breakout ([see SHOUT! Breakout compatibility](#)).
It is very important for the cat5 cable to be shielded to ensure proper connection.
3. Connect the breakout male connectors into the mixing desk microphone inputs preamps.

Linking two units of SHOUT!

You can link two SHOUT! units together to achieve 6 talkback outputs from a single microphone, without reducing the number of outputs—a limitation often found in other devices on the market.

To link two units of SHOUT! :

1. Connect the two units with a **SHIELDED CAT5** strap via the TAIL/LINK ports.
2. Toggle the TAIL/LINK switch on the far right of the unit to the “LINK” position.
3. Connect a dynamic or condenser microphone into the “INPUT” female XLR connector on either of the two units.

Powering up SHOUT!

Once you have properly connected the audio input and outputs according to your needs, it's time to power up the unit.

SHOUT! Is an **ACTIVE** system, it means that it requires phantom power **ON ALL USED OUTPUTS** to work. In the absence of phantom power, the device **will not** function.

You need to activate phantom power from your mixing console to all the channels you connected to SHOUT!. Example : if you the outputs A, B and C of SHOUT! Into the mic preamps 1, 2 and 3 of your mixing console, you will have to provide phantom power on all of those three channels.

To provide +48V phantom power to the microphone input—required for using a condenser microphone or an optical gate—press the “+48V” button located on the rear left of the unit.

When the button is unpressed, phantom power will not be supplied to the microphone input.

To confirm the presence of +48V phantom power, check the red LED. If the LED is illuminated, phantom power is supplied to the microphone input.

Alternative function

By default, all channels are set to N.C. (Normally Closed), meaning no sound is output through the channels unless the corresponding footswitch is pressed.

SHOUT! offers an alternative function for Channel A, allowing it to operate in N.O. (Normally Open) mode. By pressing the “Alt.A” button, Channel A will continuously output the microphone signal, regardless of whether the footswitch is pressed.

Example of channel A N.O mode applications:

- **Example 1 : using SHOUT! For a lead or backing singer:**

If a singer needs to communicate with other members of the band while keeping their microphone open for singing without pressing a footswitch, simply activate the “Alt.A” function. This will ensure that Channel A outputs the microphone signal by default. Connect this output to the P.A. system and the artist’s monitors.

When the artist needs to speak to the band or the technicians, they can press footswitches B or C. This will mute Channel A, ensuring that the communications are not heard through the P.A. system, while still allowing clear talkback functionality.

- **Example 2 : using SHOUT! With an optical gate for technicians or musicians:**

Optical gates are an excellent solution for automatically muting a microphone by detecting if someone is standing in front of it. Since SHOUT! allows you to supply phantom power to the microphone input, you can easily integrate an optical gate for seamless communication on your most frequent talkback channel, without the need to repeatedly press a footswitch.

Simply connect your optical gate to the microphone, enable phantom power on the SHOUT!, and activate the “Alt.A” function. This will ensure that the microphone signal is output through Channel A of the SHOUT! as soon as you stand in front of it, without the need to press a switch. This feature is particularly convenient for technicians and drummers.

PHANTOM POWER NOTES AND COMPATIBILITY

Phantom power notes

As mentioned in the [Powering up SHOUT!](#) section, phantom power is required to use SHOUT!

SHOUT! uses a portion of the provided +48V phantom to power its internal circuitry. As a result, if only one output channel is being used, the voltage will be reduced to approximately 24V. This may not be sufficient for all types of condenser microphones or active devices, but it will still work for the vast majority of equipment like optical gates or stage condenser microphones.

When two or all three output channels are in use, the phantom power voltage will be restored to the full +48V.

To supply phantom power to the SHOUT! microphone input, simply press the “+48V” button located on the rear left side of the device. The presence of phantom power will be indicated by a glowing red led on the rear left of the device.

	One Connected output	Two Connected output	Three Connected output
Voltage	Around 24V	Around 35V	Around 48V

Important note: These values are given for a power source delivering +48V. Depending on your mixer or soundcard specifications.

TAIL BREAKOUT COMPATIBILITY

The “**TAIL/LINK**” CAT5 connector serves two purposes:

- As mentioned in [Connecting using the TAIL/LINK cat5 connector](#) (page 7), The “**TAIL/LINK**” CAT5 connector can be used to link 2 units to extend the output capability when set on the right mode.
- When set to “TAIL” mode, the connector serve as a mirror copy of the microphone input and the three audio outputs.

“TAIL” mode explained

The TAIL mode utilizes the 8 copper wires and the shield inside a shielded CAT5 cable to carry 4 balanced audio signals: Microphone Input, Channel A Output, Channel B Output, and Channel C Output. This wiring configuration also enables the transport of phantom power, using the shield of the CAT5 cable as ground. For this reason, it is essential to use a shielded cable to ensure proper functionality and avoid signal interference.

To use this TAIL mode, you need a CAT5 to XLR breakout box. You can either use the associated **SHOUT! TAIL** breakout available on outofphase.tech that offer a ready to use solution.

You are also free to make your own custom breakout box following the wiring chart below.

CAT5 CONNECTOR PIN	CONNECTION
1	OUT C +
2	OUT C -
3	OUT B +
4	OUT B -
5	OUT A +
6	OUT A -
7	MIC IN +
8	MIC IN -
SHIELD	GROUND

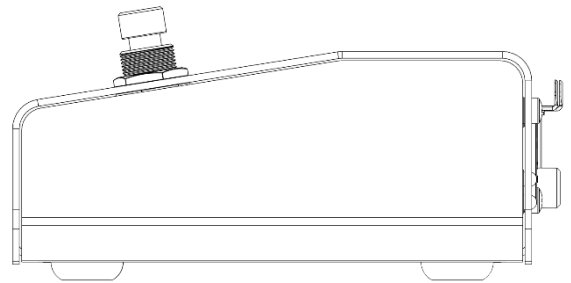
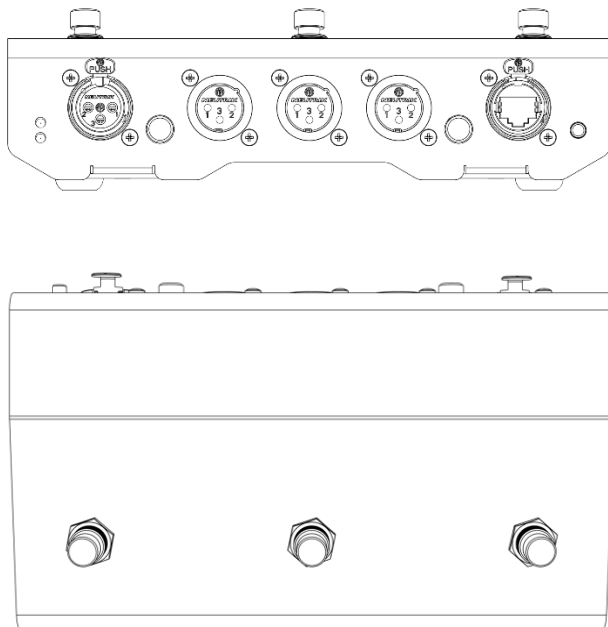
SPECIFICATIONS

Mechanical specifications

Width:	202mm (7.95")
Depth:	121.5mm (4.8")
Height:	57mm (2.24")
Weight:	0.9 kg (1.9 lbs)

Audio specifications

Input impedance	3.7 k Ω
Output impedance	470 Ω
Gain	7.5dB
Frequency response	20 Hz – 20 kHz, ± 0.1 dB at 1 kHz
Noise floor	Below -113.5dB
Phantom power range	From 24V up to 43V (See phantom power section)



PRECAUTIONS OF USE

To ensure proper usage of the SHOUT! And prevent damage to your device and other, please take note of the following:

- Use SHOUT with mic-level signal. Avoid using line-level signals.
- Do not try to open the metal enclosure.
- Do not modify or try to repair the electronic circuit yourself. If you are experiencing issues, contact us at hello@outofphase.tech.
- Do not plug the CAT5 TAIL/LINK connector to anything other than the intended tail breakouts ([See TAIL breakouts compatibility section](#)). CAT5 TAIL/LINK is **NOT** a network port, do not try to connect it to any network switch or network device at the risk of damaging SHOUT! and the equipment.

SHOUT! WARRANTY

OUT OF PHASE (“OUT OF PHASE”) warrants that SHOUT! will be free from defects in materials and workmanship under normal use. If a defect is found, OUT OF PHASE will repair or replace (at its discretion) any faulty parts of the product at no charge within three (3) years from the original purchase date. This warranty excludes normal wear and tear or cosmetic damage, and is only applicable to the original purchaser.

If the product is unavailable, OUT OF PHASE reserves the right to replace it with a similar model of equal or greater value. If you encounter an issue, please contact us at **hello@outofphase.tech** to obtain a Return Authorization (RA) number before the warranty period expires. We will also provide you with return instructions. Please do not send the product to the company headquarters. A copy of your original purchase invoice, showing the date of purchase and the dealer name, must accompany the product for warranty service.

This warranty does not cover products that have been damaged due to improper handling, misuse, unauthorized modifications, accidents, or repair attempts by anyone other than an authorized OUT OF PHASE service center.

SHOUT! DECLARATION OF CONFORMITY

Shout! complies with the following directives:

- **RoHS Directive (2011/65/EU):** Restriction of Hazardous Substances, as amended by (EU) 2015/863, in electrical and electronic equipment.
- **FCC (Federal Communications Commission):** The product is compliant with the applicable sections of the FCC Rules for electromagnetic interference (EMI).
- **CE Marking (European Union Directive):** The product meets the essential requirements of EU legislation, specifically with regard to safety, health, and environmental protection.

The conformity assessment procedures used were in accordance with the following standards:

- **EN 50581:2012** for RoHS compliance.
- **EN 55032** for Electromagnetic Compatibility (EMC).
- **EN 61000-6-3:2007** for immunity to electromagnetic interference.

This declaration is issued based on the above-mentioned directives and in accordance with the applicable provisions set forth by the European Union and United States regulatory requirements.



OUT PHASE