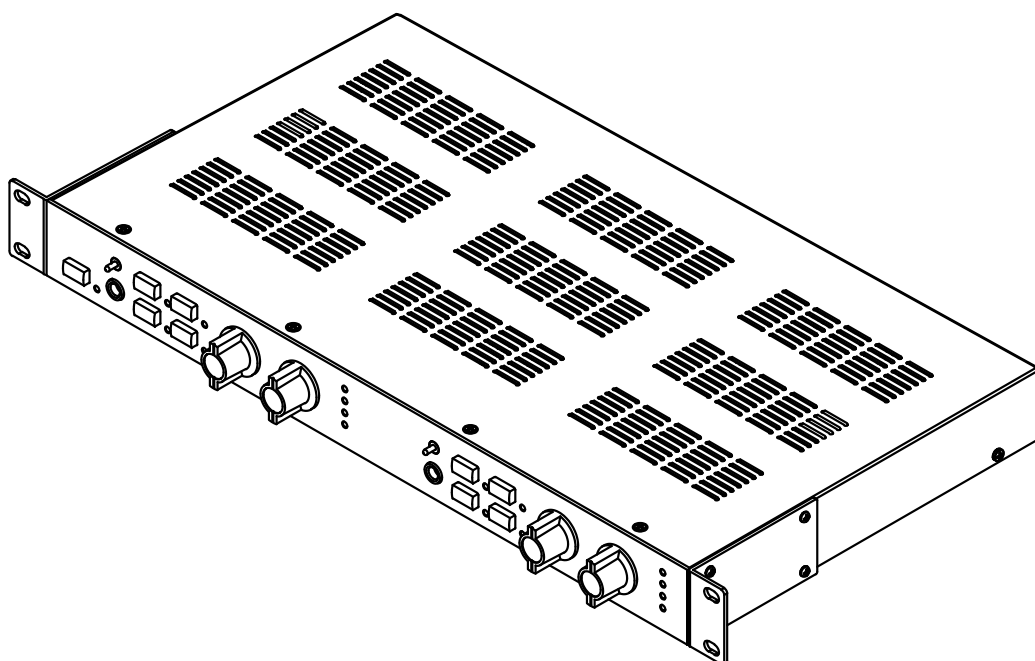




Studio 2-Channel
1073-STYLE MICROPHONE PREAMP

P/N **600083**
User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately remove it from its power source and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessive vibration or extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

The Stage Right™ Studio 2-Channel 1073-Style Microphone Preamp is a vintage-style microphone, line, and instrument preamplifier. The signal path uses only discrete components, such as resistors, capacitors, and transistors. The input and output is transformer balanced, using two different transformers, each optimized for its purpose. The circuit used is similar to the preamp section in the classic 1073 module, with a corresponding sound character that is warm, punchy, sweet, and musical. These classic characteristics have been heard on countless recordings throughout the years. It is a versatile sound that works well on most sound sources and in most musical genres.

FEATURES

- Two independent channels
- Up to 80dB gain in MIC mode, enough to handle passive ribbon mics with quiet sound sources
- GAIN switch range of 20 ~ 80 dB
- Gain is reduced by 30dB in LINE mode
- Switchable 300-ohm or 1200-ohm impedance in MIC mode, enough to change the tone of most mics
- 10 kilohm input impedance in LINE mode
- Switchable phantom power and absolute phase
- One high-impedance instrument input for any sound module, electric guitar, or bass
- Simple 4-step LED output level meter
- Combination XLR/TRS input jack and separate output XLR and TRS jacks for flexible connection options
- Insert jack for inserting EQs and other units
- Selectable 600-ohm output termination
- External power supply to avoid interaction with the audio circuits and transformers

PACKAGE CONTENTS

- 1x Studio 2-Channel 1073-Style Microphone Preamp
- 1x Power Adapter
- 1x Rack Ear (Pair)
- 8x M3*L8 Screws
- 1x User's Manual

PRODUCT OVERVIEW

Front Panel



1. **POWER:** Press the **POWER** switch to turn the unit on or off.
2. **POWER LED:** The **POWER LED** illuminates when power is applied.
3. **MIC/LINE:** When set to the **MIC** position, the input it accepts microphone level signals. When set to the **LINE** position, it accepts line level signals.
4. **DIRECT INPUT:** This unbalanced 1/4" TRS jack accepts audio signals that are injected into the main audio stream for channel 1 when the **DI** button is engaged.
5. **48V:** Pressing the **48V** button adds +48V Phantom Power to the main channel 1 **MIC/LINE** input on the rear panel. The adjacent LED illuminates when the **48V** button is engaged.
6. **DI:** Pressing the **DI** button enables the channel 1 **DIRECT INPUT**. The adjacent LED illuminates when the **DI** button is engaged.
7. **LOW-Z:** The **LOW-Z** button sets the expected impedance level of the main channel 1 **MIC/LINE** input on the rear panel (default) or of the **DIRECT INPUT** on the front panel when the **DI** button is engaged. When engaged, the input is set to accept signals with less than 600 ohms impedance. When not engaged, the input is set to accept signals with more than 600 ohms impedance. The adjacent LED illuminates when the **LOW-Z** button is engaged.
8. **PHASE:** The **PHASE** button inverts the polarity of the signal on the main channel 1 **MIC/LINE** input on the rear panel (default) or of the **DIRECT INPUT** on the front panel when the **DI** button is engaged. Engage the **PHASE** button when recording with more

than one open microphone to combat phase cancellation between the microphones. The adjacent LED illuminates when the **PHASE** button is engaged.

9. **GAIN:** The **GAIN** knob adjusts the gain for MIC, LINE, and high impedance input signals for channel 1.
10. **OUTPUT:** The **OUTPUT** knob adjusts the level of the channel 1 **OUTPUT** on the rear panel. This ensures that the output signal level is not too high for the input on your recording interface or the input of the next device in the signal chain. It also gives the ability to drive the gain of the preamp to higher levels, resulting in greater colorization and tone-shaping of the signal.
11. **LEVEL:** The **LEVEL** LEDs indicate the level of the output signal. When set to the proper level, the red **CLIP** LED illuminates only on the highest level signals. If it illuminates more often, reduce the **OUTPUT** to prevent clipping.
12. **MIC/LINE:** When set to the **MIC** position, the input it accepts microphone level signals. When set to the **LINE** position, it accepts line level signals.
13. **DIRECT INPUT:** The unbalanced 1/4" TRS jack accepts audio signals that are injected into the main audio stream for channel 2 when the **DI** button is engaged.
14. **48V:** Pressing the **48V** button adds +48V Phantom Power to the main channel 2 **MIC/LINE** input on the rear panel. The adjacent LED illuminates when the **48V** button is engaged.
15. **DI:** Pressing the **DI** button enables the channel 2 **DIRECT INPUT**. The adjacent LED illuminates when the **DI** button is engaged.
16. **LOW-Z:** The **LOW-Z** button sets the expected Impedance level of the main channel 2 **MIC/LINE** input on the rear panel (default) or of the **DIRECT INPUT** on the front panel when the **DI** button is engaged. When engaged, the input is set to accept signals with less than 600 ohms impedance. When not engaged, the input is set to accept signals with more than 600 ohms impedance. The adjacent LED illuminates when the **LOW-Z** button is engaged.
17. **PHASE:** The **PHASE** button inverts the polarity of the signal on the main channel 2 **MIC/LINE** input on the rear panel (default) or of the **DIRECT INPUT** on the front panel when the **DI** button is engaged. Engage the **PHASE** button when recording with more than one open microphone to combat phase cancellation between the microphones. The adjacent LED illuminates when the **PHASE** button is engaged.
18. **GAIN:** The **GAIN** knob adjusts the gain for MIC, LINE, and high impedance input signals for channel 2.
19. **OUTPUT:** The **OUTPUT** knob adjusts the level of the channel 2 **OUTPUT** on the rear panel. This ensures that the output signal level is not too high for the input on your recording interface or the input of the next device in the signal chain. It also gives the ability to

drive the gain of the preamp to higher levels, resulting in greater colorization and tone-shaping of the signal.

20. **LEVEL:** The **LEVEL** LEDs indicate the level of the output signal. When set to the proper level, the red **CLIP** LED illuminates only on the highest level signals. If it illuminates more often, reduce the **OUTPUT** to prevent clipping.

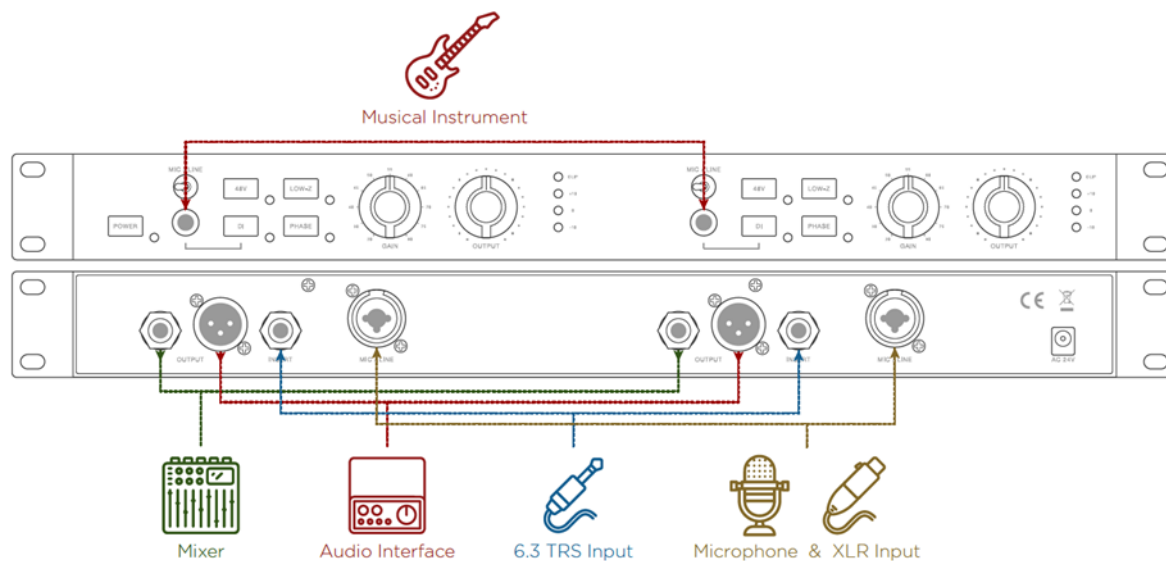
Rear Panel



21. **1/4" OUTPUT:** This 1/4" TRS jack carries a balanced output signal for channel 2 when using a 1/4" TRS cable. It outputs an unbalanced signal when using a 1/4" TS cable.
22. **XLR OUTPUT:** This XLR jack carries a balanced output signal for channel 2.
23. **INSERT:** This unbalanced 1/4" TS jack allows you to connect another device, such as a compressor or EQ, into the channel 2 signal after the input transformer and initial gain stage.
24. **MIC/LINE:** The combination 1/4" TRS/XLR jack accepts balanced signals from microphone or line level sources for channel 2. When the **MIC/LINE** switch on the front panel is set to the **MIC** position, this input accepts microphone level inputs. When the **MIC/LINE** switch on the front panel is set to the **LINE** position, this input accepts line level inputs.
25. **1/4" OUTPUT:** This 1/4" TRS jack carries a balanced output signal for channel 1 when using a 1/4" TRS cable. It outputs an unbalanced signal when using a 1/4" TS cable.
26. **XLR OUTPUT:** This XLR jack carries a balanced output signal for channel 1.
27. **INSERT:** This unbalanced 1/4" TS jack allows you to connect another device, such as a compressor or EQ, into the channel 1 signal after the input transformer and initial gain stage.
28. **MIC/LINE:** The combination 1/4" TRS/XLR jack accepts balanced signals from microphone or line level sources for channel 1. When the **MIC/LINE** switch on the front panel is set to the **MIC** position, this input accepts microphone level inputs. When the **MIC/LINE** switch on the front panel is set to the **LINE** position, this input accepts line level inputs.
29. **AC 24V:** This barrel connector accepts the 24 VAC output of the included AC power adapter.

Note that the signal path is straight from the front panel to the rear panel. Therefore, the controls and connection on the left side of the front panel are output on the right side of the rear panel and vice versa.

SAMPLE CONNECTION DIAGRAM



ONLINE SUPPORT

Monoprice™ is pleased to provide free online support. For order related issues, contact the Customer Service department through the Live Chat link on our website **www.monoprice.com** or via email at **support@monoprice.com**

For technical issues, contact the Technical Support department through the online chat button on our website **www.monoprice.com** or by sending an email to **tech@monoprice.com**

Check the website for support times and links.

SPECIFICATIONS

P/N	600083
Front Panel Input Connector	2x 1/4" unbalanced TRS female
Rear Panel Input Connectors	2x balanced XLR/TRS female, 2x balanced 1/4" TRS female
Output Connectors	2x balanced XLR male, 2x 1/4" balanced TRS female
Frequency Response	20Hz ~ 20kHz $\pm 0.5\text{dB}$
Signal-to-Noise Ratio	>90dB (A-weighted 20Hz ~ 20kHz)
Input Level	50mV Balanced @ Gain 50dB per channel @40Hz ~ 18KHz <0.1% THD
Input Sensitivity	50mV balanced
Input Impedance	>10 kilohm, balanced or unbalanced
Maximum Input Level	2V balanced
Input Power	24 VAC, 60Hz, 1.8A
AC Adapter Input Power	110 VAC, 60Hz
Maximum Power Consumption	20 watts per channel
Dimensions (WxHxD)	17.1" x 1.7" x 9.4" (434 x 44 x 239 mm)
Weight	8.8 lbs. (4.0 kg)

REGULATORY COMPLIANCE

Notice for FCC



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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

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.

Notice for ISED Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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