

LIVE SOUND SOLUTIONS

Studiomaster



Studiomaster

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USER GUIDE

MIXBRIDGE6/8
MULITBRIDGE6/8

PROFESSIONAL MIXER

IMPORTANT SAFETY SYMBOLS



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

ON: Denotes the apparatus is turned on

OFF: Denotes the apparatus is turned off.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the operator.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

1. IMPORTANT SAFETY INSTRUCTIONS

- **Read these instructions.**
- **Keep these instructions.**
- **Heed all warning.**
- **Follow all instructions.**

• **Water & Moisture**

The apparatus should be protected from moisture and rain, can not used near water, for example: near bathtub, kitchen sink or a swimming pool, etc.

• **Heat**

The apparatus should be located away from the heat source such as radiators, stoves or other appliances that produce heat.

• **Ventilation**

Do not block areas of ventilation opening. Failure to do could result in fire. Always install accordance with the manufacturer's instructions.

• **Object and Liquid Entry**

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

• **Power Cord and Plug**

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, refer

to electrician for replacement.

• **Power Supply**

The apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

• **Fuse**

To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

• **Electrical Connection**

Improper electrical wiring may invalidate the product warranty.

• **Cleaning**

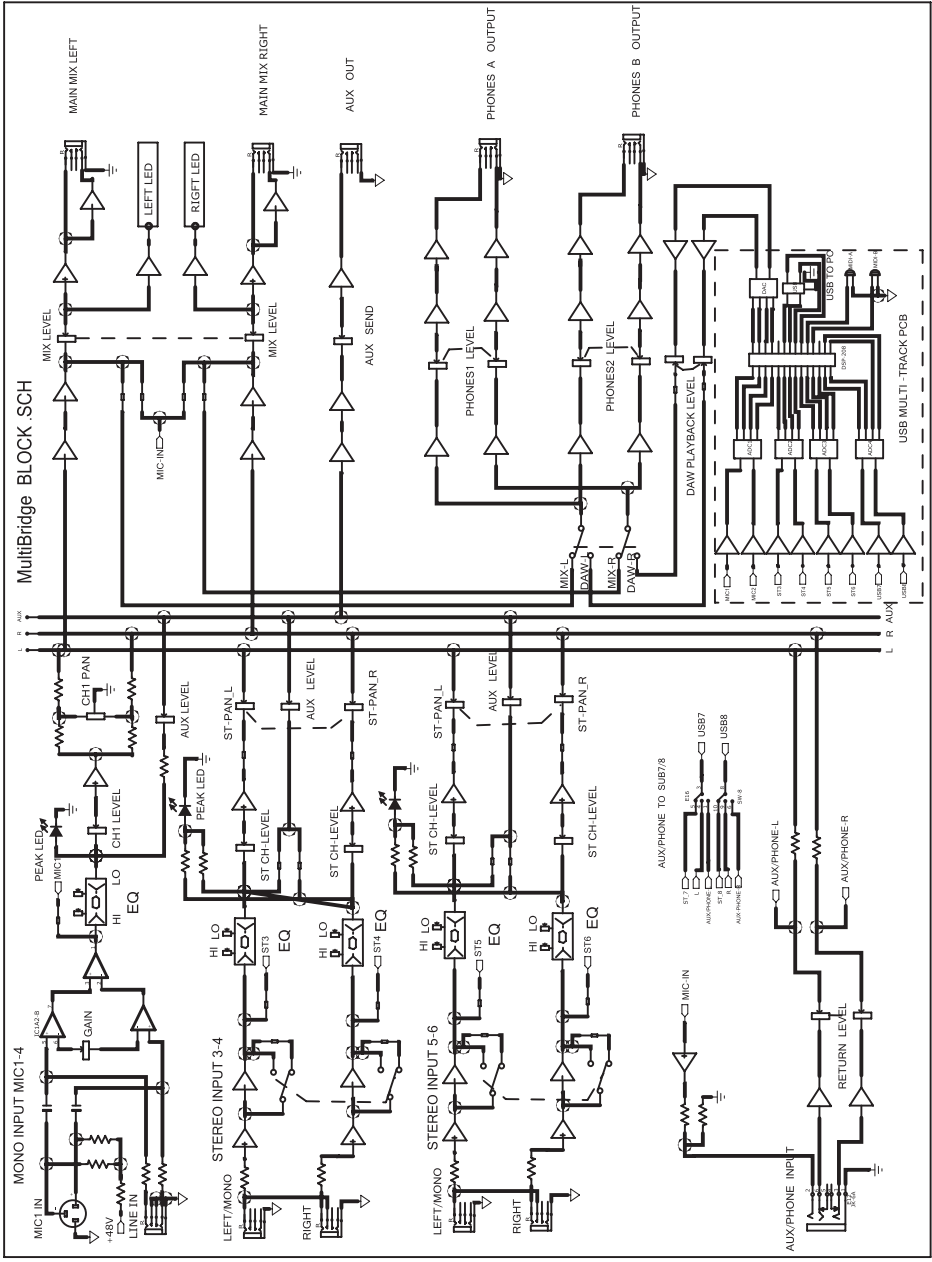
Clean only with a dry cloth. Do not use any solvents such as benzol or alcohol.

• **Servicing**

Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only.

• Only use accessories/attachments or parts recommended by the manufacturer.

BLOCK DIAGRAM



Technical parameters

Single input channel	
MIC input	Balance input
Frequency response10	10 Hz to 30 kHz, +/-3 dB
Distortion(THD & N)	0.03% at +4 dBu, 22Hz-20kHz A-weight
SNR	(SNR)115 dB
Line input	MIC 1/2 is high impedance input; MIC 3/4 is balance input
Frequency response	10 Hz to 30kHz, +/-3 dB
Distortion(THD&N)	0.005% at+4 dBu, 22Hz-20kHz A-weight
Max.gain	70 dBu MIC INPUT MAIN OUTPUT
Stereo input channel	
Line input	Balance/unbalance
Frequency response	10 Hz to 55 kHz, +/-3 dB
Distortion(THD&N)	0.005% at +4 dBu, 22Hz-20kHz A-weight
Impedance	
MIC input	1.4 kOhm
Line input	10 kOhm
HI-Z input	1MHz
All the other inputs	10 kOhm or higher
Record output	1 kOhm
Other output	120 Ohm
Single channel EQ	
HI	+/-15 dB @frequency 12 kHz
LOW	+/-15 dB @frequency 80Hz
Stereo EQ	
HI	+/-15 dB @frequency 12 kHz
LOW	+/-15 dB @frequency 80Hz
USB	A/D & D/A convertor sampling rate 24-Bit, 96k
The main section-mixer	
Noise (bus)	Fader 0 dB,Send and set unified gain of all input channels:-100dbu(Reference:4dbu)
Max. output	unbalance: +20dBu 1/4" socket
	AUX: +20dBu
	DSP: +20dBu
Power supply	DC12V
Dimension(L*W*H)	MIXBRIDGE6/MUMULTIBRIDGE6:210X253X55
	MIXBRIDGE8/MUMULTIBRIDGE8:210X310X55
Net weight	MIXBRIDGE6/MUMULTIBRIDGE6:2.1kg
	MIXBRIDGE8/MUMULTIBRIDGE8:2.5kg

1. Product introduction

Thank you for purchasing the MIIXBRIDGE and MULTIBRIDGE series mixer of STUDIOMASTER. The mixer is compact and lightweight, with external DC12V power supply, 2-4 CH mic inputs and 2 CH stereo inputs. Among them, the microphone 1 / 2 channel adds high impedance input function. It is convenient for guitar playing, built-in professional USB interface, which can connect computer playback and recording, and the mixer also has a live broadcast function. It can connect mobile phone live, tiktok, etc., and has comprehensive professional characteristics. No matter solo, recording or performance can satisfy the application requirements.

Application :

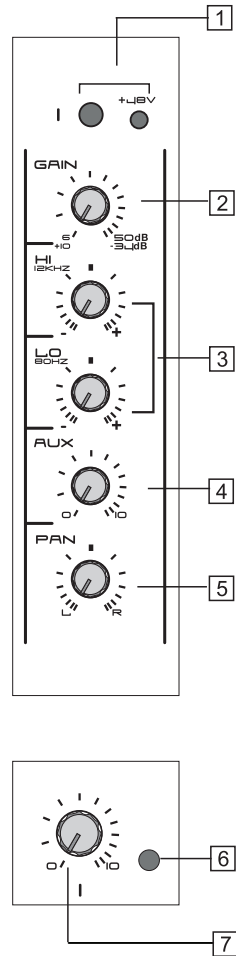
It can be used in homes, recording studios, individual solo, small band performance occasions.

2.Main functions

- 1) 2-4 CH microphone lines and 2 stereo inputs.
- 2) The microphone channel has a adjustment equalizer.
- 3) Built in professional USB 2-track recording and playback function (MIXBRIDGE Series).
- 4) + 48V phantom power supply, which can meet the use of capacitive microphone.
- 5) The output has two rows of 2 * 8 accurate indicators, which can monitor the output level.
- 6) Built in 6-8 multiple tracks recording function, connected to the computer, can play and edit the recorded file with multi-track software (MULTIBRIDGE Series).



Channel control area



1. 48V switch

When the switch is pressed, the voltage is supplied to the microphone. The 48V LED indicator is for condenser microphone can be used.

2. Gain control knob

Adjust the input signal level to obtain the best balance between SNR and dynamic range; To achieve the best operation, this control should be set: make the PEAK LED flash occasionally, so as to avoid the distortion of the input channel. Microphone input gain adjustment range: 6-50dB, line input gain adjustment range: + 10 ~ - 34.

3. EQ control

HI: when you turn this knob to the maximum, the level of the corresponding 12 kHz frequency will increase by 15dB. Turn this knob to the minimum, the level of the corresponding 12 kHz frequency decrease by 15dB.

LOW: when you turn this knob to the maximum, the level of the corresponding 80Hz frequency will increase by 15dB. Turn this knob to the minimum, the level of the corresponding 80Hz frequency decrease by 15dB.

4. AUX control knob

This auxiliary control knob is used to adjust the level of independent signals sent to aux bus. Send signals directly to external effects or processor devices.

5. PAN control knob

This is the abbreviation of single channel PANORAMA control, which is often called pan control. Keep this control in the middle position, and then the signal will be placed in the middle of the stage. You can also control the left and right output signals.

6. PEAK indicator

Detect the peak level of the signal after EQ. When the level reaches 3 dB before clipping, the PEAK indicator lights up red.

7. Front panel attenuator

This attenuator will adjust the overall level of this channel and set the amount of signal sent to the main output.

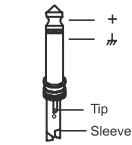
Note: Reduce noise by minimizing the attenuator period for unused channels.

Connection

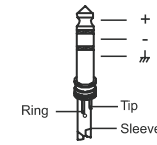
1/4 "TRS jack or XLR jack all connect balanced or unbalanced mode. Refer to the following connection figure.

1/4 "jack

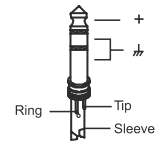
XLR jack



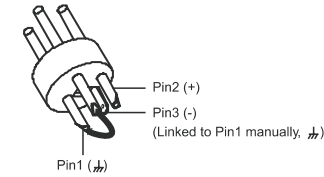
TS unbal



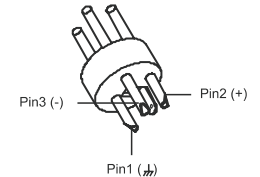
TRS bal



TRS unbal



XLR unbal



XLR bal

USB wiring

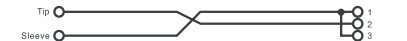
In these applications, device applies 1/4 "TRS and XLR connector, is convenient for connecting professional audio device.

The examples in following are used for your special connection;

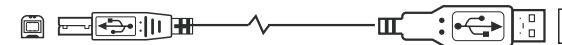
Balanced



unbalanced

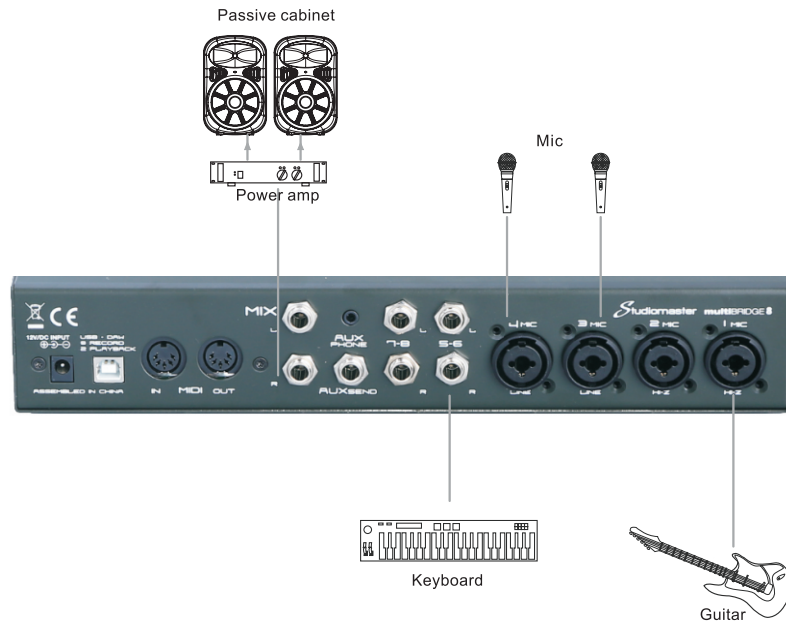


USB wiring

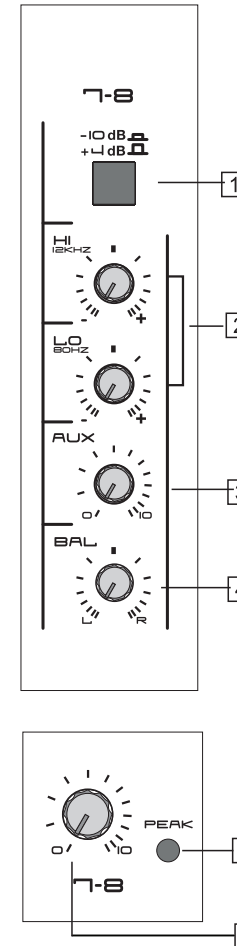


Installation

1. There should be no obstacles in front of the speaker. It is best to raise the speaker with a stand to achieve the best result.
2. Hang or install the speakers with professional equipment. Take precautions to prevent the speaker from dropping and injuring people. Use with care to prevent damage to the speaker or parts.
3. Use high quality cables to ensure the best audio quality.
4. Use an amplifier with power and impedance matching the speaker. This ensures the best sound quality and prolongs the life of the parts. Check the power requirement of the speaker.
5. Do not point the microphone at the speaker to prevent sound feedback.



Stereo channel control area



1. -10/+4 sensitivity selection switch

This switch is a sensitivity selection switch. When the switch is pressed, the input sensitivity will be increased by 10dB.

2. EQ control

HI: when you turn this knob to the maximum, the level of the corresponding 12 kHz frequency will increase by 15dB. Turn this knob to the minimum, the level of the corresponding 12 kHz frequency decrease by 15dB.

LOW: when you turn this knob to the maximum, the level of the corresponding 60Hz frequency will increase by 15dB. Turn this knob to the minimum, the level of the corresponding 60Hz frequency decrease by 15dB.

3. AUX control knob

This auxiliary control knob is used to adjust the level of the independent signal sent to the AUX-DSP bus. Send a signal directly to an external effect or processor device.

4. BALANCE (Pan Balance) control knob

This is the abbreviation of single-channel BALANCE control, often referred to as BAL control. Keep this control in the middle position, and then the signal will be placed in the middle of the stage. You can also control the left and right output signals.

5. PEAK indicator

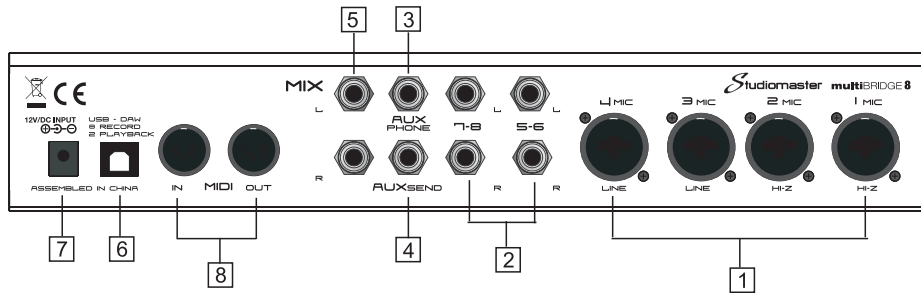
Detect the peak level of the signal after EQ. When the level reaches 3 dB before clipping, the PEAK indicator lights up red.

6. LEVEL channel attenuator

This attenuator will adjust the overall level of this channel and set the amount of signal sent to the main output.

Note: Reduce noise by minimizing the attenuator period for unused channels.

Output and rear panel control area



1. MIC/Line single channel input(channel 1-4)

These are balanced XLR microphone input sockets (1:Ground wire; 2; Positive phase; 3:Negative phase) and with optional phantom power 45 dB gain and SNR over 100 dB. You can connect any type of moving coil microphone without phantom power.

Capacitive microphones use phantom power, but before connecting the microphone, verify that the phantom power switch is off. Phantom power may damage your coil microphone. Read the instructions for using MIC before using phantom power supply and use the phantom power switch to turn on/off the phantom power supply.

The unbalanced LINE-IN plug is used to connect line level devices such as digital keyboard, digital drums and effectors.

2. Stereo channel input (channel 5-6/7-8)

This stereo channel is an unbalanced input interface. When input from this LEFT/MONO jack, there are both output left and right; Input from RIGHT jack only, right output only. You can connect and use digital keyboard, digital drums, effectors, etc.

3. AUX PHONE input

Use unbalanced 3.5 socket input for connecting mobile phones, computers and other devices

4. AUX SENDS output

These 3.5 jacks are used to send signals from the AUX bus to external devices, such as effects devices or stage monitors.

5. MAIN MIX output

Supplied by XLR balanced 1/4 JACK seat, which is controlled by Main Mix level.

6. USB interface

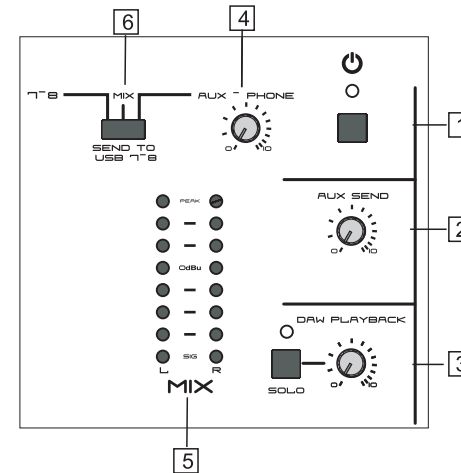
USB connects to computer for audio playback and recording.

7. Power socket

Use the power adapter DC12V to connect the power supply.

8. MIDI input and output

IN: MIDI input interface **OUT:** MIDI output interface



1. Power switch

This switch is on when pressed, and the power indicator is blue.

2. AUX master volume control

This potentiometer controls the level of AUX output.

3. DAW back to volume control

When the SOLO switch is lifted, the return signal is transmitted to the left and right of the main output.

When the switch is pressed, the signal returns to the headphone to listen:

All the returned signals are controlled by the volume adjustment knob.

4. AUX-PHONE volume control

It can control the device input signal level.

5. MIX indicator

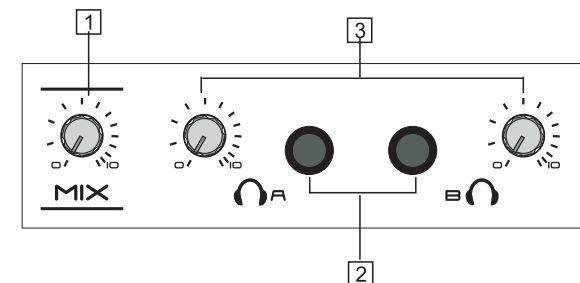
When a signal is input to the MIX indicator, the indicator lights up and detects the output level.

6. Multi-track record transfer switch

When the switch is toggled to the left, it is recording the signal of 7-8 channels of stereo sound.

When the switch is toggled to the middle, it records the main output L/R signal.

When the switch is toggled to the right, it is a recording of the AUX-PHONE signal.



1. MAIN MIX attenuator

This knob controls the level of the main volume signal.

2. Headphone output

PHONES JACK is used to plug in headphones for listening.

3. Headphone attenuator

These two knobs are used to adjust the listening signal level.