



MX6S

User Guide

English (2–6)

Appendix

English (27)

User Guide (English)

Introduction

The MX6S splitter/mixer is equipped with the following features:

- 1 rack space size
- Split / Mix switch for each mono channel
- 2 input, 6+2 output splitter
- 6 Balance / Pan controls for each channel
- Main input and output level control
- Main Link function allows routing the Main Input signal to the Main Output.
- Balance and level controls with 6-segment LED meters on mono input channels
- Balanced XLR and TRS connectors
- Dual-voltage unit for global operation

Please see this guide's [Setup](#) chapter to learn how to integrate MX6S with your audio system, and then refer to the [Operation](#) chapter to start using MX6S.

Box Contents

MX6S

Power Cable

User Guide

Safety & Warranty Manual

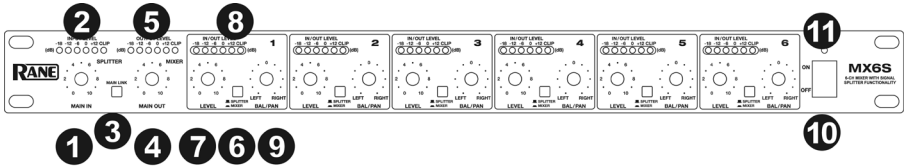
Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit rane.com.

For additional product support, visit rane.com/support.

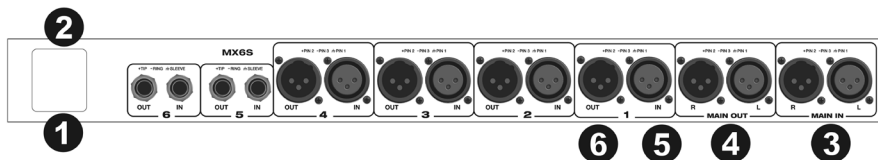
Features

Front Panel



1. **Main Input Level Control:** Use this knob to adjust the level of the Main Input signal.
2. **Input Level Meter:** This LED meter shows the level of the Main Input signal. If the Clip LED illuminates, turn down the Main Input to prevent the signal from distorting.
3. **Main Link Control:** Press this switch to send the Main Input signal to the Main Output.
4. **Main Output Level Control:** Use this knob to adjust the level of the Main Output signal.
5. **Output Level Meter:** This LED meter shows the level of the Main Output signal. If the Clip LED illuminates, turn down the signal at either the input stage or the Main Output to avoid distorting the signal.
6. **Split/Mix:** Use this switch to select the mode for each mono channel. For Splitter mode, disengage the switch, and the Main Input signal will be split and routed to this channel output. For Mixer mode, engage this switch, and the mono channel input signal will be sent to the Main Output bus. This signal will combine with the main input signal when the Main Link is activated. You can also route the mono channel input signal to the mono channel output directly.
7. **Channel Level Control:** Use this knob to adjust the level of each mono channel. In Splitter mode, this adjusts the output level of each individual mono channel. When in Mixer mode, this adjusts how much of the mono channel input signal is sent to the Main Output and/or each individual mono channel output.
8. **Input/Output Level Meter:** This LED meter shows the output level of each mono channel. If the Clip LED illuminates, turn down the Main Input Level Control to prevent the signal from distorting.
9. **Balance/Pan Control:** If the stereo main signal is split into the mono channel output, or the mono input signal is routed to the stereo main output bus, use this knob to determine the proportion between the left and the right channel.
10. **Power Switch:** Use this switch to turn the unit on or off.
11. **Power LED:** This LED will light up when the unit is powered on.

Rear Panel



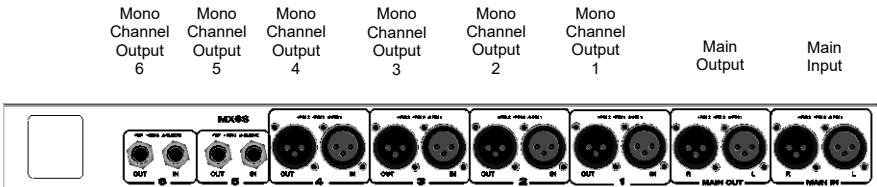
1. **Fuse Holder:** Check what the available voltage is in your country and confirm the voltage switch for MX6S is configured correctly before connecting the power cable to MX6S.
Caution: The fuse should only be changed by a qualified technician. If the fuse continues to blow after replacing, discontinue use of MX6S until it is repaired.
2. **Power Connector:** Connect the included power cable here.
Note: Do not connect the power cable to MX6S until the voltage has been correctly set.
3. **Main Inputs:** These two balanced XLR connectors are used to input the main stereo signal. In Splitter mode, these can be sent to each mono channel output.
4. **Main Outputs:** These two balanced XLR connectors are used to output the main stereo signal. By engaging the Main Link switch, the signal will be sent to the Main Input.
5. **Mono Channel Inputs:** For channels 1-4, use the XLR balanced connectors to input the mono signal. For channels 5-6, use the TRS connectors.
6. **Mono Channel Outputs:** For channels 1-4, use the XLR balanced connectors to output the mono signal. For channels 5-6, use the TRS connectors.

Operation

Using MX6S as a splitter:

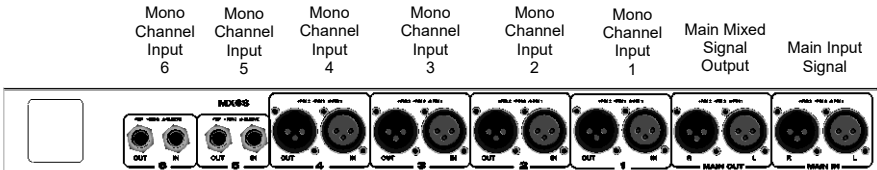
You can split a specific Main Input signal to 6 outputs. With the **Main Link** switch engaged, 2 further outputs are added.

In this application, use the **Split/Mix** switch to select the Splitter operational mode for each mono channel, apply the main signal from the Main Input connectors, and get the 6 outputs from the Mono Output connectors of each channel. While the **Main Link** switch is engaged, the Main Output will also be linked with the Main Input signal, and two further outputs are provided.



Using MX6S as a mixer:

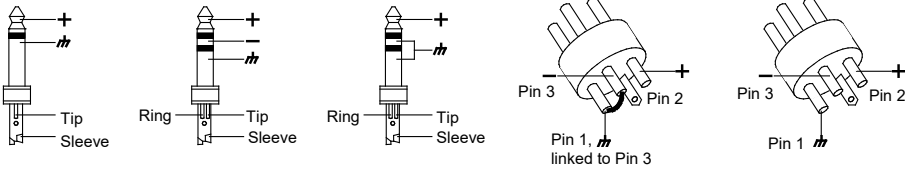
Use this application to mix the main stereo signal with several mono signals. Use the **Split/Mix** switch to select the mixer operational mode for each mono channel, input the signal from the mono input of each channel, and output the main mixed signal from the Main Output. While the **Main Link** switch is engaged, the Main Input will also be linked with the Main Output signal, and two further input signals can be mixed with the Main Output signal.



Rack Mounting

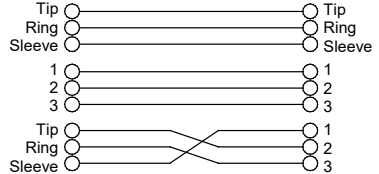
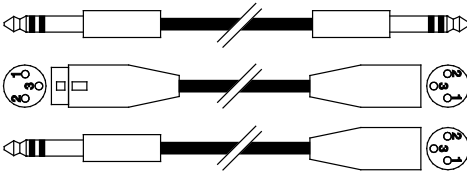
For secure mounting, use a universal rack shelf available from various rack manufacturers or your local musical instrument dealer. MX6S fits into a standard 19" (483 mm) rack. Please allow at least an additional 4" (102 mm) depth for the connectors on the rear panel. Be sure there is enough space around the unit for sufficient ventilation. Do not place MX6S on high temperature devices (such as power amplifiers) to avoid overheating.

You can wire your XLR or 1/4" (6.35 mm) TRS cables as balanced or unbalanced. Here are some examples:

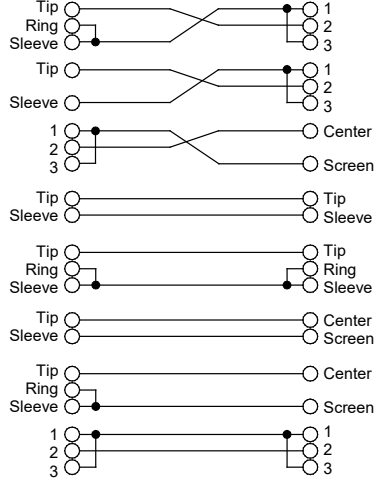
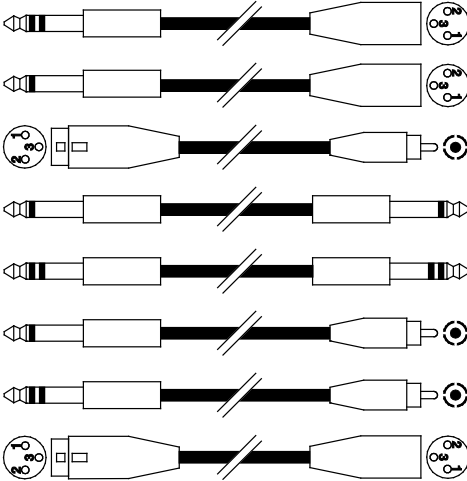


Determine the wiring configuration you need for your application and audio connections:

Balanced



Unbalanced



Appendix (English)

Technical Specifications

Audio Inputs	Connectors	XLR and 1/4" TRS
	Type	RF filtered, servo-balanced input
	Impedance	50 k Ω balanced, 25 k Ω unbalanced
	Nominal Operating Level	-10 dBV to +4 dBu
	Max Input Level	+21 dBu balanced and unbalanced
	CMRR	Typ. 40 dB, > 55 dB @ 1 kHz
Audio Outputs	Connectors	XLR and 1/4" TRS
	Type	Electronically servo-balanced output stage
	Impedance	60 Ω balanced, 30 Ω unbalanced
	Max Output Level	+22 dBu balanced and unbalanced
Frequency Response	5 Hz – 200 kHz, +/- 3 dBu	
S/N Ratio	>95 dBu, unweighted, 22 Hz – 22 kHz	
THD	<0.002% typ. @ +4 dBu, 1 kHz, gain 1	
Power Supply	Voltage	100–240 VAC, 50/60 Hz
	Power Consumption	Max 15 W
	Fuse	T500mAL AC 250 V
Dimensions (length x width x depth)	7.54" x 1.7" x 19" 195 mm x 44 mm x 483 mm	
Weight	5.73 lbs. 2.6 kg	

Specifications are subject to change without notice.

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