



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE MLM 82. You'll find the answers to all your questions on the RANE MLM 82 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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## RANE DATA SHEET MLM 82 MIC/LINE MIXER



### General Description

The Rane MLM 82 is an eight-input, two-output mic/line mixer. Inputs 1-4 are mic/line level switchable, and Inputs 5-8 accommodate up to four stereo or mono line level sources.

Inputs 1-4 are balanced XLR connectors for use with microphone or line level sources, split equally to both Outputs. Mic Phantom Power is provided by a switch on the rear of the unit. Recessed front panel switches convert each of these inputs to Line level (an indicator lights to confirm this). Phantom power is removed from the Input whenever Line is selected.

Channels 5-8 are line level, accepting a mono balanced XLR input, a 1/2" TRS balanced/unbalanced mono Line Input,

or a stereo pair of 1/4" TRS balanced/unbalanced Line Inputs. Automatic switching jacks determine whether a single input or stereo inputs are connected.

The microphone preamps in the MLM 82 have gain range trim combined with the Level control. The Level control adjusts the input dynamic range automatically as the Level is changed. There is no need for the typical gain trim controls found in complex mixers.

Left and Right Outputs feature Overload LEDs and Level controls. The recessed Mono switch is active when the LED is illuminated. Individual rear panel Output Level switches convert either Output to Mic or Line level.

### Features

- Four Stereo/Mono Balanced/Unbalanced Line Inputs (1/4" TRS)
- Four Mono Balanced Line Inputs (XLR)
- Four Mono Balanced Mic/Line Inputs (XLR)
- Two Balanced Outputs (XLR)
- Outputs Switchable to Mic or Line Level
- Phantom Power Switch
- Trimless Mic Stage Preamps
- Stereo/Mono Switch
- Bi-Color Signal Present/Overload LEDs
- Studio Grade Low Noise Floor
- UL/CSA/CE and 100/120/230 VAC Remote Power Supplies

Data Sheet-1



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**Manual abstract:**

Mic Phantom Power is provided by a switch on the rear of the unit. Recessed front panel switches convert each of these Inputs to Line level (an indicator lights to confirm this). Phantom power is removed from the Input whenever Line is selected. Channels 5-8 are line level, accepting a mono balanced XLR Input, a 1/4" TRS balanced/unbalanced mono Line Input, or a stereo pair of 1/4" TRS balanced/unbalanced Line Inputs. Automatic switching jacks determine whether a single input or stereo inputs are connected. The microphone preamps in the MLM 82 have gain range trim combined with the Level control. The Level control adjusts the input dynamic range automatically as the Level is changed. There is no need for the typical gain trim controls found in complex mixers. Left and Right Outputs feature Overload LEDs and Level controls. The recessed Mono switch is active when the LED is illuminated. Individual rear panel Output Level switches convert either Output to Mic or Line level. Features . . . . Four Stereo/Mono Balanced/Unbalanced Line Inputs (1/4" TRS) Four Mono Balanced Line Inputs (XLR) Four Mono Balanced Mic/Line Inputs (XLR) Two Balanced Outputs (XLR) Outputs Switchable to Mic or Line Level . . . . Phantom Power Switch Trimless Mic Stage Preamps Stereo/Mono Switch Bi-Color Signal Present/Overload LEDs Studio Grade Low Noise Floor UL/CSA/CE and 100/120/230 VAC Remote Power Supplies Data Sheet-1 MLM 82 MIC/LINE MIXER Features and Specifications Parameter Inputs:

Type ....

.....  
.Connectors Mic Input Impedance .....

.Mic Gain Range .....

.Line Gain Range ....

.....

.Equivalent Input Noise .....

.THD & Noise Stereo Line Input Impedance .....

.Gain Range ....

.....

.Signal-To-Noise Ratio Outputs: Type .....

.Connectors .....

.Impedance ....

.....

.Gain Range .....

.Drive Level Phantom Power Output Cable Length THD+Noise Frequency Response Crosstalk Unit: Agency Listing .....

.120 VAC model Specification Active Balanced XLR & 1/4" TRS 900 ohm off to +60 ohm off to +20 -128 0.02 20k ohm off to +0 101 Active Balanced XLR 200/100 Ohm off to +6 +24 +15 1500 0.005 10-150 kHz 75 @ 10 kHz Class 2 Equipment UL CSA CE-EMC CE-Safety UL CSA CE-EMC CE-Safety 18 VAC w/center tap 750 All Steel 1.75"H x 19"W x 5.

3"D (1U) 4 lb 4.25" x 20.3" x 13.75" 8 lb Limit Units Conditions/Comments max ohms dB dB dBu % ohms dB dB Balanced 450 + 450 20 kHz bandwidth, 150 ohm termination Input Level max, Output at 0 dB Pin 2 "+" Line level Out/Mic level Out 600 ohm load balanced Line level, <50 pf per foot 0.002 -3 2 ohms dB dBu VDC feet % dB dB re +4 dBu any Ch to any Ch, 20-20 kHz National Electrical Code Exempt Class 2 equipment Exempt Class 2 equipment EMC directive 89/336/EEC Exempt per Art.

1 of LVD 73/23/EEC Class 2 Equipment File no. E88261 File no. @@@@The same is true for the Mono Output switch and LED. The switching jacks for Inputs 5-8 make input mode automatic. When a stereo pair is inserted, the input is stereo. When a single jack is inserted, the input is mono. @@The Input Levels combine a trim pot with a standard level control. @@@Full input dynamic range is retained in the circuit. The two-color Signal/Overload LEDs alert the user of proper levels. @@@@Depress the Mono switch for this application.

@@@Four (4) of these shall be microphone or line level switchable, and shall include overload indicators on each input. The remaining four (4) inputs shall be line level, accommodating stereo or mono signals. The outputs shall be individually switchable to mic or line level. Individual output level controls and overload indicators shall be provided. The outputs shall be switchable to mono or stereo operation. 15V Phantom power shall be provided for the microphone-selected inputs via a rear panel switch. The unit shall be exempt from agency safety requirements and powered from a UL listed / CSA certified (120 VAC), or CE approved (230 VAC) remote power supply. The unit shall be constructed entirely from cold-rolled steel, and mount into a standard 19" 1U EIA rack. @@@DOC 103225 PN 08425 11-98 .



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