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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE MLM 82A. You'll find the answers to all your questions on the RANE MLM 82A 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 OPERATORS MANUAL MLM 82a
MIC/LINE MIXER



QUICK START

This section is provided as a convenience for those in a rush. If you are experienced with this unit or other Rane products, these few words will refresh your memory.

INPUTS 1 through **4** may be microphone or line level. The choice between the two is made by setting the **LINE** push buttons on the **REAR** of the unit next to the **MIC/LINE INPUT JACKS**. Each microphone input may be assigned to **A**, **B** or **A+B** outputs using the front panel **ASSIGN** switches.

INPUTS 5 through **8** are stereo line inputs which may be set to mono using the recessed **MONO** switches located on the front panel.

Internal switches allow setting output signal levels for **MIC** or **LINE**. The factory default setting is **LINE**. If the MLM 82a is connected directly to a power amplifier, equalizer or recorder input, choose **LINE** level. If the MLM 82a is connected to a microphone jack of an existing sound system, choose **MIC** level.

Once inputs, outputs, and power are properly connected, with the **OUTPUT LEVELS** counter-clockwise (off), set the **Input LEVELS** as high as possible without causing the **SIG./OL** indicators to blink red except during extreme signal peaks. Now slowly raise the **OUTPUT LEVELS** as desired.

Never connect anything except an approved Rane power supply to the red thing that looks like a telephone jack on the rear of the MLM 82a. This is an AC input and requires special attention if you do not have a power supply exactly like the one that was originally packed with your unit. See the full explanation of the power supply requirements on page Manual-3.

MLM 82a CONNECTION

When connecting the MLM 82a to other components in your system for the first time, leave the power supply for last. This gives you a chance to make mistakes and correct them without damage to your fragile speakers, ears and nerves.

MIC/LINE INPUTS 1-4

The four XLR jacks provided on the MLM 82a are balanced MIC/LINE inputs. They will also accept unbalanced connections. Use only shielded cable for inputs. For best noise rejection use two-conductor-plus-shielded wire, even for unbalanced operation. Connect the shield at both ends to help insure proper grounding. See the Sound System Interconnection RaneNets included with this manual for all cable adaptations. Rane follows the AES recommended practice of pin 2 positive, pin 3 negative, and pin 1 to shield. Switch any input connected to a microphone to the **MIC** position (out) using the associated switches on the rear panel. When connecting line level signals, switch the input to the **LINE** position (in). A single phantom power switch is provided for the four MIC inputs. If **LINE** is selected, Phantom Power is disabled for that input.

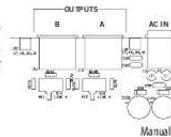
WEAR PARTS: This product contains no wear parts.

STEREO LINE INPUTS 5-8

The **W** connectors are line-level balanced/unbalanced inputs. If the MLM 82a is to be used with unbalanced sources, consult the Sound System Interconnection RaneNets included with this manual for proper wiring. Stereo inputs use both **A** and **B** jacks at each INPUT. INPUTS 5 through 8 also serve as mono inputs when the front panel **MONO** switch is engaged.

OUTPUTS

The MLM 82a's **OUTPUTS** are balanced. The same wiring conventions as the XLR inputs apply. The type of device following the MLM 82a must be considered when setting the internal Output Level switch. Choose between **LINE** (0 dB) or **MIC** (-40 dB) output, the factory setting is **LINE**. If the MLM 82a is connected directly to a power amplifier input, choose **LINE** level. If the MLM 82a is connected to a microphone jack or an existing sound system, choose **MIC** level. For unbalanced **OUTPUT** connections do not tie pin 3 (i.e. "-") to ground.



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Manual abstract:

If you are experienced with this unit or other Rane products, these few words will refresh your memory. INPUTS 1 through 4 may be microphone or line level. The choice between the two is made by setting the LINE push buttons on the REAR of the unit next to the MIC/LINE INPUT JACKS. Each microphone input may be assigned to A, B or A+B outputs using the front panel ASSIGN switches. INPUTS 5 through 8 are stereo line inputs which may be set to mono using the recessed MONO switches located on the front panel. Internal switches allow setting output signal levels for MIC or LINE. The factory default setting is

LINE. If the MLM 82a is connected directly to a power amplifier, equalizer or recorder input, choose LINE level. If the MLM 82a is connected to a microphone jack of an existing sound system, choose MIC level. Once Inputs, Outputs, and power are properly connected, with the OUTPUT LEVELS counterclockwise (off), set the Input LEVELS as high as possible without causing the SIG/OL indicators to blink red except during extreme signal peaks.

Now slowly raise the OUTPUT LEVELS as desired. Never connect anything except an approved Rane power supply to the red thing that looks like a telephone jack on the rear of the MLM 82a. This is an AC input and requires special attention if you do not have a power supply exactly like the one that was originally packed with your unit. @@@@They will also accept unbalanced connectors. Use only shielded cable for inputs.

@@Connect the shield at both ends to help insure proper grounding. See the Sound System Interconnection RaneNote included with this manual for all cable adaptations. Rane follows the AES recommended practice of pin 2 positive, pin 3 negative, and pin 1 to shield. Switch any input connected to a microphone to the MIC position (out) using the associated switches on the rear panel. When connecting line level signals, switch the input to the LINE position (in).

A single phantom power switch is provided for the four MIC inputs. If LINE is selected, Phantom Power is disabled for that input. STEREO LINE INPUTS 5-8

The 1/4" connectors are line-level balanced/unbalanced Inputs. If the MLM 82a is to be used with unbalanced sources, consult the Sound System Interconnection RaneNote included with this manual for proper wiring. Stereo Inputs use both A and B jacks at each INPUT. INPUTS 5 through 8 also serve as mono Inputs when the front panel MONO switch is engaged. OUTPUTS The MLM 82a's OUTPUTS are balanced. The same wiring conventions as the XLR Inputs apply. The type of device following the MLM 82a must be considered when setting the internal Output Level switch. Choose between LINE (0 dB) or MIC (-40 dB) output, the factory setting is LINE.

If the MLM 82a is connected directly to a power amplifier input, choose LINE level. If the MLM OUTPUTS 82a is connected to a B A AC IN microphone jack on an existing sound system, choose MIC level. For unbalanced OUTPUT connections do not tie pin 3 (i.e. "GND") to ground. WEAR PARTS: This product contains no wear parts. Manual- FRONT PANEL DESCRIPTION 1 4 2 SIG 0 10 6 8 MONO MIC/LINE INPUTS 2 3 4 4 8 6 8 0 10 4 5 6 8 0 10 2 4 STEREO

LINE INPUTS 6 7 8 4 8 2 6 8 0 10 2 4 A OUTPUTS 6 8 2 0 4 B 6 8 10 4 6 8 4 6 6 8 2 4 6 OL ASSIGN A B A+B 2 SIG 0 10 LEVEL OL ASSIGN A B A+B 2 SIG 0 10 LEVEL OL ASSIGN A B A+B 2 SIG LEVEL OL ASSIGN A B A+B 2 MLM 82a MIC/LINE MIXER MONO 0 10 MONO 0 10 MONO MONO 0 10 LEVEL LEVEL LEVEL LEVEL OL LEVEL OL LEVEL POWER 1 2 3 4 5 6 7 8 1 SIGNAL present/OverLoad LED. This bi-color LED lights green for a -30 dBu signal, and turns red when the Input is within 3 dB of clipping. 2 MONO MIC/LINE INPUT LEVEL controls 1-4 determine the MIC/LINE preamp gain and mix level to be assigned to the A, A+B, B Outputs. 3 ASSIGN switches determine between the A, A+B or B Outputs for each MIC/LINE input.

@@@@@Rane adheres to the international and U.S. @@@@If LINE is chosen, Phantom Power is deactivated for that Input. 4 1/4" LINE INPUTS. @@@@5 A and B OUTPUT jacks.

These balanced XLR's provide the A and B mixed output. @@Pin connections are the same as above in 1. 6 POWER supply input. This is not a telephone jack. @@@@Call the Rane factory for RS 1 replacement or substitution.

7 Chassis ground point. A #6-32 screw is provided for chassis grounding purposes. @@This power supply does not ground the unit. @@@@Your mission, should you accept it, is to discover how your particular system wants to be grounded. Here are some things to try: 1. Try combinations of lifting grounds on units that are supplied with ground lift switches or links. 2. If your equipment is in a rack, verify that all chassis are tied to a good earth ground, either through the line cord grounding pin or the rack screws to another grounded chassis. 3. Try moving the device away from high magnetic field sources, such as large transformers used in power amplifiers.

Please refer to the RaneNote "Sound System Interconnection" for further information on system grounding. Manual- OPERATING INSTRUCTIONS MONO MICROPHONE/LINE LEVEL INPUTS 1-4 The microphone pre-amps in the MLM 82a have a combination gain trim, Level control. The LEVEL control adjusts both the input dynamic range and mix level. There is no need for the typical independent gain trim control found on most mixers. The PHANTOM POWER switch activates 15 volt Phantom Power for all Inputs selected for microphone use. With LINE selected, Phantom Power is defeated only in that Input. 15 volts is sufficient power for all but the most esoteric condenser microphones. If in doubt, check the manufacturer's microphone specs. SIGNAL PRESENT/OVERLOAD INDICATORS The MLM 82a has four bi-color indicators for Signal Present/Overload (green/red). Green indication occurs when there is a signal present above -30 dBu.

This lamp should be glowing green when signal is present. If this lamp is off, check these possibilities: A. The Input may not be connected. B. There is little or no signal present at the moment.

C. There is a Mic connected to a channel switched to LINE. D. The Mic needs Phantom Power (See Rear Panel, 2). E.

The LEVEL control needs to be increased (clockwise). F. The cable is not wired properly (See the Sound System Interconnection RaneNote). A red glowing LED indicates that the levels are so high that distortion due to clipping is occurring or imminent. Check these conditions: A. The LEVEL control may be turned too high. B. The Output of the preceding device may need to be reduced. C. The Input may be switched to MIC with a line-level source.

Switch the Input to LINE. STEREO LINE INPUTS 5 through 8 do not have overload indicators. Because 12 dB of gain is added after the STEREO LINE INPUT LEVEL controls, it is possible to overload a line input without an overload indication. The A and B OUTPUT OL indicators can overload from the Line Inputs if the OUTPUT LEVEL controls are set to 10.



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Although a single Input may be at unity gain, multiple active Inputs mixed together can cause an overload. @@@@A single mono input may be used for the A and/or B inputs. Any mono source connected to A will go to the A output. Any mono source connected to the B input will go to the B output. @@If you wish to mono a single stereo source and have it present in A and B outputs, press the mono switch. STEREO LINE INPUTS 5-8 may each be independently set for mono operation.

HOLE PLUGS To protect the setting of any rotary control, remove the knob by simply pulling it off, and snap in one of the hole plugs included with your unit. To protect the entire front panel, use a Rane SC 1.7 Security cover. ©Rane Corporation 080 7th Ave. W. , Mukilteo WA 9875-5098 TEL 5-55-6000 FAX 5-7-7757 WEB www.rane.com Manual- 106154 .



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