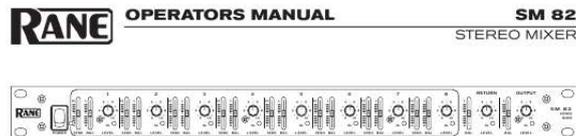




# Your PDF Guides

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

**User manual RANE SM 82**  
**User guide RANE SM 82**  
**Operating instructions RANE SM 82**  
**Instructions for use RANE SM 82**  
**Instruction manual RANE SM 82**



#### QUICK START

No one likes to read manuals. Everyone likes to just start pushing buttons and turning knobs until the desired results magically emerge. That's usually OK, and with a very few exceptions, damage is unlikely to result from such procedures with the SM 82. This product is quite obvious: Input LEVEL controls make inputs louder or not, the stereo SENDs make things happen at the LOOP SEND outputs, and so on. No real magic there. You should be aware, however, that if you want to connect a mono source to the SM 82, use only the LEFT Input of a channel so that the mono source will drive both the Left and the Right channels. Set the levels of the mixer so that the red lights stay off. If they come on, you are overdoing it and distortion will result. **Never connect anything except an RS 1 or other approved Rane AC power supply to the thing that looks like a telephone jack on the rear of the SM 82.** This is an AC input and requires some special attention: if you do not have an operational 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.

#### SM 82 CONNECTION

When connecting the SM 82 to other components in your system for the first time, *leave the power supply for last.* This will give you a chance to make mistakes and correct them before any damage is done to your fragile speakers and ears.

#### INPUTS

The SM 82's Inputs are unbalanced. This means that standard 1/4" connectors on the ends of any good quality cable will work well between your signal source's signal processing and amplification. For best rejection of nasty things like hum and RF, keep input cables under 10 feet (3 meters) in length.

Most sources give you the choice of stereo or mono output. The mixer gives you the same choice. You will note that nomenclature has been placed beneath the input jacks indicating which is RIGHT and which is LEFT (MONO). If a source is plugged only into the Left jack and not into the Right, both Right and Left channels will be fed with the Left Input. This allows the use of either stereo or mono sources.

#### OUTPUTS

The SM 82 offers balanced main outputs only. This means that you may use them as either balanced or unbalanced, the choice being made by the way the connectors are wired. It's a good idea to always use a TRS or stereo connector in the outputs no matter which mode you are using. If a "mono" connector is used, inserting it into the output will short the ring (-) to ground and could conceivably cause a small amount of distortion to be placed on the tip (+). While this is not destructive, it may be significant enough to be audible. Balancing therefore requires

**WEAR PARTS:** This product contains no wear parts.

that both tip (+) and ring (-) be wired to the following device. Unbalanced requires only tip and sleeve connected, leaving the unused ring open.

#### EFFECTS DEVICES

External devices which might be used could be either mono in and out, while some may be mono in and stereo out, while still others may be stereo on both ends. The SM 82 easily accommodates all of these varieties. If your effect is mono on both ends, connect its input to the SM 82 LEFT LOOP SEND and the effect's output to the SM 82 LEFT LOOP RETURN. This configuration will sum Right and Left Loop Outputs to the mono effect input and will sum the mono effect output to the Left and Right Input buses. A mono-in stereo-out device would connect to the loop outputs in the same way; however the stereo outputs connect to the respective LEFT and RIGHT LOOP RETURNS.

#### EXPANDING

Connecting two or more SM 82s together to achieve more than eight stereo Inputs requires that a stereo cable (tip, ring, sleeve) be connected between the MAIN EXPAND OUTPUT of the first mixer and the MAIN EXPAND INPUT of the second. All 32 Inputs will then appear at the main OUTPUT of mixer number two. Only the first sixteen Inputs will be available at the main Outputs of mixer number one. Should you wish to have all Loop buses tied, connect the LOOP SENDS of mixer one to the LOOP EXPAND INPUT of mixer two. All sixteen stereo sends will then become active at the LOOP SENDS of the second mixer.

Manual-1



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3. Units with outboard power supplies, such as the SM 82, do not ground the chassis through the line cord. Make sure that these units are grounded either to -another chassis which is earth grounded, or directly to the grounding screw on an AC outlet cover by means of a wire connected to a screw on the chassis with a star washer to guarantee proper contact. Please refer to the RaneNote, "Sound System Interconnection" (s.



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