



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE ME 60. You'll find the answers to all your questions on the RANE ME 60 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 ME 60 microGRAPHIC EQUALIZER



### QUICK START

Okay, know-it-all. So you don't need to read the manual. Well do your mother a favor and just read this section and you don't have to read anything else. Ever.

Hook-up is intuitive. Just follow the silkscreened instructions on the rear of the unit. All three Inputs are wired in parallel (they do *not* sum); and all three Outputs are wired in parallel. Use any *one* Input and any or all Outputs. Polarity convention is per IEC/ANSI/AES standards of pin 2 positive, pin 3 negative and pin 1 shield. The ME 60 does not invert the signal.

Set the **LO CUT** and **HI CUT** controls as necessary to restrict bandwidth. Full frequency response results from positioning them all the way to the bottom.

Anyone familiar with other graphic equalizers finds the ME 60 just as familiar. Setting curves is as easy as it is on all Rane graphics thanks to our innovative constant-Q circuitry. If you feel you want more information on setting up your curves, please see the back page.

There, now was that so bad?

### ME 60 CONNECTION

When first connecting the ME 60 to other components, *leave the POWER switch off until the very last*. This gives you a chance to make mistakes and correct them without damaging your fragile speakers, ears and nerves.

#### INPUTS

All three Inputs are wired in parallel and are actively balanced, except the unbalanced RCA phono. Each works equally well. Choose strictly from a required hardware point-of-view, there will be no performance trade-offs. The wiring convention adheres to American, British and International standards of pin 2 or tip being hot, pin 3 or ring being return, and pin 1 or sleeve being shield. It is not necessary to short any inputs to ground—it doesn't hurt, it's just not necessary. Use pin 1, or the shell, for shield ground. Unbalanced operation involves using only pin 2 or tip as signal, and pin 1 or sleeve as shield and ground.

#### OUTPUTS

The Outputs mimic the Inputs. Balanced output requires using pin 2 or tip, and pin 3 or ring for the signal. It does not require pin 1 or shield. The signal exists differentially between the two balanced leads; ground is not involved. For hum-free systems ground is used only for shielding.

#### EXPANDING

Expanding and/or daisy-chaining the Inputs and Outputs normally uses the 1/4" jacks. Three parallel Input connectors allows driving a second signal processor or amplifier without special cabling.

#### SIGNAL LEVELS

Signal levels from -10 dBV to +4 dBu are considered normal and within range (at least 20 dB of headroom exists above these levels). Do not directly connect microphones into the ME 60. These require a mic preamp.

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

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*Avoid adding large amounts of boost below 63 Hz, especially when using vented bass cabinets.*

*@@@@@@@If it sounds good, you're done. TONE CONTOURING If a ME 60 is used for tone contouring by ear, be careful about adding upper bass (63 Hz to 200 Hz) as this can cause "muddiness" or loss of clear definition. (Also see the previous warning about boosting frequencies below 63 Hz.) Middle frequency problems usually express themselves by vocals having a nasal quality (too much mid band boost) or vocals not being easily understandable (usually caused by mid band frequencies being under represented in the overall sound). High frequency problems show as "sizzle"-- not good, and is sometimes caused by too much high frequency boosting.*

*This is most obvious with cymbals and hi-hats. To use the cooking metaphor, high frequencies should simmer, not sizzle. ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Manual-4 103107 .*



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