

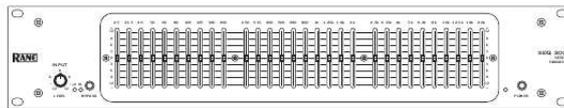


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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE SEQ 30L. You'll find the answers to all your questions on the RANE SEQ 30L in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RANE OPERATORS MANUAL **SEQ 30L**
STEREO GRAPHIC EQUALIZER



QUICK START

If this is your first equalizer, please do yourself and your speakers a favor and read at least the first five pages: "An ounce of prevention..." and all that.

The SEQ 30L is a stereo equalizer, so adjusting any slider affects both channels simultaneously. Begin by setting all sliders to their center detent (0 dB), and the INPUT LEVEL to its center detent (0 dB). Try to make more cuts than boosts. After equalizing, use the EQ switch to compare equalized and non-equalized signal. While EQ is switched to Active (BYPASS button out), adjust the INPUT LEVEL to the same level as when EQ is switched to BYPASS (in).

You may use either the XLR or 1/4" connectors for Inputs or Outputs. Connect only one INPUT type per channel. The XLR and 1/4" TRS inputs do not sum. You may, however, use both types of OUTPUTS simultaneously if desired.

WEAR PARTS: This product contains no wear parts.

Manual-1



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Manual abstract:

5 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1k 1.25k 1.6k 2k 2.5k 3.15k 4k 5k 6.3k 8k 10k 12.5k 16k 20k + 12 9 6 3 0 3 6 9 12 SEQ 30L STEREO EQUALIZER INPUT 0 -6 6 3 6 9 +4 OL 12 -12 LEVEL BYPASS POWER QUICK START If this is your first equalizer, please do yourself and your speakers a favor and read at least the first five pages. "An ounce of prevention... , " and all that. The SEQ 30L is a stereo equalizer, so adjusting any slider affects both channels simultaneously. Begin by setting all sliders to their center detent (0 dB), and the INPUT LEVEL to its center detent (0 dB). Try to make more cuts than boosts. @@@@Connect only one INPUT type per channel. The XLR and 1/4" TRS inputs do not sum. @@0 dB gain is reached at the center detent with all sliders centered at their 0 dB detents. Set the INPUT LEVEL to give equal volumes with the EQ switched to ACTIVE or BYPASS, after setting the sliders (see EQ BYPASS switch below). Apply sufficient signal to the input to occasionally light the +4 dBu indicator. Flashing of the OL (overload) LED during peaks can be avoided by turning the INPUT LEVEL or boosted filters down.

EQ BYPASS switch When pressed to BYPASS, the filter sliders have no effect. Since actual unity gain depends on varying slider settings, use the BYPASS switch to determine the unity gain position of the INPUT LEVEL control by comparing ACTIVE and BYPASS volumes. Filter level slide controls Each of these sliders control the output level of both channels of the 30 bandpass filters. Center position is grounded for guaranteed flat response. POWER switch and LED Your basic, straightforward power switch. When the yellow LED is lit, the SEQ 30L is ready to go. Manual-2 REAR PANEL DESCRIPTION SEQ 30L MADE IN U.S.A. RANE CORP.

WIRING 3-PIN XLR: PIN 2 = (+), PIN 3 = (-), PIN 1 = CHASSIS, SHIELD WARNING ACN 001 345 482 TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. 1/4" PHONE, BALANCED: TIP = (+), RING = (-), SLEEVE = CHASSIS, SHIELD 1/4" PHONE, UNBALANCED: TIP = SIGNAL, RING = GROUND, SLEEVE = CHASSIS, SHIELD OUTPUTS LEFT RIGHT LEFT INPUTS RIGHT FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW 120 V 50/60 Hz 12 WATTS UNBALANCED BALANCED UNBALANCED BALANCED BAL / UNBAL BALANCED BAL / UNBAL BALANCED 2 1 LEFT & RIGHT INPUTS Choose between the balanced XLR or the balanced/unbalanced 1/4" tip-ring-sleeve jacks, but only use one. Inserting a 1/4" tip-sleeve jack will work, however--always use balanced lines when connecting cables over 10 feet (3 meters) in length. Consult the Sound System Interconnection section included in this booklet. In agreement with IEC and AES/ANSI standards, XLR wiring convention is pin 2 Positive (hot), pin 3 Negative (cold), and pin 1 Signal ground (for unbalanced use). Pin 1 and the connector case or shell are tied to chassis ground.

LEFT & RIGHT OUTPUTS Use the balanced XLR or the unbalanced 1/4" tip-sleeve jacks.

@@@@Both what and why you are equalizing determines where you install it. WHAT AND WHY Tone contouring is accomplished primarily by ear. This you know how to do. Be careful though, not to boost too much bass. @@@@This also gives better noise performance through the system.

Connect the SEQ 30L before the amplifier or active crossover. Take any required line gain before the SEQ 30L. @@@@You can expect several advantages from your constant-Q equalizer over conventional designs: Moving one slider will not affect neighboring filters as much, so you won't spend time re-adjusting sliders (we call this "equalizing the equalizer"). You'll be able to obtain better feedback control without losing sound quality. All sliders maintain smooth, consistent and accurate calibrated control over filter levels.

Because of this, the overall EQ adjustment process is significantly easier and more effective. Equalizing a sound system by ear is very difficult to achieve successfully, especially in a timely manner. Although the human ear is very sensitive, it is not calibrated, nor consistent, and frankly the odds against a well behaved, clear sound system are very great when tuned by ear. Most people know when a sound system doesn't sound good, unfortunately they just can't tell exactly why and where it's not right. Because of this, we strongly recommend the use of a realtime analyzer to properly equalize your system. A realtime analyzer helps you quickly achieve things nearly impossible by ear: flatten speaker response, minimize feedback, reduce room resonance and achieve accurate crossover alignment. In most cases, simply "normalizing" or "flattening" a sound system is a surprisingly drastic improvement, but don't stop there: Remember this Rane proverb: "Look, don't stop, and listen." Once you have aligned the system by looking at the analyzer, don't stop at this point. Listen to the music program and make additional adjustments to suit your taste, the type of music and your audience. Fatten the bass, sweeten the highs, brighten the mids.

Since you are starting from a "tuned" system, your ear will not be fooled into thinking bass is too high when actually mids are too low, or that highs are too weak when really the mids are too strong. Fact: analyzers don't have good taste--people do. @@@@We of course recommend the very fine and affordable Rane RA 30 Realtime Analyzer. Check it out. ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 USA TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Manual-4 All features & specifications subject to change without notice.107081 .



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