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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE ME 15B. You'll find the answers to all your questions on the RANE ME 15B 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 ME 15B microGRAPHIC EQUALIZER



### General Description

The Rane ME 15B microGraphic Equalizer is a two-channel,  $\frac{1}{3}$ -octave design with 20 mm sliders in a single rack space unit. It features a Range switch for high slider resolution in the  $\pm 6$  dB mode, equivalent resolution to 45 mm sliders found on double rack space models. The  $\pm 12$  dB mode provides a wide range of control over system audio.

The active filter sections feature Rane's innovative constant-Q (constant bandwidth) design. Constant-Q means the bandwidth of each individual filter is guaranteed to be narrow enough to prevent unwanted interaction between filters, yet wide enough to produce exactly the type of correction curve demanded by even the most unusual acoustic surroundings. This differs

dramatically from conventional designs of the past, encumbered with the unfortunate characteristic of changing bandwidth when changing boost/cut amounts.

Front panel controls and indicators, aside from the sliders and the filter range switches, include an overall Level control for each Channel as well as overload indicators. The rear of the unit provides both  $\frac{1}{4}$ " Tip-Ring-Sleeve and XLR connectors for each of the Inputs and Outputs. The Inputs and Outputs are fully actively balanced. Unbalanced sources may be connected through the use of either "mono"  $\frac{1}{4}$ " connectors or by tying the ring to the sleeve on TRS type plugs.

### Features

- Constant-Q Bandwidth Design
- Overall Level Control
- Passive Bypass Switch
- 20 mm Filter Slide Controls
- $\pm 6$  dB or  $\pm 12$  dB Slider Range
- Grounded Center Detents at 0 dB
- Infrasonic, Ultrasonic, & RFI Filters
- Fully Balanced XLR Inputs and Outputs
- $\frac{1}{4}$ " TRS Balanced/Unbalanced Inputs and Outputs
- UL Listed for USA, cUL Listed for Canada (120 VAC)
- Meets CE Requirements for EMC and Safety (230 VAC)

Data Sheet-1



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**Manual abstract:**

The active filter sections feature Rane's innovative constant-Q (constant bandwidth) design. Constant-Q means the bandwidth of each individual filter is guaranteed to be narrow enough to prevent unwarranted interaction between filters, yet wide enough to produce exactly the type of correction curve demanded by even the most unusual acoustic surroundings. This differs dramatically from conventional designs of the past, encumbered with the unfortunate characteristic of changing bandwidth when changing boost/cut amounts. Front panel controls and indicators, aside from the sliders and the filter range switches, include an overall Level control for each Channel as well as overload indicators. The rear of the unit provides both 1/4" Tip-Ring-Sleeve and XLR connectors for each of the Inputs and Outputs. The Inputs and Outputs are fully actively balanced. Unbalanced sources may be connected through the use of either "mono" 1/4" connectors or by tying the ring to the sleeve on TRS type plugs. Features . . . . Constant-Q Bandwidth Design Overall Level Control Passive Bypass Switch 20 mm Filter Slide Controls ±6 dB or ±2 dB Slider Range . . . . Grounded Center Detents at 0 dB Infrasonic, Ultrasonic, & RFI Filters Fully Balanced XLR Inputs and Outputs 1/4" TRS Balanced/Unbalanced Inputs and Outputs UL Listed for USA, cUL Listed for Canada (20 VAC) Meets CE Requirements for EMC and Safety (230 VAC) Data Sheet- ME 15B microGRAPHIC EQUALIZER Features and Specifications Parameter

Equalizer: ...

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..Bands ...

.....Type ...

.....Accuracy ...

.....

..Travel ...

.....Range Inputs: Type ...

.....Connectors ...

.....

..Impedance ...

.....Maximum Level Outputs: Type ...

.....Connectors ...

.....

..Impedance ...

.....Maximum Level Overall Gain Range RFI Filters Passive Bypass Switches LED Thresholds: Overload Infrasonic Filter Frequency Response THD+Noise IM Distortion (SMPTE) Signal-to-Noise Ratio Specification (15) 2/3-octave ISO spacing Constant-Q 3 20 ±12 or ±6 Active balanced/unbalanced XLR & 1/4" TRS 20k balanced; 10k unbalanced 20 Active balanced/unbalanced XLR & 1/4" TRS 200 balanced 100 unbalanced +20 balanced +15 unbalanced +19 balanced +13 unbalanced Off to +0 (unbalanced output) Off to +6 (balanced output) Yes Yes 4 20 Hz, 18 dB/octave, Butterworth 20-100 kHz 0.011 0.01 re +20 dBu +4 dBu 107 91 92 76 104 88 85 40 12 105-130 VAC, 50/60 Hz 210-250 VAC, 50 Hz UL cUL (Canada) CE-EMC (EN55013 & EN55020) CE-Safety (EN60065) All steel 1.

75" H x 19" W x 5.25" D (1U) 5 lb 4.25" x 20.3" x 13.75" 8 lb Limit Units Conditions/Comments From 25 Hz to 16 kHz % mm dB Center frequency Positive grounded center detent Switch selectable 1 min 1 dBu 1% 1 1 min min dBu dBu dB dB 2 k 600 Sliders centered Sliders centered 1 3% +0/-3 max max 2 2 2 min 1 2 2 dB Hz dB % % dB dB dB dB dB W VAC VAC Below clipping Channel Separation Common Mode Rejection Maximum Power Line Voltage:

Domestic .....

....Export Unit: Agency Listing .

.....

....120 VAC model .....

....230 VAC model Unit: Construction .....

....Size .

.....

....Weight Shipping: Size .....

....Weight Note: 0 dBu=0.775 Vrms +4 dBu, 20-20 kHz, 20k BW 60 Hz/7 kHz, 4:1, +4 dBu 20 kHz noise bandwidth Sliders centered, unity gain, balanced Full boost, unity gain, balanced Full cut, unity gain, balanced 1 kHz 1 kHz Max input, 100 k load, unity Max input, 100 k load, unity UL 813 (file E104174) C22.2 (file E104174) EMC directive 89/336/EEC LV directive 73/23/EEC (4.4 cm x 48.3 cm x 13.3 cm) (2.

3 kg) (10.8 cm x 52 cm x 35 cm) (3.6 kg) Data Sheet-2 ME 15B microGRAPHIC EQUALIZER Block Diagram (both channels identical) OVERLOAD OL SENSE BYPASS SWITCH -6 dB -12 dB RANGE +6 dB +12 dB CHANNEL 1 OUTPUT CHANNEL 1 INPUT RFI FILTER 0 dB LOW FILTER 20 Hz (18 dB/Octave) LEVEL (Off to +6 dB) TO FILTERS 2-15 25 Hz BP (NC) BYPASS CUT AMPLIFIER BOOST AMPLIFIER Application Information Rane's microGraphic series of single rack space graphic equalizers offers the same high quality constant-Q performance as their long throw relatives, the Rane GE series. No compromises or trade-offs exist in selecting the microGraphics. All circuitry, components and specifications are essentially identical.

@@@@@@@@@@@@@@@@@@@@@DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. @@@@Each band shall have a bandwidth of 2/3-octave. A switchable boost/cut range of 12 dB or 6 dB shall be provided. A detented and positively grounded 0 dB point shall be provided on 20 mm linear sliders with dust dams.

A rotary overall level control shall be provided with a range from off to +6 dB of gain in balanced mode. The inputs and outputs shall be active balanced/unbalanced designs terminated with both XLR and 1/4" TRS (tip-ring-sleeve) connectors. RFI filters shall be provided. The unit shall provide a passive bypass feature requiring no power to operate. Infrasonic and ultrasonic filters shall be built-in. LEDs shall be provided to indicate overload conditions. The unit shall be capable of operation by means of its own built-in power supply connected to 120 VAC (240 VAC where applicable) and meet CE requirements. The unit shall be UL and cUL listed. The unit shall be entirely constructed from coldrolled steel. The unit shall be a Rane Corporation ME 15B Equalizer.

References 1. D. Bohn, "Constant-Q Graphic Equalizers," *RaneNote*, (1982). 2. D. Bohn, "A New Generation of Filters," *Sound and Video Contractor*, vol. 2, pp. 36-39 (Feb. 1984). 3.  
T. Pennington, "Constant-Q," *Studio Sound*, vol.27, pp. 82-85 (Oct. 1985).  
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, vol. 34, pp. 611-626 (September 1986). 5. D. Bohn, "Exposing Equalizer Mythology," *RaneNote*, (1986). 6. D. @@@@DOC 106284.



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