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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE GE 30. You'll find the answers to all your questions on the RANE GE 30 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 GE 30 GRAPHIC EQUALIZER



General Description

The RANE GE 30 is a single-channel, 1/3-octave equalizer. Housed in a two rack-space unit, the GE 30 features long throw, 60 mm high resolution slide controls on each filter band ensuring good resolution over their entire range.

The operating mode of the GE 30 is either Boost/Cut, or by pressing a button on the rear panel, may be Cut-Only. Another pushbutton on the rear panel allows the operator to select Active Balanced or Transformer Coupled balanced output.

The active filter sections of the GE 30 are of the constant bandwidth (Constant-Q) variety. 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. The bandwidth has also been carefully selected to ensure that two adjacent filters

may be used to achieve curves with peaks in between the center frequencies of the filters (interpolating characteristic). This differs dramatically from conventional designs of the past. Earlier designs (dating back as far as 50 years!) are encumbered with the unfortunate characteristic of changing bandwidth with changing boost/cut amounts.

Front panel controls and indicators, aside from the 30 filter level controls include an overall Level control as well as Signal Present and Overload indicators. Swappable band-limiting filters are provided on the front panel, covering a range of 10 Hz to 250 Hz on the low end and 3.1 kHz to 40 kHz on the high end.

The rear of the unit provides an XLR balanced input, an XLR balanced output and screw terminals duplicating both. See the RaneNote, "Constant-Q Graphic Equalizers" for additional details.

Features

- 1/3-Octave Constant-Q Bandwidth
- Interpolating Filter Response
- Boost/Cut or Cut Only
- Active or Transformer Balanced Output
- Adjustable Low/High Filters
- Power Failure Auto-Bypass
- 60 mm Filter Slide Controls
- Delayed (2 Second) Turn-On
- XLR & Screw Terminal Connectors
- Security Panel Included
- UL/CSA Listed Remote Power Supply (120V)
- CE (Low Voltage & EMC) Remote Power Supply (230V)

Data Sheet-1



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Manual abstract:

The operating mode of the GE 30 is either Boost/Cut, or by pressing a button on the rear panel, may be Cut-Only. 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. The bandwidth has also been carefully selected to ensure that two adjacent filters may be used to achieve curves with peaks in between the center frequencies of the filters (interpolating characteristic). This differs dramatically from conventional designs of the past. Earlier designs (dating back as far as 50 years) are encumbered with the unfortunate characteristic of changing bandwidth with changing boost/cut amounts. Front panel controls and indicators, aside from the 30 filter level controls include an overall Level control as well as Signal present and Overload indicators. Sweepable band-limiting filters are provided on the front panel, covering a range of 10 Hz to 250 Hz on the low end and 3.1 kHz to 40 kHz on the high end. 1 of LVD 73/23/EEC Class 2 Equipment File no. E88261 File no.

Additionally, the GE 30 contains a built-in, switch-selectable Output Transformer. If direct active balanced drive is required, it is there; if, on the other hand, balanced Output Transformer isolation is necessary, it is also there. And the security cover is packed in the same box as the unit. No options. No beforehand decisions to be made that may bite you later.

Aside from the many standard features, the GE 30 utilizes Rane's exclusive Interpolating Constant-Q circuitry. The GE 30 represents Rane's most refined constant-Q design. Truth in slider position became a requirement. On conventional designs they do not.

In the cut-only mode each filter shall provide 0 to -20 dB attenuation at its center frequency.

In the boost/cut mode each filter shall provide up to +12 dB boost and up to -15 dB cut at its center frequency from the 0 dB center detent control position. All frequency gain controls shall be the linear slider type with grounded center detent and 60mm of adjustment travel. The 230 VAC model shall be powered from a remote power supply meeting LVD 73/23/EEC & EMCD 89/336/EEC standards. The equalizer shall be capable of operating balanced or unbalanced through either direct-coupled active or transformer-coupled balanced/unbalanced output into 600 ohms minimum, by means of a rear panel mounted selector switch. The equalizer shall accept from 150 to 20,000 ohm input, balanced or unbalanced. The active equalizer shall provide both professional three-pin and screw terminal connections for input and outputs on the rear panel. A steel security cover shall be provided with the equalizer.

D. Bohn, "Constant-Q Graphic Equalizers," RaneNote, (1982). 2.

D. Bohn, pp. 36-39 (Feb. 1984). 3. T. Pennington, "Constant-Q," Studio Sound, vol.27, pp. 82-85 (Oct. 1985).

4. D. Bohn, "Constant-Q Graphic Equalizers," J. Audio Eng. Soc.

, vol. 34, pp. 611-626 (September 1986). 5. D.

W., Mukilteo WA 98275-5098 TEL 25-355-6000 FAX 25-37-7757 WEB www.rane.com Data Sheet- All features and specifications subject to change without notice. DOC 103120 .



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