

CEQ™ 28R

Remote MIDI Programmable Equalizer

SPECIFICATIONS



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Frequency Response (Balanced and Unbalanced Outputs)

±1 dB 20 Hz - 20 kHz

Distortion

Less than .01% (20 - 20K) .005% Typical

Common Mode Rejection Ratio (CMRR)

36 dB Typical

Input Impedance

Unbalanced: 20K ohms
Balanced: 20K ohms (equal impedances to ground)

Output Impedance

Unbalanced: 1K ohms
Balanced: 2K ohms

Maximum Input Level

Unbalanced: +23 dBV (14V RMS)
Balanced: +23 dBV (14V RMS)

Maximum Output Level

Unbalanced: +17 dBV (7V RMS)
Balanced: +23 dBV (14V RMS)

Nominal Input Level

Unbalanced: 0 dBV (1V RMS)
Balanced: 0 dBV (1V RMS)

Nominal Output Level

Unbalanced: 0 dBV (1V RMS)
Balanced: +6 dBV (2V RMS)

Input Headroom

Nominal: 23 dB

Output Headroom

Unbalanced: 17 dB
Balanced: 17 dB

Output Noise: Unbalanced Output

EQ Out: -95 dBV
EQ In, all Flat: -90 dBV

Filter Bandwidth

1/3 octave

Filter Frequencies:

31.6, 40, 50, 63, 80, 100, 125, 160, 200, 250, 316, 400, 500, 630, 800, 1K, 1.25K, 1.6K, 2K, 2.5K, 3.16K, 4K, 5K, 6.3K, 8K, 10K, 12.5K, 16K

Filter Q

4.77
40 Hz to 12.5 kHz

Shelving Filters

32 Hz and 16 kHz are 12 dB per octave

Maximum Boost & Cut Filters:

±12 dB (±12 dB position)
±6 dB (±6 dB position)

Maximum Boost & Cut Gain (WideBand Gain)

±12 dB (±12 dB position)
±12 dB (±6 dB position)

Subsonic Low Cut Filter

18 dB per octave

Frequency

40 Hz

FEATURES:

- 28 band programmable equalizer
- 26 band constant Q filters
- Low and high shelving filters
- Single I.U. standard rack space
- 7-Segment display on front panel
- Selectable display modes from front panel
- 2, 4, or 8 preset curves may be recalled from front panel
- 128 EQ curves may be stored in memory
- Built-in 40 Hz subsonic filter
- Turn on/off transient muting
- MIDI program change, continuous controller and system exclusive capability

DESCRIPTION

The Architectural Acoustics CEQ™ 28R is a remote MIDI programmable equalizer. It may also be EQ programmed from the CEQ™ 28 automatic programmable equalizer. The CEQ 28R features a 28 band equalizer with 26 constant Q filters, and will store 128 equalization curves. It is designed to be installed with no access to changing EQ, but still allow the capability to recall 2, 4, or 8 preset curves from the front panel.

Special EQ curves may be "downloaded" from the CEQ 28 to the CEQ 28R via MIDI for permanent installations, as a back-up system, or when additional equalizers are required. 128 curves may be stored but only certain ones may be accessed from the front panel, allowing safe, selectable equalizations that may be installed with "no chance" of adjustment by unqualified personnel.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The graphic equalizer shall be monaural. The unit shall be a remote, slave equalizer to a compatible master unit. The master unit shall be able to be removed and it shall function as a stand-alone, preset equalizer, once curves are created with the master unit. It shall consist of 28 bands on ISO 1/3 octave centers. The top and bottom (32 Hz

and 16 kHz) bands shall be shelving filters. The remaining 26 bands shall be constant-Q filters. The adjustment of these bands shall be ± 12 dB in 1 dB steps, or ± 6 dB in 0.5 dB steps. It shall be able to store 128 complete EQ curves including an 8 character, user programmed label for each curve in non-volatile memory. It shall also have a serial, digital control interface with in, out and thru jacks. The interface shall conform to the MIDI standard. Up to 15 of these remote slave, 1/3 octave graphic equalizers shall be able to be individually controlled by a compatible master unit via digital control interface. Using the master unit with its built-in RTA, it shall be able to be automatically adjusted to achieve a specified room/system response. The equalizer shall have a switchable, 3rd-order 40 Hz subsonic filter. It shall also be able to transfer stored curves between units or to a floppy disk storage unit via the digital interface. The front panel 7-segment display and Select button shall be

able to be configured in 1 of 5 different operating modes. These shall include modes for recall of 2, 4 or 8 different stored curves and for selection of the slave channel number. The graphic equalizer shall have active electronically balanced inputs and outputs via both XLR and RTS 1/4 inch jacks. The maximum input level shall be +23 dBV balanced or unbalanced and the maximum output level shall be +23 dBV balanced or +17 dBV unbalanced. The frequency response shall be ± 1 dB from 20 Hz to 20 kHz. The THD shall be less than 0.01% (0.005 typical). Hum and noise shall be less than -90 dBV. The dynamic range shall be greater than 107 dB. The unit shall be packaged in a rugged metal chassis 16 3/4" wide by 1 3/4" high by 7 3/4" deep. The unit shall operate on 120 Volts AC, 60 Hz power. The unit shall be called the Peavey Architectural Acoustics Division CEQ™ 28R.

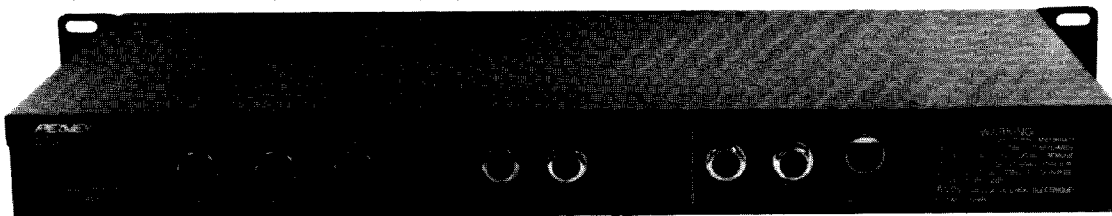
LIMITED WARRANTY

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Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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