

Volume/Equalizer Control Expansion Card: C2VEQ-4

Purpose

The purpose of this addendum is to provide additional specification detail and related changes not supplied with the original C2VEQ-4 Operations & Installation Guide (Doc. 6136). Specifically, this addendum corrects:

- Description of parametric/graphic filters that appeared on page 2.
- Specification table that appeared on page 3.

Correction for Description of Parametric/Graphic Filters

The original description of the parametric/graphic filters did not mention that the filters are programmable using either Crestron's Digital Audio Tools software or SIMPL Windows, and that the value ranges for certain parameters are different between the two programs. The following text replaces the original material; the blue text is original information included here to help locate the added/corrected text, shown in bold:

Each of the four channels has a twelve-filter parametric equalizer that permits you to correct for acoustical distortions in the listening area or in the speakers themselves, and/or to establish preset values that enhance the sound conditions for favorite music or recording media.

Equalization controls are programmable using Crestron's Digital Audio Tools (DAT) software or SIMPL Windows (SIMPL). Refer to "Programming Software" on page 7 for details.

The 12 filters are identical in function. Each delivers up to 12 dB of boost or cut when using DAT software; from -36 dB to +24 dB in a SIMPL program. Each filter also has an adjustable bandwidth control (from 0.02 octaves to 2 octaves using DAT software; from 0.02 octaves to 3.50 octaves using SIMPL), and a center frequency control range (from 25 Hz to 19.9 kHz from DAT; from 5 Hz to 24 kHz using SIMPL). Use each filter anywhere in the audio spectrum, not just pre-selected ranges as typically found on graphic equalizers. In addition, you can select from among five filter types (low pass, high pass, EQ filter, bass shelf, and treble shelf) or select no filter.

Correction for Specification Table

The original specifications did not include output volume or EQ/graphic filter values. The corrected table follows. Added information is shown in bold.

C2VEQ-4 Specifications

SPECIFICATION	DETAILS
Power Requirements	8.0 Watts
Control System Update Files ^{1,2} 2-Series Control System	Version 3.083.CUZ or later
Input Channels (labeled 1 – 4)	Two 5-pin mini-connectors: two channels plus ground per connector.
Output Channels (labeled 1 – 4)	Two 5-pin mini-connectors: two channels plus ground per connector.
Output Channel Volume	-80 dB to +20 dB
Input channel mixer controls	-80 dB to 0 dB
Mute (per channel)	> -100 dB
Tone (per channel)	Bass gain range ±15 dB Bass step size 0.5 dB Treble gain range ±15 dB Treble step size 0.5 dB
Parametric EQ Filter Gain Filter bandwidth Filter center bandwidth Filter types	±12 dB, 0.1 dB steps (DAT); +24/-236 dB, 0.1 dB (SIMPL) 0.02 to 2.00 octaves (DAT); 0.02 to 3.50 octaves (SIMPL) 25 Hz to 19.9 kHz (DAT); 5Hz to 24 kHz (SIMPL) Low pass, high pass, EQ filter (peaking/notching), bass shelf, and treble shelf
Graphic EQ Filter Gain	+5/-10 dB, 0.1 dB steps (DAT); ±10 dB, 0.1 dB steps (SIMPL)
Frequency response	±0.1 dB 20-22 kHz ±0.5 dB 10 Hz-30 kHz
Total harmonic distortion (THD) + Noise	<0.008% @1 kHz 20 to 22 kHz A-weighted
S/N ratio	>97 dB balanced, >95 dB unbalanced, 20 to 22 kHz A-weighted
Crosstalk	> -90 dB 20 Hz-22 kHz
Common mode rejection	> 90 dB 20 Hz-22 kHz
Input level (max.)	4 V _{rms} balanced, 2 V _{rms} single-ended
Input impedance	10 kΩ balanced, 5 kΩ single ended
Output level	4 V _{rms} balanced, 2 V _{rms} single-ended
Output impedance	200 Ohms balanced, 100 Ohms single-ended
Environmental temperature	32° to 122°F (0° to 50°C)
Humidity	10% to 90% RH (non-condensing)
Dimensions	Height: 0.98 in (2.49 cm) Width: 5.00 in (12.70 cm) Depth: 6.77 in (17.20 cm)
Weight	3.75 oz (0.105 kg)

