PROEL

PC260

2 inputs / 6 outputs digital signal processorwith RTA, SPLM and PRONET remote control

Overview

The PC260 digital loudspeaker controller is based on the CORE DSP platform and feature state-of-the-art signal processing, advanced functions and a very intuitive UI, with a direct access to all the editing functions and remote control capability. The 40bit floating point resolution and the 24bit AD/DA converters ensure a perfect signal integrity with a dynamic range in excess of 110dB, for a superior sonic performance.

The PC260 includes a full set of functions and has 2 inputs (with the choice of AES digital input) and 6 outputs. Each INPUT features 5 bands of full PARAMETRIC EQ (including parametric, shelving, notch, res. HP and LP, allpass and bandpass), 28 bands of GRAPHIC EQ and 3 bands of an extremely versatile and powerful DYNAMIC EQ. A fully programmable COMPRESSOR/ LIMITER and up to 600ms of delay are also available. The OUTPUTS include any kind of crossover filters with slope up to 48dB per octave, together with 5 bands of PEQ, fully programmable COMPRESSOR/LIMITER and up to 600ms of delay. Additional features include a 1/3 oct. RTA with dedicated MIC input with phantom power and a GROUPING function.

The SPL Manager, specifi cally designed for the application in fixed installations, is a very powerful tool that allows to schedule, in 4 different scenes, 16 events on each input and output, including MUTE, level change, COMPRESSOR threshold change and PRESET change. These events can be then performed automatically according to the internal clock of the unit.

PC260 can be remotely controlled with PRONET software through the USB port on the front panel and it can be included in a PRONET network using the two RJ-45 connectors on the rear panel (with the optional USB2CAN converter).

40bit floating point resolution CORE DSP
24bit AD/DA converters

110dB dynamic range
5 bands of full PARAMETRIC EQ on each INPUT and OUTPUT, including peaking, shelving, notch, resonating HP and LP, allpass and bandpass
28 bands of GRAPHIC EQ on each INPUT
3 bands of DYNAMIC EQ on each INPUT
Fully programmable COMPRESSOR/LIMITER on each INPUT and OUTPUT
Up to 600ms delay time on each INPUT and OUTPUT
Full METERING on each INPUT and OUTPUT
RTA with dedicated MIC input
GROUPING function
SPL manager
AES digital input
PRONET remote control thru USB and network capability

Technical Specifications

Input Section

Inputs	2 electronically balanced
Input Impedance	> 10k ohms
Maximum Input Level	+20dBu (-6dB pad)
Input gain	+6 dB to –30 dB in 0.2 dB steps
Input Connector	XLR F - XLR M to link
Digital Input	AES/EBU

Output Section

Outputs	6
Maximum Output Level	+20dBu
Output Gain	+15 dB to –30 dB in 0.2 dB steps and mute
Output Connector	XLR M

Crossover Filters

Slopes	6/12/18/24/48dB per octave
Type	Bessel / Butterworth / Linkwitz-Riley

Delays

Max Delay time	600 ms on all In and Out
Delay Step	21 µs

Parametric EQ filters

Maximum number of filters	5 Per input / 5 per output
EQ Type	Parametric, Notch, Shelf, Bandpass, resonant HP/LP, Allpass
EQ Gain	+15 dB to -15 dB in 0.2 dB steps

Q (bandwidth)	0.4 to 28.85 (3 to 0.05, 1/20 oct. steps)
EQ freq	15.6 Hz – 22.62 kHz (1/20 oct. steps)
Shelving gains	±15 dB in 0.2 dB steps

Dynamic EQ filters

Maximum number of filters	3 per input
EQ Type	Parametric, Shelf 6
EQ Gain	+15 dB to -15 dB in 0.2 dB steps
Q (bandwidth)	0.4 to 28.85 (3 to 0.05, 1/20 oct. steps)
EQ freq	15.6 Hz – 22.62 kHz (1/20 oct. steps)
Shelving gains	±15 dB in 0.2 dB steps

Graphic EQ

Maximum number of EQ.	1 per input
EQ Type	28 band 1/3 oct.
EQ freq	31.5Hz - 16kHz 1/3 oct.
EQ Gain	+15 dB to -15 dB in 0.2 dB steps

Extra Features

RTA range	20Hz-20kHz 1/3oct.
RTA mic input	15V phantom power
SPLM	4 scene /16 events for each scene

Process \ Conversion

AD/DA conversion	24 bit
AD/DA latency	1.68 ms (analogue in – analogue out @ 48 kHz)
Sampling frequency	48 KHz
Internal porcessing	40 bit floating point

General Performance (filters out)

Frequency response	+½ dB 20 Hz⊠20 kHz
Dynamic range	>110 dB 20 Hz⊠20 kHz unwtd
Distortion (THD)	< 0.015% @ 1kHz, +18dBu
Display	192x32 LCD Graphic Display
Input metering LED	2 x 4 LED
Output Metering LED	6 x 4 LED
Remote control	USB, RJ45 PRONET In/Out

General

Dimensions	44 x 482 x 295 mm
Weight	4.1 kg (9 lb)
AC Power	80 to 250V ±15% @ 50/60 Hz

Related Products

USB2CAN