

DESCRIPTION

The DP-K1 is a 3U rack mountable Digital Audio Processor. It features an Automatic Resonance Control function that automatically generates an optimum filter curve to improve sound clarity after measuring the acoustic characteristics in architectural space. It permits flexible configuration of inputs and outputs, from 2-IN/4-OUT to 8-IN/8-OUT using the optional modules. Each function is set by a PC using the dedicated software. The settings can be stored in the unit's internal memory and the stored preset memories can be recalled from the unit without connecting the PC.

SPECIFICATIONS

Power Source	100 - 120 V AC, 50/60 Hz
Power Consumption	40 W (750 mA)
Frequency Response	20 Hz - 20 kHz, ± 1 dB (+4 dB* input)
Input	Max. 8 channels, modular construction (modules optional)
Output	Max. 8 channels, modular construction (modules optional)
IO Configuration	2-IN/4-OUT, 2-IN/8-OUT, 4-IN/4-OUT, 4-IN/8-OUT, 6-IN/4-OUT, 6-IN/8-OUT, 8-IN/4-OUT, 8-IN/8-OUT
Signal Processing	
Automatic Resonance Control Function	Parametric equalizer: 20 Hz - 20 kHz, ± 12 dB, Q: 0.267 - 69.249
Level Control	- infinity to +12 dB (0.5 dB steps), with polarity selector
Equalizer/Filter	Parametric equalizer: 20 Hz - 20 kHz, ± 12 dB, Q: 0.267 - 69.249 Filtering: High-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct Low-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct Notch filter 20 Hz - 20 kHz, Q: 8.651 - 69.249 All-pass filter 20 Hz - 20 kHz, Q: 0.267 - 69.249 High shelving filter 6 - 20 kHz, ± 12 dB Low shelving filter 20 - 500 Hz, ± 12 dB Horn equalizer 20 kHz, 0 to +18 dB (0.5 dB steps) Crossover filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct, 18 dB/oct, 24 dB/oct
Compressor	Threshold: -16 to +24 dB* (1 dB steps) Ratio: 1:1, 2:1, 3:1, 4:1, 8:1, 12:1, 20:1, infinity :1 Attack time: 0.02 - 100 ms Release time: 10 ms - 5 s
Noise gate	Threshold: - infinity to -26 dB* (1 dB steps) Attack time: 0.1 - 100 ms Release time: 20 ms - 5 s
Delay	Delay time: 0 - 682.0 ms (0.021 ms steps)
Matrix	8 \times 8 Level control: - infinity to 0 dB (1 dB steps), with polarity selector
Preset Memory	8
Auxiliary Function	Key lock function
Setting Software	OS: Windows 7 (32/64-bit edition) Windows 10 (32/64bit edition) Control system: 10 BASE - T/100 BASE-TX, Auto-Negotiation, RJ45 connector
Front Panel Section	Preset memory recall knob: 1 Input indicator: Green LED Output indicator: Green LED
Module Slot (Rear Panel)	Input module slot: 4 Output module slot: 2 Remote control module slot: 1
Operating Temperature	+5 °C to +40 °C
Finish	Panel: Aluminum, hair-line finish, black Others: Pre-coated steel plate, black, 30 % gloss
Dimensions	482.6 (W) \times 132.6 (H) \times 320 (D) mm (excluding projection)
Weight	7.4 kg
Accessory	Power cord (2 m)1, Rack mounting bracket (preinstalled on the unit)2, Rack mounting screw 4, Blank panel (preinstalled on the unit)8, Module mounting screw (spare)4,
Option	Mic/Line input module: D-921E, D-921F, D-922E, D-922F Stereo input module: D-936R Digital input module: D-923AE Line output module: D-971E, D-971M, D-971R Digital output module: D-972AE Remote control module: D-981, D-983

* When installing the unit, never block the intake vents provided in the unit's bottom near the rear.

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