

Karaoke Professional Digital Audio Processor



Features:

- Professional Karaoke, stage, power amplifier, audio reverboration effector
- Karaoke effector with the function of speaker processor independently adjustable for each part of
- Auto 28K DataBus and 328K DSP
- MUSIC of 7 band parametric EQ, Music-main output high pass filter: 12dB/24dB(0Hz-203Hz)
- Main output of 5 band parametric EQ, There is a compression limiter.
- Center output, Ultra-low sound output and the rear output (X2 does not have this output) all have three 3 band of parametric EQ.
- Microphone has four feedback suppression modes: OFF, 1, 2, 3.
- Mode memory capacity is up to 10 modes.
- Main output, Ultra-low output and Rear output (X2 does not have this output) all have compression limit and delay function.
- Administrator mode and User mode(nonsupport adjustable parameter storage)
- PC interface, full-function menu.
- Main output (Mode: Singing/Dancing (automatic/manual), including all parameters except compression limit, delay and mute)

TECHNIQUE INDEX

Model	X5
Frequency Response	20Hz-20kHz
Input Pass Filter	12dB/24dB(0Hz-203Hz)
Microphone	4 microphone FBE modes: OFF, 1, 2, 3 15 band parametric EQ 0Hz-1000Hz, 1Hz
Echo	Lowpass filter 3 band 0 - 800ms 0 - 100%
PreDelay of echo right channel	0 - 100ms (relative to left channel echo delay time)
PreDelay of echo left channel	0 - 100ms (relative to left channel echo delay time)
Total preDelay of echo	0 - 100ms (relative to left channel echo delay time)
Echo repetition	Lowpass filter Adjustable range 0 - 100% 0Hz-2000 Hz
Reverboration	High pass filter Adjustable range 0 - 200% 0Hz-1000Hz
Music level	0 - 200%
Direct source level	0 - 200%
Reverboration level	0 - 200%
High pass filter	0Hz-203Hz
Delay	0 - 50ms
Mute function	UP: 20ms sound output Mute, including balancing and compression limit, delay and mute DOWN: 20ms sound output Mute, including balancing and compression limit, delay and mute
Music level	0 - 400%
MFC direct source level	0 - 200% 0Hz-203 Hz
Top-pass filter	12dB/24dB/48dB/96dB/192dB Butterworth 24dB Link
Lowpass filter	12dB/24dB/48dB/96dB/192dB Butterworth 24dB Link
Delay	0 - 50ms
Left/right channel mute	independently adjustable
System	Two music input ports
Music input gain	1/2
Reverboration	10dB/20dB/40dB (user mode is not adjustable)

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3 Input, 6 Output Digital Speaker Processor



Features:

- 3 Input/6 output interfaces (input allocable to any of the output)
- Slope: 12 dB/Oct, 18 dB/Oct, 24 dB/Oct
- 48dB/Oct / 682 ms of input delay, 21 ms of output delay
- Linkwitz-Riley filter, Bessel filter and Butterworth filter
- Parametric equalizer, full bandwidth (1/64 to 4 octave)
- Each output is with an intuitive user interfaces of limiter
- Programmable RS232 on the front panel
- 10Hz sampling frequency
- Balanced input and output XLR speaker interface
- PC control software included

TECHNIQUE INDEX

Model	3-6SP
Frequency Response	20Hz-20kHz, ±0.2dB
Dynamic range	682ms on inputs, 682ms on outputs
Maximum delay	±0dB to +12dB
Output gain adjustment	each input of 6 band, each output of 4 band
Parametric equalizer	each input of 6 band, each output of 4 band
Crossover filter	12, 18, 24, or 48dB per octave
Limiter threshold	±20dB
Maximum output level	18 kV
Input impedance	100Ω
Output impedance	100Ω
Power requirements	90W/240 V AC
Dimensions (WxHxD)	483x444x203mm
Net Weight	4.05kg

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4 Input, 8 Output Digital Speaker Processor



Features:

- 4 Input/8 output interfaces (input allocable to any of the output)
- Slope: 12 dB/Oct, 18 dB/Oct, 24 dB/Oct
- 48dB/Oct / 682 ms of input delay, 21 ms of output delay
- Linkwitz-Riley filter, Bessel filter and Butterworth filter
- Parametric equalizer, full bandwidth (1/64 to 4 octave)
- Each output is with an intuitive user interfaces of limiter
- Programmable RS232 on the front panel
- 10Hz sampling frequency
- Balanced input and output XLR speaker interface
- PC control software included

TECHNIQUE INDEX

Model	4-8SP
Frequency Response	20Hz-20kHz, ±0.2dB
Dynamic range	>110
Output gain adjustment	±0dB to +12dB
Parametric equalizer	each input of 6 band, each output of 4 band
Input G/L/O	Yes
Limiter threshold	±20dB, or ±6dB per octave
Maximum output level	±20dB
Input impedance	18 kΩ
Output impedance	100Ω
Power requirements	100W/240 V AC
Dimensions (WxHxD)	483x444x203mm
Net Weight	4.65kg

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