

# DSP88

## Matrix Processor

VAL audio

Die Liebe zur Musik



### KEY FEATURES

- 8 input 8 output DSP Matrix Processor
- High-performance 400 MHz floating-point DSP processor, dual-core 1.2G main processor
- Linux platform, ultra-low noise circuitry, low-distortion analog circuitry
- Using ELNA capacitors, selected audio-specific devices, to minimize the impact of sound coloring
- Minimum fixed delay of the device is <2ms
- Built-in signal generator - sine wave signal, Pink noise, White noise
- Parametric equalizer type: PEQ/Lo-Shelf/Hi-Shelf
- High and low pass filters: Bessel/Butterworth/Link-Riley slopes selectable from 6~48dB/Oct
- Output adjustable delay time up to 300ms, accuracy 0;01ms
- All input channels support MIC inputs, 48V phantom power, support 8-channels gain-sharing auto mixing
- Input channels: Noise gate, compressor, 8-band PEQ, high-pass filter, low-pass filter
- Output channels: 8-band PEQ, high & low-pass filters, limiter, delay (300ms)
- Support remote AEC echo cancellation
- 2 independent USB interfaces on the front and rear panels for USB recording and playback operations
- Camera tracking code output, easy to realize the camera linkage function through third-party central control
- Ethernet + RS232/485 control interface, open TCP / IP and serial protocols to achieve third-party control. Support 32 groups presets, flexible storage or recall
- Wall touch control panel: Through RS485 interface, external maximum 16 pcs wall panels to realize mute, volume level adjustment

### VAL AUDIO CONTROL SOFTWARE



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### SPECIFICATIONS

Input / Output	8 in x 8 out
Sampling Rate	48kHz, 24 bit ADC & DAC
Dynamic Range	>110dB
THD + Noise	<0.004% @4dBu 20Hz~20kHz
Frequency Response	20Hz - 20kHz, $\pm 0,5$ dB @0dBu
CMRR	>80dB @ 1 kHz MIC Gain 20dBu
Crosstalk	100dB $\pm 5$ dB @ 0dBu 1Khz
Input channels	Noise gate, compressor, 8-band PEQ, high-pass filter, low-pass filter
Output channels	8-band PEQ, high & low-pass filters, limiter, delay (300ms)
Max input level	+18dBu
Default input and output level	+0dBu
MIC preamp gain	0–40dB Analog Gain, 12dB Digital Gain
Input Impedance	>5 k $\Omega$ balance, >3k $\Omega$ unbalance
Output Impedance	600 $\Omega$
Preamplifier equivalent input noise (EIN)	<-125dBu, 22Hz - 22kHz
Output floor noise	-100dBu (A-Weighted) 1U
Power supply	100 ~ 240V, 50/60 Hz, 55W
Dimension (WxDxH)	485mm x 210mm x 45mm
Net Weight	3 Kg