

DSP1616

Matrix Processor

VAL audio

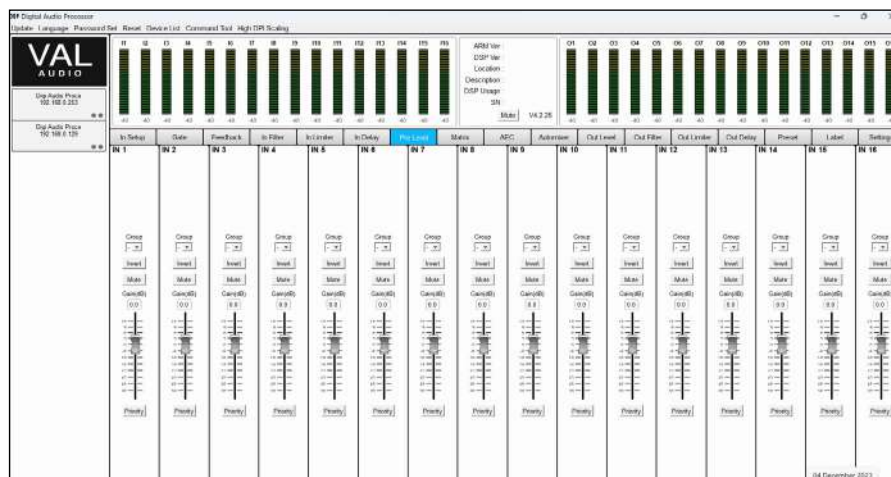
Die Liebe zur Musik



KEY FEATURES

- 16 input 16 output DSP Matrix Processor
- 4th Generation ADSP-21489 Processor 400MHz 32/40-bit floating-point DSP with 48KHz sampling rate
- ELNA electrolytic capacitors and world-famous audio dedicated devices to deliver a warm sound
- Built-in sine, white noise, noise-splitting signal generator to use as test signal
- Each input switchable between line or microphone input, Mic input with 48V phantom power
- Auto-mixer, AEC, Gate, Feedback Suppressor function available
- Input and Output Filters - 16 PEQ on each individual input and output + HPF/LPF filter
- Input and Output Delay up to 1000ms
- Input and Output limiters per channel
- LCD display and LED signal and status
- VAL control software for control automatically search for online devices, 23 groups of Presets could be imported and exported flexibly
- Channels link and channels copy function to improve the engineers efficiency
- Full port RF protection to protect the safe and reliable operation of the equipment
- Ethernet + USB + RS232 + RS485 and GPIO port, open protocol for third-party control

VAL AUDIO CONTROL SOFTWARE



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SPECIFICATIONS

Input / Output	16 in x 16 out
Sampling Rate	48kHz, 24 bit ADC & DAC
Dynamic Range	>110dB
THD + Noise	<0.004% @4dBu 20Hz~20kHz
Frequency Response	20Hz - 20kHz, ± 0.5 dB @0dBu
CMRR	>80dB @ 1 kHz MIC Gain 20dBu
Crosstalk	100dB ± 5 dB @ 0dBu 1Khz
Max input level	+18dBu
Default input and output level	+0dBu
MIC preamp gain	0–40dB Analog Gain, 12dB Digital Gain
Input Impedance	>5 k Ω balance, >3k Ω unbalance
Output Impedance	600 Ω
Preamplifier equivalent input noise (EIN)	<-125dBu, 22Hz - 22kHz
Input signal processing	Volume, Phase, Mute, Noise Gate, Feedback Suppressor, Parameter Equalization, Dynamic Equalization, Crossover, Compressor, Delay, Auto-mixer function
Output signal processing	Matrix Mixer, Volume, Phase, Mute, Crossover, Compressor, Limiter and Delay
Output floor noise	-100dBu (A-Weighted) 1U
Power supply	100 ~ 240V, 50/60 Hz, 55W
Dimension (WxDxH)	485 mm x 210mm x 45mm
Net Weight	3 Kg