

Model List

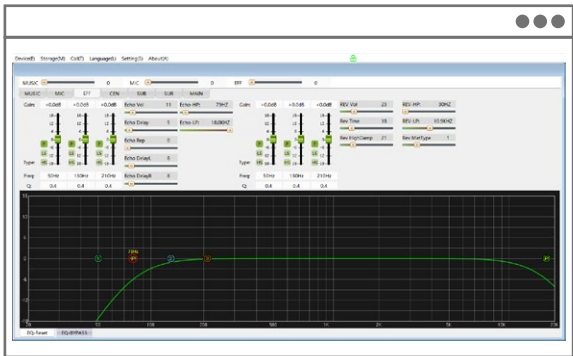
- DSP 01 | Digital Effect Processor

Product Introduction

The DSP 01 is a cutting-edge audio processor equipped with an ADI 28-/56-bit DSP algorithm chip, providing a 192K sampling rate and supporting 5.1 channel audio (main stereo, subwoofer, center, and rear stereo). The front panel features a 2.0-inch TFT color screen with dual-language support (English and Chinese), allowing users to visualize volume parameters, microphone inputs, and music levels. This device offers 8 built-in factory effect modes, with customization options to suit specific needs. Its advanced audio decoding chip supports USB playback, optical and coaxial input, and Bluetooth 5.1 protocol, delivering high-quality, low-latency Hi-Res audio processing. Additionally, the DSP 01 includes professional reverb echo algorithms compatible with various microphones, ensuring high vocal resolution and low distortion. The device also features feedback suppression, noise gate, power on/off protection, and panel lock functions.

Key Features

- ADI 28-/56-bit DSP algorithm chip with 192K sampling rate for audio processing.
- 5.1 channel support including main stereo, subwoofer, center, and rear stereo outputs.
- 2.0-inch TFT color screen with bilingual menu for parameter adjustments and status.
- Multiple inputs: 4 microphone channels, DVD (RCA), BGM (RCA), optical, and coaxial.
- Integrated Bluetooth 5.1 and USB playback support for digital audio sources.
- Features feedback suppression, noise gate, and power on/off protection for system safety.
- Parameter adjustments include PEQ, HPF, LPF, and phase control with $\pm 18\text{dB}$ EQ gain.
- Signal-to-noise ratio of 98dB with total harmonic distortion under 0.08%.
- Standard rack-mountable design with dimensions of 485 x 230 x 44.5 mm.
- 4.4 kg weight with 220V power supply and 10 watts power consumption.



Software Included



DSP 01

Technical Specification

DSP 01

Input Channels	2 x Mic (Front TRS); 2 x Mic (Rear, XLR); DVD (RCA); BGM, (RCA)
Input Impedance (Balanced/Unbalanced)	Bal: 20k Ω / Unbal: 10k Ω
Max Microphone Input Level	200mVrms / Peak 70mVrms
Max RCA Input Level	1.7Vrms / Peak 450mVrms
Output Channels	Main L, Main R, Center, Surround L, Surround R
Output Impedance (Balanced/Unbalanced)	Bal: 100 Ω / Unbal: 50 Ω
Max Output Level	2.5Vrms
DSP Algorithm Chip	ADI 28-/56-bit
Sampling Rate	192K
Supported Channels	5.1 (main stereo, subwoofer, center, rear stereo)
Parameter Adjustments	PEQ, HPF, LPF, Phase
Display	2.0-inch TFT color screen, English and Chinese
Built-in Effect Modes	8 factory modes, customizable
Audio Decoding Chip	Supports USB playback, optical, coaxial input, Bluetooth 5.1
Feedback Suppression	Yes
Noise Gate	Yes
Power On/Off Protection	Yes
Panel Lock	Yes
Frequency Response	20Hz-20kHz @ +4dBu: +0/-0.3dB
Total Harmonic Distortion	<0.08% (20Hz-20kHz @ +4dBu)
Signal-to-Noise Ratio	98dB @ +4dBu A-weighted
Noise Level	90 μ V
Channel Separation	<-101dB @ +4dBu
EQ Gain Range	$\pm$ 18dB
Power Consumption	220V - 10 watts
Dimension (W x D x H)	485 x 230 x 44.5 mm
Weight	4.4 kg