



DESCRIPTION

DS-44DAP Digital audio processor is a cutting-edge digital audio processor designed for broadcast, live sound, and professional audio applications. Engineered with precision, this advanced processor delivers superior audio quality, real-time processing, and network control, making it an essential tool for audio engineers and system integrators.

FEATURES

- **High-Resolution Audio Processing:** 32-bit DSP processing for ultra-clear and precise audio signal handling.
- **Advanced DSP Effects & Processing:** Parametric EQ with up to 10 bands per channel dynamic range control with multi-band compression and expansion.
- **Multi-Channel Support & Routing:** 4-in / 4-out digital audio architecture for flexible routing and mixing.
- **Low-Latency Performance:** Proprietary ultra-low latency (<1ms) processing engine for real-time applications asynchronous Sample Rate Conversion (ASRC) for seamless digital audio integration.
- **Professional Connectivity & Integration:** AES/EBU, S/PDIF, and ADAT digital I/O options USB and ethernet interfaces for remote control and firmware updates.
- **User-Friendly Interface & Control:** 5" high-resolution touchscreen with an intuitive UI for quick parameter adjustments and remote software control via PC/Mac applications and mobile apps.
- **Robust Build for Pro Audio Environments:** 1U rackmount chassis for touring and studio installations High quality components ensuring long-term reliability.



SPECIFICATIONS

Input / Output Interfaces	4 Input x 4 Output
Sampling rate	48k@24bit
Preamplification	51dB (3dB per file, 17 files in total)
Phantom Power	48V
Frequency Response	20Hz ~ 20K Hz, ± 0.3 dB
THD + N	$\leq 0.005\%$ @1k, 4dBu
Digital-Analog Dynamic Range	114dB
Analog-Digital Dynamic Range	120dB
Input Impedance (Balanced)	20k Ω
Output Impedance (Balanced)	100 Ω
EIN (A-weighting)	≤ -125 dBu
Channel Isolation	100dB @1k Hz, 4dBu
Common Mode Rejection	70dB @80 Hz
Maximum Input Level	18dBu
Maximum Output Level	18dBu
Background Noise	-90dBu
System Delay	≤ 9 ms
Working Power	AC110V-220V, 50Hz/60Hz
Working Temperature	0-40°C
Chassis Size (WxDxH)	482x258x45(mm)

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