

# DP409

## FIR DSP Speaker Processor



### Description

DP409 is a 4-in 8-out FIR DSP speaker processor, integrated with high performance DSP process, Dynamic EQ, FIR automatic linear phase and other powerful function. Standard FIR Designer in Mconsole provides automatic linear magnitude and phase function, user can take an easy way to set their speakers parameters.

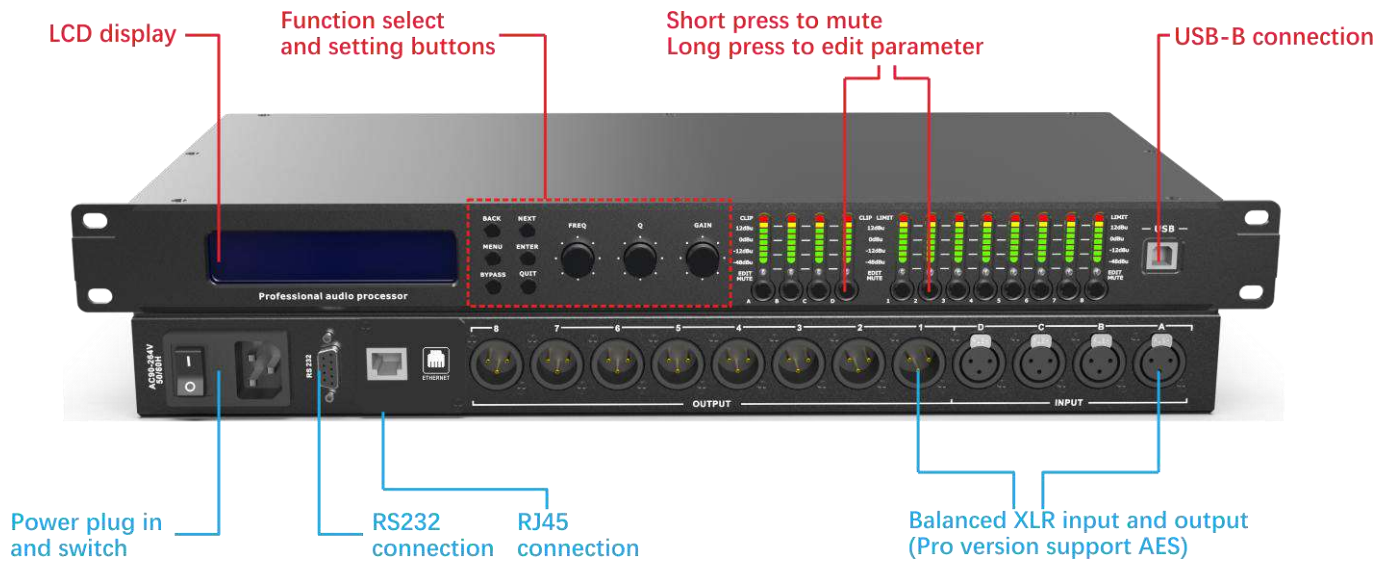
With RJ45\USB and RS232 connectors, PC software Mconsole provides user a easy way to control multiple devices. RS232 connectors support device being controlled from third-party system.

### Features

- 4 analog inputs and 8 analog outputs.
- High performance DSP process, 96k24bit sampling rate.
- Input with 15 bands PEQ, output with 10 bands PEQ.
- Support HPF and LPF with Butterworth\Bessel\Linkwitz-Riley. Support LSLV and HSLV, ALL-PASS filters.
- Input with 3 bands Dynamic EQ.
- Input with 4 x 1024Taps 48k FIR linear phase setting.
- Output with 4 x 256Taps 48k FIR linear phase setting.
- Standard FIR Designer automatic linear phase function .
- Support presets archiving and locking, hide setting parameters.
- Control connections: USB or TCP/IP. Configured with RS232 central control connection.
- Nice GUI windows7/8/10/11 software
- LED indicator for input and output signal.
- High analytical power, wide dynamic audio performance, suitable for stage, bar and other high-end sound systems.

| Model                                      | DP409  |
|--|--|
| <b>1. DSP Process</b>                      |  |
| Process                                    | ADI SHARC 21489 450MHz                             |
| System delay                               | 1.8ms  |
| AD/DA                                      | 24-bit 96KHz                                       |
| <b>2. Analog Audio Inputs and Outputs</b>  |  |
| Input                                      | 4 channels balanced.                               |
| Input interface                            | XLR (Neutrik®)                                     |
| Input impedance                            | 20KΩ   |
| Max input level                            | 18dBu/Line   |
| Output                                     | 8 channels balanced. Line level                    |
| Output interface                           | XLR (Neutrik®)                                     |
| Output impedance                           | 50Ω  |
| <b>3. Audio Performance Specifications</b> |  |
| Frequency response                         | 20Hz-20kHz(+/-0.5dB)/Line                          |
| THD+N                                      | -90dB(@0dBu,1kHz,A-wt)/Line                        |
| Ground noise                               | 20Hz-20kHz, A-wt, -92dBu                           |
| SNR  | 110dB(@18dBu,1kHz,A-wt)/Line                       |
| <b>4. Connect Ports and Indicators</b>     |  |
| USB  | Type A-B, free driver                              |
| RS232                                      | Serial port communication                          |
| TCP/IP interface                           | RJ-45  |
| Indicator light                            | Colourful led lighting for clip, level, edit, mute |
| <b>5. Electrical and Physical</b>          |  |
| Supply                                     | AC90V ~ 264V 50/60 Hz                              |
| Products Dimensions                        | 483mmx215mmx44.5mm                                 |
| Packaged Dimensions                        | 537mmx343mmx77mm                                   |
| Net Weight                                 | 3.2kg  |
| Packaged Weight                            | 4.2kg  |
| Operating temperature                      | -20°C ~ 80°C                                       |

# Front / Rear Panel



## Machine Dimension Drawings

