D6576

Professional Feedback Suppressor



Description

The product is a high-quality professional feedback suppressor (adaptive feedback notch processing) equipped with 2 (balanced) analog inputs and 2 (balanced) analog outputs. The product has built-in DSP functions such as adaptive notch filter, frequency shifting for feedback suppression, noise gate, compressor, analog gain control, mute, 48V phantom power, bypass pass-through, etc. The device can be controlled via RJ45 driver-free connection to a computer web page, making it suitable for use in various occasions.

Features

- 2 line/microphone inputs, 2 line/microphone outputs.
- Built-in high-performance, high-speed floating-point digital signal processor (DSP), featuring adaptive feedback notch processing algorithms and frequency-shifting technology for feedback suppression.
- The front panel features 4 × 7-segment real-time level indicators for precise monitoring of input and output signal levels, along with a 48V phantom power indicator.
- The panel has quick buttons for channel mute, bypass and filter reset.
- Each input has 41 adaptive notch filters, and the number of dynamic/fixed filters can be configured as needed.
- TCP/IP control protocol, connect to PC to control and adjust various detailed parameters on the web page.
- Supports multi-level analog volume adjustment (0dB ~ +42dB).

Specifications

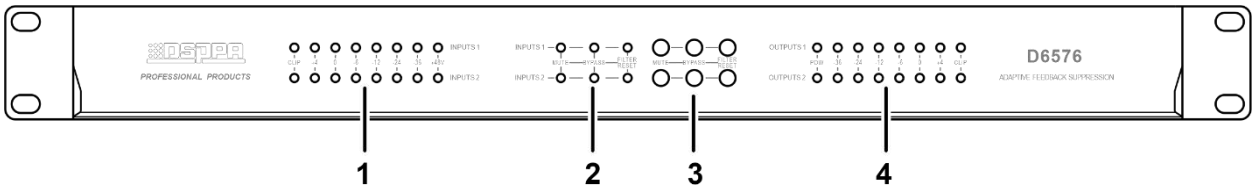
Model	D6576
Digital Signal Processing	
DSP Chip	40-bit floating-point SHARC DSP, 400 MHz
D/A Conversion	24-bit
Sampling Rate	48 kHz
Analog Audio Input & Output	
Input Channels	2 balanced inputs
Audio Connectors	XLR balanced input/output; 6.35 mm TRS balanced input/output

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Input Impedance	3 kΩ
Maximum Input Level (1% THD)	20 dBu
Maximum Output Level (1% THD)	20 dBu
Output Channels	2 balanced outputs
Output Impedance	100 Ω
Audio Performance	
Frequency Response	20 Hz–20 kHz(±1 dB)
THD+N (@ 1 kHz, 0 dBV)	＜ 0.004%
Signal-to-Noise Ratio (20 dBu)	117 dB (A-weighted)
Connectivity	
TCP/IP Network Port	RJ-45
RS232	3-pin pluggable terminal block
RS485	3-pin pluggable terminal block
Electrical & Physical Specifications	
Power Supply	AC 100V–240V, 50/60 Hz
Power Consumption	≤10 W
Product Dimensions	432.5 × 186 × 44 mm
Product Weight	2.35 kg
Operating Temperature	−20°C to +50°C

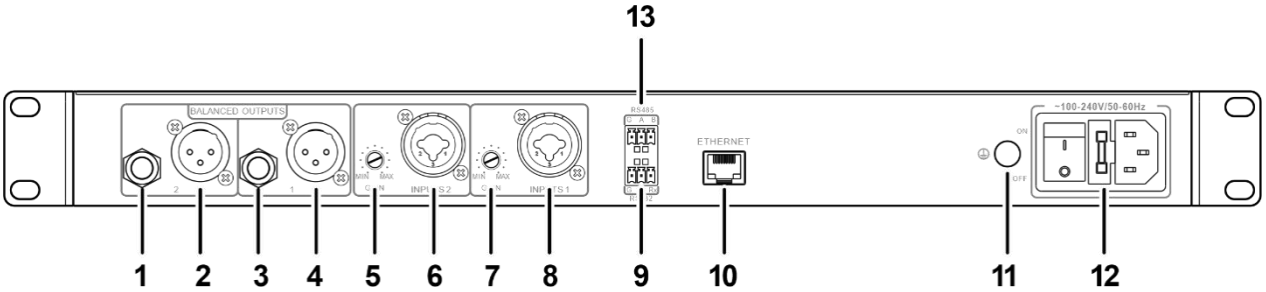
Front / Rear Panel

Front Panel



1. Input 1 and Input 2 Level Indicators.
2. Input 1 and Input 2 Mute, Bypass, and Filter Reset Indicators.
3. Input 1 and Input 2 Mute, Bypass, and Filter Reset Buttons.
4. Output 1 and Output 2 Level Indicator.

Rear Panel



1. Balanced Output 2, 6.3 mm Audio Jack.
2. Balanced Output 2, XLR Audio Connector.
3. Balanced Output 1, 6.3mm Audio Jack.
4. Balanced Output 1, XLR Audio Connector.

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5. Input 2, Gain Control Knob.
6. Input 2, XLR Audio Connector.
7. Input 1, Gain Control Knob.
8. Input 1 XLR Audio Connector.
9. RS232 Control Port.
10. Network Port.
11. Grounding Terminal.
12. Power Switch and AC Power Socket.
13. RS485 Control Port.

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