DP1610

16-In 10-Out Conference Host

Description

This device is a 16-in 10-out conference host with 4 wireless microphone inputs, 2 Bluetooth inputs, 2 microphone inputs, 2 LINE inputs, 2 RCA inputs, 2 USB sound card inputs, 2 network audio inputs (optional), 4 LINE outputs, 2 network audio outputs (optional), 2 USB sound card outputs, and 2 amplifier outputs. It features a variety of built-in DSP functions such as feedback suppression, AI noise reduction ANC (Active Noise Control), AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), automatic mixing, matrix mixing, equalizer, crossover, delay, compressor, and limiter. It is controlled by the software via USB drive-free connection to a computer, and connected to the central control via RS232, RS485, and TCP/IP for remote control. It is suitable for a wide range of applications for sound reinforcement engineering, such as meeting rooms, medium and large-sized conference rooms, public security organs, procuratorate, and courts, auditoriums, and multi-function halls.

Features

- With 4 wireless microphone inputs, 2 Bluetooth inputs, 2 microphone inputs, 2 LINE inputs, 2 RCA inputs, 2 USB sound card inputs, 2 network audio inputs, 4 LINE outputs, 2 network audio outputs, 2 USB sound card outputs, and 2 amplifier outputs, with a maximum undistorted input and output of 17dBu (5.48Vrms).
- With 48V phantom power for input channels CH1 and CH2.
- With microphone amplifier for input channels CH1 and CH2, with gain adjustable from 0~40dB in 1dB steps.
- With stereo USB sound card function for playback and recording.
- With USB port for computer software control and USB sound card transfer function.
- With RS232 and RS485 serial ports for computer software control and central control function.
- With network interface for computer software control and central control function, managing multiple devices simultaneously through network connection.
- With a color LCD screen, allowing you to configure a range of functions such as device name, device presets, device IP, input volume, output volume, and Bluetooth connection, and to check the device version.
- With a variety of DSP functions, such as ANC (Active Noise Cancellation), AFC (Adaptive Feedback Cancellation), AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), AUTO MIX (Automatic Mixing), MATRIX MIX (Matrix Mixing), Noise Gate, PEQ (Parametric Equalizer), Delay, FIR Filter, High and
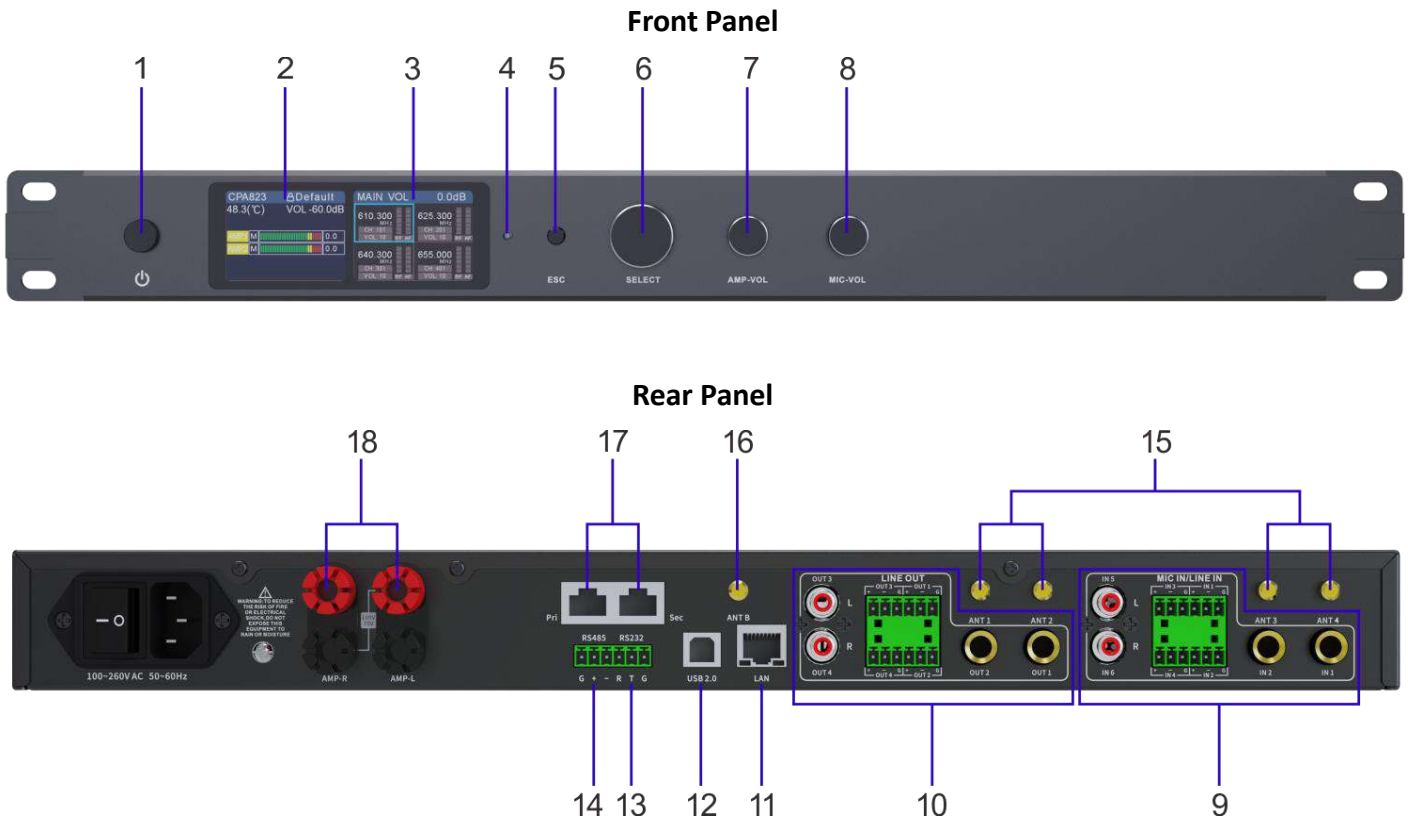
Low Pass Crossover, Compressor, and Limiter.
- With 8-band PEQ for the input and 8-band PEQ for the output.
- With 2000ms delay per input channel and 2000ms delay per output channel.
- With voice activation function (camera tracking) per input channel, support camera control with PELCO-D, PELCO-P, and VISCA protocols.
- Support one-key switching between free matrix and bridge mode.
- With 60 preset memory positions.
- Support archive locking and hiding of setting parameters to ensure the technical security of the project.

Specifications

Model		DP1610
General	Input Interface	6.35 (TRS) interface*2; 3.81mm phoenix input*4; RCA interface*2
	Output Interface	6.35 (TRS) interface*2; 3.81mm phoenix input*4; RCA interface*2
	Amplifier Output Interface	Banana plug connector*2, 2 channels, 2*300W 8Ω, 2*450W 4Ω, bridged 1*900W 8Ω
Power Supply	Power Supply	Universal power supply
	Operating Voltage	100V-240V~50/60Hz 7.5A
Audio	6.35(TRS) Input	Balanced input with a maximum input level of 17dBu/5.484V
	Phoenix Terminal Input	Balanced input with a maximum input level of 17dBu/5.484V
	RCA Input	Single-ended input with a maximum input level of 17dBu/5.484V
	6.35(TRS) Output	Balanced input with a maximum input level of 17dBu/5.484V
	Phoenix Terminal Output	Balanced input with a maximum input level of 17dBu/5.484V
	RCA Output	Single-ended input with a maximum input level of 17dBu/5.484V
DSP Input	Gain	Adjustable from -60~+15dB per channel
	Level Display	Level display per channel
	Feedback Suppression	Feedback suppression per channel
	Input PEQ	8-band PEQ per channel
	Noise Gate	Noise gate per channel
	Input Delay	Adjustable from 0~2000ms per channel
	Automatic Mixing	16-input 10-output bus type automatic mixing
	Matrix Mixing	16-input 10-output matrix mixing
DSP Output	Gain	Adjustable from -60~+15dB per channel
	Level Display	Level display per channel
	Output PEQ	8-band PEQ per channel
	Output Delay	Adjustable from 0~2000ms per channel
	Output Compressor	Compressor per channel
	Output Limiter	Limiter per channel
Structure	Dimensions	W: 490mm, H: 46mm, D: 380mm

	Weight	Gross weight: 9kg; net weight: 7.4kg
Logistics	Gross Weight (1 pc)	9kg

Front / Rear Panel

Front Panel

Rear Panel

1. Power switch.
2. Display screen 1 for amplifier information status and Bluetooth pairing.
3. Display screen 2 for wireless microphone status display and pairing.
4. Infrared transmitter tube for wireless frequency pairing.
5. Back button.
6. Edit button.
7. Amplifier master volume button.
8. Wireless microphone master volume button.
9. MIC/LINE input interfaces CH1-CH6, among which CH1 and CH2 support 48V phantom power and microphone amplifier, which can be configured on the software. CH1 and CH2 have two types of interfaces, the Phoenix terminal interface and the 6.35 (TRS) interface. CH1 to CH4 are balanced inputs with a maximum input level of 17dBu/5.484V. CH5 and CH6 are single-ended inputs with a maximum input level of 17dBu/5.484V.
10. LINE output interfaces CH1-CH4. CH1 and CH2 have Phoenix terminal interface and 6.35 (TRS) interface respectively, and CH3 and CH4 have Phoenix terminal interface and RCA interface respectively. The Phoenix terminal interface and 6.35 (TRS) interface are balanced outputs with a maximum output level of 17dBu/5.484V, and the RCA interface is a single-ended output with a maximum output level of 17dBu/5.484V.
11. Device control network port for PC connection and control.
12. USB2.0 interface for USB sound card and PC software connection.

13. RS232 port for central control and PC software connection.
14. RS485 port for central control and PC software connection.
15. Wireless microphone antenna.
16. Bluetooth antenna.
17. Network audio, dual network port for switch function, allowing for hand-in-hand connection for devices.
18. 2 amplifier output interfaces.

Machine Dimension Drawings