

D2030 D2045 D2060 D2080 D2100 D2130 D2160

300W 450W 600W 800W 1000W 1300W 1600W 2-Channel Stereo

Conference Mixer Amplifier



Rear Panel for D2030 D2045 D2060 D2080 D2100



Rear Panel for D2130 D2160

Description

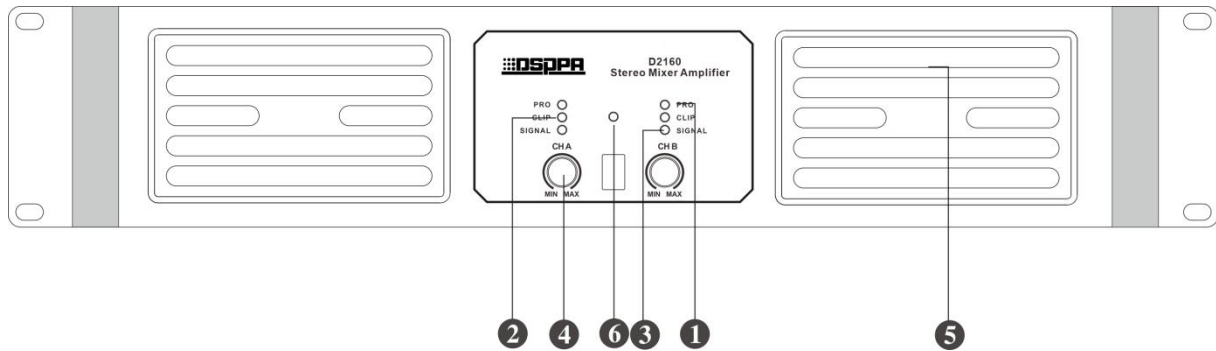
This series of two-channel professional power amplifiers offers a wide power range from 300W to 1600W, featuring a highly reliable amplifier circuit and a robust power supply design. Supporting stereo and parallel operating modes, the series delivers excellent dynamic performance, precise sound control, and stable output, making it ideal for conference systems, fixed installations, commercial sound reinforcement, and small to medium-sized live sound applications.

Features

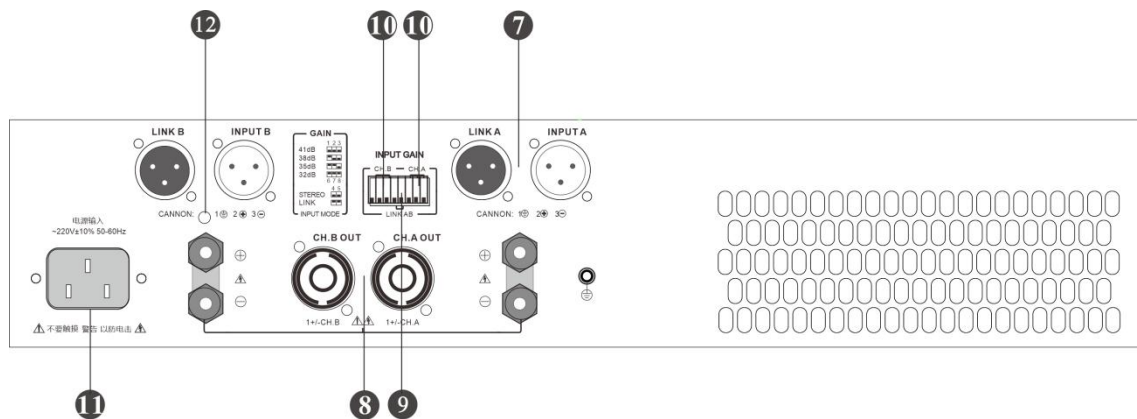
- Professional stereo conference amplifier.
- Dual-channel independent output with stereo and parallel modes.
- Selectable input gain options for compatibility with various signal sources.
- Built-in noise gate to suppress background noise.
- Comprehensive protection against thermal overload, overcurrent, short circuit, and power-on/off transients.
- High damping factor ensures tight and accurate low-frequency control.
- Professional XLR balanced inputs and Speakon speaker outputs.

Specifications

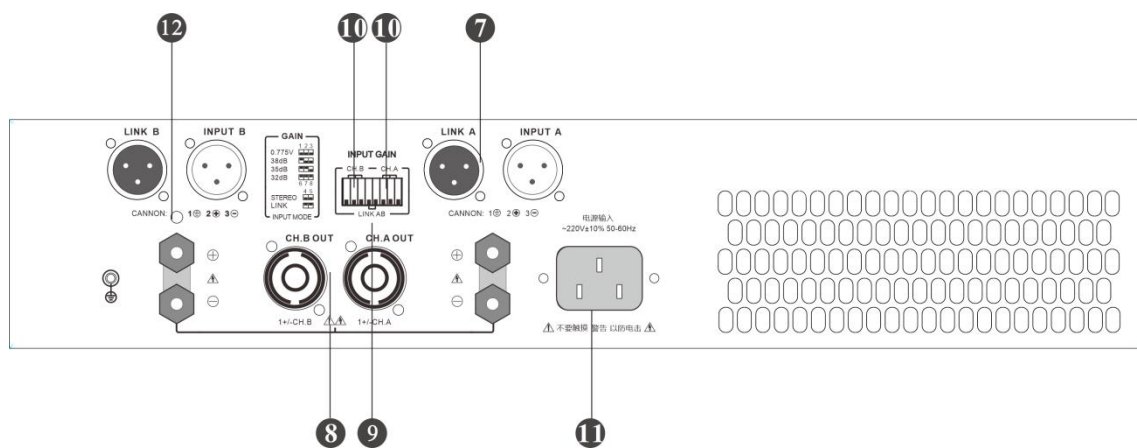
Model		D2030	D2045	D2060	D2080	D2100	D2130	D2160
Power Specifications								
EIA AC220V Output Power 1kHz Max. THD 1% Test Mono	8Ω	300W	450W	600W	800W	1000W	1300W	1600W
	4Ω	400W	600W	800W	1200W	1500W	2000W	2500W
Electrical Specifications								
Amplifier	Gain	0.775V (41dB) / 38dB / 35dB / 32dB						
	Impedance	20kΩ (balanced, stereo) 10kΩ (unbalanced, parallel)						
Frequency Response		<±0.5dB (8Ω 30W 20-20kHz)						
Slew Rate		>20V/us (8Ω 1kHz)						
Damping Factor		>300 (8Ω 1kHz)						
Crosstalk		>60dB (8Ω 1kHz)						
S/N Ratio		>100dB (A-weighted)						
Total Harmonic Distortion (THD+N)		<0.05% (8Ω 30W)						
Inter-Modulation Distortion (IMD)		<0.3% (8Ω 30W)						
General Specifications								
Protections	Amplifier	Power on/off protection Transistor thermal protection Short circuit protection Sensor for current on outputs Limiter						
	Speakers							
Controls	Front Panel	On/Off switch Signal level control for each channel						
	Back Panel	Stereo/Parallel selector Input gain adjust						
Indicators		Power: 1 blue; Protect: 2 red; Clip: 2 yellow; Signal: 2 blue.						
Connectors	Input	Two Neutrik XLR connectors each channel						
	Output	1 Neutrik Speakon + 1 Binding-Post connector each channel						
Power Supply		See label on the apparatus						
Dimensions (W×H×D)		483×88×447mm (with handles)					483×88×481mm (with handles)	
Weight		16.5kg	17.0kg	17.5kg	18.0kg	18.0kg	21.0kg	23.0kg



Front Panel



Rear Panel for D2030/D2045/D2060/D2080/D2100



Rear Panel for D2130/D2160

1. PROTECT LEDs

Protection pilot lights

If these LEDs light up, this indicates that one of the various protections safeguarding the different sections of the amplifier and the loudspeaker enclosures has tripped due to an operating fault. In these cases, the power output is normally switched off until normal operating conditions are restored.

The following is a description of all the series protections

- 1) Switch on AC soft working protection: Limit the electric current when start up, don't affect the others equipment or out the rush of circuit inside.
- 2) Delay the link load: protect the loudspeaker, keep silence when start up.
- 3) Circuit damage protection: midpoint excursion and output the AC, limit the damage to extend.

- 4) Limit the output current soft protection: The loading impedance is low and too drastic signal: it can protect the loudspeaker and amplifier.
- 5) Clip and compress protection: When input too big signal, the clip output is distortion, it is easy to damage the speaker unit; this circuit can check the compress signal to protect the loudspeaker.
- 6) Short circuit protection: trips in the event of a short-circuit or overload, limiting the output current.
- 7) Over hot protection: In high temperature and low overload state, the temperature grow hot quickly, the protect will work to cut the load over 90°C, The amplifier will rework below 75°C.
- 8) Switch off protection: First turn off the overload when switch off, it keep the loudspeaker silence out of the rush.

Note: Some protection situations require the amplifier to be switched off and then back on for normal operating conditions be restored.

2. LIMIT LEDs

Amplifier "status" indicators: these LEDs are able to indicate for channels A and B, the operation of the internal limiter, when inserted, or the clipping of the amplifier:

These 2 LEDs are POST-LEVEL: in other words they display the status of the signal when it has already been regulated by the input level controls.

3. SIGNAL LEDs

Signal "status" indicators: these LEDs are able to indicate for channels A and B, a signal presence in the inputs of the amplifier.

4. LEVEL

Control of the input level of the external signal: operates with continual values which vary from "fully closed" (position "MIN" - the signal is not fed to the amplifier sections) to "fully open" (position "MAX" - the signal is sent to the amplifier sections at the same level as that with which it arrives at the input). In other words, this control operates as an attenuator of the signal fed to the amplifier.

5. AIR VENTS

Amplifier cooling system air in/out vents.

The fan of the cooling system create a flow of air with front to back direction: this means that the air is taken from the front panel to the back cover, and having cooled the heat sinks and transformer through the opening on the back side. Care must always be taken to avoid blocking these openings and to never place the amplifier in a position which does not allow sufficient air circulation.

6. POWER ON

ON/OFF switch with indication LED. (Active LED)

7. INPUTS

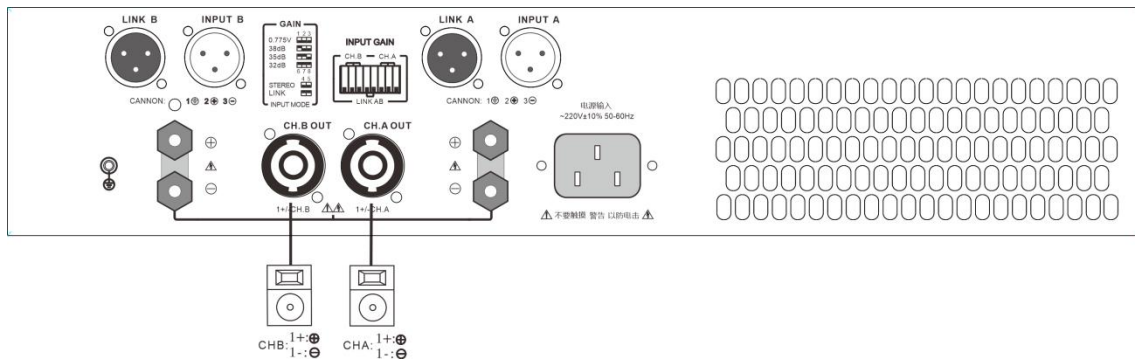
Each channel has a XLR input and a XLR input for parallel output.

8. OUTPUTS

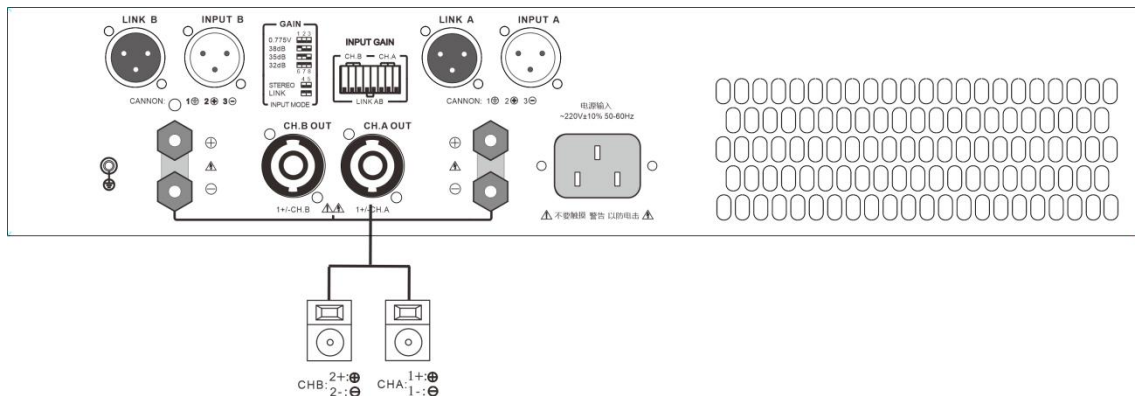
STEREO outputs: output of CHA: the "1+" is the " $\oplus$ " of CHA, the "1-" is the " $\ominus$ " of CHA, the "2+" is the " $\oplus$ " of CHB, the "2-" is the " $\ominus$ " of CHB.

output of CHB : the "1+" is the " $\oplus$ " of CHB, the "1-" is the " $\ominus$ " of CHB.

Wiring method 1:



Wiring method 2:



9. STEREO/PARALLEL selector

Selector for the amplifiers 2 operating setting: allows to decide how use the amplifier in the audio setup, connect with other units (crossovers, other amplifiers, loudspeaker enclosures).

Note: This control should only be used when the amplifier off, otherwise the loudspeaker's components could be damaged.

A) STEREO

With the STEREO setting, 2 separate signals are treated separately by each channel of the amplifier.  4 5

B) PARALLEL MODE

With the parallel setting, when inputting one signal, the parallel channel can output signal at the same time.

When switch 4&5 open, CH.A and CH.B are parallel.  4 5

10. GAIN adjust

According to different file, it can set different gain for each channel (0.775V (41dB) / 38dB / 35dB / 32dB).



11. POWER INTERFACE

12. NOISE GATE

The factory default is -80dB, Click to change to -75dB, and click again to change back to -80dB. In this cycle.

Press and hold for 5 seconds to close the squelch door function, and then click to open the squelch door function.