

MX3000II/MX3500II/MX4000II

Professional Stereo Conference Amplifier (2×650W/800W/1000W)



Description

The MX3000II, MX3500II, and MX4000II series is a professional two-channel stereo power amplifier range offering high-power output and independent per-channel volume control. With three selectable operating modes and comprehensive protection features, this series is well suited for speech transmission and sound reinforcement across a wide range of applications. XLR connectors, SPEAKON sockets, and LED operating status indicators further enhance its flexibility and ease of use.

Features

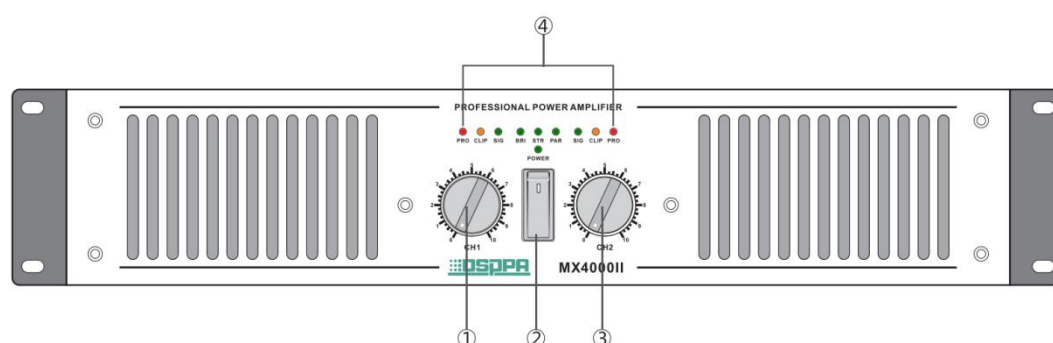
- Two-channel stereo professional power amplifier.
- New appearance design with standard chassis, suitable for standard cabinet installation.
- A range of high-power amplifier options available to meet different requirements.
- Three selectable operating modes: stereo, parallel, and BTL bridge, with a front-panel mode switch.
- Independent volume control for each channel.
- Minimum load impedance: 4Ω for stereo operation, 8Ω for BTL operation, and 2Ω for parallel operation.
- Equipped with XLR signal input (female) and XLR signal output (male) connectors for flexible and convenient connectivity.
- Amplifier output features standard binding posts and professional SPEAKON speaker sockets (available in stereo mode only).

- Built-in protection and alarm functions including short-circuit protection, DC protection, and power on/off protection.
- Each channel features LED operating status indicators; low-noise design.
- Suitable for speech transmission and sound reinforcement in a wide range of applications.

Specifications

Model	MX3000II	MX3500II	MX4000II
Rated output / per channel, 8Ω	650W	800W	1000W
Rated output / per channel, 4Ω	950W	1200W	1500W
Rated output / Bridge Model, 8Ω	1500W	2100W	2800W
Output Interface	2 Speakon for Stereo & Bridge Output		
Input Sensitivity	1.0V		
Input Impedance	20kΩ/balance, 10kΩ/unbalance		
SNR	≥98dB		
Damping Coefficient/8Ω,1kHz	>230		
Frequency Response	20Hz-20kHz (±1dB)		
THD	< 0.1%		
Crosstalk	<-62dB		
Slew Rate	15V/uS		
Power Supply	AC220-240V/50Hz		
Protection	Soft start-up,, load short circuit, voltage limit, DC output, over temperature		
Machine Size (mm)	(L×W×H) 484×460.5×88		
Package Size (mm)	(L×W×H) 550×535×165		
Gross Weight	18kg	20kg	25 kg
Net Weight	16kg	18kg	23kg

Front / Rear Panel



① CH-1 Input Level Adjustment Knob

Adjust this knob to the desired volume level. When you are far away from the speaker and you cannot hear the volume directly, you can adjust the volume by referring to the scale on the panel. (Only use this knob in bridge or parallel mode)

② Power Switch

When this button is pressed, the soft-start anti-surge shock circuit of the power amplifier starts to work.

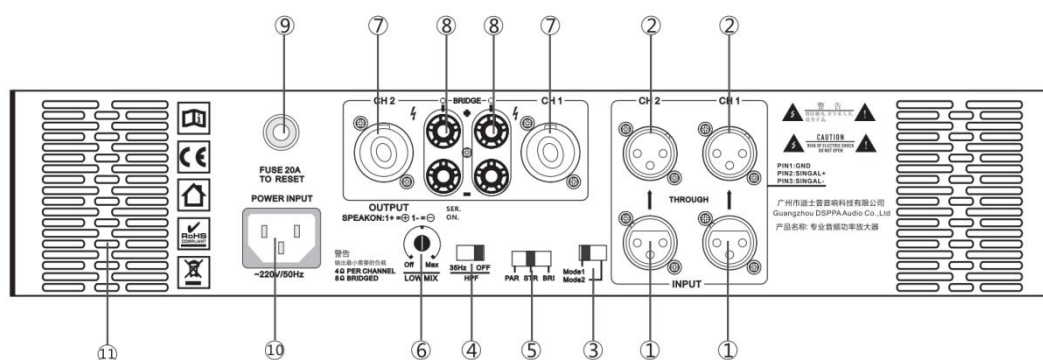
After about 3~4 seconds, you can hear a "click" sound, and the soft start-up work is completed. After another 1~2 seconds, you can hear a "click" sound. The power amplifier has been connected to the speaker, and it has entered the work state at this time.

③ CH-2 Input Level Adjustment Knob

Adjust this knob to the desired volume level. When you are far away from the speaker and you cannot hear the volume directly, you can adjust the volume by referring to the scale on the panel. (Only use this knob in bridge or parallel mode)

④ Work Status Indicator Light

- **PRO:** CH-1, CH-2 protection indicator (yellow). There are three situations where the indicator light will be on.
 - 1) 3~5 seconds after power on and after power off, the power amplifier is disconnected from the speaker when the power amplifier is unstable.
 - 2) When the operating temperature of the power device exceeds 90 degrees.
 - 3) When the power amplifier is abnormal.
- **CLIP:** Peak indicator (red). There are two situations when the indicator light will be on
 - 1) When the output power of the power amplifier reaches the maximum value and clipping is about to occur, the indicator light is on. At this time, please pay attention to appropriately reduce the input level.
 - 2) When there is a signal input but there is no sound from the speaker, and the indicator light is continuously on, it is determined that the load is short-circuited, and the power amplifier should be turned off, clear the short-circuit, and then resume work.
- **SIG:** CH1/CH2 output signal indicator (red). When the power amplifier enters the normal working state and there is a signal output, the indicator light is on.
- **BRI:** Bridge working mode indicator (green). When the power amplifier is in bridge mode, this indicator light is on, and the input signal only acts on CH1.
- **STR:** Stereo working mode indicator (green). When the amplifier is in stereo mode, this indicator light is on.
- **PAR:** Parallel working mode indicator (green). When the power amplifier is in parallel operation mode, the indicator light is on, and the input signal only acts on CH1.



① CH-1/CH-2 Input Socket

CH-1/CH-2 input adopts standard XLR (female socket), and its wiring method is: 1 pin: signal ground 2 pin: signal + 3 pin: signal -. Please pay attention to the instructions on the back panel of the machine when using it.

② CH-1/CH-2 Output Socket

The CH-1/CH-2 outputs use standard XLR (male) sockets, which can be connected to the same XLR (female socket) to output the same signal to another power amplifier device. The wiring method is: 1 pin: signal ground 2 pin: signal + 3 pin: signal -. Please pay attention to the instructions on the back panel of the machine when using it.

③ **Limit 1/Limit 2**

④ **CH-1/CH-2 35Hz High-pass Filter**

The low-cut filter cuts off the required frequency band below 35Hz to protect the woofer from excessive vibration damage.

⑤ **Function Mode Switch**

Used to select a stereo mode, bridge mode, or parallel mode.

⑥ **CH-1/CH-2 Low Frequency Excitation**

Generated by the bass processor to control the amount of low frequency signal from 0 to infinity. Adjustment is based on equipment parameters and personal preference.

Note: The bass processor should be used with caution to avoid possible speaker damage, most small budget speakers cannot withstand the low frequency shock produced by this device.

⑦ **CH-1/CH-2 Professional SPEAKON speaker socket**

When the device is working in stereo mode, it can be connected using the SPEAKON socket with the following connections: 1+; 2+. 1-; 2-

⑧ **Amplifier Output Terminal**

⑨ **Recoverable fuse**

When the power amplifier fails, the fuse will automatically disconnect and stop working. After clearing the fault, press the fuse button to restore the connection to ensure normal operation.

⑩ **Power Input Socket**

⑪ **Cooling Air Outlet**

Do not block the cooling air outlet under any circumstances.