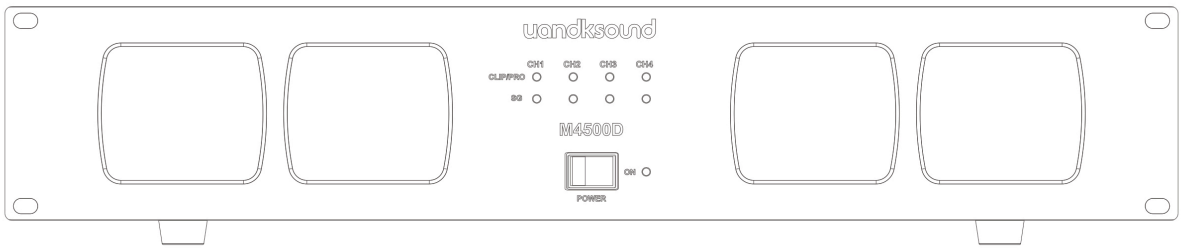
uandksound

AWAKEN YOUR SENSES



Class D Power Amplifier

M4500D

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



An arrow lightning symbol inside an equilateral triangle is used to identify the presence of uninsulated dangerous voltage the user's product enclosure. The strength of this voltage is sufficient to cause a shock hazard to the person.

The exclamation mark in the equilateral triangle is used to enhance the user's printed materials in the product and contains important operating and maintenance (repair) instructions.

Do not place the device on an unstable cart, stand, tripod, bracket or table. The equipment may fall over and fall, causing severe physical damage to children and adults causing serious damage to the equipment. Use only carts, stands, tripods, brackets or tables specified by the manufacturer or sold with this equipment. Any assembly of the equipment on a wall or ceiling should follow the manufacturer's instructions and use the assembly accessories specifiedby the manufacturer.

Be careful when moving carts and equipment components. An emergency stop, excessive force, and uneven roadsurface may cause the cart and equipment components to tip over.

This product complies with the European Union's " Electronic and Electrical Equipment Waste" regulations. End-of-life products should not be treated as municipal waste. Please refer to local regulations for proper handling of such products.

Construction of state-of-the-art equipment should be connected to a power outlet with good grounding.

When the power plug or device connector is used as a disconnect device, keep the disconnect device (power outlet) available at all times.

1. Read these instructions.
2. Keep these instructions in a safe place.
3. Pay attention to all warning messages.
4. Follow all instructions.
5. Never use the device near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation holes and follow the manufacturer's instructions for installation.

8. Do not install this equipment near any heat source such as radiators, heaters, stoves, or other equipment that generates heat, including amplifiers.

9. Do not damage polarized plugs for safety purposes. The polarized plug has two pins, one of which is wider. The grounding plug has three pins, of which the wider or third grounding pin is used to protect the user. If the supplied plug does not fit the outlet, consult an electrician to replace the original outlet.

10. Protect the power cord, especially the plugs, sockets, and equipment lead-out points from hi-hats or squeezing.

11. Use only accessories and accessories specified by the manufacturer when using this equipment.

12. Use only cart stands, tripods, brackets or tables specified by the manufacturer or sold with the cart, care should be taken to move the cart unit components to avoid injury from tipping over.

13. Disconnect the power to the equipment during thunderstorms or when unused for long periods of time.

14. Ask a professional service person for repairs. Any form of equipment damage needs to be repaired, such as damage to the power cord or plug, liquid ingress or debris into the equipment, exposed to rain or exposure to moisture, improper operation or equipment falling.

Never attempt to repair the device yourself.
Please ask professional maintenance personnel for repairs.

After any maintenance and repair work is completed, the repair shop should be required to ensure that only the parts that the same characteristics as the original parts, that have been authorized by the manufacturer, have passed the routine check to ensure that the equipment is in safe operation. Replacement with unauthorized parts may result in fire, electric shock or other hazards.

Introduction

M4500D power amplifier can function in a traditional stereo or multichannel setup because of the bridgeable option. If you connected device has a 12V trigger output, this can control the power state of the M4500D, and even daisy-chain several M4500D power amplifiers for complex installations.

M4500D is not a typical class D power amplifier. Our technology is much better. The units have very low distorsion and an excellent signal to noise ratio, making them the perfect amplifier on the market. Uandksound solution offers noiseless and clear replay at all sound levels. The digital signal drives the loudspeakers directly, with no translation and no middleman

offering a digital to analog conversion virtually perfect for the most demanded audiophiles. You can be sure that our technology will deliver the most enjoyable and neutral sound you have ever experienced.

Our new class D power amplifiers represent the best in engineering ingenuity and available electronic components. With an extremely high damping factor and the ability to deliver huge currents the class D technology effortlessly controls any loudspeaker being the best partner for our flagship Reference Series. 750 watts for channel for M4500D, with bridgeable option just for M4500D, guarantees the best sound performance of the market. Even loudspeakers with very low impedance are no match for the unflappable power supply of our power amplifiers.

Specifications

Rated Power Output	THD<0.1% 750 Watts RMS at 4 ohms, 350 Watts RMS at 8 ohms/CH; THD<10% 800 Watts RMS at 4 ohms, 400 Watts RMS at 8 ohms/CH; THD<0.1% 1400 Watts RMS at 8 ohms/BRIDGED; THD<10% 1500 Watts RMS at 8 ohms/BRIDGED.
Frequency Response	+/- 0.5dB: 20 Hz-20 kHz
Signal to Noise Ratio (Un-weighted)	110 dB
Distortion (THD)	（20Hz-20KHz) ＜0.01%
Damping Factor（into 8 Ohms)	＞300
Gain	0.775V/1.5V
Input Impedance	＞80K Ohms
External Trigger	12V
DC Offset	Less than 10 mV
Crosstalk	（20Hz-20KHz) ＞80 dB between ANY Channel
Phase（20Hz-20KHz)	Less than 15 degree
Power-Requirements (All Channel Driven)	~100V-240 VAC, 50Hz-60Hz, 2300W
Dimensions	482 mm W 108 mm H (including feet) 400 mm D (including speaker connections)
Chassis Type	2RU
Weight	11KG

M4500D Front Panel Features

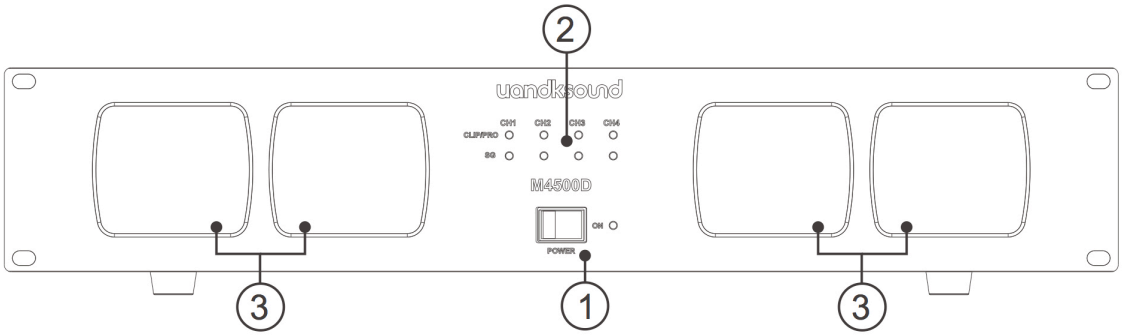
1. Power Switch

When Power Switch is “-”, the idle mode is activated, the led is light, and this mode can be turn off by turning the switch to the “O” position.

2. Amplifier Display

When the corresponding signal led is light a signal enters the channel, When the signal is overloaded,the corresponding signal led is red.

3. Air intake



M4500D Rear Panel Features

4. RS232 control information

Power on, receive serial port instruction 41 01 000 D or Trigger in signal, open STBY = 1, after 5S, Mute = 1;
When working, receive the serial port instruction 410200d or Trigger in signal, close mute = 0;
STBY = 0; Serial parameters 115200bps 8bit no verification;
Power on command (HEX) 41 01 00D;
Shutdown command (HEX) 41 02 00 00 D;
Mute command (HEX) 41 03 00D; UN mute command (HEX) 41 04 000 D.

5. Power Mode

a. ON-Always On.
b. In the TRIGGER (Left) position, the M4500D’s ON and OFF functions are controlled by a trigger in from a source or pre amplifier device (Use the 1/8” mono jack to connect). The trigger accepts 12VAC/DC and will turn the M4500D on whenever a trigger is present. When there is no trigger, the amplifier goes into standby mode.
c. The M4500D supply TRIGGER link out to another amplifier (Use the 1/8” mono jack connect).

6. Inputs

A-CH1&CH2 Sensitivity Selector Switch;
B-CH1&CH2 STEREO /BRIDGED Selector Switch;
C-CH3&CH4 Sensitivity Selector Switch;
D-CH3&CH4 STEREO /BRIDGED Selector Switch. When the switch is the “BRIDGED” position, please use Ch1 & CH3;
E-Volume Control;
F-XLR Input;

7. Speaker Outputs

a. Connect the speaker wires to the Binding Posts. NOTE: Red is Positive and Black is Negative.
b. Use either Bare Speaker Wire or Banana Plugs to terminate the speaker wire. NOTE: The total average impedance of the speaker(s) should be no less than 3 ohm per channel. You must make sure that the lower impedance does not cause M4500D to overheat, shut down, blow the line fuse, or pop your circuit breaker.
c. CH1 and CH2 can be Bridged,CH3 and CH4 can be Bridged .

8. AC Power

IEC Line Cord Socket: Input voltage requires a range of 100-240VAC. Fuse specification：T15AL 250V. Use the correct IEC line cord, plug the line cord into a AC wall socket which is correctly configured with the voltage and current supply specified for M4500D. Do not plug this line cord into a power trip, it must plug directly into a wall socket with grounding.

9. DC Low noise fan