



Contents

Contents. 1

Important note. 2

Control elements. 3

Rear panel features introduction. 4

Rear panel features introduction. 5

Audio input and output connections. 6

PC Interface. 7

PC Interface. 8

Professional Power Amplifier Specifications. 9



Important Note

WARNING NOTICES

SAFEGUARDS

Electrical energy can perform many useful functions, This unit has been engineered and manufactured to assure your personal safety. Improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards, observe the following precautions for its installation, use and servicing.

Explanation of Graphical Symbols



**CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION
RISK OF ELECTRIC SHOCK:
OPEN ONLY IF QUALIFIED
AS SERVICE PERSONNEL**

**WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE
THIS EQUIPMENT TO RAIN OR MOISTURE**

IMPORTANT NOTE

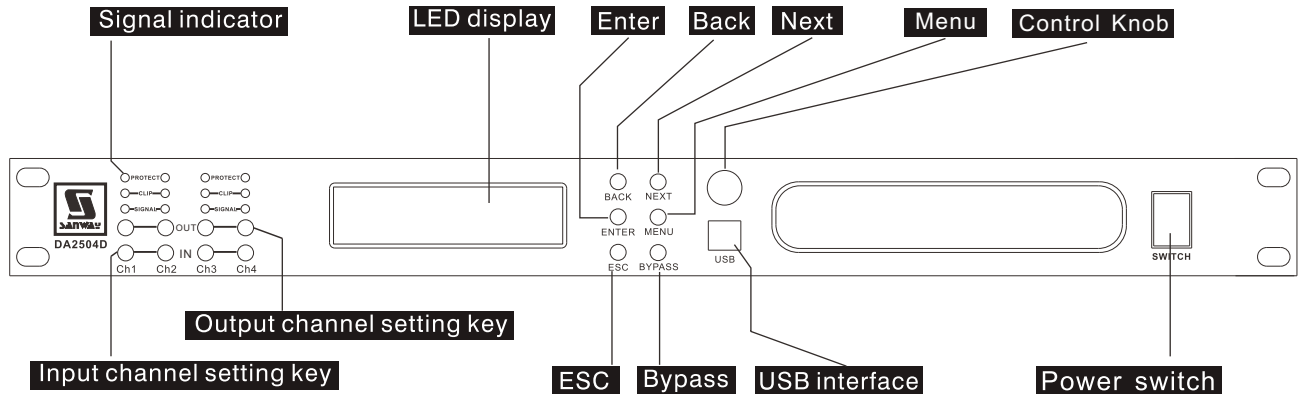
ATTENTION: This unit must be protected from damp because of the risk of fire and the possibility of electric shocks.

1. Make sure that you have the correct mains voltage. Only operate the unit at the mains voltage marked on the rear panel.
2. Make sure that nothing especially no metal objects are inserted into the device. This could result in electric shock or malfunction.
3. If the unit is subjected to extreme fluctuations of temperature e.g. On being transported from outside into a heated room, condensation can form. This unit should not be used until it has reached room temperature.
4. In the event of water or any other fluid being accidentally spilt on the unit switch the unit off immediately and send it to a qualified service workshop for inspection.
5. Make sure that the unit is always well ventilated and never exposed to direct sunlight
6. Do not use sprays to clean the unit as they have a detrimental effect on the unit and could ignite suddenly.
7. The machine use single power switch, please cut off the power before fix.
8. Please do not put the cup, vessel of flower or container above the machine, in case the leak out water then cause the leakage current off the machine.



Control elements

Introduction of the front panel functions



Signal indicator

SIGNAL LED: Indicate output signal levels in normal operating range

VPL LED: This indicator signals if the amplifier output is clipping or limiting.

CPL LED: Low impedance/Short Circuit Detection Fault

MUTE LED: MUTE-Audio protection under mute position.

LED display

Turn on the power supply, display light can display various parameters for use's convenience

Enter

Confirm the parameter you are setting or enter into operation menu

Back

To page up or move the cursor when edit

Next

To page down or move the cursor when edit

Menu

In standby state, press this key to enter the system setup program

Input channel setting key

Click this key to make current channel MUTE or Sound On.

Push this key 3 seconds to enter into this channel's setting mode

USB interface

Use a USB cable to connect the machine and PC

Output channel setting key

Click this key to make current channel MUTE or Sound On.

Push this key 3 seconds to enter into this channel's setting mode

ESC

Back to previous menu when click ESC in edit state or return to stand-by under other conditons

Control Knob

Set parameters in edit state

Bypass

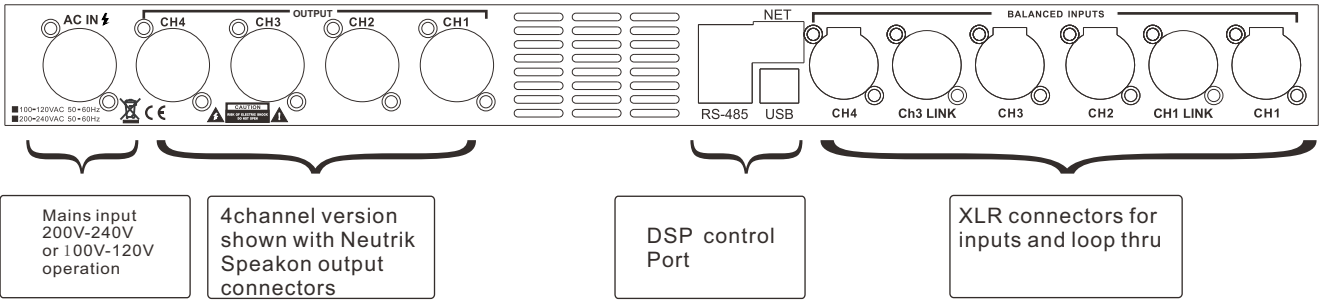
Choose to open or close when editing EQ Adjusted parameter is not implemented under bypass condition

Power switch

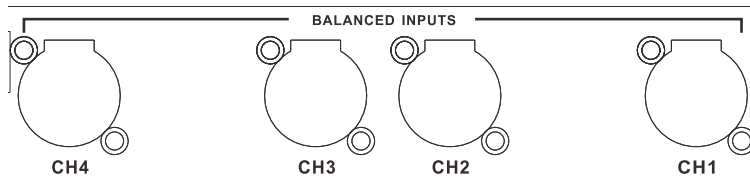
Turn the unit power on or off.



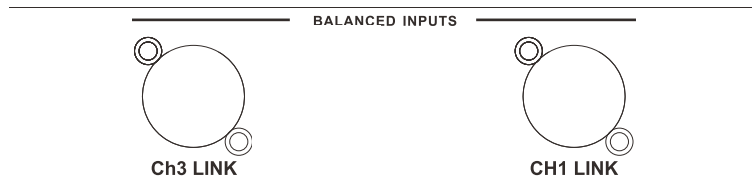
Rear panel features introduction



Input Connectors



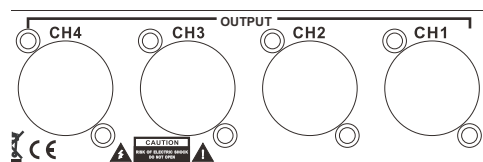
Audio inputs-4-channel models



Audio link:

the signal input into channel 1 can be output from channel 1 only, similarly, the signal channel 3 is the same.

Output Connectors

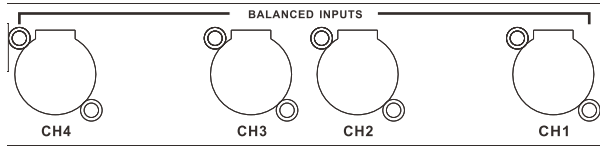




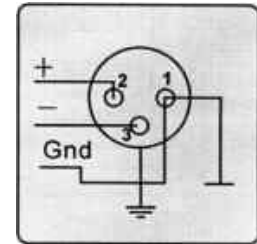
Rear panel features introduction

BALANCED INPUT CONNECTIONS

The XLR input connectors are electronically balanced, and wired according to the IEC 268 standard (pin 2= hot). XLR input connectors should be wired follows:



- Pin 1 Ground/Shield
- Pin 2 Hot (+)
- Pin 3 Cold (-)

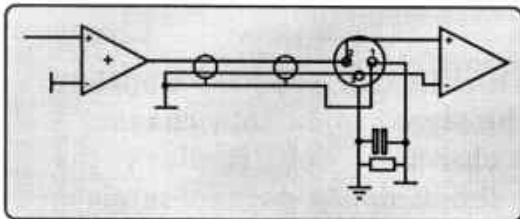


Audio input-4-channel models



When linking the same source signal to several input channels, be aware that there is a limit to the number of channels an output source can "drive". A typical output source (e.g. a DSP crossover unit) can drive up to four amplifier channels before external line-drivers might be required to buffer the signal.

Unbalanced Input connections



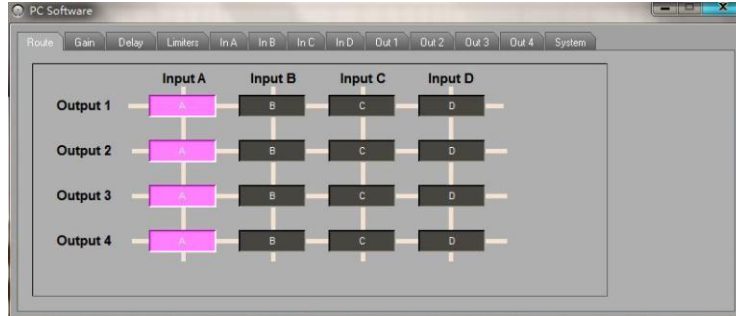
To connect an input to an unbalanced source, it is possible to connect pins 1 and 3 in the XLR plug at the amplifier end of the cable. However, a better method is to connect pin 3 to the shield at the source end of the cable, as this usually results in better hum and noise rejection. Balanced input connections are recommended whenever possible



Audio input and output connections

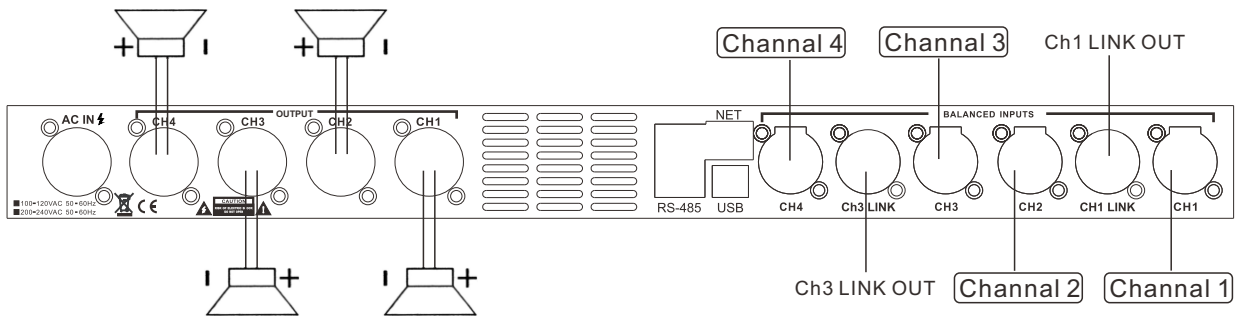
Route

The signal input into any channel can be select output from any channel.



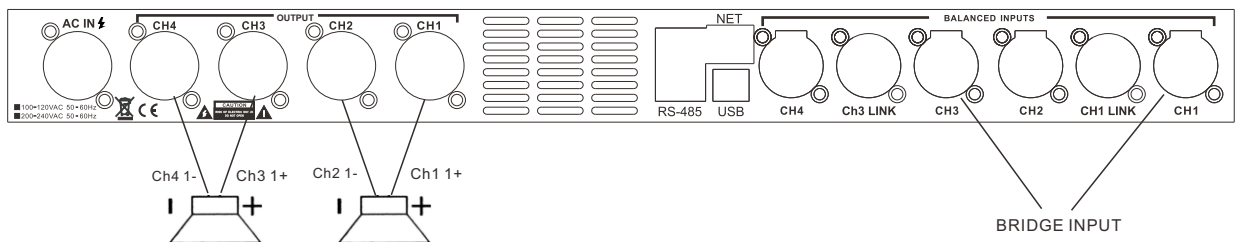
Stereo Mode

The signal input into channel 1 can be output from channel 1 only, similarly, the signal input into channel 2 can be output from channel 2 only. The many channels, one by one in order type pushes.



Bridge Mode

channel 1 and channel 2 are bridged, channel 3 and channel 4 are bridged.





PC Interface

Connection type

Work mode

Show or hidden Curve

Input signal indicator

Synchronized regulation

Rename input

Output signal indicator

Synchronized regulation

Input parameter copy

Output parameter copy

Rename output

Detailed description: This screenshot shows the main DSP control interface. At the top, there are status indicators for 'Connected' and 'Disconnected' for V2.2.1.H. Below this is a frequency response curve graph with a y-axis from -30dB to +15dB and an x-axis from 20Hz to 20KHz. The graph shows a flat line at 0dB. Below the graph are four input channels (In A, B, C, D) and four output channels (Out 1, 2, 3, 4). Each channel has a set of controls including Mute, Pol+, Gain, EQ, XOver, Route, Delay, EQ, XOver, Limiter, and Out. Annotations with arrows point to various elements: 'Connection type' points to the top status bar; 'Work mode' points to 'Current Mode: Normal'; 'Show or hidden Curve' points to the 'Show all' button; 'Input signal indicator' points to the colored bars above the input channels; 'Synchronized regulation' points to the 'Gain' controls; 'Rename input' points to the 'Copy In A' button; 'Output signal indicator' points to the colored bars above the output channels; 'Synchronized regulation' points to the 'Limiter' controls; 'Input parameter copy' points to the 'Copy In A' button; 'Output parameter copy' points to the 'Copy Out 1' button; and 'Rename output' points to the 'To Out 1' dropdown menu.

485

Disconnected

V 2.2.1.H

485

Ethernet

Device ID

1

485 ID NUMBER

Detailed description: This screenshot shows the 485 network interface. It features a 'Disconnected' status indicator, the model 'V 2.2.1.H', and radio buttons for '485' (selected) and 'Ethernet'. To the right, there is a 'Device ID' dropdown menu currently showing '1'. An arrow points from the text '485 ID NUMBER' to the 'Device ID' dropdown.

Ethernet

Disconnected

V 2.2.1.H

Local IP: 192.168.1.4

IP Address:

Search

Detailed description: This screenshot shows the Ethernet interface. It features a 'Disconnected' status indicator, the model 'V 2.2.1.H', and radio buttons for 'Ethernet' (selected), '485', and 'Local IP: 192.168.1.4'. Below this is an 'IP Address' field with a 'Search' button to its right.

DeviceIP_List

Device List

(Please wait for a few seconds, the search will take some time)

The device can be connected :(Press "Search" button will refresh the list.)

No.	IP Address	Name
1	192.168.1.100	Device #1

Choose

IP Address: 192 168 1 100

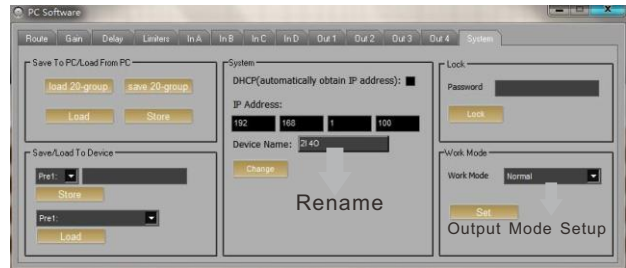
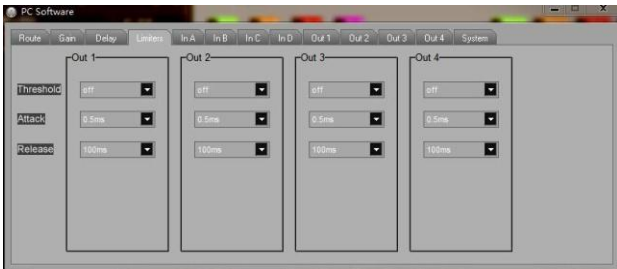
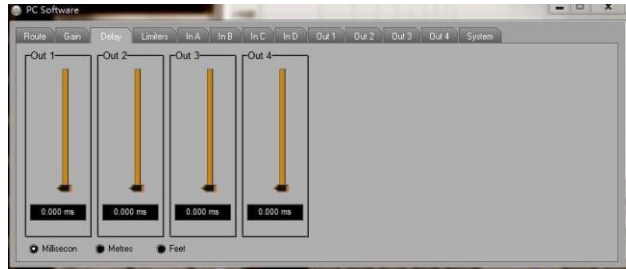
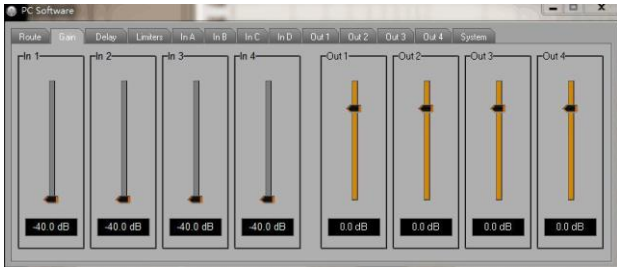
Device #1

Connect

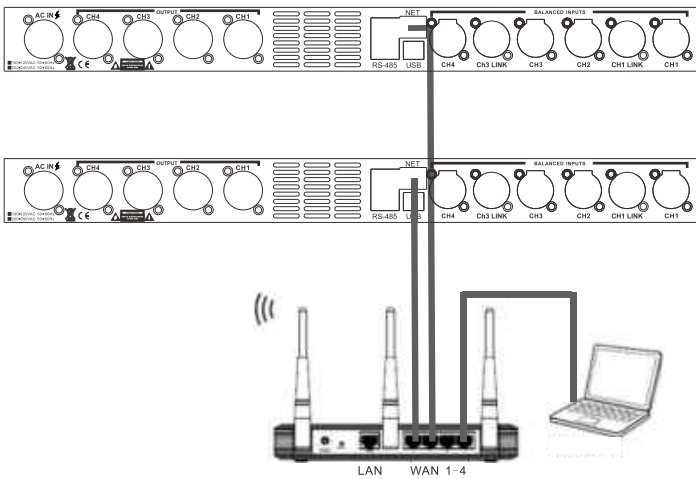
Detailed description: This is a dialog box titled 'DeviceIP_List'. It contains a 'Device List' table with one entry: No. 1, IP Address 192.168.1.100, Name Device #1. An arrow points from the text 'Choose' to the first row of the table. Below the table, there are input fields for 'IP Address' (pre-filled with 192, 168, 1, 100) and 'Device #1', and a 'Connect' button at the bottom.



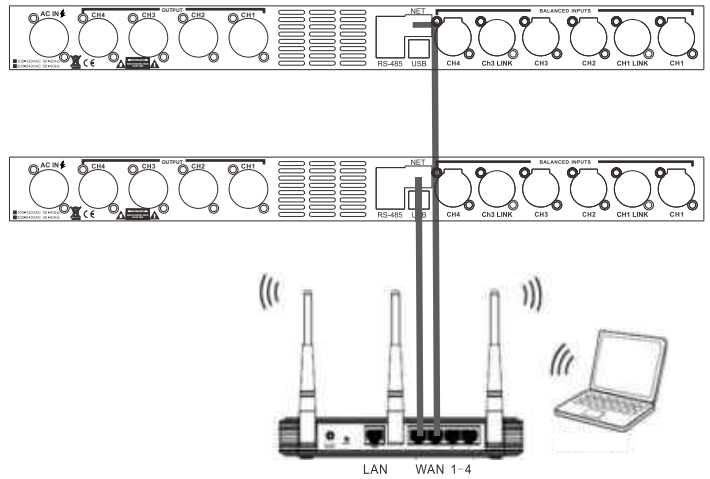
PC Interface Network application



Cable connection



Wifi connection





Professional Power Amplifier Specifications

SPECIFICATION

DSP

MODEL:	DA2504D
Input:	4 channel
Output:	4 channel
PC Com Port:	1 USB Com Port on front panel, 1 USB Com Port, 2 RS485 Com Port on back panel (RJ-45)
Processor:	48KHz Sampling frequency, 48-bit Fixed-Point DSP, 24-bit A/D and D/A converter
Dynamic range:	>110dB
Frequency Response:	± 0.25dB, 20Hz --- 20KHz
Distortion:	< 0.01%, 20Hz - 20KHz @ +10dBu balanced input
Signal to noise ratio:	>110dB
crossover filter:	Each output channel can be independently set as LPF and HPF, The parameters can be adjusted, Filter type:Butterworth, Bessel, Linkwitz-Riley; The Crossover Frequency:20Hz---20KHz, Slope:12,18,24 or 48 dB/octave
EQ:	Bandwidth:0.2 to 36 oct, Frequency:20Hz to 20KHz, Gain: -24dB to +12dB, step:0.2 dB
Delay:	0ms to 115ms
Display:	2 x 20 LCD
Store Settings:	20 user program dynamic storage

AMPLIFIER

Model	DA2504D
Output Power	
8 Ω Stereo Power	4×250W
4 Ω Stereo Power	4×450W
8 Ω Bridged Monon Power	2×800W
Frequency Response	20Hz-20kHz ±0.5dB
THD+N(Rated power,4 Ω /KHz)%	0.10%
Signal Noise Ration(dB)	110dB
Input Impedance	20K Ω Balanced / 10k Ω Unbalanced
Output Connectors	Speakon Connectors(NEUTRIK)
Power Requirement	100-120V-50-60Hz or 200-240V-50-60Hz

Dimension	
Airframe	483×44×325mm
Weight	
Weight(net)	5.7KG
Weight(gross)	7.2KG

