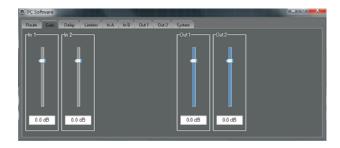
## PC Interface

# Network application

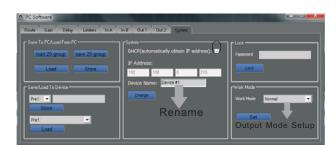




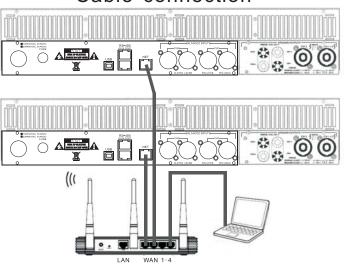




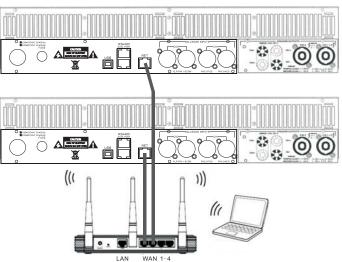




# Cable connection



# Wifi connection



# Contents Specification

|  | Contents                           | Specification         |  |
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# SPECIFICATION

## DSP

| DSP 14  |
|---|
| 2 channel   |
| 2 channel   |
| 1 USB Com Port on front panel;<br>1 USB Com Port, 2 RS485 Com Port (RJ-45), 1 NET Com Port on back panel  |
| 48KHz Sampling frequency, 48-bit Fixed-Point DSP, 24-bit A/D and D/A converter  |
| >110dB  |
| 0.25dB, 20Hz 20KHz  |
| < 0.01%, 20Hz - 20KHz @ +10dBu balanced input   |
| >110dB  |
| 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:20Hz20KHz, Slope:12,18,24 or 48 dB/octave |
| Frequency:20Hz to 20KHz, Gain: -24dB to +12dB, step:0.2 dB  |
| 0ms to 105ms  |
| 2 x 20 LCD  |
| 20 user program dynamic storage   |
|   |

# AMPLIFIER

| Model                      | DSP 14                               |  |  |  |
|----------------------------|--------------------------------------|--|--|--|
| Output Power               |                                      |  |  |  |
| 8 Ω Stereo Power           | 2×2350W                              |  |  |  |
| 4 Ω Stereo Power           | 2×4400W                              |  |  |  |
| 8 Ω Bridged Monon Power    | 1×8700W                              |  |  |  |
| Frequenty Response         | 20Hz-20kHz ±0.5dB                    |  |  |  |
| THD+N(Rated power,4Ω/KHz)% | 0.10%                                |  |  |  |
| Signal Noise Ration(dB)    | 110dB                                |  |  |  |
| Input Impedance            | 20KΩ Balanced / 10kΩ Unbalanced      |  |  |  |
| Output Connectors          | Speakon Connectors(NEUTRIK)          |  |  |  |
| Power Requirement          | 100-120V-50-60Hz or 200-240V-50-60Hz |  |  |  |

| Dimension   |              |
|-------------|--------------|
| Airframe    | 483×377×88mm |
| Weight      |              |
| Weight(net) | 13Kg         |

# Important Note

# **WARNING NOTICES**

#### **SAFEGUARDS**

Electrical energy can perform many useful funtions, This unit has been engineered and manufactured to assure your personal safety. Imporoper 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

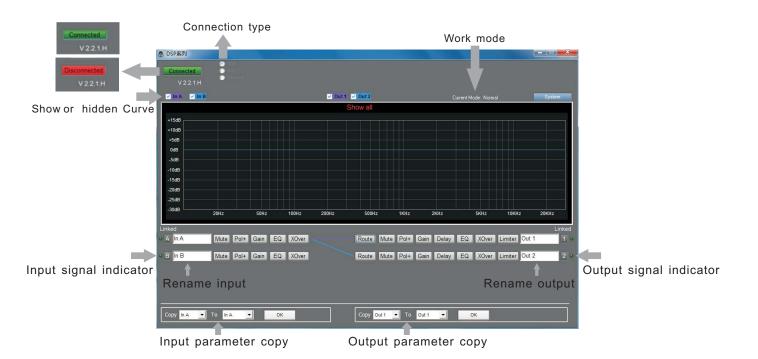
## IMPORTANT NOTE

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 untill 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.

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## PC Interface



Connected

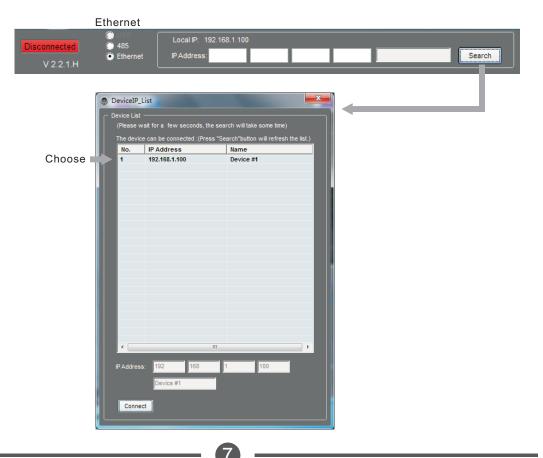
USB

Connected

Device D

485 ID NUMBER

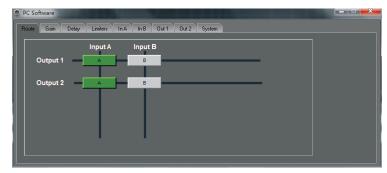
V 2.2.1.H



# Audio input and output connections

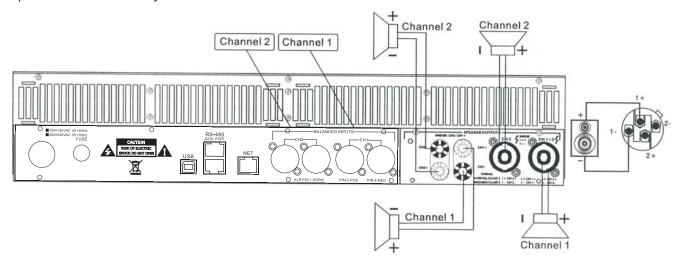
## Route

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



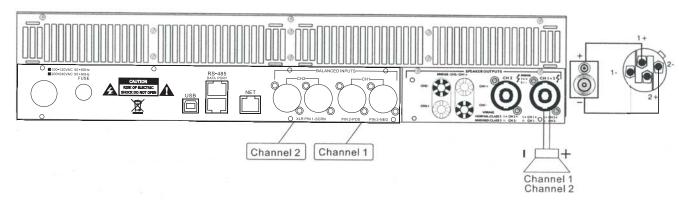
## Stereo Mode

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.



# Bridge Mode

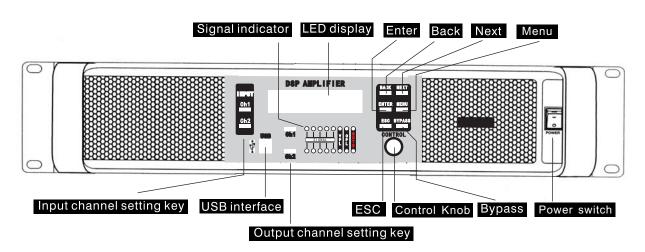
channel 1 and channel 2 are bridged





## 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

#### Ente

Confirm the parameter you are setting or enter into operation menu

#### Back

To page up or move the cursor when edit

#### Nex

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 conditions

### Control Knob

Set parameters in edit state

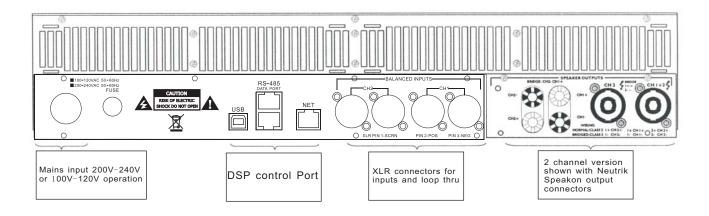
#### Bypas

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

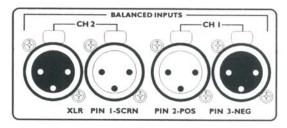
Turn the unit power on or off.

(3

# Rear panel features introduction



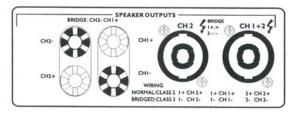
### Audio Input and link output connectors



### Audio link:

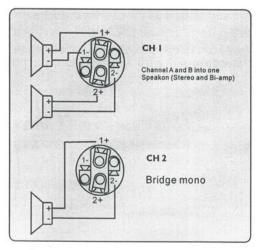
the signal input into channel 1 can be output from channel 1 only, similarly, the signal channel 2 is the same.

### **Output connectors**



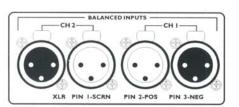
Speakon outputs-2-channel models

# Rear panel features introduction



Two-channel amplifiers Additional connectors are provided for Channel 1.

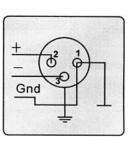
## **BALANCED INPUT CONNECTIONS**



Audio input-2-channel models

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

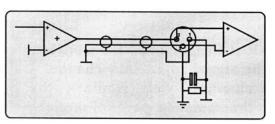
Pin 1 Ground/Shield Pin 2 Hot (+) Pin 3 Cold (-)





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 two 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.

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