



sae audio LP428 Loudspeaker Processor User Manual

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Important Safety Instruction and symbol description

1. Read these rules.
2. Keep this instruction manual.
3. Pay attention to all the warning.
4. Follow these provisions.
5. Warning: do not place the device in rain or wet environment, to avoid catching fire or eletric shock.
6. Only dry rag can be used to clean.
7. Do not block the air-vent. The installation should be according to manufacturer/s instruction.
8. Do not install near the heat source which such as radiators, stoves and others(include amplifiers) can produce heat.

9. Do not disable the security of the ground pin. This device should be linked to socket through safe ground connection.
10. Take care of the electric wire without trampling and squeezing, Especially pay attention to the plug, the power sockets and other connectors.
11. The voltage which indicated on the rear panel must be used. If the device damage is caused by using improper voltage, it will be repaired out of warranty.

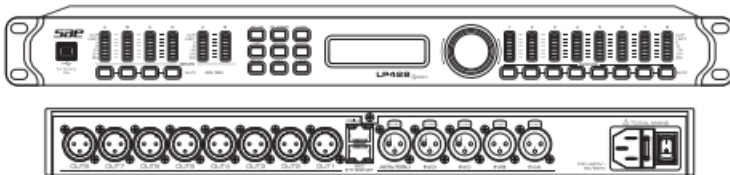


When you see this sign, it means these are important information.



Dangerous without insulated sections are in the device, which can electrify people. So do not open the cover. The device must be repaired by professionals or returns to the manufacturer.

Foreword



Welcome

LP428 is a newly developed professional speaker management from our company. And it can work with computer. Please download the control software from our company brand website. balanced input, and Matching impedance output. Please read this manual carefully.

Unpacking

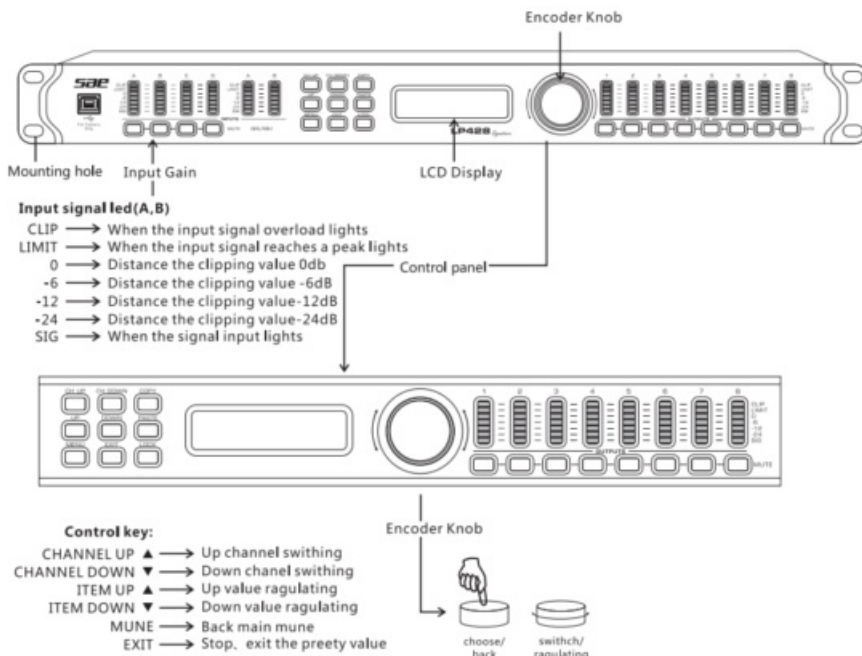
Please make sure if the appearance of the power amplifier was damaged or not during the transportation after you opened the package. Please make sure the preset voltage is matched with your local AC voltage (please check it on the rear panel of the power amplifier). We suggest you retain the package in case you need them for further transportation.

Important safety precautions

The design of SAE products has already taken the safe requirement into consideration and all the finished products have been tested under the requirement of the government before sale. Users should read the notice in this manual before operation as there is dangerous high voltage and electricity inside the products. It will increase the chance of getting shock by the electricity if the product falls down, recess in the appearance, soaked or there were some parts loose internal. If there are problems above, please turn off power immediately and send the defective units to local distributor for service.

Front Panel Function

Front Panel



Onput signal led(A,B)

CLIP → When the input signal overload lights

LIMIT → When the input signal reaches a peak lights

0 → Distance the clipping value 0db

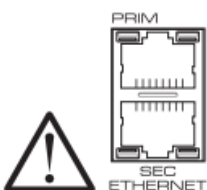
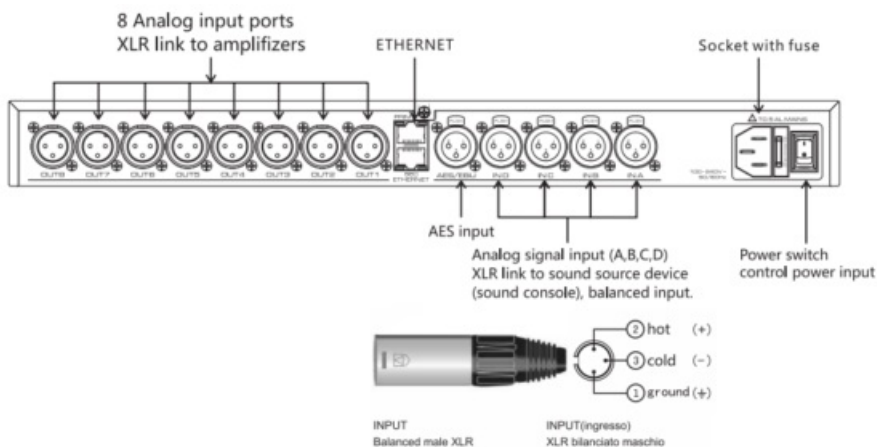
-6 → Distance the clipping value -6dB

-12 → Distance the clipping value-12dB

-24 → Distance the clipping value -24dB

SIG → When the signal input lights

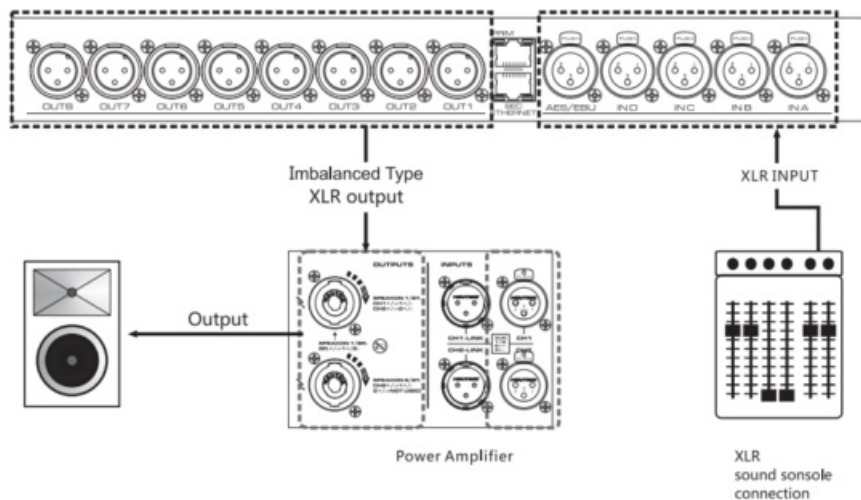
Rear Panel



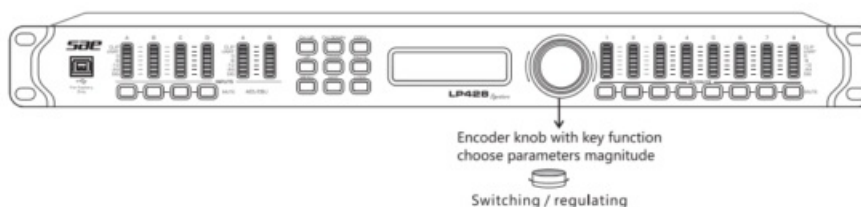
Cable connection requirements:

1. Direct connection (the circuit is directly connected to the machine), one end needs to press 568A standard, Another end according to 568B standard;

2. Connect to the switch.Both ends need to be connected by 568A(or 568B) network cables.

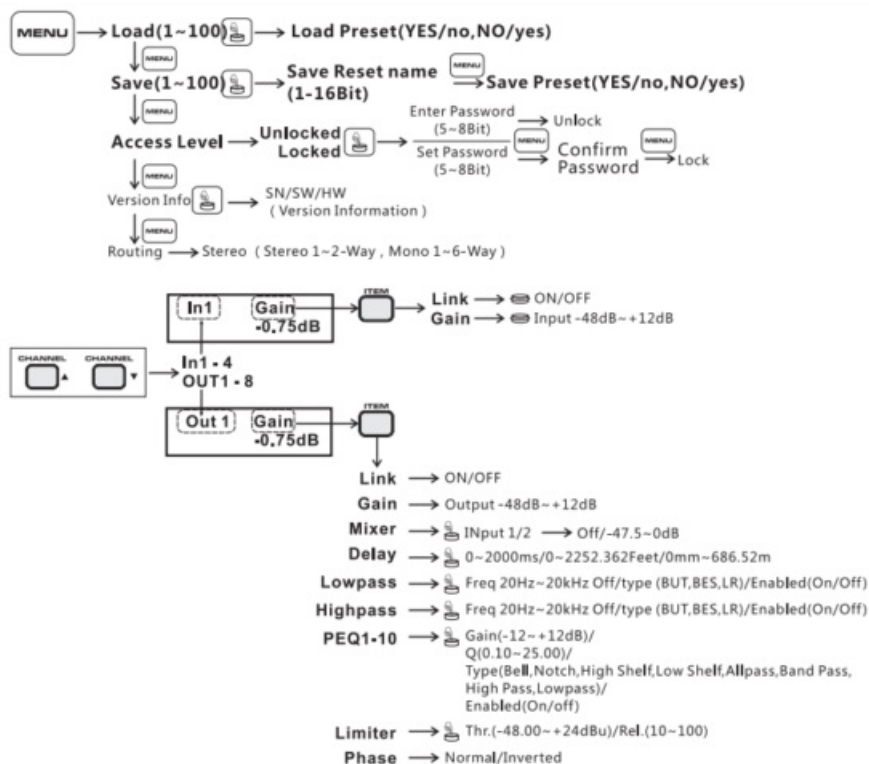


DSP Instructions



Note: The button function of this product, users can edit the changes through the software.

Set flow chart (see figure below), for reference only



Software Instructions

Software interface introduction

1. Equipment state



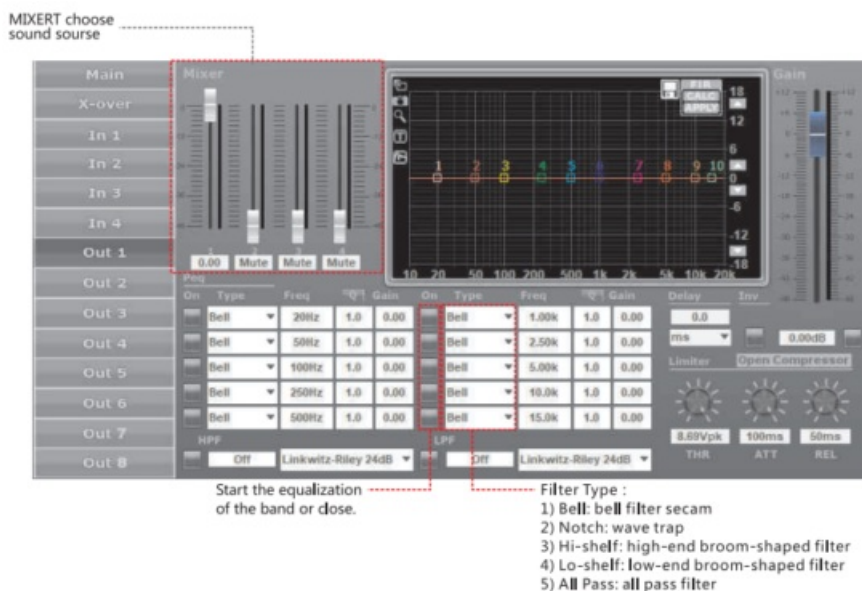
2. Main interface



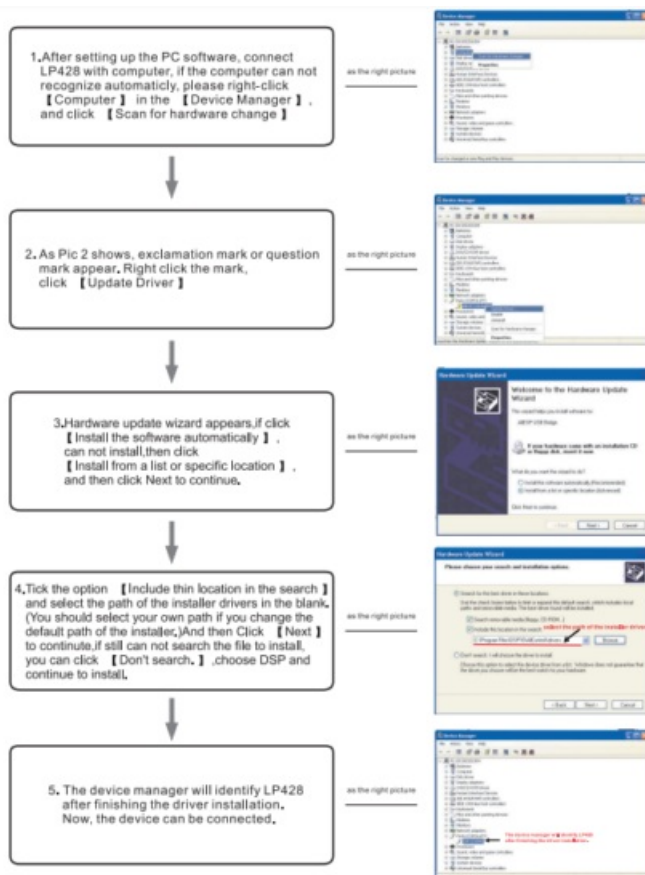
X-OVER interface



3. OUTPUT interface



USB drive manual installation



Specifications

Model LP428

Input 4 ways Balanced Type.

Output 8 ways Imbalanced Type

Input Impedance bal 20k / unbal 10k

Output Impedance < 100 ohms.

Output Gain From +12dB to -48dB, 0.25dB increment

Input Gain From +12dB to -48dB , 0.25dB increment

Other Parameters

Frequency Response (-0.3dB) 20Hz – 20kHz

THD+N .s.0.008%

Maximum input delay 2s

Maximum output delay 50ms

Dynamic Range(A weighting) >115dB

Converts Frequency (high pass/ low pass) 20Hz – 20kHz, 1Hz increment

Centre Frequency (high pass/ low pass) 20Hz – 20kHz, 1/36 octave (19980 positions) increment

Minimum Load Impedance 600 ohms

Maximum Output Level +18dBu (600 ohms load)

Filter Gain From +12dB to -12dB, 0.25dB increment

High Pass & Low Pass Filter Q value 0.2-25 adjustable, 0.1 increment/ 10 bands/1 filter each output channel, open and close

FIR Filter 8 x 800taps

Frequency Response Bessel/ Butterworth 6/12/18/24dB each octave, and Linkwitz-Riley 24dB/ octave

Protect Function system can be set code which can prevent unauthorized person operation.

Connectors

Input Section 3 cores XLR F socket

Output Section 3 cores XLR M socket

USB Connector Square

Power Socket 3 cores ICE socket

Input Limiter Threshold +24dBu to -48dBu

Output Limiter Threshold +12dBu to -48dBu

Start-up Time 0

Release Time 1-100

Sampling Rate 96kHz

Phase 180° phase

LCD Display 2*16 character type LCD display

Input Level Match 2*7 points, -30dB to clip

Output Level Match 6*7 points, -30dB to clip

Preset More than 100 PCS preconfigured/more than 100 PCS preconfigured

Language Options English, Germany, Spanish, French, Dutch

Version Information The version information of hardware, software, DSP module

Size/Weight

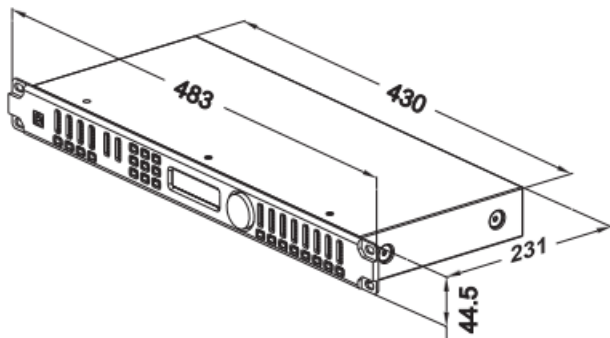
Product Contour Size 482x231x44.5 (1U)

Outer Packing Size 560x345x105 (1U)

Total Weight 4.7 kg

Power Consumption <10W

Power 6.5A power wire. 100-240V —/50-60Hz ±10%



Cautions: SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

Warranty

Disclaimer

SAE Audio Co., Ltd. is not responsible for any damage of loudspeakers or other equipment caused by negligence or improper installation.

SAE Audio Co., Ltd. offers 2 years limited warranty for this product.

SAE Audio Co., Ltd. Guarantees that this product has no material defect during two years from the sales date; if the damage caused under the normal installation and operation, SAE Audio Co., Ltd. shall change the defective component and repair faulty product for free according to this Quality Guarantee Agreement. However, users must send the product to our factory or any authorized maintenance points or designated distributors, affording the re-paid freight, together with buying proof (including customer copy of product warranty card and payment receipt or invoice copy).

As per this Quality Guarantee Agreement, the returned product must be judged having manufacturing defect it self after our inspection. This agreement doesn't apply for products with damage caused by any wrong operation negligence, accident, inappropriate installation or products with no date code and sequence no or damaged ones beyond recognition.
SAE Audio Co., Ltd. shall not afford responsibility for any damage caused by accident or indirect factors. The agreement authorized you specific legal rights.

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Website: www.saeaudio.com

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Manufacturer: Sae Audio Co.,LTD.
Sae reserves the right to make changes in specifications and products without prior notice.



Documents / Resources

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