2 in 4 out

2 in 6 out
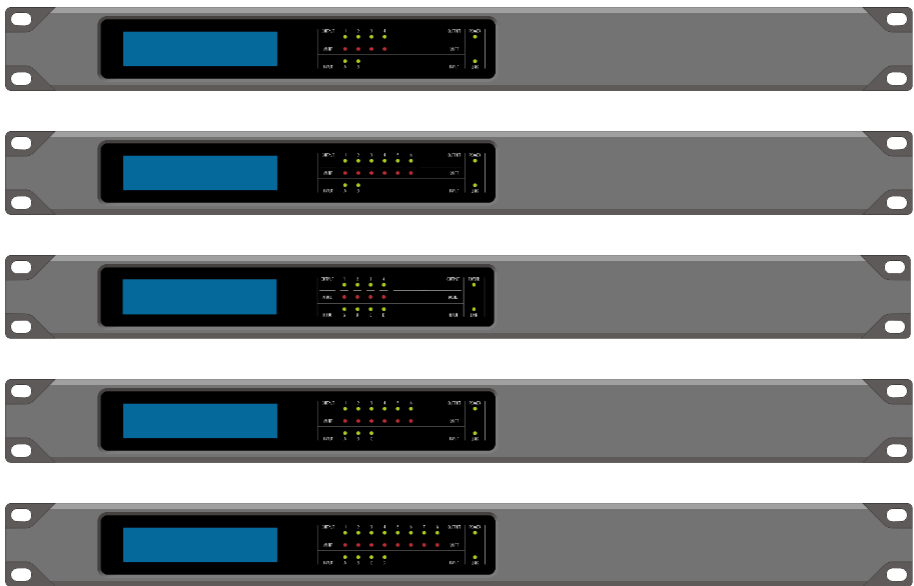
4 in 4 out

3 in 6 out

4 in 8 out

professional audio processor

Instructions for use

V1.1

## Table of contents

# Chapter 1 Introduction

Thank you for trusting and selecting our products! This device is a high-performance professional audio processor, and this series is equipped with a variety of different input and output options (2 in 4 out/2 in 6 out/3 in 6 out/4 in 8 out). Designed for high-quality sound augmentation medium and large professional places, it provides professional frequency division, EQ, compression limit, delay, signal generator, matrix mixing and other functions. The equipment is equipped with network port, RS-232, RS-485, and GPIO interfaces to achieve rapid configuration, remote debugging and monitoring.

## Application

- ☐ Meeting Room
- ☐ Court
- ☐ Auditorium
- ☐ Multi-functional hall
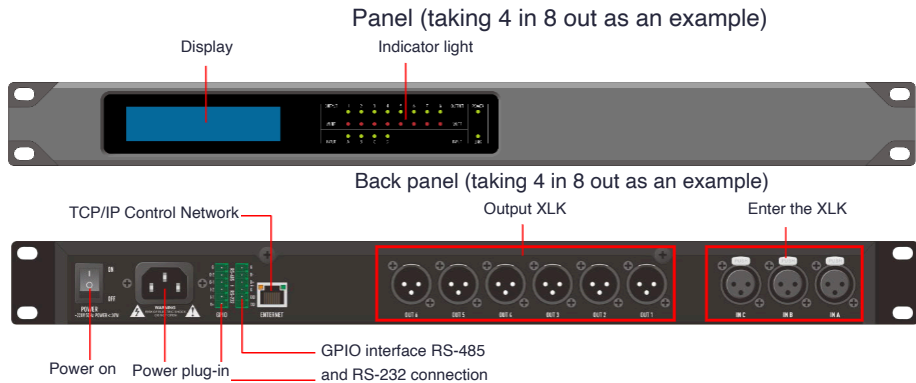- ☐ Performance

## Functional Features

- ☐ High-performance professional audio processor using DSP technology
- ☐ Provides 2 balanced inputs 4 balanced outputs (2 in and 4 out)
- ☐ Provides 2 balanced inputs 6 balanced outputs (2 in and 6 out)
- ☐ Provides 3 balanced inputs 6 balanced outputs (3 in and 6 out)
- ☐ Provides 4 balanced inputs 4 balanced outputs (4 in and 4 out)
- ☐ Provides 4 balanced inputs 8 balanced outputs (4 in and 8 out)
- ☐ Dividing, EQ, compressing limit, delay, signal generator, matrix mixing and other functions
- ☐ Input and output provides 7 segments of PEQ and high and low passes per channel
- ☐ Input and output provides delay settings up to 1000ms per channel
- ☐ Provides network port, RS-485, RS-232 and GPIO ports to achieve complete connection management functions
- ☐ Devices provide signal generators: sinusoidal, powder noise, white noise

# Chapter 2 Technical Parameters

| | |
|---|---|
| DSP chip signal processing | 32-bit fixed/floating-point DSP |
| Audio system delay | <1ms |
| Digital to analog conversion | 24-bit |
| Sampling rate | 48kHz |
| enter | |

| | |
|---|---|
| Input channel | 2 balanced inputs (2 in and 4 out/2 in and 6 out) / 3 balanced inputs (3 in and 6 out) / 4 balanced inputs (4 in and 8 out/4 in and 4 out/) |
| Audio interface | XLR |
| Input impedance | 10k |
| Maximum input level | 18dBu |
| Input channel delay | 0 ~ 1000ms per channel |
| Function | Noise gate, compressor |
| filter | HPF、LPF、7PEQs |
| Signal generator | Sine, pink noise, white noise |
| Output output interface | 4 balanced outputs (2 in and 4 out/4 in and 4 out) / 6 balanced outputs (2 in and 6 out/3 in and 6 out) / 8 balanced outputs (4 in and 8 out) |
| Audio interface | XLR |
| Output impedance | 100 |
| Maximum output level | +18dBu |
| Output channel delay | 0 ~ 1000ms per channel |
| Function | Compressor, limiter |
| filter | HPF、LPF、7PEQs |
| System frequency response | 20~20k Hz ±0.3dB |
| Total harmonic distortion | ＜ 0.003% Thd+N @1KHz |
| Dynamic range | 120 dB |
| Noise floor | ＜ -93db |
| Channel sound | ＜-100dB @1kHz |

Upper computer interface RJ-45
network port RS-232/RS-485 Phoenix Seat
GPIO port Phoenix Seat
display LCD2002
indicator light Power, Link, input and output audio signal, output sound disable
power supply requirements AC 220V-50Hz
size 482x44.5x265mm
Weight 3.5 kg
Operating temperature -10°C~+60°C

Chapter 3 Functional Structure

## Panel (taking 4 in 8 out as an example)

Display      Indicator light

## Back panel (taking 4 in 8 out as an example)

TCP/IP Control Network      Output XLK      Enter the XLK

GPIO interface RS-485
and RS-232 connection

Power on    Power plug-in

## Chapter 4 Introduction to the computer software

Equipment management software is a software that allows users to quickly interact with the parameters of one or more machines. It can store the configuration parameters of the machine into a disk file, providing a very convenient means for preset scenario configurations and parameters switching and restoration of multiple machines or different places of use. The operating environment is suitable for Windows systems of WIN7/WIN8/WIN10 x86/x64. The software requires Microsoft .NET Framework 4.5. The computer display resolution is not less than 1600*900. The software is green and there is no need to install the main program. Note: The software does not contain the Microsoft .NET Framework 4.5 line library. If it is not installed, please download and install it at the official Microsoft website. Software running
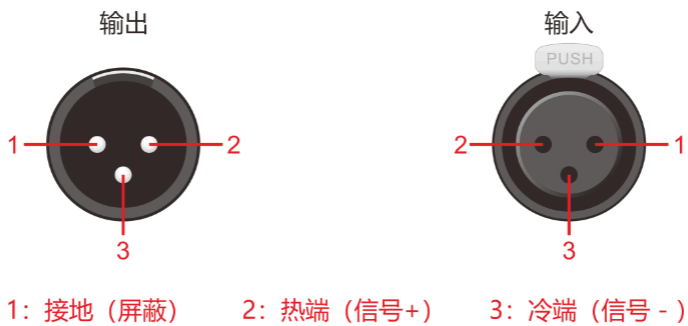
Operation steps: Double-click the executable file to enter the main software interface
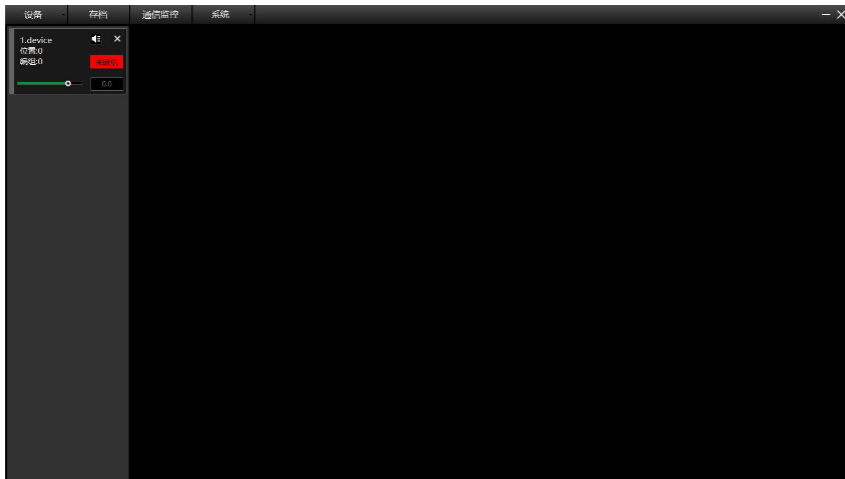
Note: It is not supported to enable multiple upper computers at the same time. Please keep at most one software for each PC.

## Chapter 5 Quick Use

1. Audio input and output connection



输出 输入

PUSH

1——————2 2——————1

3 3

1：接地（屏蔽） 2：热端（信号+） 3：冷端（信号－）

2. Note on the online computer: The software of the computer does not contain the Microsoft .NET Framework 4.5 library required to run. If the software cannot run, please download and install it at the official Microsoft website.

1. The device display screen will display the current device IP and MAC address.

2. After connecting the device with a network cable, the computer's IP address needs to be in the same network segment as the device's IP. If it is not in the same network segment, the IP address needs to be modified (for example, modify it to 192.168.1.33)

3. Run the upper computer software, and the software will automatically discover the device. Click the Connect key to enter device debugging.