

# Professional audio processor

## Instructions for use



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The company reserves the right to change products. If the product and related information are updated, it will not be notified in time. The product legend and appearance effects in this manual are for reference only, please refer to the actual product.

## 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/4 in 4 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 a network port, RS-485, and USB interface to achieve rapid configuration, remote debugging and monitoring.

### Application

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

### Functional Features

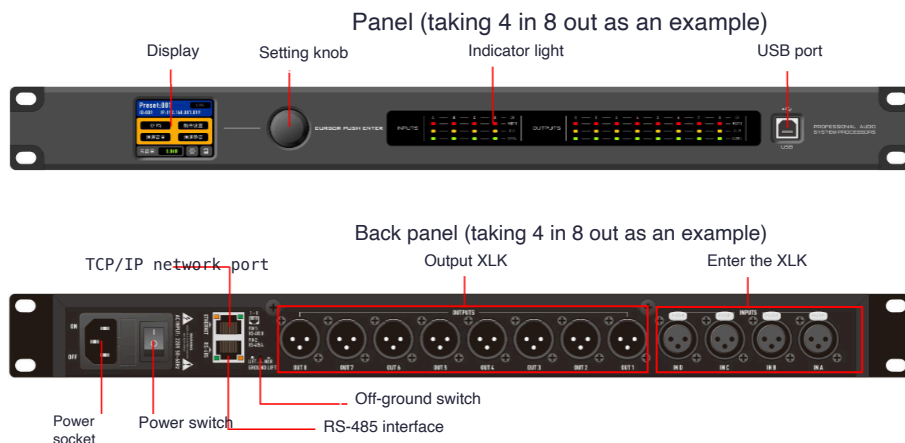
- ☐ High-performance professional audio processor using DSP technology
- ☐ Provides 2 balanced inputs 4 balanced outputs (2 in and 4 out)
- ☐ Provides 4 balanced inputs 4 balanced outputs (4 in and 4 out)
- ☐ Provides 3 balanced inputs 6 balanced outputs (3 in and 6 out)
- ☐ Provides 4 balanced inputs 4 balanced outputs (4 in and 4 out)
- ☐ Provides 4 balanced inputs 8 balanced outputs (4 in and 8 out)
- ☐ Dividing, EQ, compression limit, delay, signal generator, matrix mixing and other functions
- ☐ Input and output provides 10 segments of PEQ and high and low passes per channel
- ☐ Input and output provides delay settings up to 500ms per channel
- ☐ Provides network port, RS-485, and USB port to achieve complete connection management functions
- ☐ Devices provide signal generators: sinusoidal, pink noise, white noise
- ☐ Uses 1.77-inch IPS true color screen

## Chapter 2 Technical Parameters

DSP chip signal	
processing	32-bit fixed/floating-point DSP
Audio system delay	<2ms
Digital to analog conversion	24-bit
Sampling rate	48kHz

Input input	
channel	2 balanced inputs (2 in and 4 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	14dBu
Input channel delay	0 ~ 500ms 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	+14dBu
Output channel delay	0 ~ 500ms per channel
Function	Compressor, limiter
filter	HPF、LPF、10PEQs
System frequency	
response	20 ~ 20k Hz $\pm$ 1db
Total harmonic distortion	< 0.003% Thd+N @1KHz
Signal-to-noise ratio	112 dB@A, 110 dB@ does not count for power
Noise floor	< -93db
Channel sound	< -100dB @1kHz
Upper computer interface	RJ-45 network port, USB port
RS-485	RJ-45
Display	1.77-inch IPS color screen
Indicator light	Input and output audio signals, output sound disables, CLIP
Power requirements	AC 220V-50Hz
size	482x44.5x265mm
weight	3.5 kg
Operating temperature	-10 °C ~+60 °C

## Chapter 3 Functional Structure



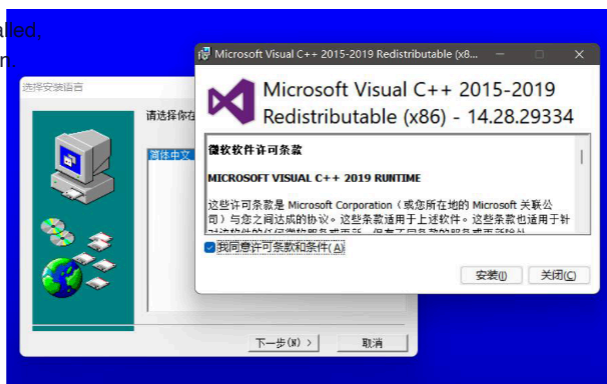
## Chapter 4 Introduction to computer software

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. C++2019 is required for software operation. The computer display resolution is no less than 1366\*768.

Software installation

Operation steps: Double-click the execution file to enter the software installation interface. Note: Please right-click on the execution file and select "Run as administrator".

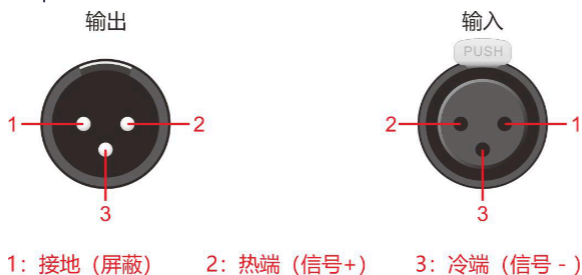
If C++2019 is not installed,  
agree to the installation



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## Chapter 5 Quick Use

### 1. Audio input and output connection



### 2. Use the USB data cable to connect the panel USB port and PC.

Select the serial port in the online option of the upper computer.



#### Online port

1. The device display will display the current device IP 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 select Network in the upper computer online option.

