



# DSP DIGITAL AMPLIFIER

PD 300/PD 300 Dante



## Usermanual



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## Chapter 1 Introduction

This is a DSP digital amplifier of 4\*450W@4Ω / 4\*300W@8Ω, Bridge 2\*900W@8Ω , support constant pressure 70V/100V(900W@10Ω). It can monitor the status of amplifier and adjust the function of DSP in real time and remotely. DSP functions of built-in: noise gate, matrix mixer, PEQ, crossover, delay, compressor etc. Support 4 channels Dante Network audio, suitable for various environments.

### Applications

Meeting Room

Medium/Big conference room

School

Restaurant

Shopping mall

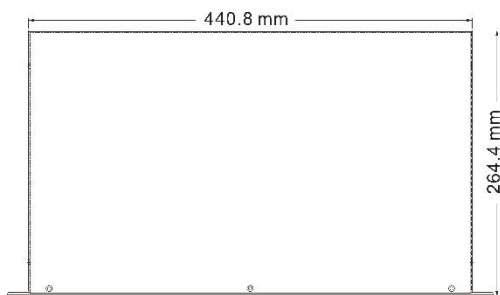
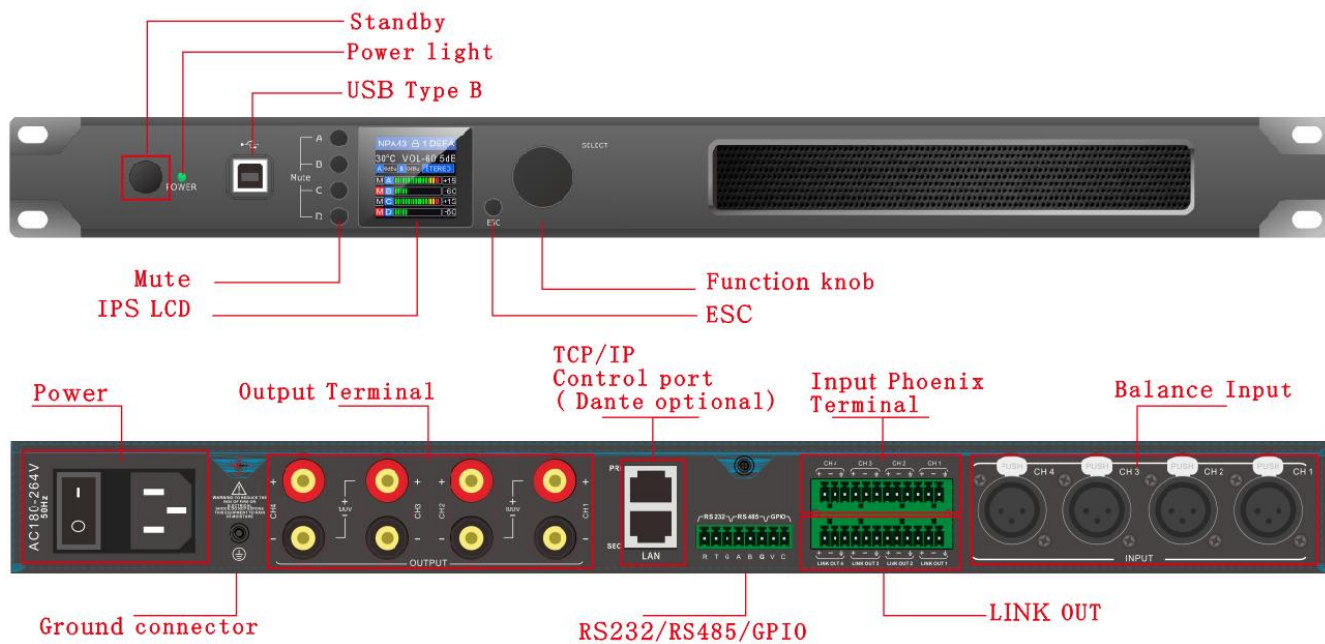
### Features

- ▲ Optional 4-channel Dante network audio input
- ▲ 0dBu/6dBu sensitivity adjustment for each input
- ▲ Remote standby, call amplifier
- ▲ Colorful IPS LCD display
- ▲ Support balanced XLR input and unbalanced RCA input
- ▲ Support software select working mode: stereo, bridge, mono, free matrix
- ▲ Control interface: USB and RJ45 by TCPIP protocol, configuring RS232, RS485 central control interface.
- ▲ Support Mconsole software
- ▲ Support Constant Pressure and Resistance : 100V, 70V, 8Ω, 4Ω
- ▲ Standard FIR phase correction function, input channel 4\*1024 Taps, output channel 4\*1024 Taps

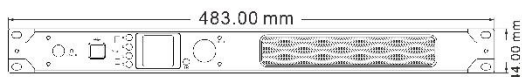
## Chapter 2 Technical parameters

Input PEQ	15 PEQS
Output PEQ	10 PEQS
Crossover	Butterworth、Bessel、Linkwitz 6~24
Output Delay	Input Delay:2*100ms / Output Delay:4*20ms
Output Compressor	Knee, Threshold, Attack, Ratio, Release
Output Limiter	Threshold-90dBu~21dBu、Release 1~2895ms
DSP Presets	30 (one for factory preset)
Control port	TCP/IP、USB、RS485、RS232
Network	2*RJ45, TCP/IP、1000base-T/100base-TX
Channel	4
Power	4*300W@8Ω 4*450W@4Ω
Bridge Power	2*900W@8Ω
Input Interface	Balance 4*XLR; Unbalance 4*RCA
Output Interface	4*Terminal
Cooling Mode	2*fans intelligent control
Gain	6dBu: 30dB (29.5 times) ; 0dBu: 36dB (31.1 times)
Maximum Input Level	6dB: 16dBu (4.9V)
SNR	6dBu: 94dB; 0dBu: 94dB
Frequency Response	20Hz ~ 20kHz (±0.5dB)@1W, 8Ω
THD+N	<0.1%@1W-full power
Sample Rate	48K/24bit
Channel Isolation	<-70dB
Work Mode	Stereo, Bridge, Mono, free Matrix
Remote Control	Standby、Call, DSP functions
Amplifier Monitor	Temperature、Power、Current and Voltage
Constant Pressure and Resistance	100V、70V、8Ω、4Ω
DANTE (Optional)	4 channels
Display	320x320pixel、IPS LCD
Protection Mode	DSP limiter、High temperature, DC, high frequency, short circuit, back EMF, peak current limiter、Back EMF、Surge current limiter, startup delay, power circuit breaker protection, power over voltage / under voltage protection
PC Software	Mconsole
Weight	4kg
Size	483*300*44.5
Power Supply	110~264VAC

# Chapter 3 Functional Structure



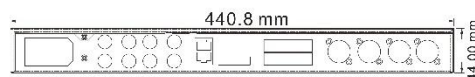
TOP VIEW



FRONT VIEW



RIGHT VIEW

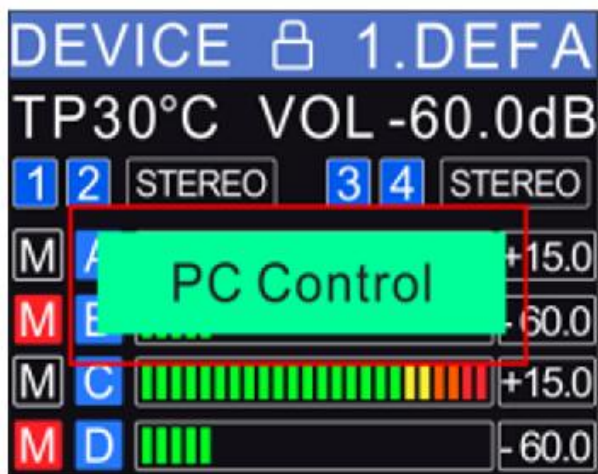
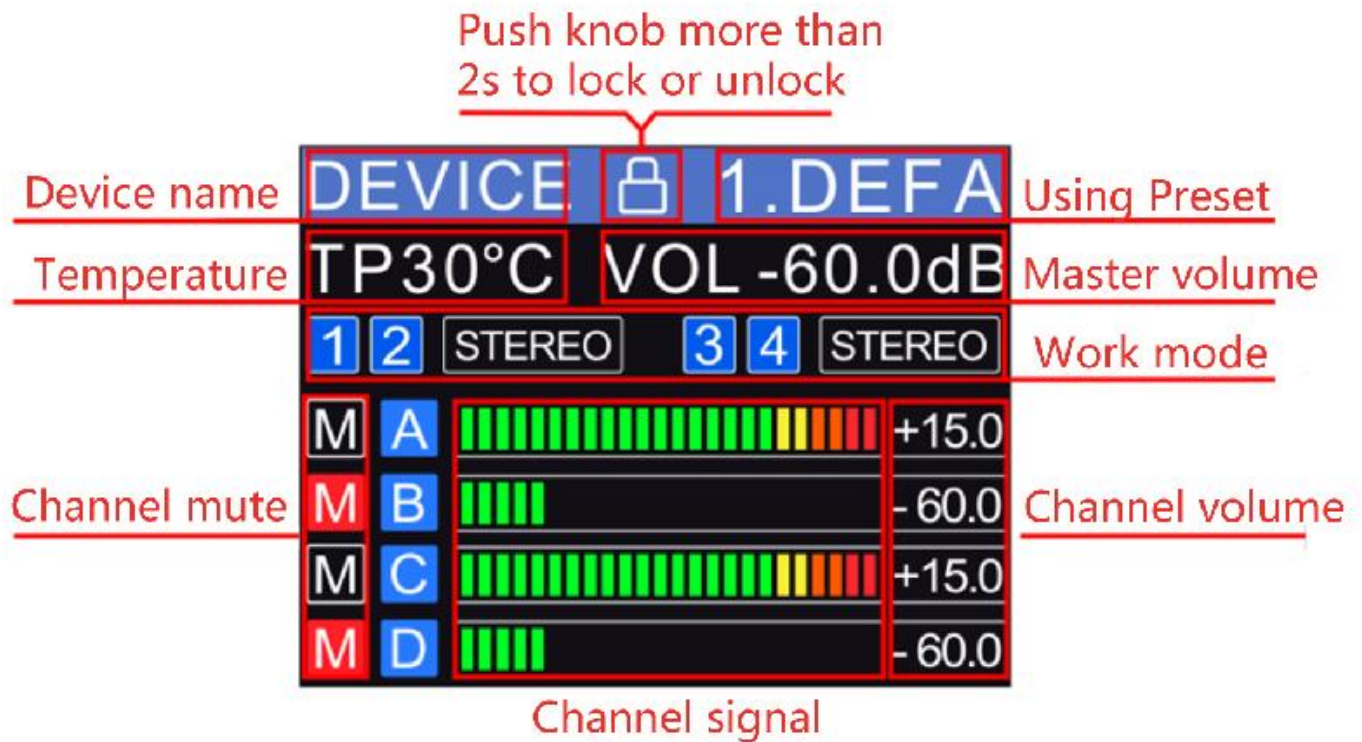


BACK VIEW

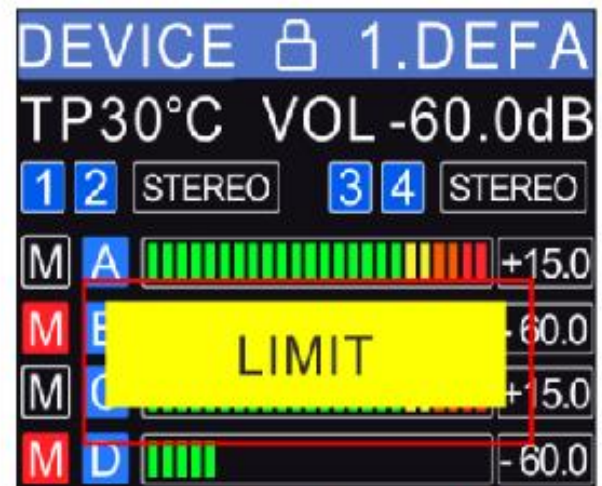
## Structure

### 3.1 Display interface

#### 3.1.1 Main page

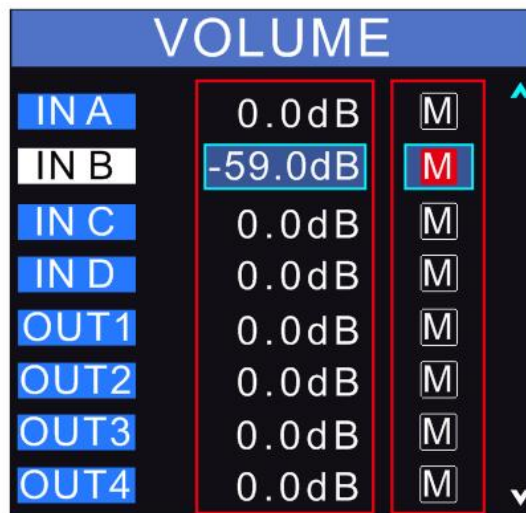
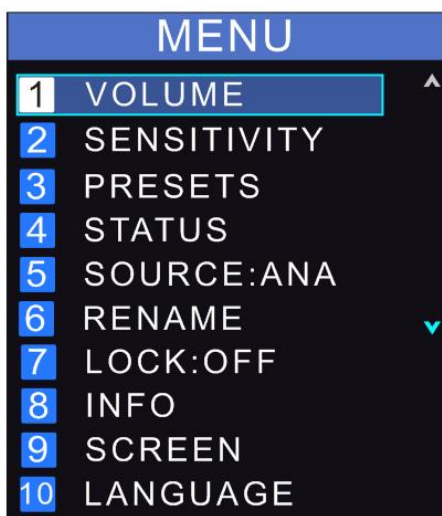


software connected

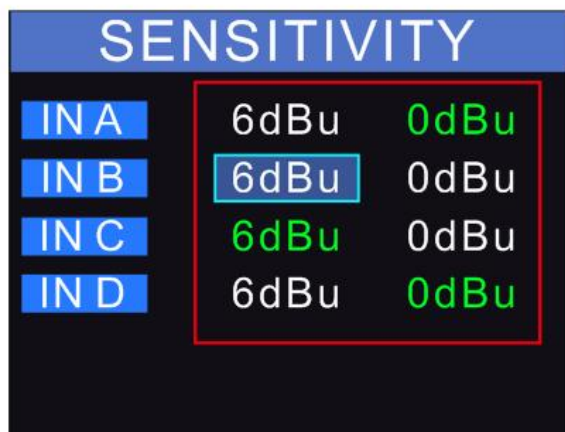


Output limiter working

### 3.1.2 Menu page



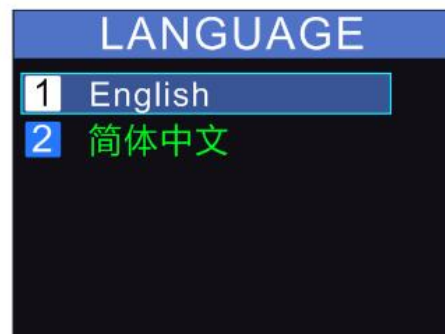
Volume Mute

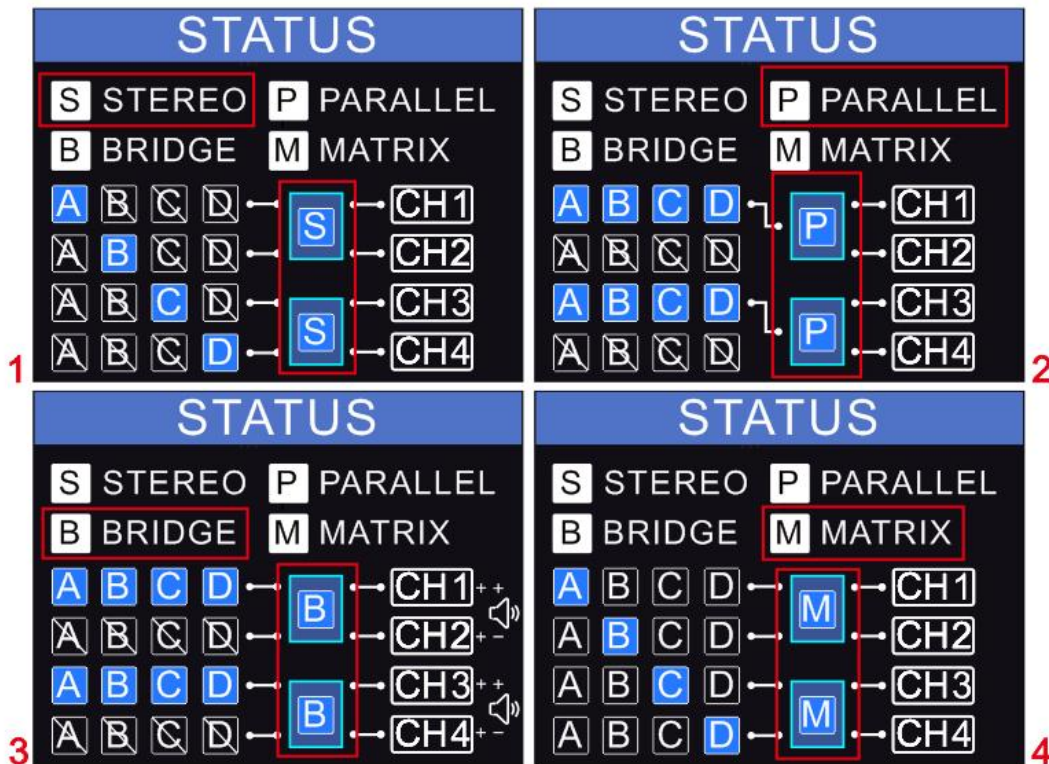


Two steps sensitivity



Preset loading





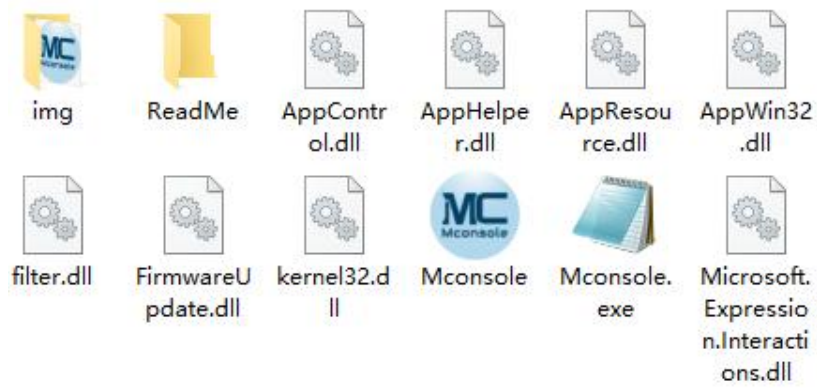
## Chapter 4: Software Introduction

Mconsole is a software for users to quickly interact with the parameters of one or more machines. It can store the configuration parameters of the device in a disk file to configure and parameter preset scenes for multiple machines or different places of use. This provides users with its convenient switching and restoring. This product has high execution efficiency and clear interface structure. The UI of this product adopts a self-developed control library, and can be customized and modified according to the needs of customers, which enhances the user experience.

## Chapter 5: Software Installation

### 5.1 Operating environment

The software is suitable for WIN7/WIN8/WIN10 x86/x64 operating system with Microsoft .NET Framework 4.0 runtime.



## 5.2 Software installation

This software is a green version, the green version of the software does not need to install the main program, the folder contains the following files or folders, all of which are indispensable. The green version of the software does not include the Microsoft .NET Framework 4.0 runtime. If necessary, please download and install it from the official Microsoft website.

## 5.3 Software operating

Steps: Double-click the executable file in the folder to enter the software theme interface as shown in Figure 5.1.



Precautions:

Some connection methods do not support multiple host computers to be turned on at the same time. Please keep at most one software for each PC.

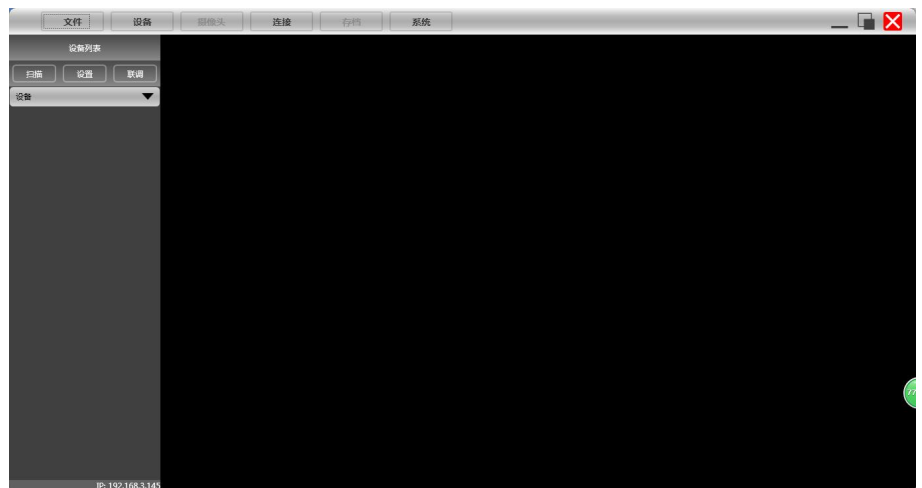


Figure 5.1

# Chapter 6 Software Interface Description

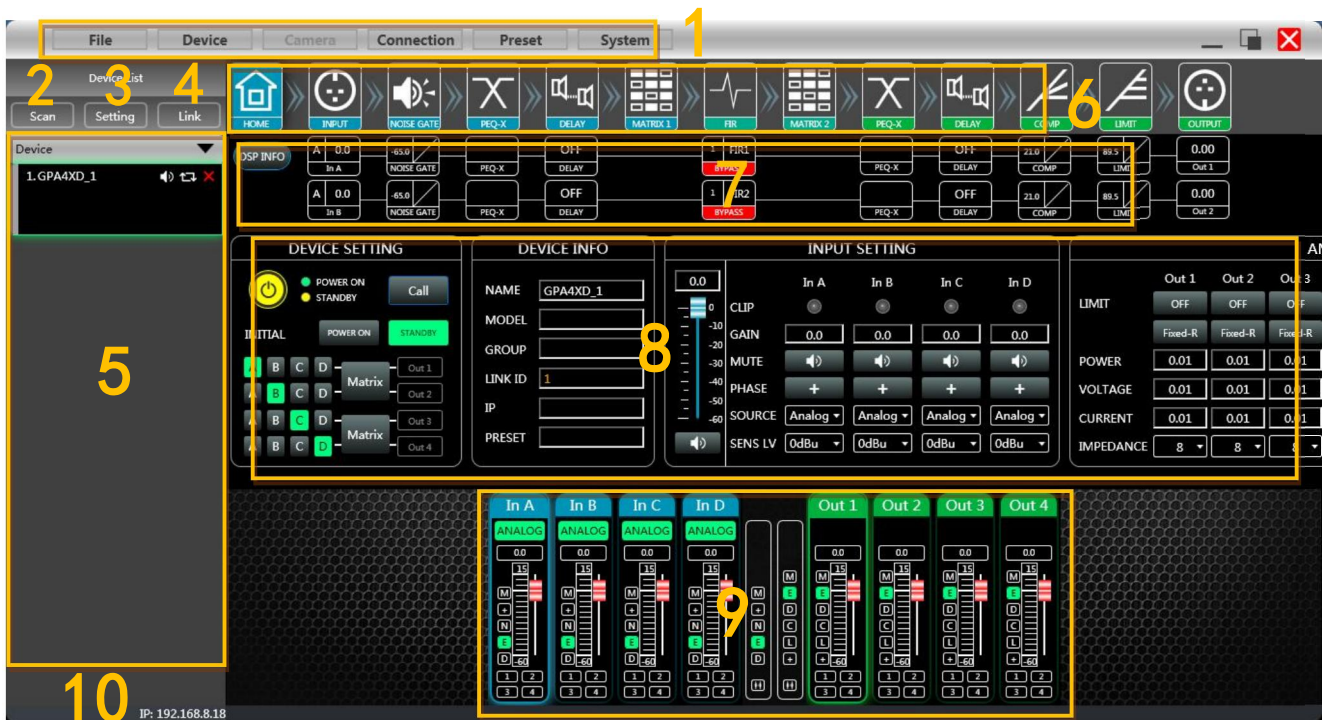


Figure 6.1

As shown in Figure 6.1, main screen all parts in yellow corresponding position as follows:

- (1) Menu bar
- (2) Scan button
- (3) Setting button
- (4) Link button
- (5) Device list
- (6) Module button
- (7) Homepage monitor area
- (8) Module function interface
- (9) List of input and output channels
- (10) IP address in this machine




## 6.1 Initial interface

Device setting



Figure 6.1.1



1. Shown in Figure 6.1.1, click  , the device can be switched of POWER ON or STANDBY, green means POWER the ON state, yellow means STANDBY state.
2. Click  , you can make the display screen and status light of the connected device flash, and you can quickly find the connected device from the power amplifier device stack.
3. Initial power on state can be selected.  , After selecting, it will be directly switched to the selected state after the hard switch is turned on.
4. Click the button in the frame to quickly switch the routing status. There are 4 options available: stereo, parallel, bridge, and matrix.

### 6.1.1 Device info

1. As shown in Figure 6.1.2, the device name, group, and IP can be modified in the upper left corner of the initial interface, and then "device"- "devices", information can be changed according to actual needs.
2. The device model and LINK ID cannot be changed. The LINK ID is the corresponding ID when the host computer is connected to multiple devices:
3. Preset name is the name of the currently used preset.

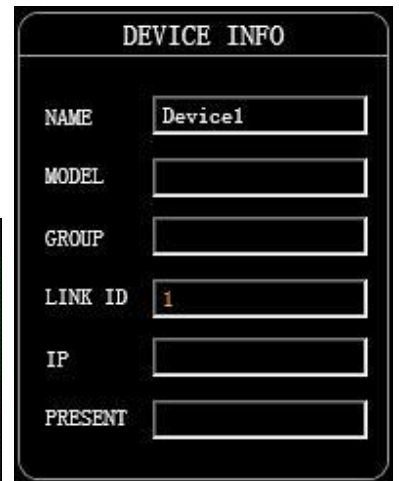


Figure 6.1.2

### 6.1.2 Input setting

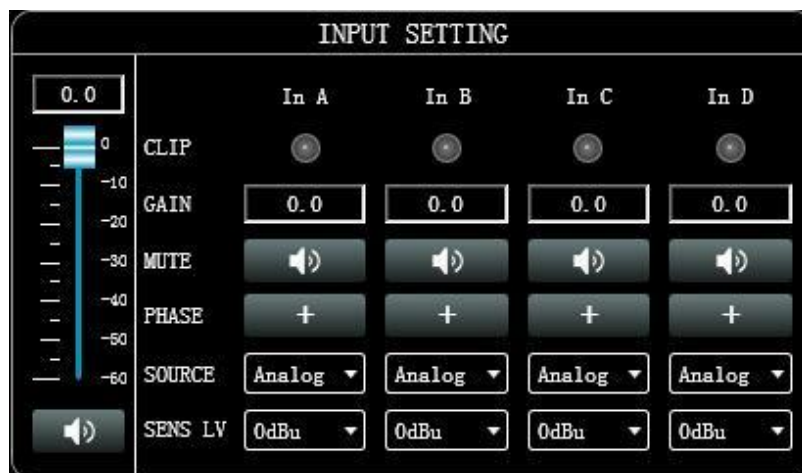







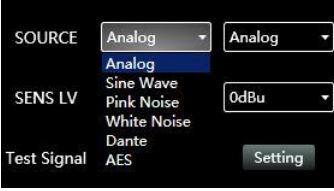
Figure 6.1.3



1. As shown in Figure 6.1.3,  is the total volume push button, you can use the mouse to drag, or you can directly enter the exact value in the input box .  is the mute button.

2. When the input is overloaded, the indicator light will light up as follows .

3. You can quickly set the gain, mute, and phase .




4. Multiple input sources are available .

5. Support 0dBu, 6dBu two level sensitivity switch .

### 6.1.3 Amplifier status

AMP STATUS								
	Out 1	Out 2	Out 3	Out 4	Out 1	Out 2	Out 3	Out 4
LIMIT	ON	ON	ON	ON	●	●	●	●
	Fixed-R	Fixed-R	Fixed-R	Fixed-R	0.00	0.00	0.00	0.00 °C
POWER	0.01	0.01	0.01	0.01				W
VOLTAGE	0.01	0.01	0.01	0.01				V
CURRENT	0.01	0.01	0.01	0.01				A
IMPEDANCE	8	8	8	8				Ω

Figure 6.1.4

As shown in Figure 6.1.4,  you can choose according to your needs. When the limiter is in the on-control state, the overload light will light up.  

## 6.2 Menu bar

### 6.2.1 File

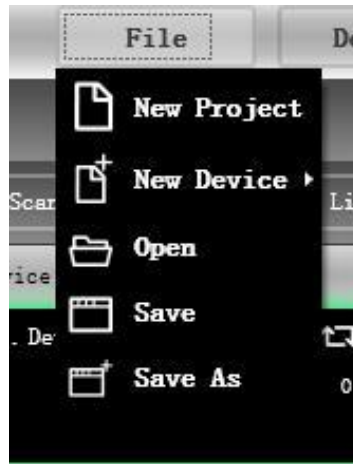


Figure 6.2.1 File menu

As shown in Figure 6.2.1 "File" menu:

**New Project:** the software can create a model of demo device in this menu when the device is not connected.

**New Device:** increase simulation equipment, simulation equipment will not affect the existing equipment.

**Open:** open an existing device management project from the computer disk.

**Save:** save the current device management project in the computer disk.

**Save as:** save the current equipment management project as a file.

### 6.2.2 Device



Figure 6.2.2 Device menu

As shown in Figure 6.2.2 Device menu:

**Devices:** view or modify the upper and lower computer software information, device name and device IP address of the device.

**Channels:** set the name of each input and output channel.

**Channel copy:** copy the parameters of the same type of channel.

### 6.2.3 Connection



Figure 6.2.3 Connection menu

As shown in Figure 2.5 "Connect" menu:

**Port:** set the connection mode, port number and baud rate.

**Connect:** connect and download the device parameters.

**Disconnect:** disconnect the connected device.

**Connect all devices:** connect and download the device parameters of all devices in the device list.

**Disconnect all devices:** disconnect all connected devices in the device list.

### 6.2.4 Preset

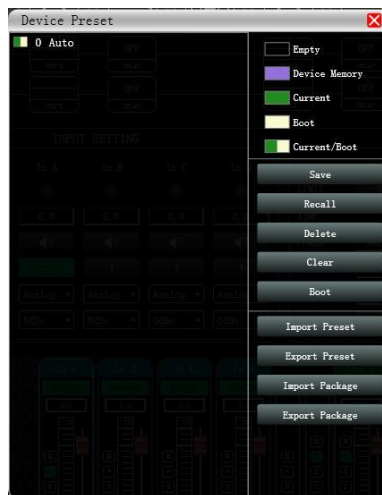


Figure 6.2.4 Preset menu

As shown in Figure 6.2.4 Device preset:

**Save:** select the saved gear and save all the current parameters of the device to the preset.

**Recall:** call the existing preset in the device.

**Delete:** delete existing preset, default presets cannot be deleted or overwritten.

**Clear:** delete all presets in the device.

**Boot:** select a certain preset, after set to boot file, each time the device is powered on, the preset parameter is automatically called.

**Import Preset:** import a single preset file from the computer.

**Export Preset:** export all the parameters of the current state to the computer, and generate a single preset file.

**Import Package:** import multiple preset package files from the computer.

**Export Package:** pack multiple presets in the device archive into one preset package and export to the computer to generate the preset package file.

### 6.2.5 System

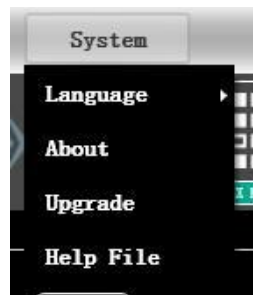


Figure 6.2.5 System menu

As shown in Figure 6.2.5 "System" menu:

**Language:** multi-language switching.

**About:** the current host computer and device version information.

**Upgrade:** upgrade the firmware of the device.

**Help File:**

### 6.3 Scan

As shown in the following figure 6.2.6 progress display box, click the "Scan" button to directly scan all devices in the currently set connection mode, and display the scanning progress.



Figure 6.2.6 Progress display box

### 6.4 Setting

Set the connection mode of the scanning device, click the "Settings" button, and the port connection interface as shown in Figure 6.2.7 will pop up, select the corresponding mode, set the corresponding parameters and confirm. If the device port changes, click "Refresh" in the lower left corner "Button instantly updates the port list.



Figure 6.2.7 Port connection interface

## 6.5 Link

To set the parameters of multiple devices at the same time, click the "Link" button, and the network link interface as shown in Figure 6.2.8 will pop up. Select the device that needs to be set at the same time in the left frame, move to the link group in the middle frame, and then select the grouping setting parameters on the right, finally press the "OK" button to make the grouping function effective. You can also use the same operation to correct the network grouping settings.

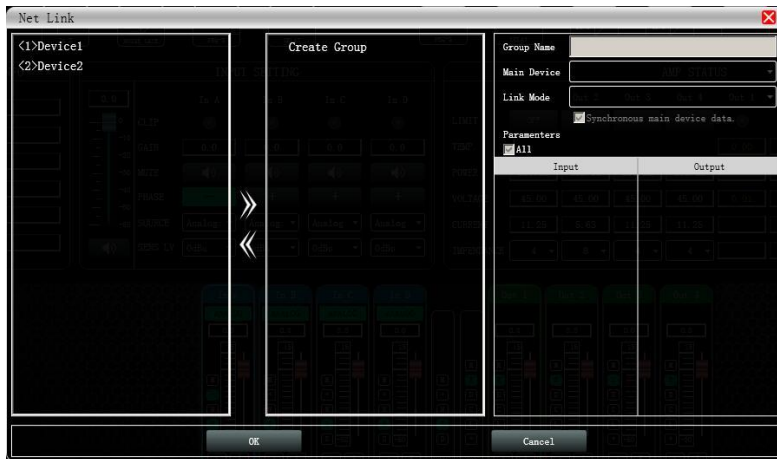


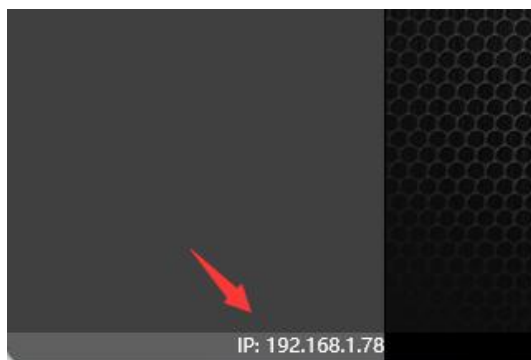
Figure 6.2.8 Net link interface

## 6.6 Device List



When the software scans or manually adds a new analog device, it will automatically add the corresponding device to the device list, which is convenient for the user to interact with the required device and to operate multiple devices at the same time.

## 6.7 Local IP address



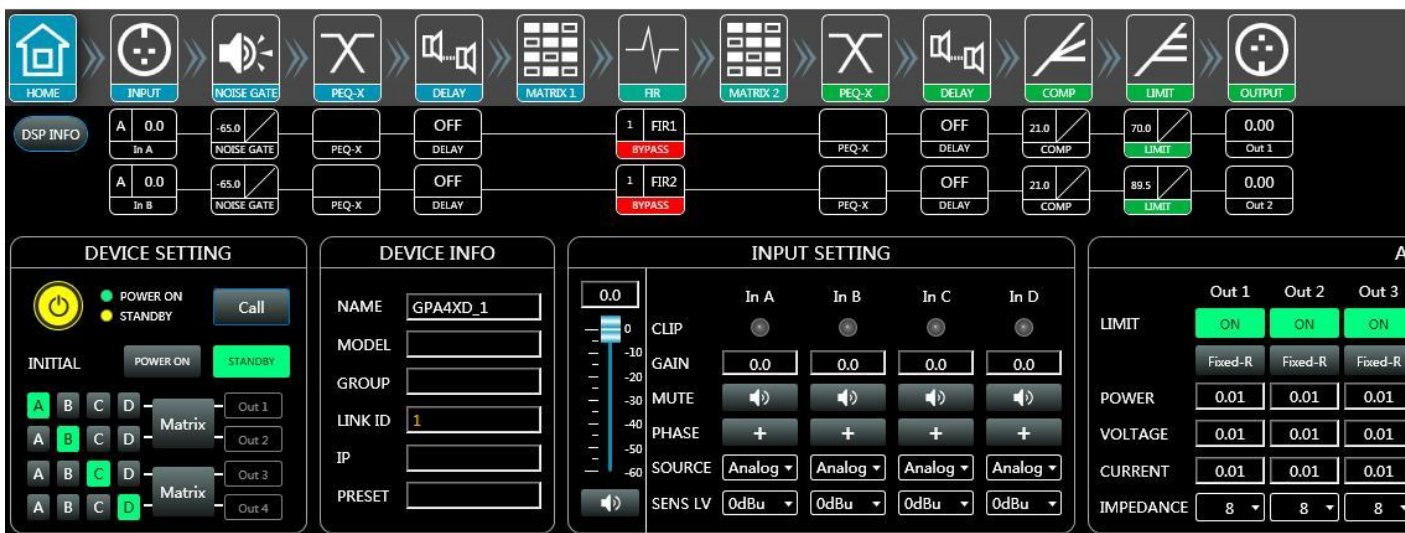
When the software is opened, it will automatically obtain the IP address of the network connection corresponding to the network adapter of the current computer system, and display it in the lower left corner of the software to facilitate the management of the device IP address.

### 6.8 Function module control button



In order to facilitate the interaction of different parameters of the device, the software is divided into multiple modules according to the order of function. If the user wants to operate the corresponding module, he can use this module control key to open, close, and locate the module interface. Double-click to open/close the module interface. Click for positioning.

### 6.9 Function module interface

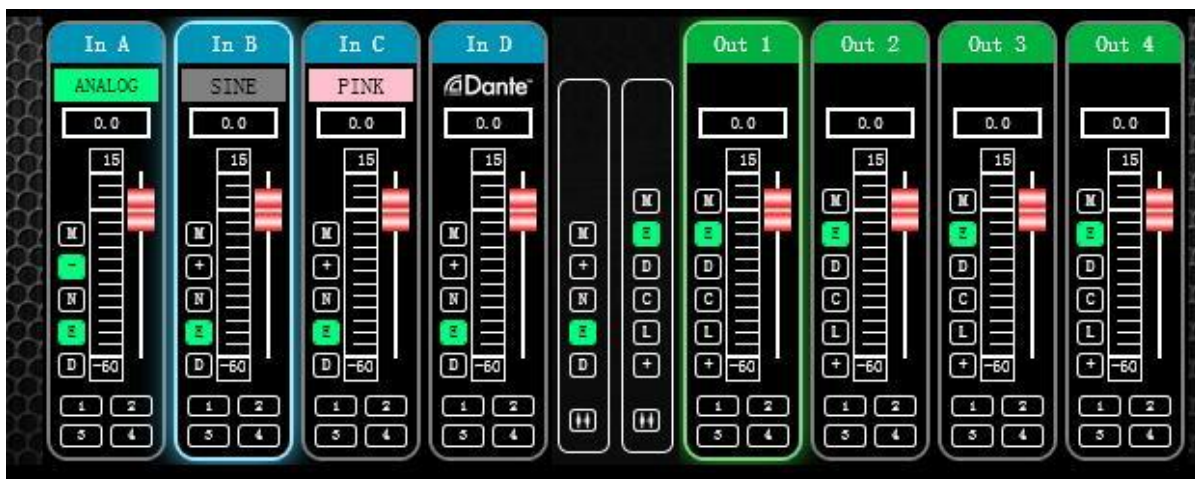


Each function module is opened and closed by the control key, and the function page and detailed parameters are displayed, and detailed settings can be made, and single or multiple functions can be operated freely. You can drag left and right to switch pages with different functions.

### 6.10 List of input and output channels

It can display the level, gain, input mode, channel name and other information of each channel, control the

corresponding channel gain, DSP function master switch, and turn on the input and output channel grouping joint adjustment function to achieve more powerful operation convenience.



## Chapter 7 Introduce of function interface

### 7.1 Interface of input channel module



Double-click in the module button, and the following figure 7.1 channel input module will pop up.

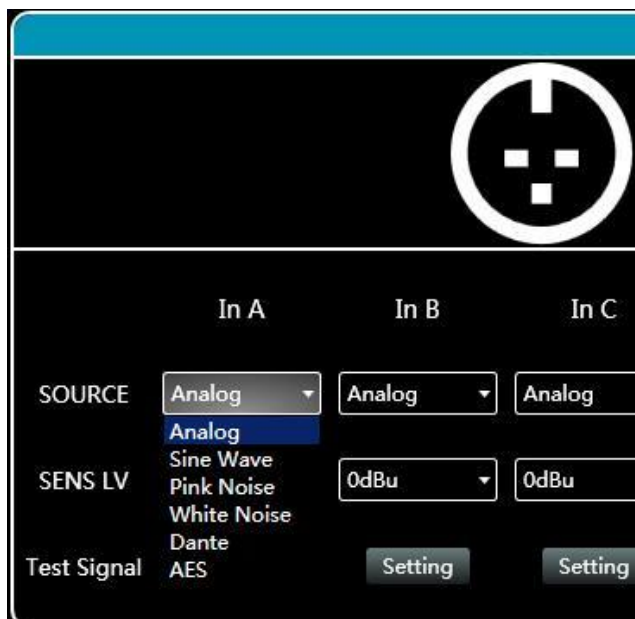


Figure 7.1 input channel module

As shown in Figure 7.1, you can operate the polarity, mute, and input source sensitivity in the corresponding input channel;

In the sensitivity setting, you can choose between 0dBu and 6dBu two gears

## 7.2 Test signal function



Select sine wave, pink noise, white noise in the input source, and then set the corresponding parameters in the test signal settings according to your requirements to test the channel.



In the test signal generation setting, the three test signals can be set to generate the corresponding gain value of the test signal. The switch button on the right side of each test signal can control whether the test signal is effective. Green is on, red is off, and you can set frequency of sine wave.

## 7.3 Input channel noise gate



Double-click noise gate button, the figure 7.2 below input channel noise gate setting module pops up.

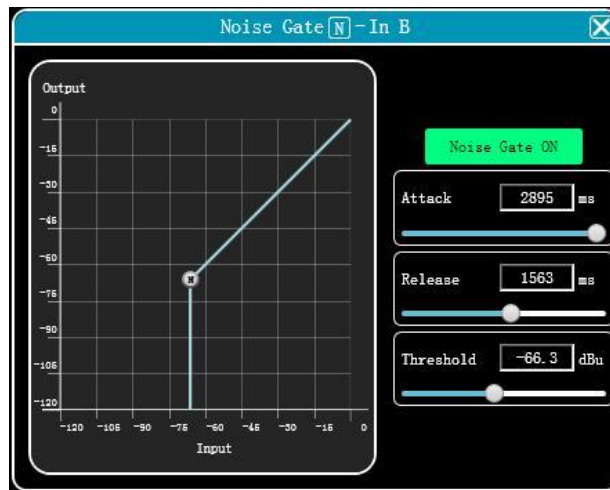
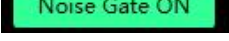





Figure 7.2 input noise gate setting module


As shown in Figure 7.2 above, click the noise gate switch  in the upper right corner to turn on or off the noise gate function of the channel input signal. The green is on, the red is off. The attack time, release time, and threshold level are the parameter corresponding to the noise gate. You can drag the slide bar  or enter the corresponding value in the value box .

When the noise gate function is turned on, the point  in the graph on the left can be dragged diagonally to adjust the value.

#### 7.4 Input channel PEQ



Double-click in the module button  to pop up the input equalizer setting module as shown in Figure 7.3. The

button in the upper right corner  of the module can magnify this module, and the interface display will be clearer after magnification.

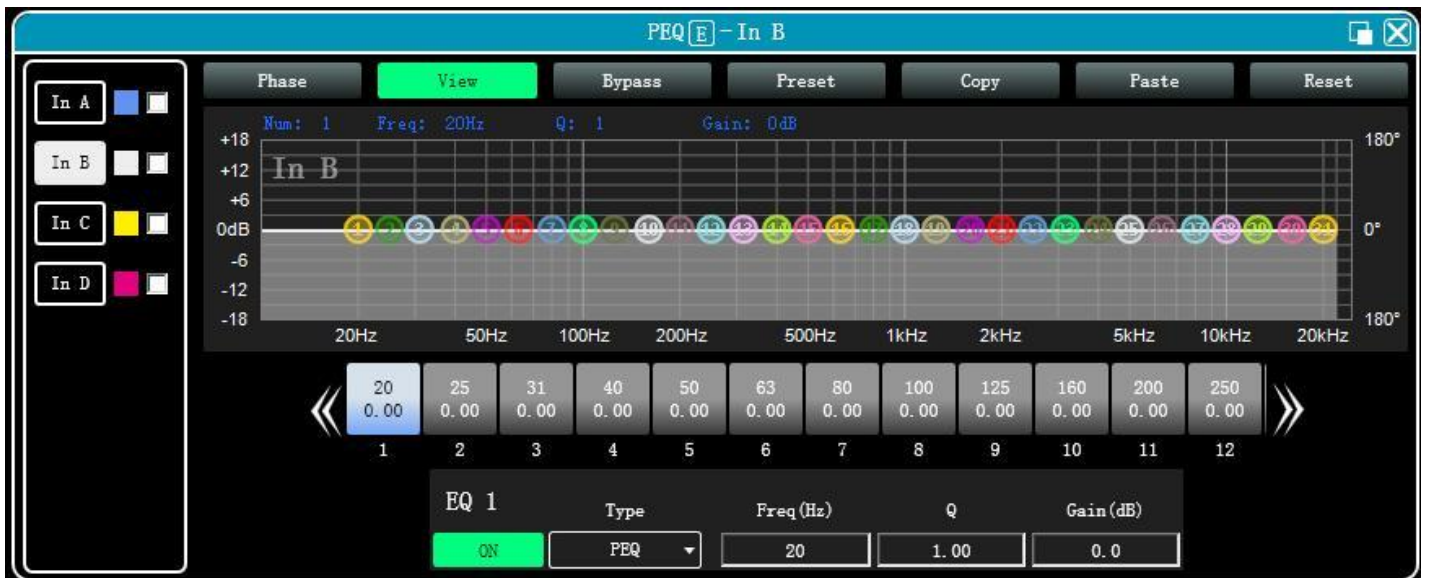


Figure 7.3 Input PEQ setting module

#### 7.4.1 Function button

As shown in Figure 7.3 above, the functions of the top buttons are:

**Phase curve:** display the phase curve of the current channel.

**Show control points:** show or hide all balance control points.

**Full bypass:** turn on or off all equalizer EQ of the current channel at the same time

**EQ preset:** save the current equalizer setting parameters to the computer, and recall and overwrite the existing equalizer parameters.

**Copy:** copy the current equalizer parameter value and paste it into other input channels.

**Paste:** used in combination with the copy button to paste the equalizer parameter values copied by the copy function to the current channel.

**Reset:** reset the equalizer parameters to the default parameter values.

#### 7.4.2 Multi-channel EQ curve display

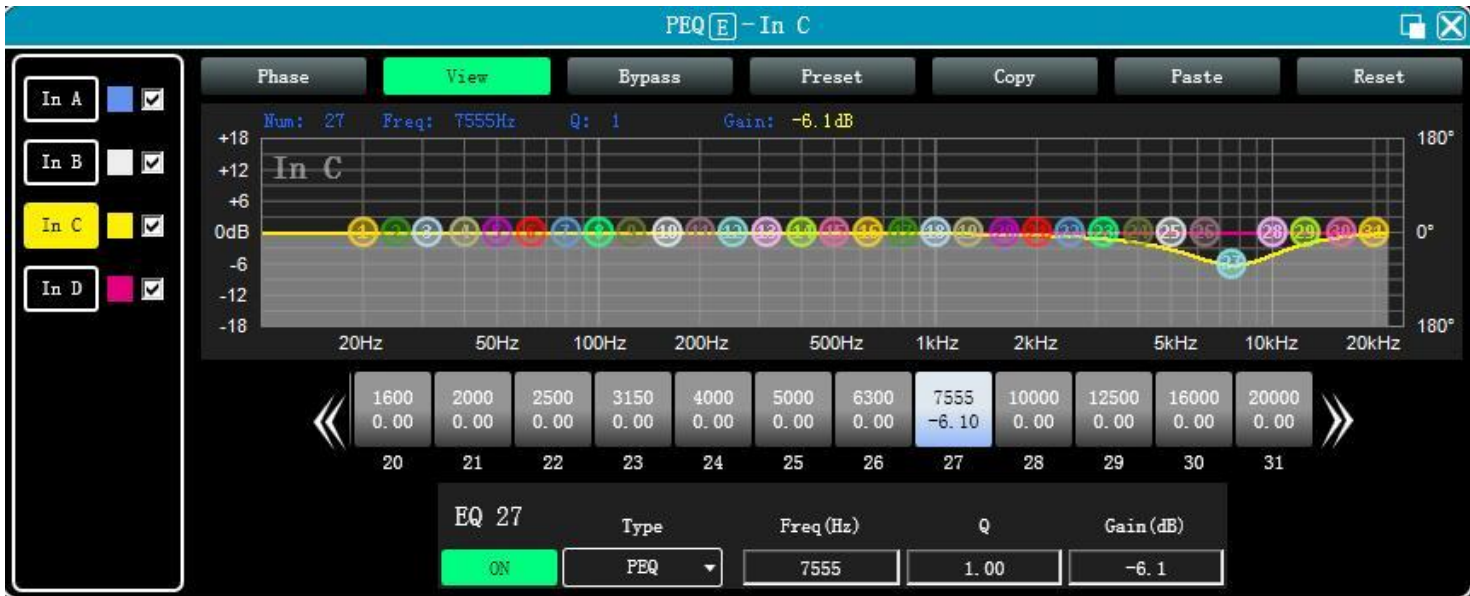
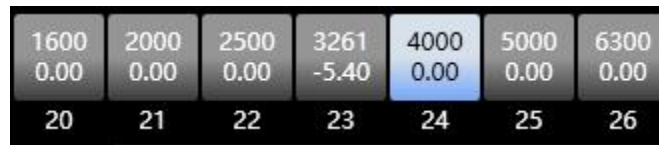


Figure 7.4.1

As shown in Figure 7.4.1, on the left is the EQ curve display switch of each channel. When it is turned on, the curve of the corresponding channel will be drawn in the EQ curve chart.

#### 7.4.3 EQ control



As shown in Figure 7.4.1, under the curve chart, all EQ controls and their detailed values are displayed, which can be used to locate the position of the controls. Combined with the following EQ parameter adjustment items, the parameter value of each EQ can be precisely adjusted.

#### 7.4.4 EQ parameter adjustment item



As shown in Figure 7.4.1 above, below the EQ control is the EQ parameter adjustment item, which can precisely control the EQ switch, type, frequency, Q value, gain and other parameters.

#### 7.4.5 EQ preset button

As shown in Figure 7.4.1 above, when you click the EQ preset button, the following interface will pop up as figure 7.4.2.



Figure 7.4.2 EQ Preset

Select the item corresponding to the gear list on the left, and then click the function button on the right to realize the archive, call, delete, and rename functions of the equalizer setting parameters.

## 7.5 Matrix mix



Double-click in the module button, the following Figure 7.5 matrix mixing setting module will pop up.

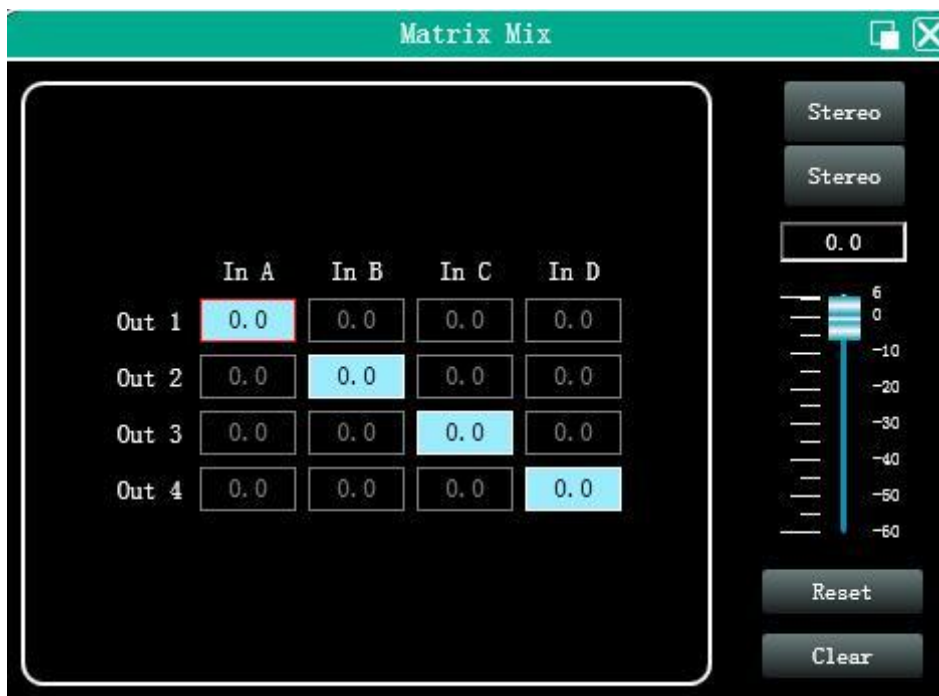


Figure 7.5 Matrix Mix setting module

In the above figure, the left side corresponds to the output channel, and the upper side corresponds to the input channel. The numerical value box with the value is the input and output channel mixing key. When the mixing key is lit (double-click the value box to switch the state), the input channel and the output channel signal realizes the mixing

function.

The right part of the above figure contains the gain, reset button, and clear button of the matrix mix. Click the value box on the left, and then drag the sliding block of the matrix mix gain or enter a value in the value box to adjust the matrix block. Click the reset button to reset the matrix mixing function to the initial one-to-one state; click the clear button to clear all the matrix mixing functions, and there is no correspondence between the input and output of the device.

### 7.6 Output PEQ




Double-click the module button , and the module interface of the output equalizer setting module will pop up.

The function and operation method are the same as the 7.5 input equalizer.

### 7.7 Output delay



Double-click the module button , the module interface of the output delay setting module will pop up.

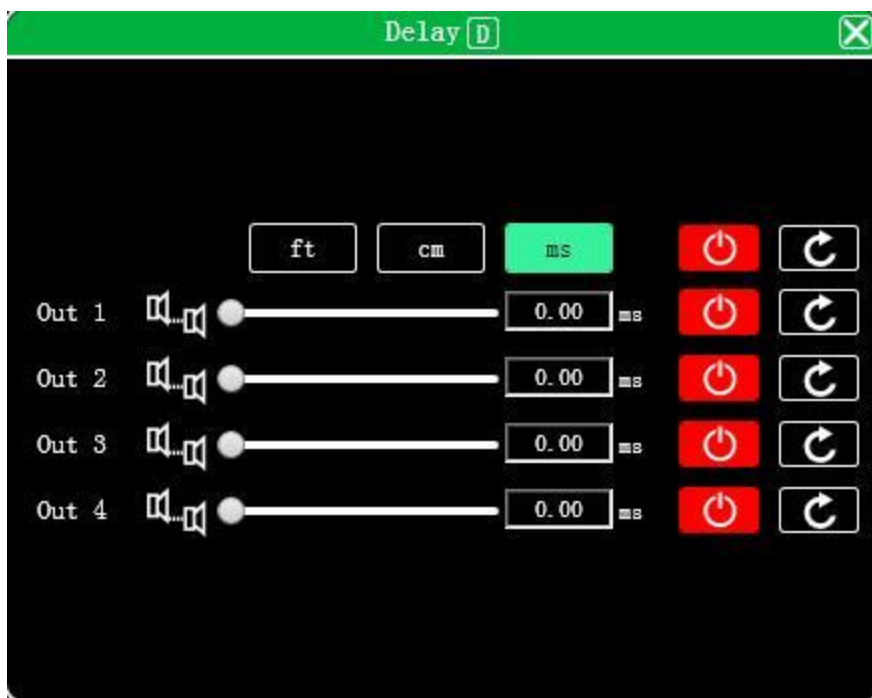



Figure 7.6 Output delay setting module

As shown in Figure 7.6 above, the delay control content of all output channels is listed. Drag the slider on the



left to intuitively adjust the delay value of the corresponding channel, or enter the

corresponding value in the value box **6.55 ms**, and the delay function is on the right. Switch, red is off, green is on,

the reset button  on the far right can directly reset the default value of the channel delay.

Note: ft = inches, cm = centimeters, ms = milliseconds

### 7.8 Output compressor



Double-click in the module button, the following Figure 7.7 output compressor setting module will pop up.

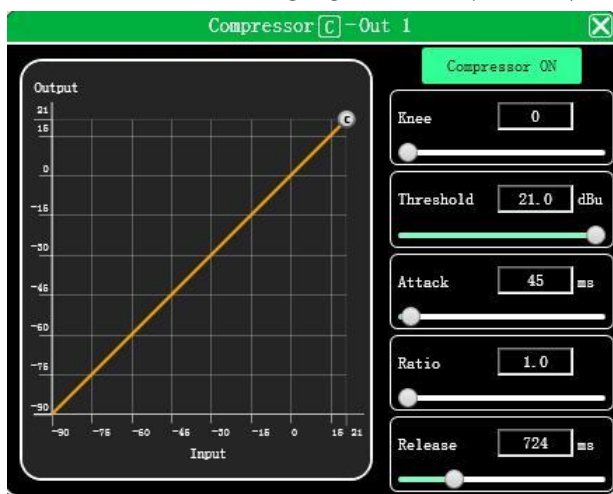


Figure 7.7 Output compressor setting module

### 7.9 Output limiter



Double-click in the module button, the following Figure 7.7 output limiter setting module will pop up.

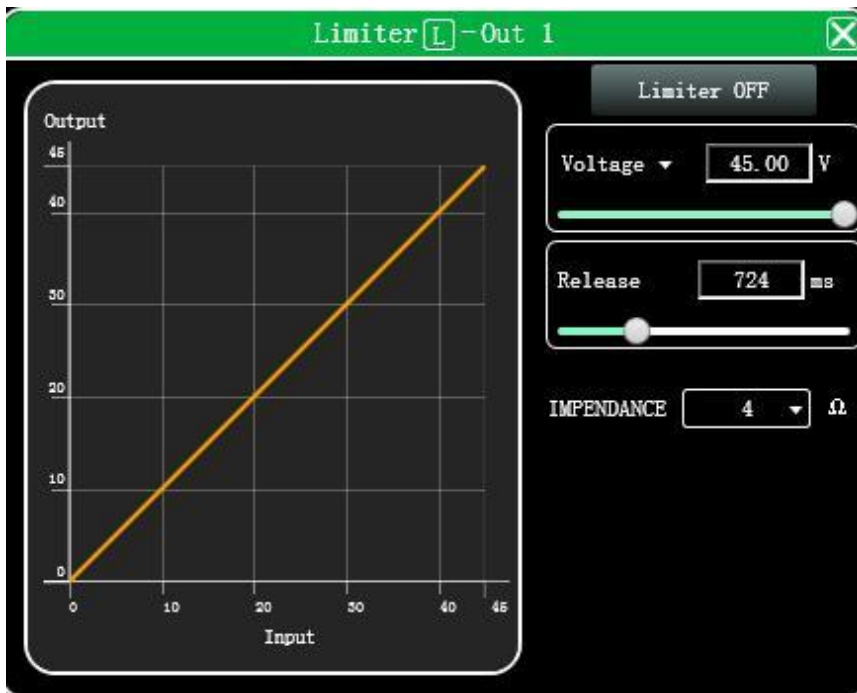


Figure 7.7 Output limiter setting module

### 7.10 Output module




Double-click in the module button , and the output setting module shown in Figure 7.8 pops up.



Figure 7.8 Output setting module

As shown above, you can control the polarity and mute setting of the corresponding output channel.

### 7.11 Input channel

As shown in Figure 6.1, list of input and output channels homepage, the left part is the input channel as shown in Figure 7.9.

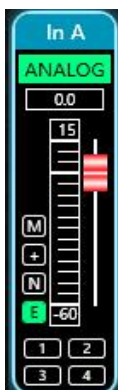







Figure 7.9 Input channel


1. The contents from top to bottom in the input channel interface include: channel name , input



mode , channel gain, function buttons , and channel grouping joint adjustment situation .

2. The channel name, input mode, and channel grouping can only be viewed, and there is no editing function.

3. In the channel gain function, you can see the level status of the input channel signal .

4. Among the function buttons, the buttons from top to bottom are: mute , polarity , noise gate , equalizer bypass . If the mute button is red, it is in the mute state, and if the other buttons are green, it is in the effective state.

5. The channel grouping joint debugging situation shows the default 4 channel joint debugging grouping. When the background color of the corresponding number box turns to yellow , it means that this channel has been added to the second group for joint debugging.

6. In the button bar between the input and output channels ,  is the master switch corresponding to the function

button of all input and output channels, which will directly operate all input channels at the same time.

## 7.12 Output channel

As shown in Figure 6.1, list of input and output channels homepage, the right part is the output channel as shown in Figure 7.10.

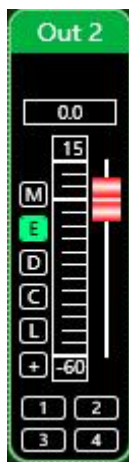


Figure 7.10 Output channel

The content from top to bottom in the output channel interface includes: channel name **Out 2**, channel gain,



function buttons, and channel grouping and joint adjustment.

1. The channel name, digital output status, and channel grouping status can only be viewed without editing function; in



the channel gain function, the level status of the output channel signal can be seen. The other two parts (gain value box, gain slider) are for adjusting the gain value of this channel.

2. Among the function buttons, the buttons from top to bottom are: mute **M**, equalizer bypass **E**, delay **D**, compressor **C**, limiter **L**, polarity **+**, if the mute button is red, it is in mute state, and if the other buttons are green, it is the effective state.

3. The channel grouping joint debugging situation shows the default 4 channel joint debugging grouping. When the background color of the corresponding number box turns to yellow **2**, it means that this channel has been added to the second group for joint debugging.

### 7.13 Channels link



Click the joint adjustment button between list of input and output channels shown in Figure 6.1, and the following Figure 7.10 channels link interface will pop up.

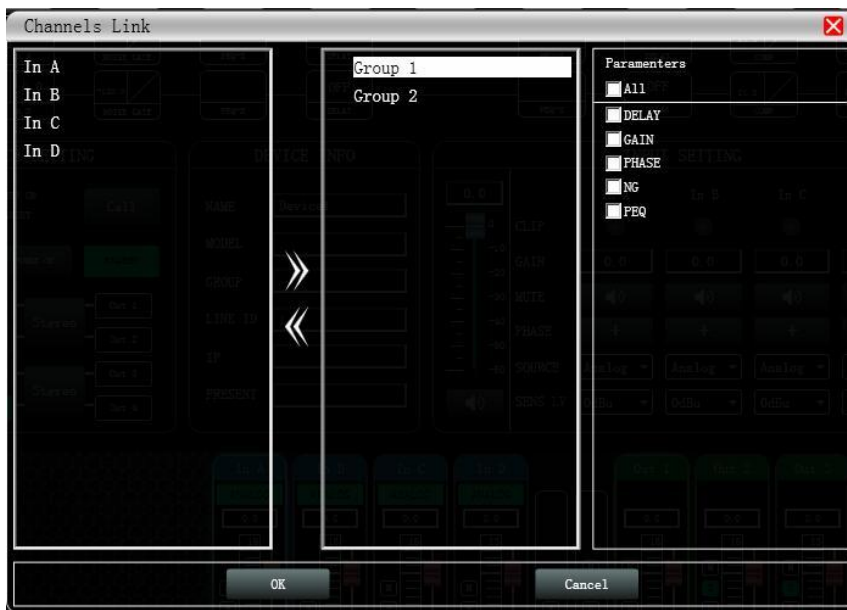


Figure 7.10 Channels link interface

As shown in the figure above, the three lists from left to right are divided into channel list, group list, and parameter list: The channel list has listed all the channels that can be tuned together. After selecting the corresponding channel, click



the Add button to move to the group list.

There are already 2 groups in the group list, directly select the corresponding group. If you add a channel to the channel list, it will be directly divided into the selected group. If you want to remove the channel you want to remove, click Add



and press the remove button below the button. It can be removed to the channel list.



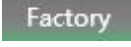
The parameter list is the parameters that can be adjusted jointly in the grouping list. After checking, it means that when several channels in the same group adjust the parameters, other channels will make the same adjustment at the same time.




### 7.14 Device list

The device list is on the left of software homepage shown in Figure 6.1, shown in Figure 7.11 Device List below:



Figure 7.11 Device List

The above figure  is the connected device number;  is the device name;  is the factory name (the user cannot modify); if the connection method is TCP, the left side of the factory name will display the network IP address of the device; if it is USB Mode, it will display USB; serial port connection, it will display the specific COM port used.

 From left to right, it is divided into mute button, status refresh button, and remove device button. The mute button can directly control the mute of all input and output channels of the entire device. The status button can refresh the status of the device instantly. If the device is online, the leftmost  will turn green, and the remove button  can directly remove the device in the software.

If you need to debug different devices, you can click to select the target device, and the function interface will be updated to the device function page.

### 7.15 Add device/New device

Click "File"- "New Device" or "Demo Device" in the menu bar of the software homepage interface in Figure 6.1, and the following Figure 7.12 Add Device Interface will pop up. Select the virtual device model to be added and add it to the device list. Note: The virtual device will not connect to the real device.



Figure 7.12 Add new device interface

### 7.16 Device management

Click "Device"- "Devices" in the menu bar of the software homepage interface in Figure 6.1, and the device manage interface shown in Figure 7.13 will pop up.

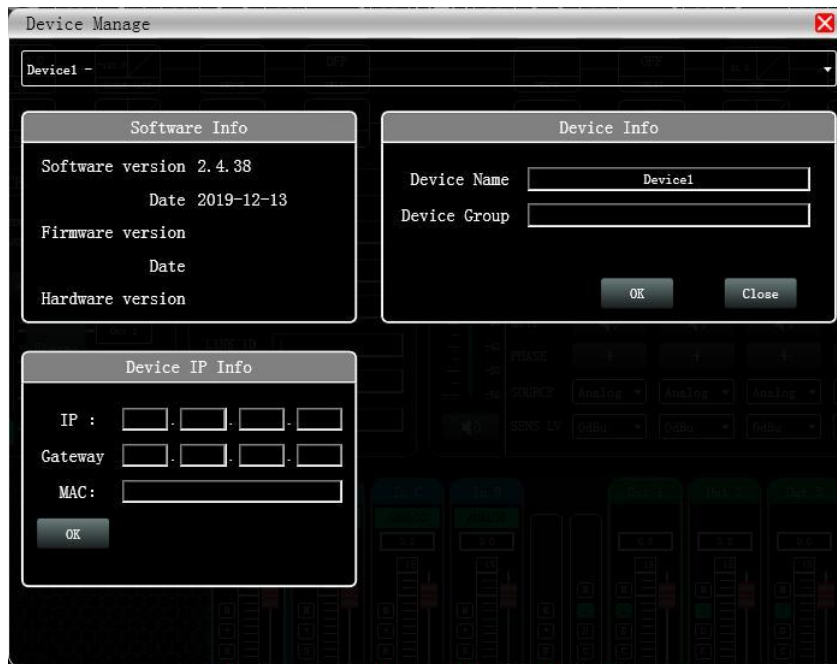


Figure 7.13 Device manage interface

As shown in the figure above, the device information content displayed on the target device management interface can be selected in the device list at the top. The device management interface is divided into four parts as follows:

- Software information:** display the current device's upper and lower computer version number and date information.
- Device information:** display the current device name, device grouping, and factory name information. If the factory name is to be displayed, you need to press the hidden shortcut key CTRL+ALT+F12, where "device name" and "factory name" can be entered after the new name Click the button to save.
- Device IP information:** if the current device is connected by network, the device's IP address, gateway, and MAC address will be displayed here. The IP and gateway can enter new information and click the OK button to save and restart the device network module, the newly entered network information will take effect immediately.
- Software Logo:** logo of the software itself

### 7.17 Channel names management

Click "Device"->"Channel Management" in the menu bar of the software homepage interface in Figure 6.1, and the following Figure 7.12 channel names management interface will pop up.

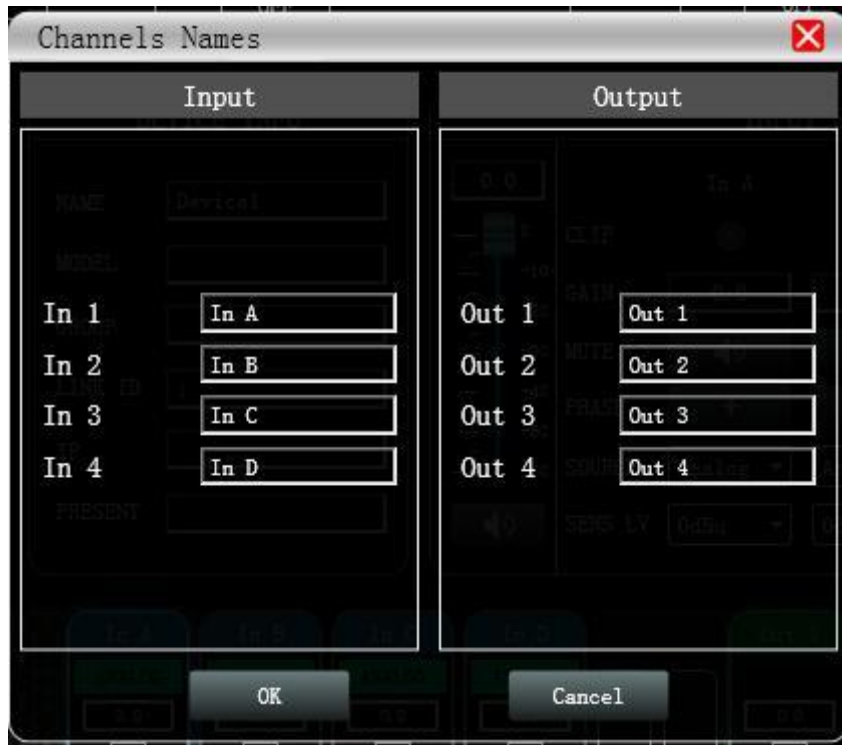


Figure 7.12 Channels names management

As shown in the figure above, after entering the new name of the channel in the corresponding channel, click the OK button to save and update the name of the channel immediately. Note that the length of the channel name is limited to 5 English letters and numbers.

### 7.18 Channels copy

Click "Device"->"Channels copy" in the menu bar of the software homepage interface in Figure 6.1, and the channels copy interface in Figure 7.13 will pop up.



Figure 7.13 Channels copy interface

As shown in the figure above, channel copy is to first select the channel parameters of a source device and copy to the

target channel of other target devices. Input channels and output channels cannot copy each other. The left side is the corresponding channel, and the right side is the copied parameter. The "input" and "output" buttons at the top of the interface can switch the channel type for copying.

### 7.19 Preset

Click "Preset" in the menu bar of the software homepage interface in Figure 6.1, and the preset interface in Figure 7.14 will pop up.



Figure 7.14 Device preset interface

As shown in the above picture, the left side of the archive interface is the gear position, among which "0 automatic gear" is the system gear position and cannot be used directly; "1 (default)" is the default gear of the device, which can only be recalled, cannot be deleted or overwritten, and the device parameters after recall All of them will be restored to the factory default parameters; other gears can be freely saved, recalled, deleted and other operations.

The function buttons on the right side of the archive interface are as follows:

**Save:** Save the existing device parameters to the corresponding selected archive.

**Recall:** Recall the selected archive to the parameters of the current device.

**Delete:** delete the selected archive parameter.

**Clear:** Clear all archive parameter records that are not archived by the system.

**Set as boot file:** Set the selected file as the device will automatically call the file to save the work when the device is turned on next time.

**Import Preset:** Import a single device parameter file in the computer system, and directly overwrite the existing parameter data.

**Export Preset:** save the current equipment parameters to the computer system to produce a single equipment parameter archive file

**Import Package:** import multiple archive parameter packages in the computer system

**Export Package:** Export the parameters of all gears in the equipment archive to the computer system to produce multiple archived parameter package files.

### 7.20 Firmware update

Click "System"->"Upgrade" in the menu bar of the software homepage interface in Figure 6.1, and the firmware upgrade interface shown in Figure 7.15 will pop up.



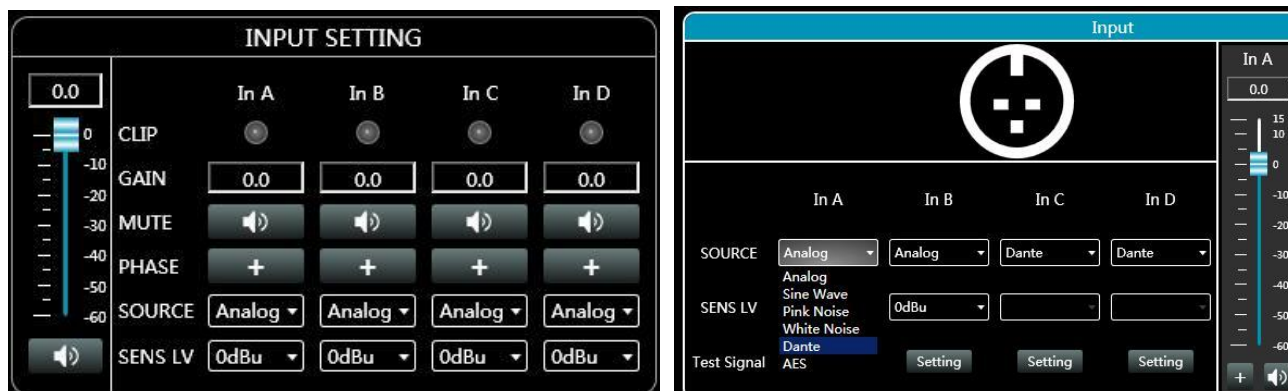
Figure 7.15 Firmware upgrade interface

When the lower computer system of the device has been updated, after obtaining the upgrade file, you can open the firmware upgrade interface as shown in the figure above. After selecting the corresponding upgrade file in the "Upgrade File" column, click "Start Upgrade" in the upper right corner, and the system will automatically is transferred upgrade file to the lower computer for upgrade operation, and the operation log is displayed in the progress box below. After the upgrade is completed, the machine will restart automatically or manually restart the machine to complete the upgrade.

## 7.21 Dante using introduction



In input settings in the main interface, or function module INPUT, set the channel input source to Dante mode

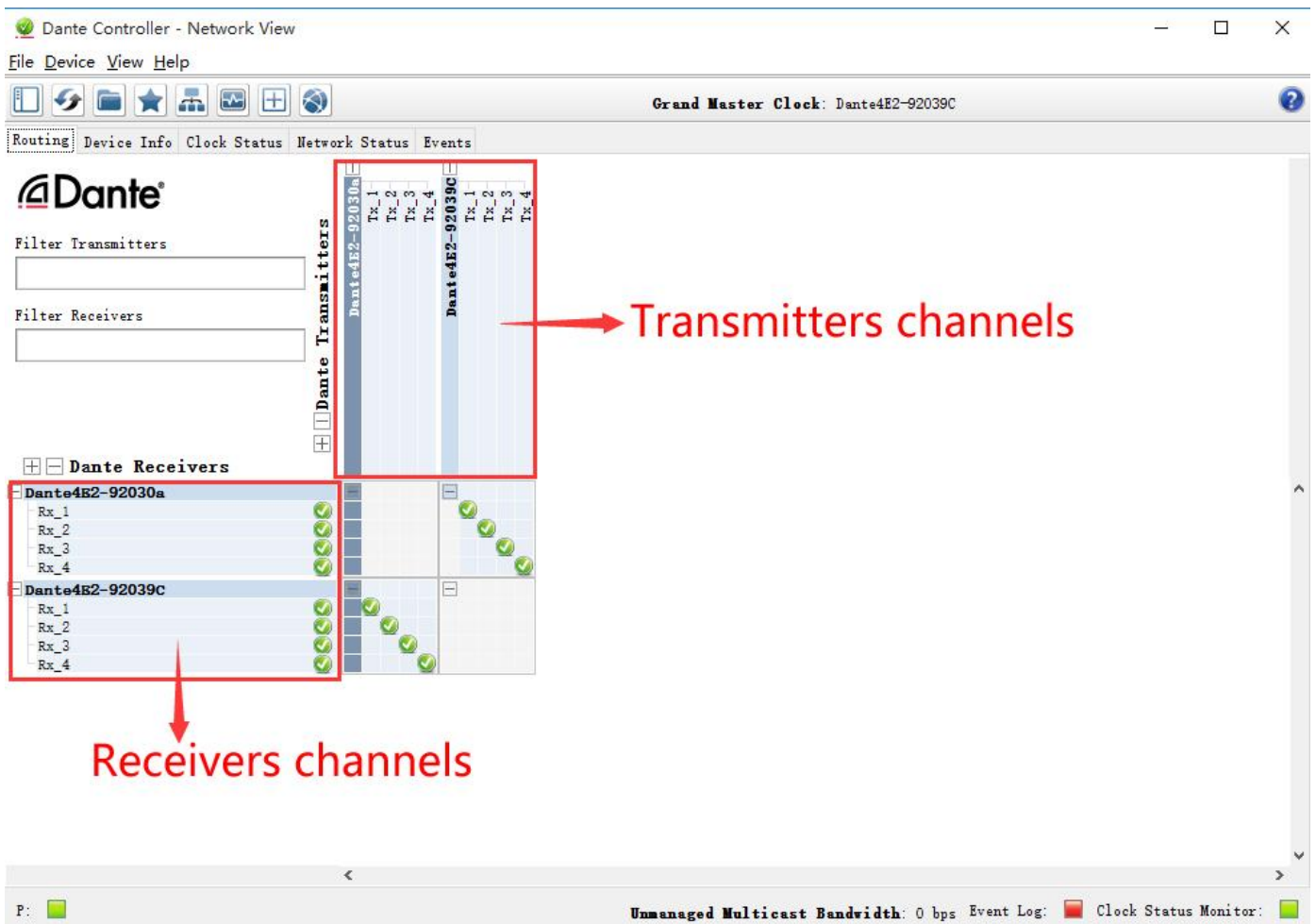


1. There are two methods to connect DANTE. The first one is to connect to the LAN with other Dante devices, and the

second is to connect via Dante Virtual Soundcard (DVS). Both methods need to via a switch or router in wired connection.

2. Either which connection method is chosen, it is necessary to configure the routing through the official Dante Controller computer software. Dante Controller software can be downloaded for free on the official website [www.audinate.com](http://www.audinate.com).

3. DVS is a paid virtual soundcard software. You can visit the official website to purchase it. [www.audinate.com](http://www.audinate.com).



## 7.22 FIR using introduction







Double click FIR module button , enter into FIR function interface, click Design to enter into design interface.



There are 5 area in FIR interface:

Setting ①	IMPORT	Import FIR preset files to the current channel
	EXPORT	Export current channel FIR file
	BYPASS	Bypass function, the channel EQ is straight after turned on, default red state means turned on, and it needs to be turned off manually when using FIR
	STORE	Save FIR parameters in the device
	Taps	Tap numbers of current channel
	Ms	Delay of current channel
	Name	FIR preset file name of current channel
Channels ②	1, 2, 3, 4	Click to display the FIR curve of the corresponding channel, and support

		multiple curves to be displayed at the same time
Function ③	Design	Design interface switch button
	Magnitude	Interface show with amplitude curve
	Phase	Interface show with phase curve
	72dB	Show content within 72dB of amplitude accuracy
	144dB	Show content within 144dB of amplitude accuracy
Curve ④	-108 ~ +36	Amplitude accuracy, the value used for reference when the current display is an amplitude curve
	-180° ~ +180°	Phase accuracy, the value used for reference when the current display is a phase curve
	20Hz~20KHz	Frequency band
Design ⑤		High pass
		Frequency band
		Low pass
		Flat
	Freq(Hz)	Start frequency setting, high pass on the left, low pass on the right
	Num.Taps	Taps numbers, total 8 steps, optional 256 ~ 2048
	ALT.(dB)	Depth, only available in Kaiser window
	Windows Type	Window type selection
	STORE	Save, after setting the parameters, click to save to the device channel



# *PD Series*



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