Public Address System

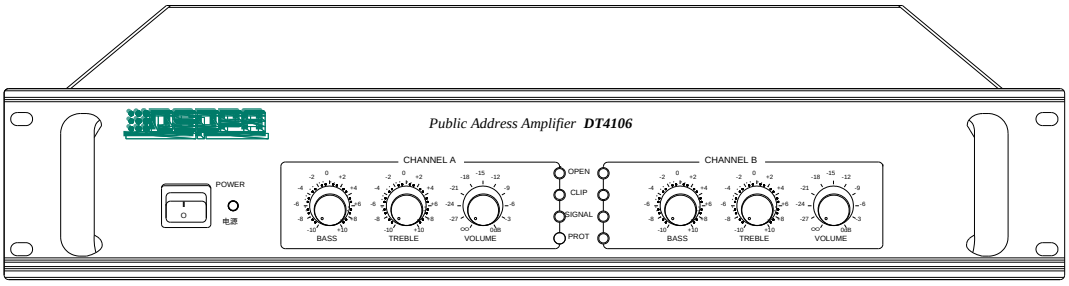
Dante System

DT4106

DT4112

DT4125

DT4135



User's Manual

Welcome to use DSPPA public address system. For the better use of this product, please read this instruction carefully prior to use.

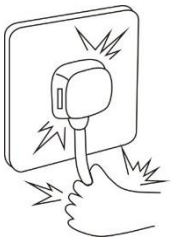
Guangzhou DSPPA Audio Co., Ltd
http://www.dsppatech.com

⚠Caution

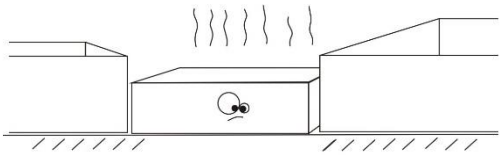
To assure the finest performance, please use or operate the product in accordance with corresponding instructions.

This symbol indicates "forbidden content" **This symbol indicates "compulsory content"**

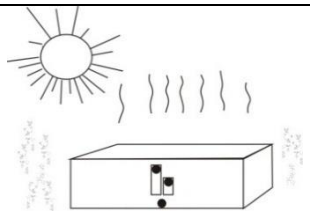
■ Please make sure that the power wire is NOT damaged. Do NOT unplug the equipment by pulling the power wire; otherwise it may cause electric shock, short circuit or fire.



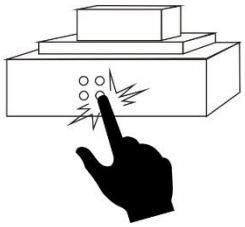
■ When the equipment is in use, DO NOT block the air outlet which should be kept clear, in order to avoid overheat.



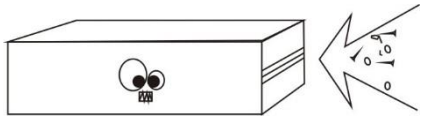
■Do NOT store this equipment in any place with heavy dust or vibration, or where it is extremely cold or hot.



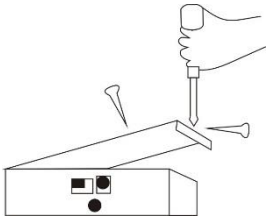
■ Please do NOT place any heavy article on this equipment. Please operate switches, buttons or external audio source carefully.



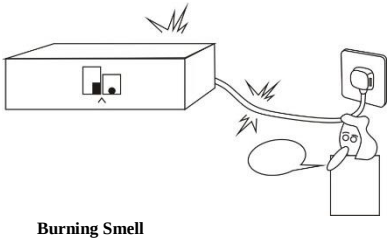
■ Please prevent foreign matters (such as paper, metal etc.) entering the equipment through the gaps or opening, in such cases, please cut off the power supply immediately.



■ Do NOT attempt to remove any internal component from the equipment, or to modify the equipment in whatever manner.

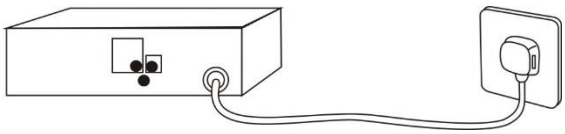


■ In case that sound is suddenly off or there is abnormal odor or smoke, please unplug the equipment from the power socket to avoid potential electric shock, fire or other accident. The equipment should be inspected by professional personnel.



Burning Smell

■ If the equipment is not in use for a long period, please unplug it from the AC power socket to realize zero energy consumption.



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1) Product Introduction

1.1 Brief Introduction

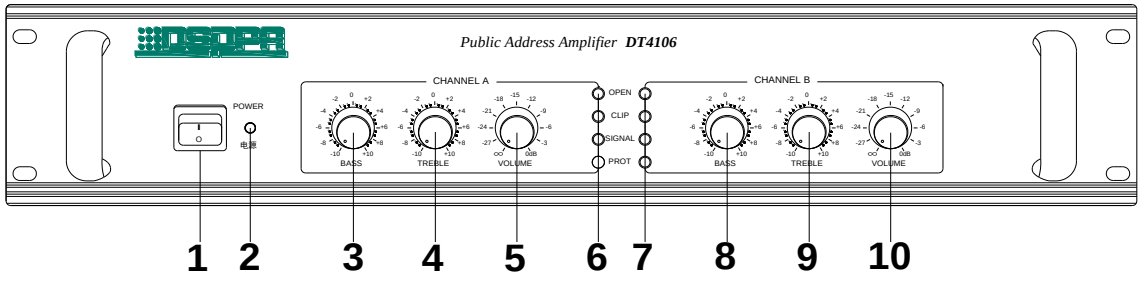
DT4106/4112/4125/4135 is a two-channel amplifier of Dante PA system. Volume and tune of each channel can be adjusted individually. It has compulsory input interface (short circuit available). Three-wire output design makes it easier to connect. Dual network interface design makes it possible to cascade with other amplifiers. Signals of 2×2, 4×4, and 16×16 Dante network interfaces and Dante MIC could be transferred to this device through network.

1.2 Features

- Two-channel amplifier, adjustable volume and tune of each channel
- Constant voltage output: could switch between 200V, 100V, 70V
- Clear LED display of working status
- Compulsory input interface (short circuit), three-wire output
- Dual network interface, support cascade with other amplifiers
- Signals of 2×2, 4×4, and 16×16 Dante network interfaces and Dante MIC could be transferred to this device through network.

2) Description of Appearance

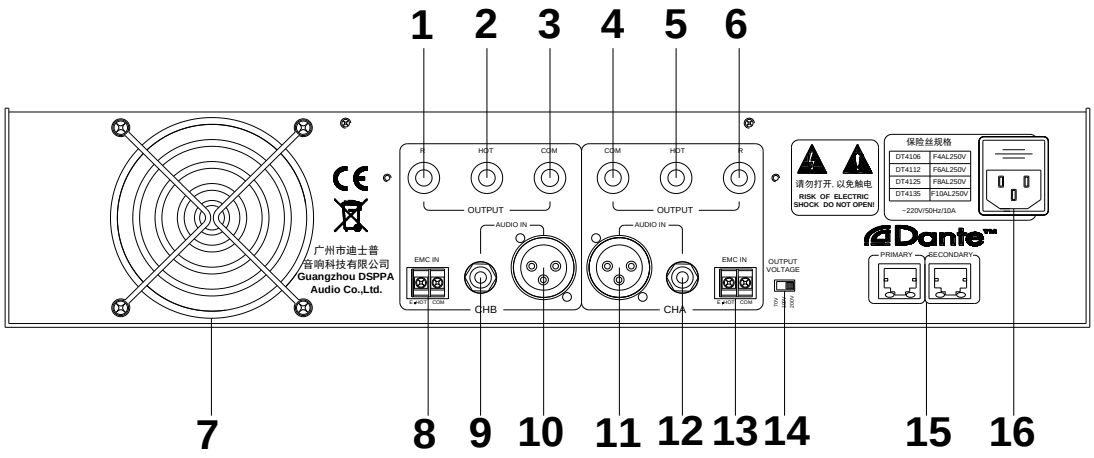
2.1 Description of front panel



1. AC power supply switch
2. Power indicator
3. Channel A bass adjustment
4. Channel A treble adjustment
5. Channel A volume adjustment
6. Channel A status indicator
7. Channel B status indicator
8. Channel B bass adjustment

9. Channel B treble adjustment
10. Channel B volume adjustment

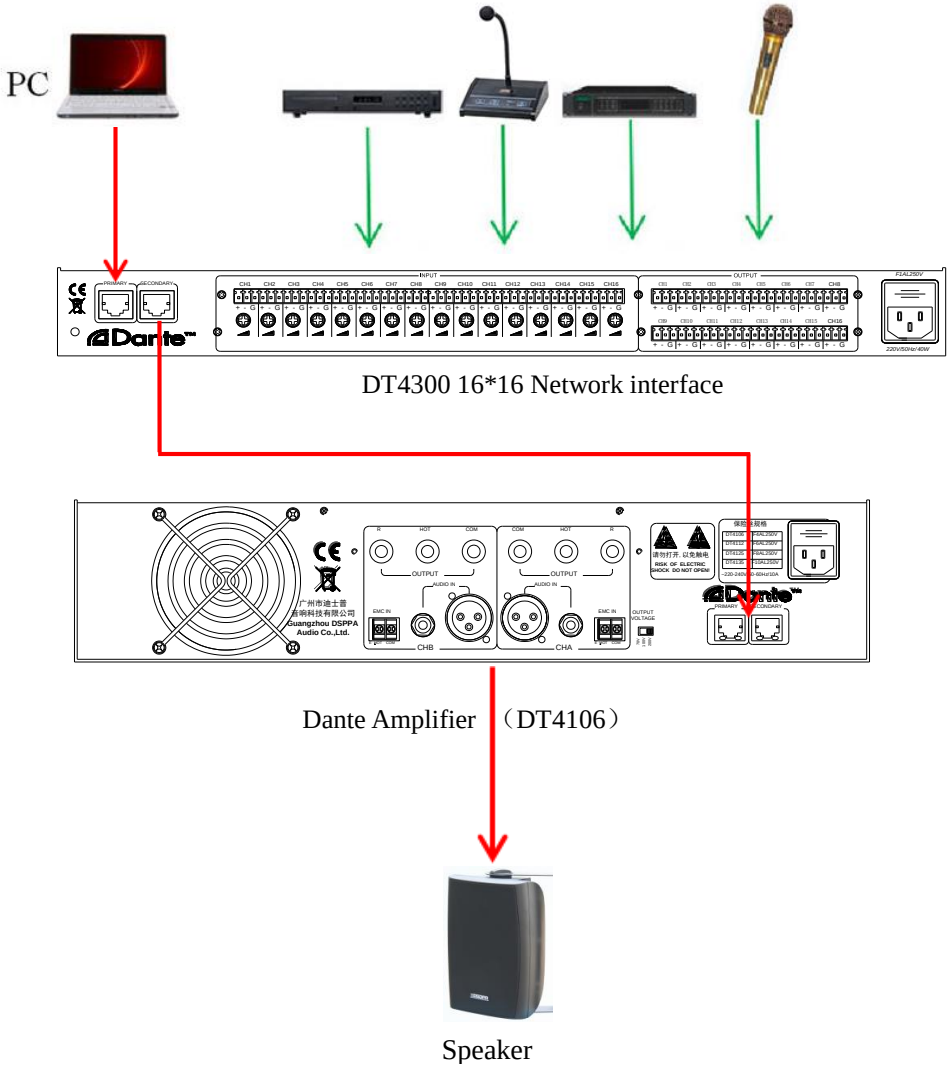
2.2 Description of rear panel



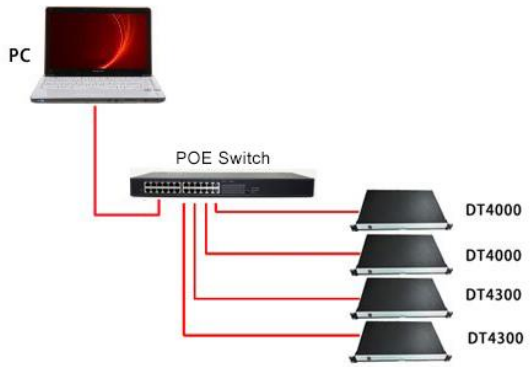
1. Channel B output compulsory input terminal (R)
2. Channel B output hot end (HOT)
3. Channel B output public side (COM)
4. Channel A output public side (COM)
5. Channel A output hot end (HOT)
6. Channel A output compulsory input terminal (R)
7. Heat dissipation port
8. Channel B compulsory input terminal
9. Channel B audio input (TRA)
10. Channel B audio input (XLR)
11. Channel A audio input (XLR)
12. Channel A audio input (TRA)
13. Channel A compulsory input terminal
14. Selection switch of output voltage
15. Network interface
16. Power supply

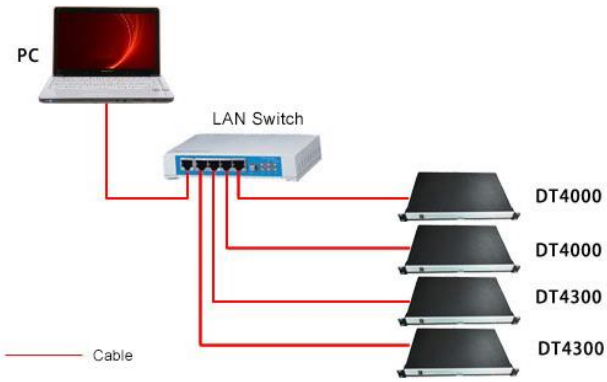
3.Connection Diagram

3.1 System connection



3.2 Device connection





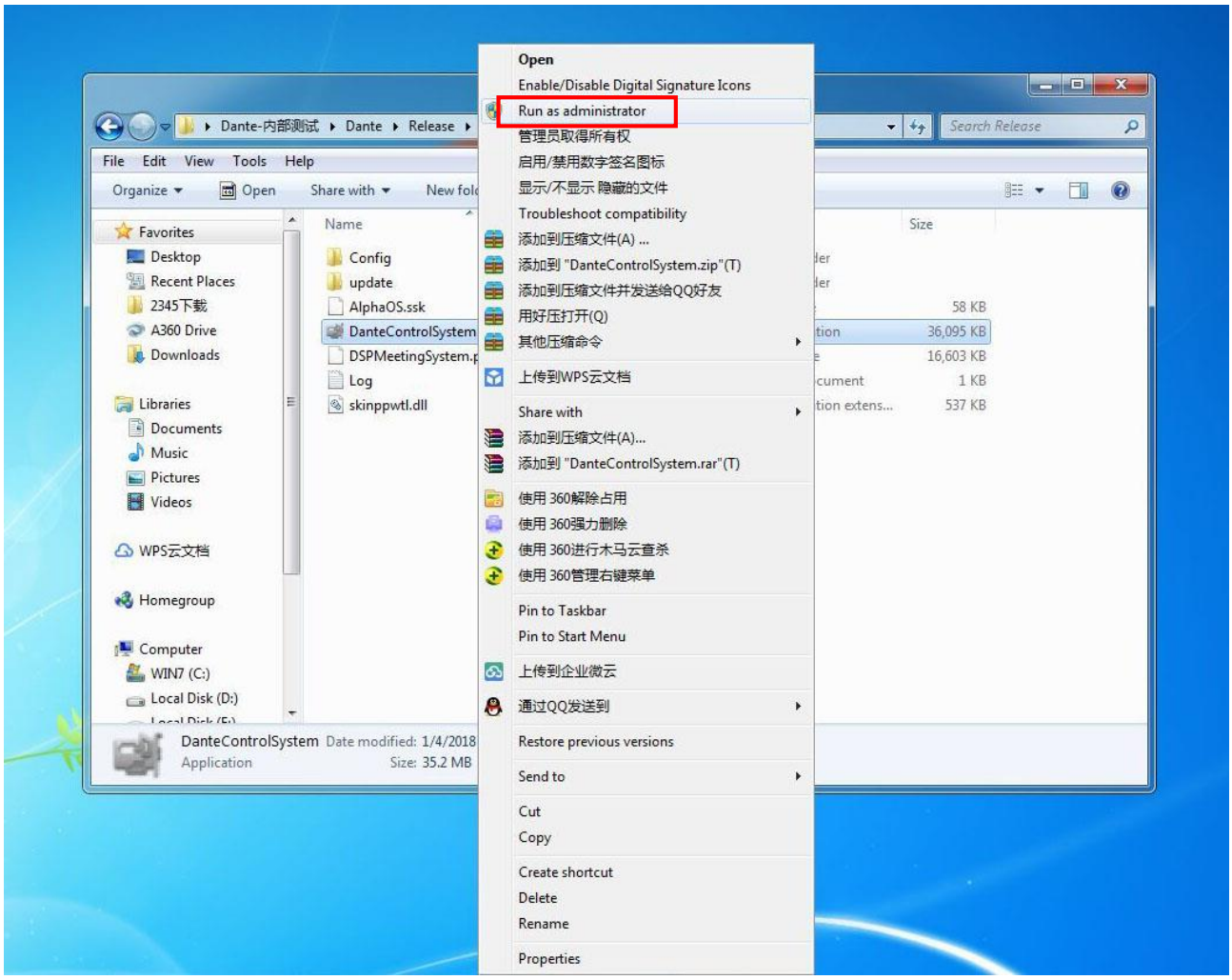
4. Operation Instruction

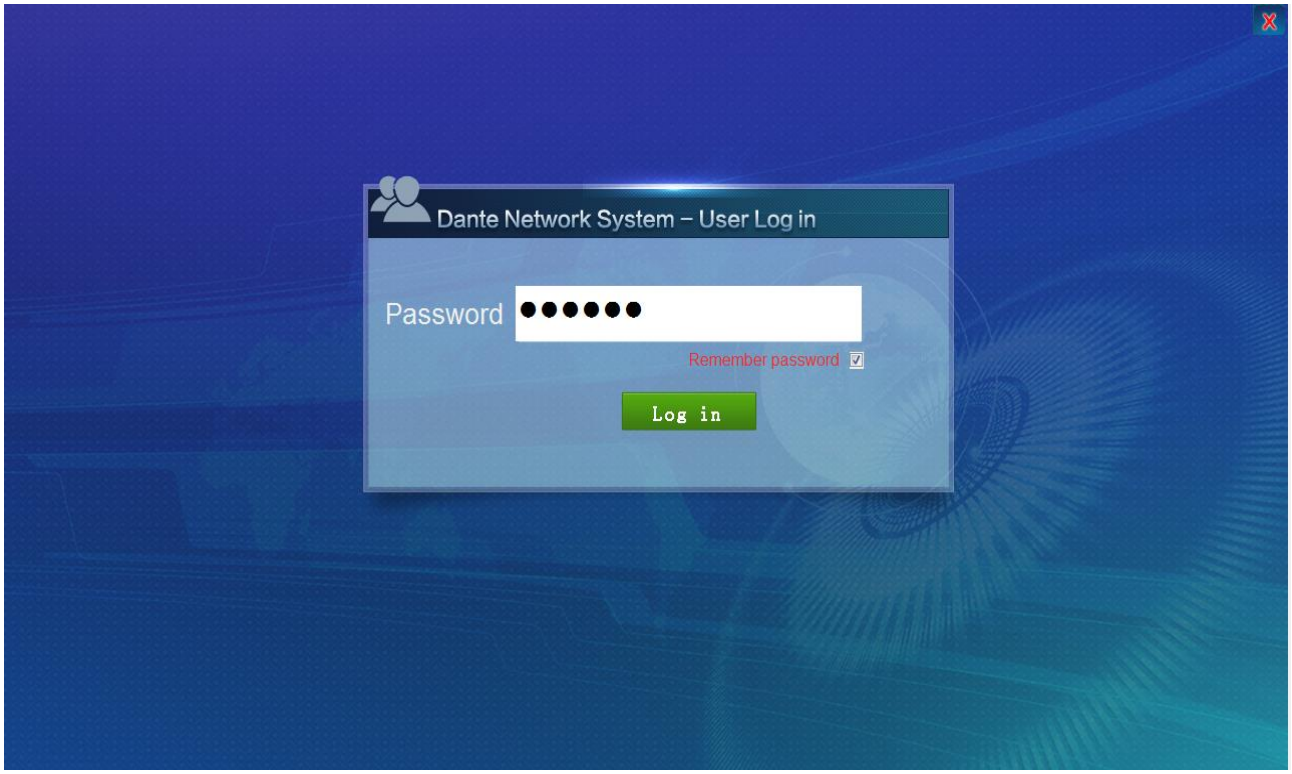
4.1 PC interface operation instruction of Dante control system

After installing software, right-click it and choose “Run as administrator” to enter initial interface. Click “Register” or “Try” to enter interface. Then input password (original password: 123456. You can check “remember password”.) and click “Log in”. Use machine code provided by manufacturer to gain registration code unless there are only 7 days for trial.

Note: 1. Please make sure that network is connected before connecting Dante amplifiers.

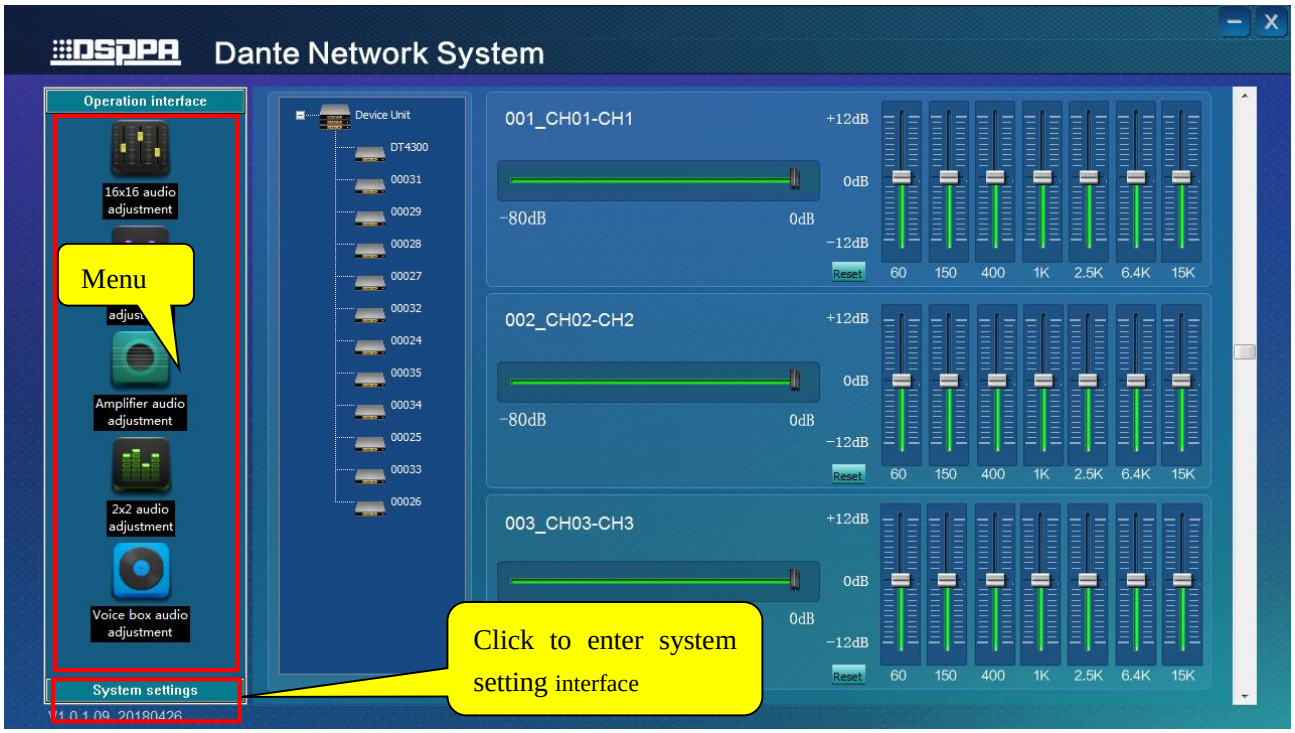
2 If the switch or router has group-play disabling function, please enable this function before use. (For example, products of CISCO, Huawei, and H3C has this function.)


Open
Enable/Disable Digital Signature Icons
Run as administrator
管理员取得所有权
启用/禁用数字签名图标
显示/不显示 隐藏的文件
Troubleshoot compatibility
添加到压缩文件(A) ...
添加到 "DanteControlSystem.zip"(T)
添加到压缩文件并发送给QQ好友
用好压打开(Q)
其他压缩命令
上传到WPS云文档
Share with
添加到压缩文件(A)...
添加到 "DanteControlSystem.rar"(T)
使用 360解除占用
使用 360强力删除
使用 360进行木马云查杀
使用 360管理右键菜单
Pin to Taskbar
Pin to Start Menu
上传到企业微云
通过QQ发送到
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
Rename
Properties
Dante-内部测试 ▸ Dante ▸ Release ▸
Search Release
File Edit View Tools Help
Organize Open Share with New fol
Favorites
Desktop
Recent Places
2345下载
A360 Drive
Downloads
Libraries
Documents
Music
Pictures
Videos
WPS云文档
Homegroup
Computer
WIN7 (C:)
Local Disk (D:)
Name
Config
update
AlphaOS.ssk
DanteControlSystem
DSPMeetingSystem.p
Log
skinppwtl.dll
Size
58 KB
36,095 KB
16,603 KB
1 KB
537 KB
DanteControlSystem Date modified: 1/4/2018
Application Size: 35.2 MB


Dante Network System – User Log in
Password
Remember password
Log in

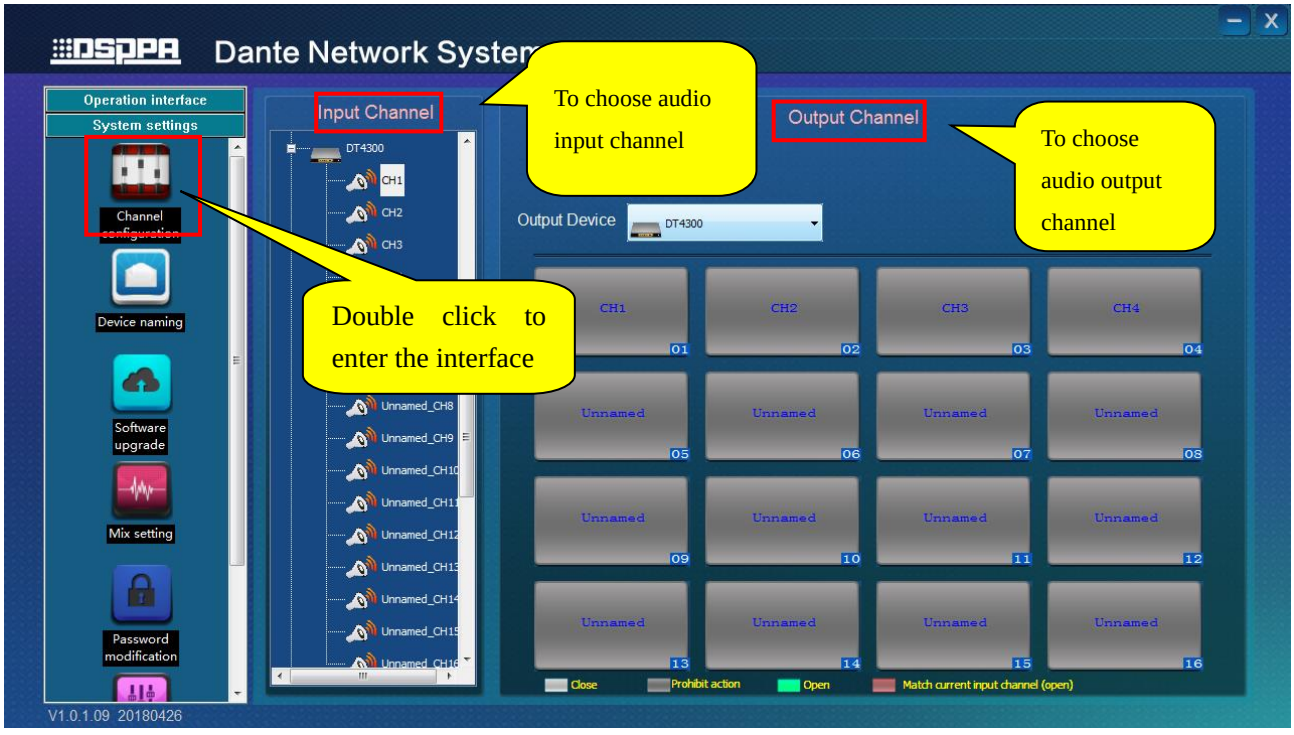
1. Operation interface

After longing in successfully, you will enter operation interface. Please make sure that all devices have been connected then you can follow steps in the following picture.



2. System setting

You need to enter password before entering “System setting” interface. Double click any menu to enter corresponding interface.

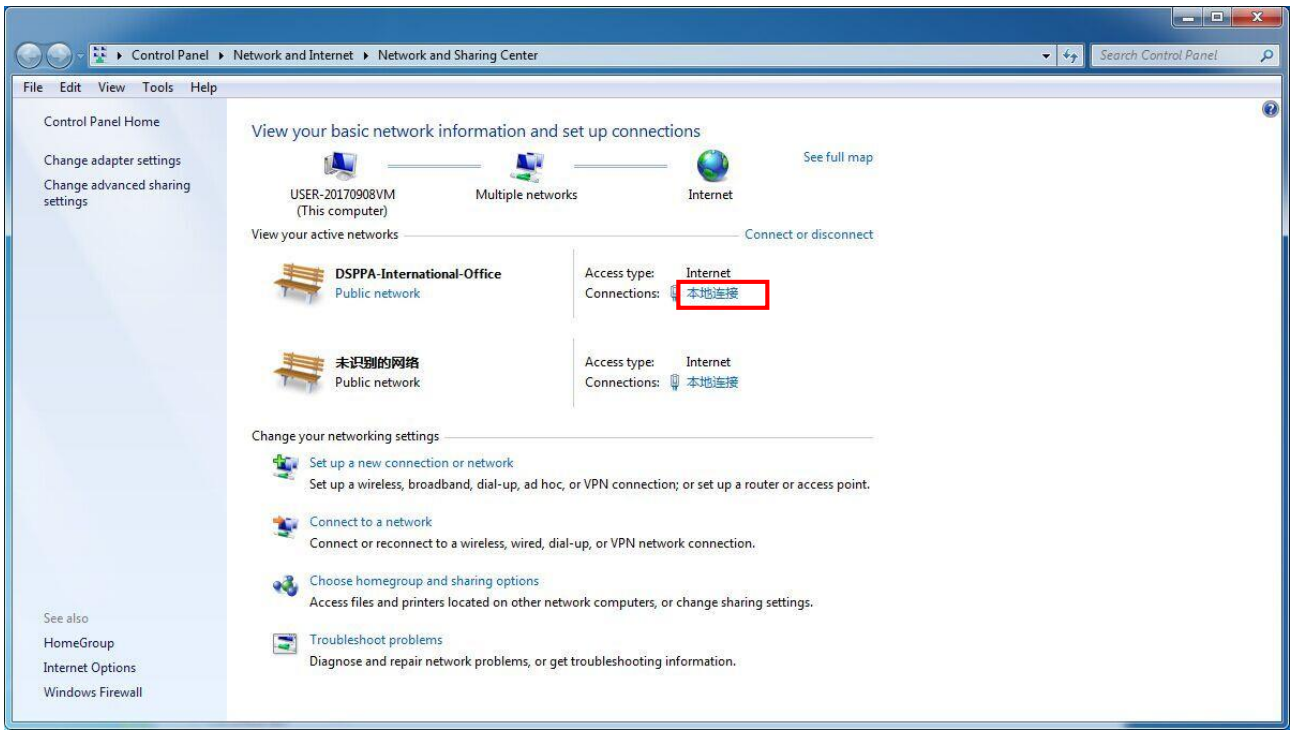


3. Binding IP address

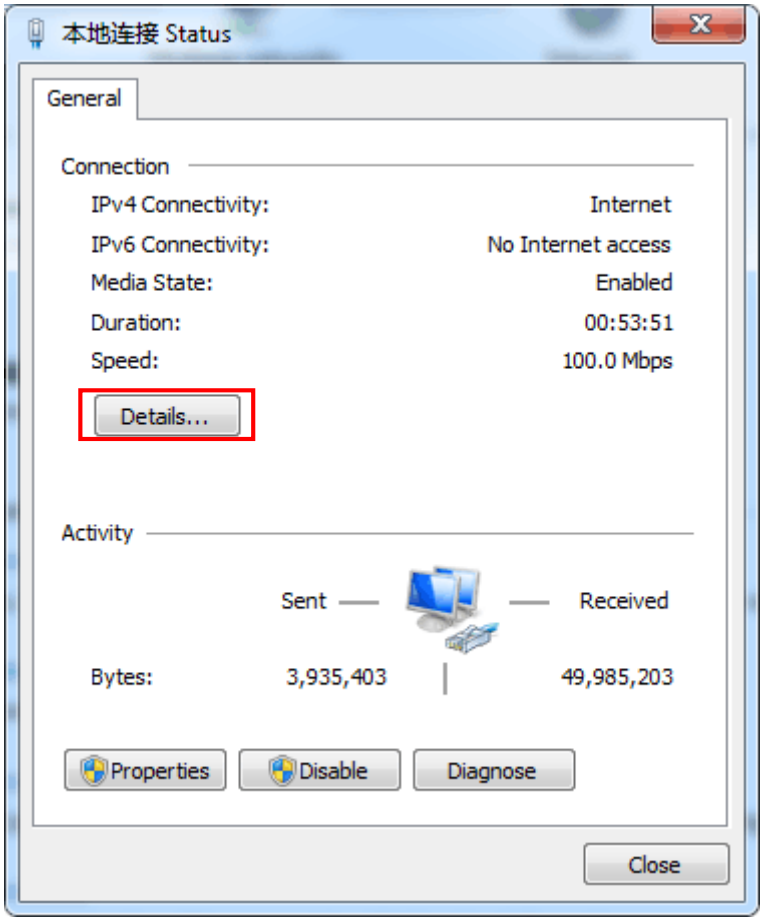
Please binding IP address before operating. Steps are as follows:

1) Click on the right corner of your computer and open Network and Sharing Center

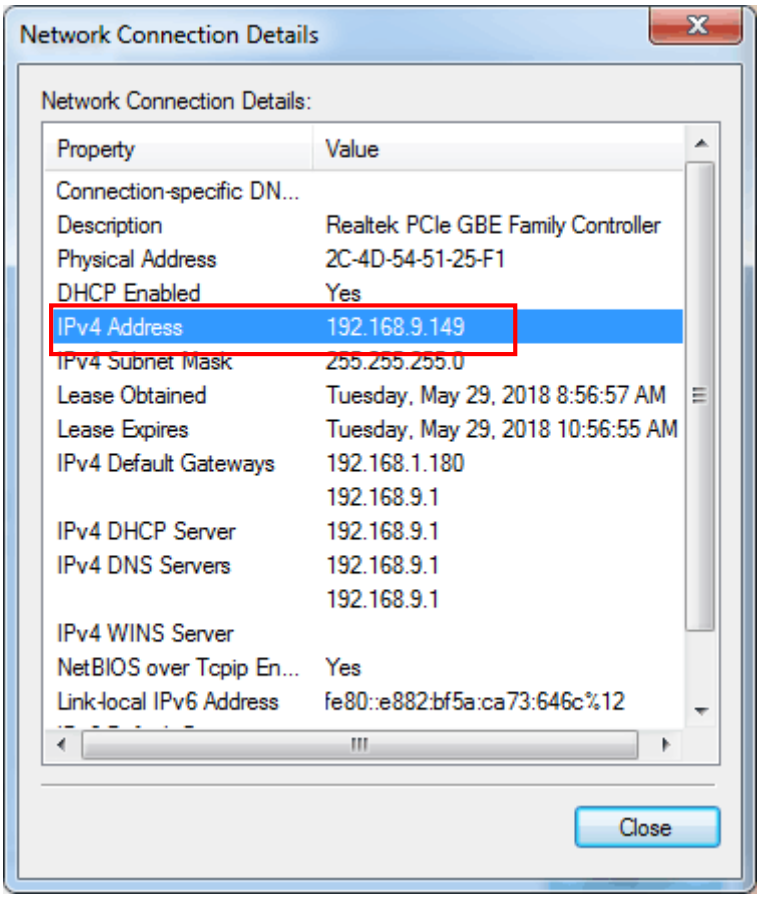
2) Click “Local connection”



3) Click “Details” to see your IP address.

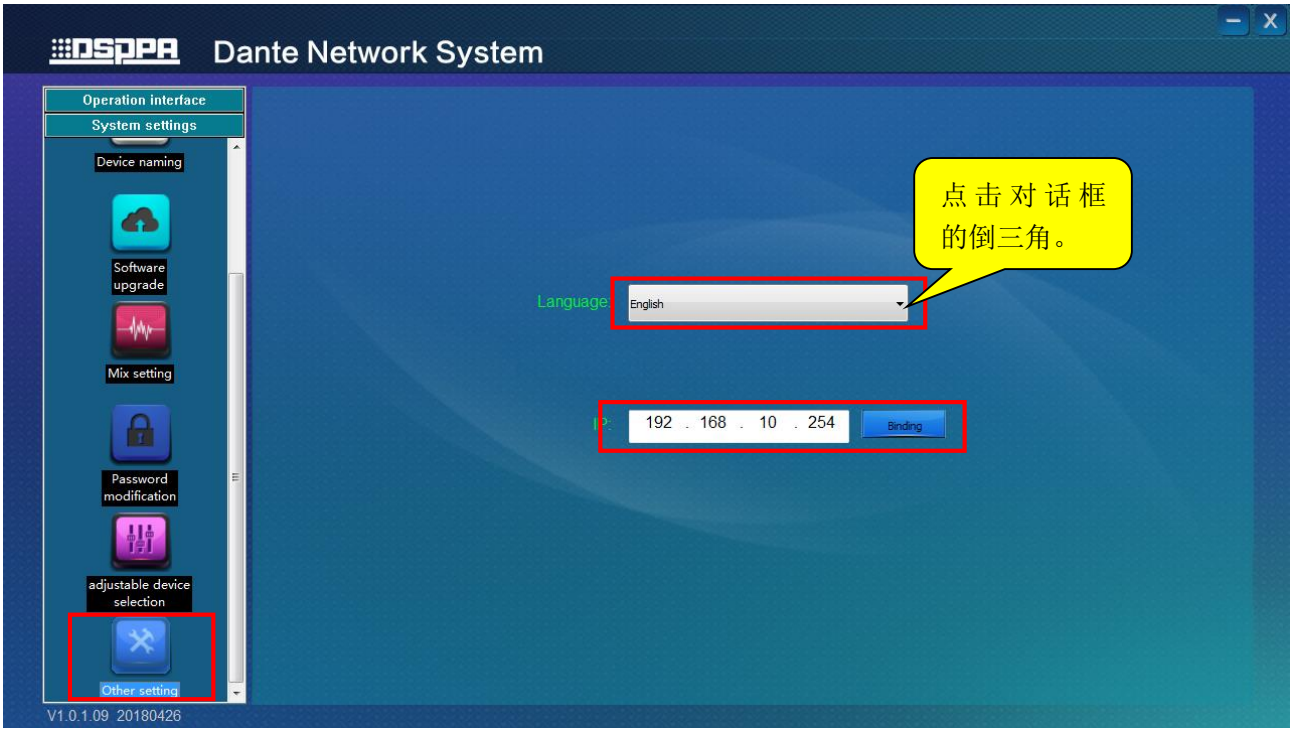


4) IPv4 address is the IP address of your computer



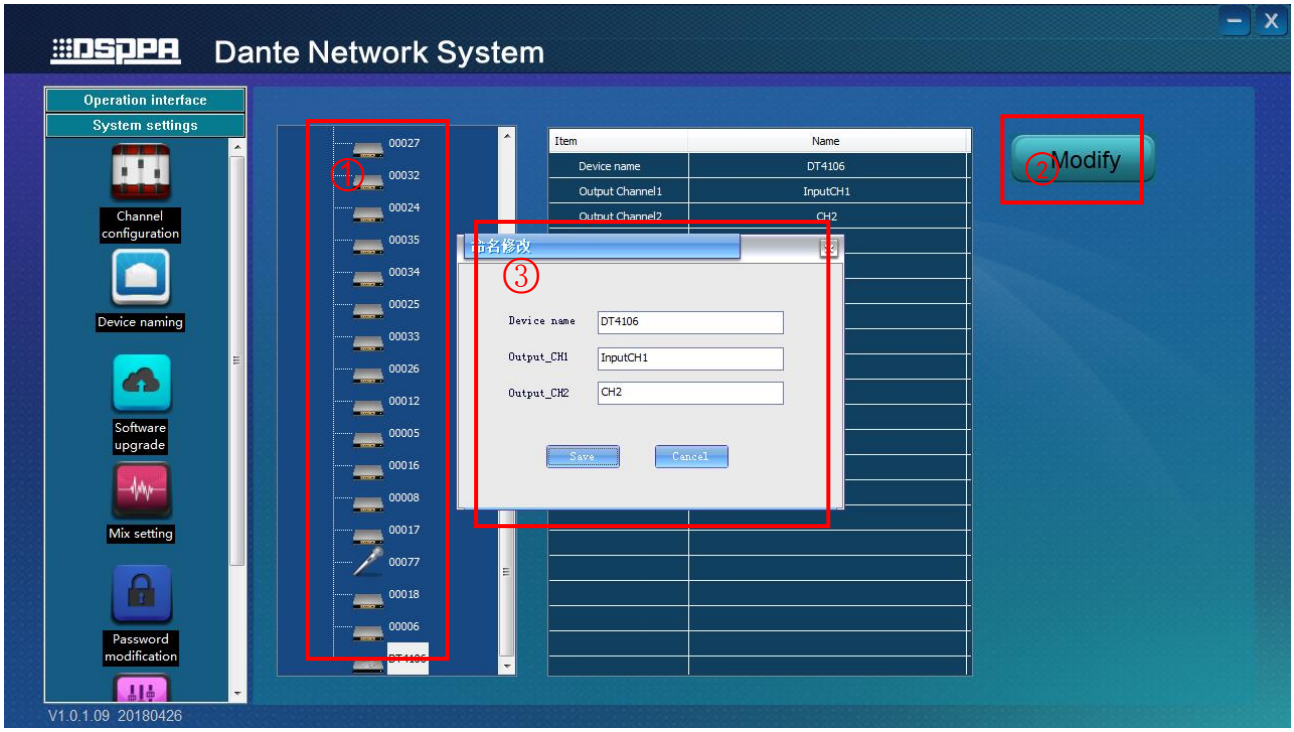
5) Double click “Other setting” and copy IP address to “Binding IP”. Then click binding and you will see “The change will take effect after rebooting.”. Next, restart the software. After restarting, please pay attention whether the IP is the same as that of your computer.

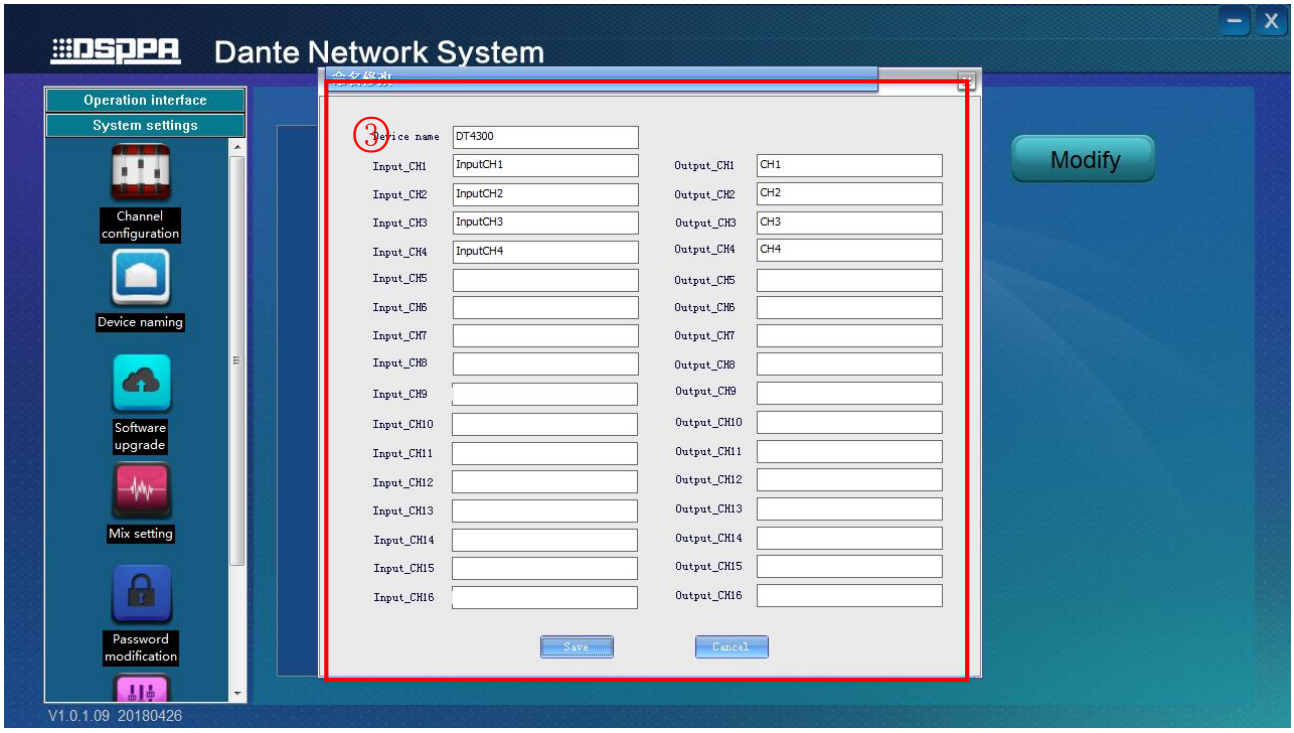
Note: you can also set language in this interface. Click the Inverted triangle to choose between Chinese and English. Then restart the software to make it effective.



4. Channel naming

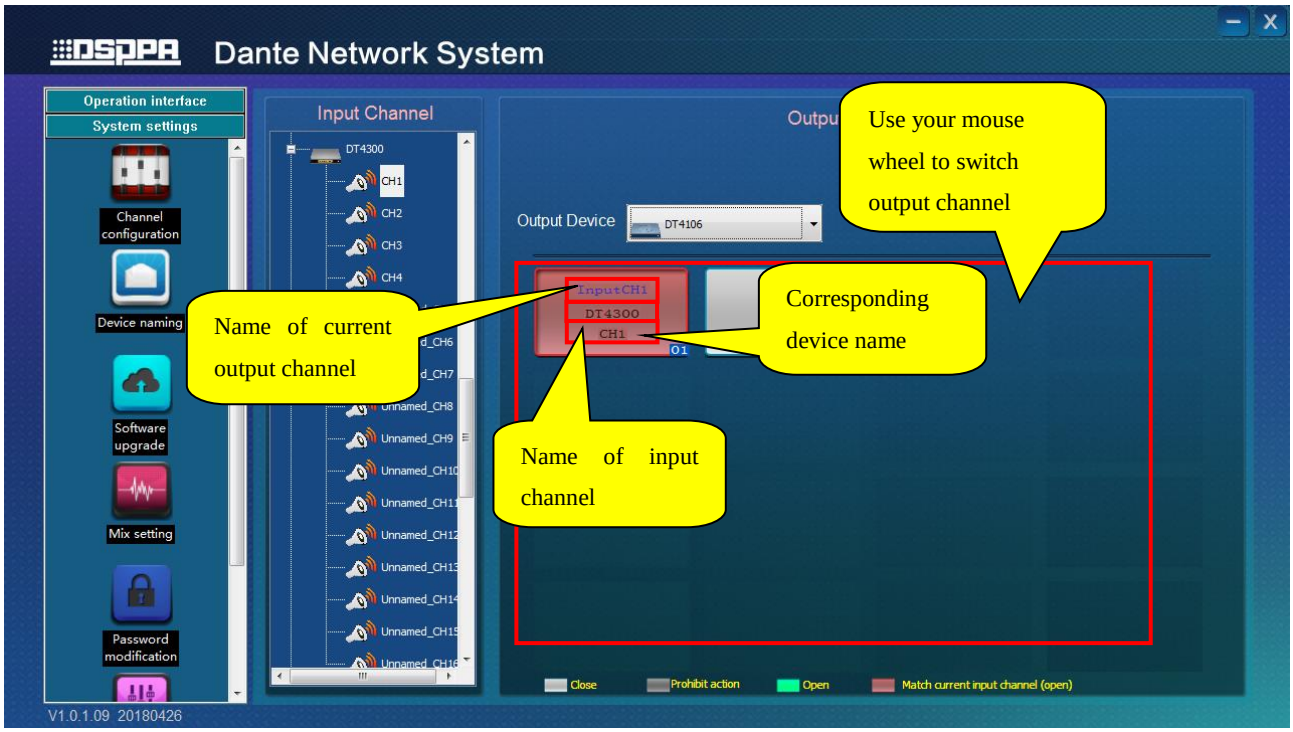
Double click “Channel naming” to name channels. Beforehand, you need to select corresponding device and click “change”. After that, click “Save” to save changes. If you click “ Cancel”, your change will not be saved.



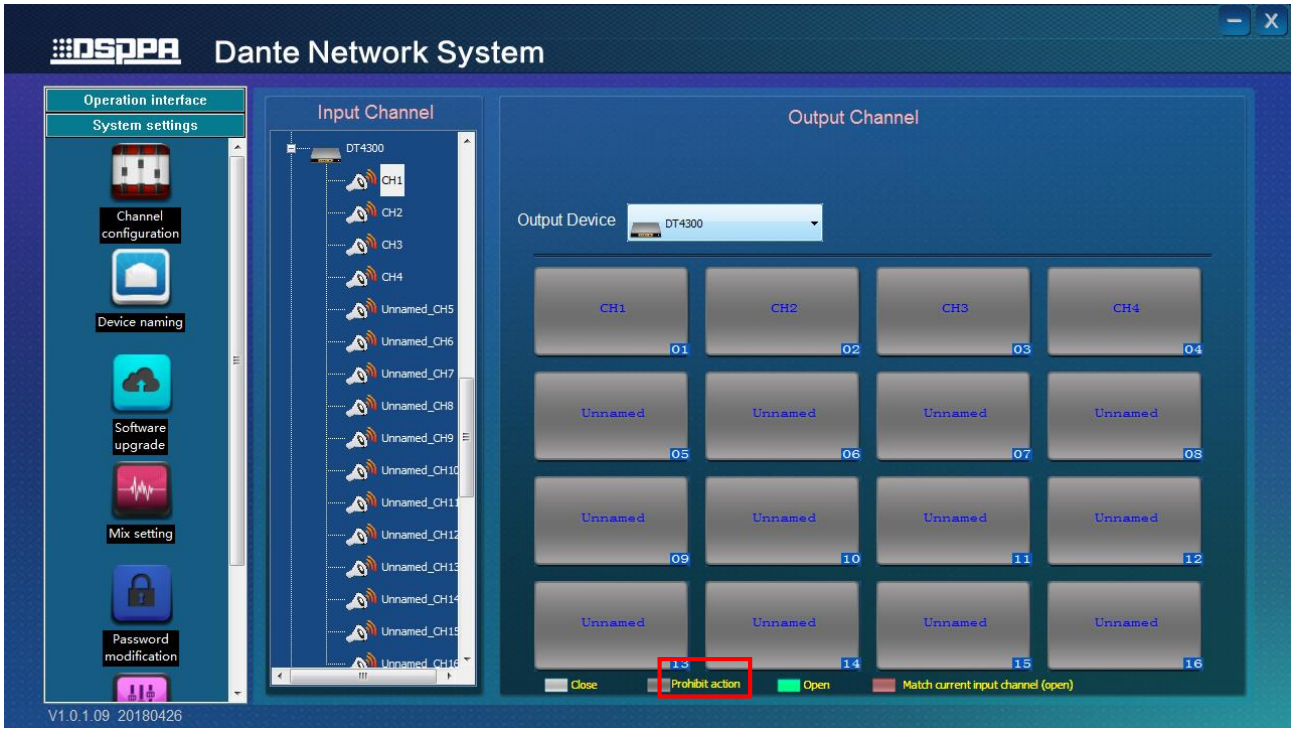


5. Channel configuration

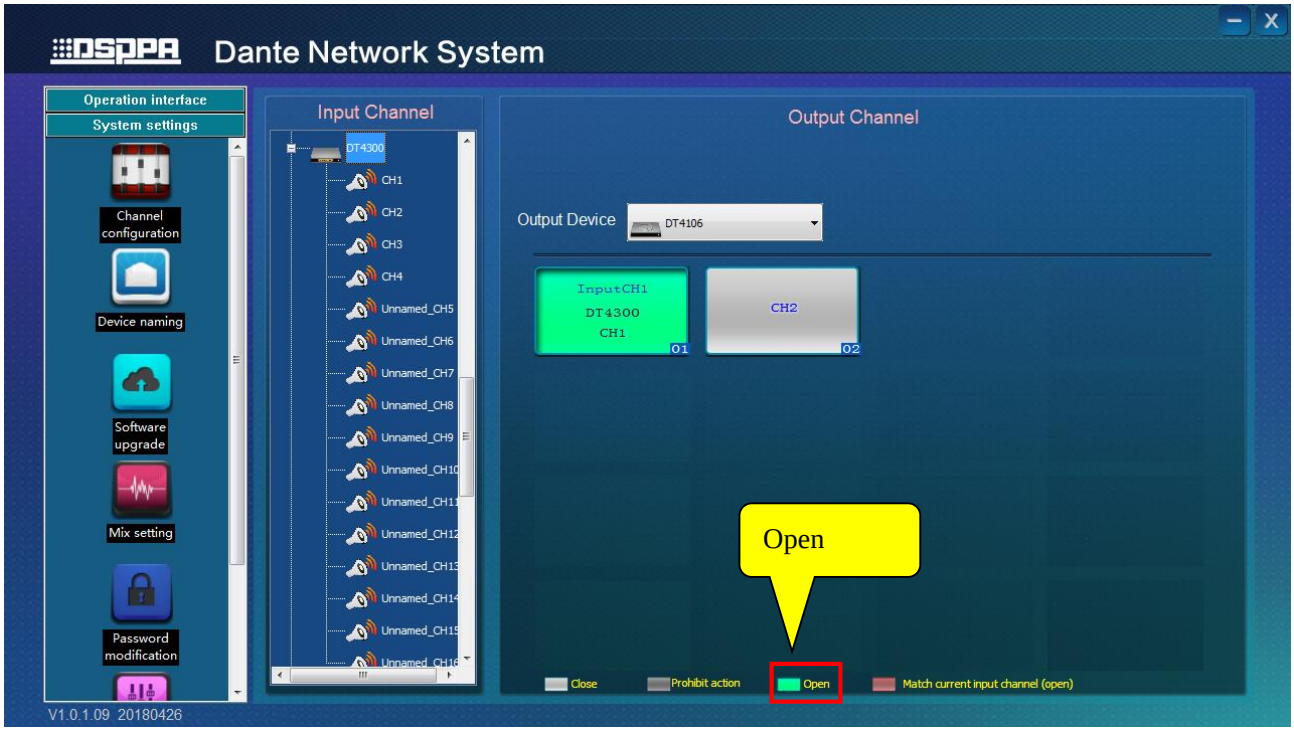
1) When configuring channels, you need to choose audio input channel of device in input channel (such as input CH1 of DT4300 in the following picture) and then choose corresponding device name of output channel (DT4106 in the following picture). Next, click audio output CH1 to export the audio of CH1 of DT4300 to output channel CH1 of DT4106.

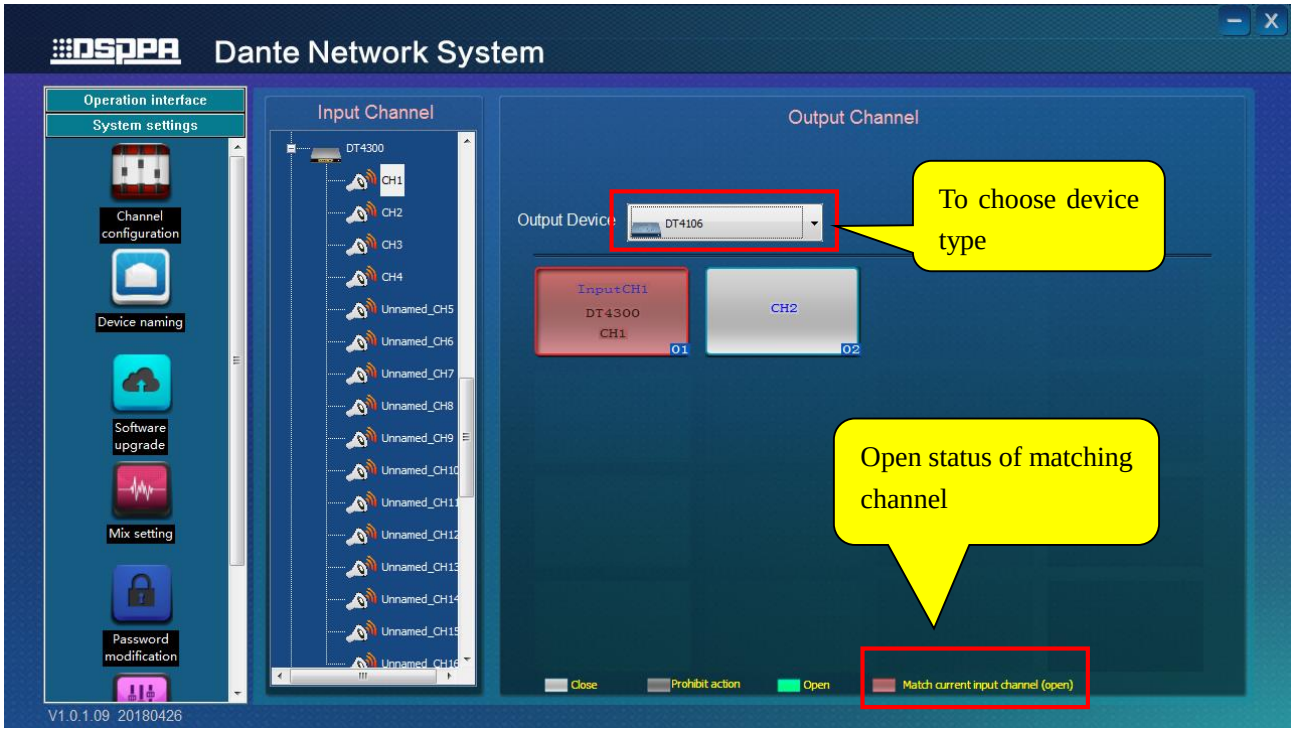


2) Input channel and output channel cannot be of the same device. If doing so, you will see “Prohibit action”



Both red and green indicate that the channel is open. Red specially represents all matching output channel of current input channel.

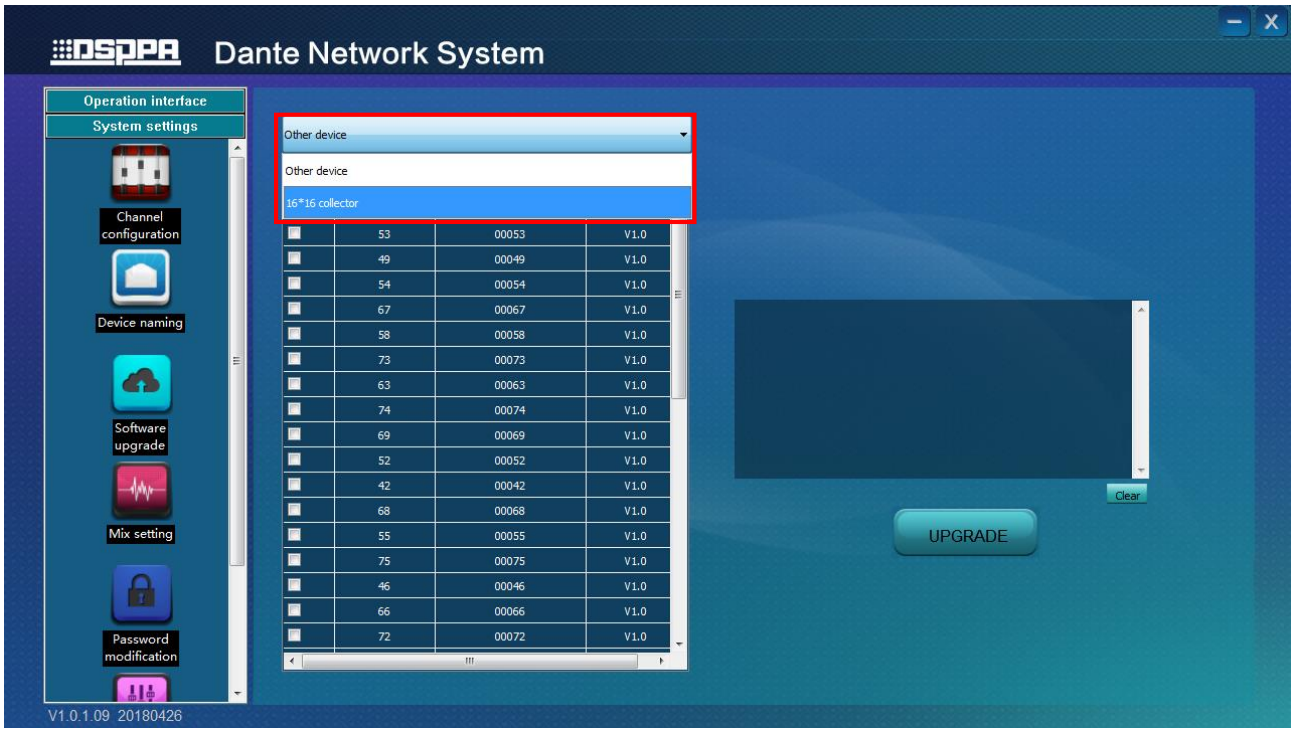


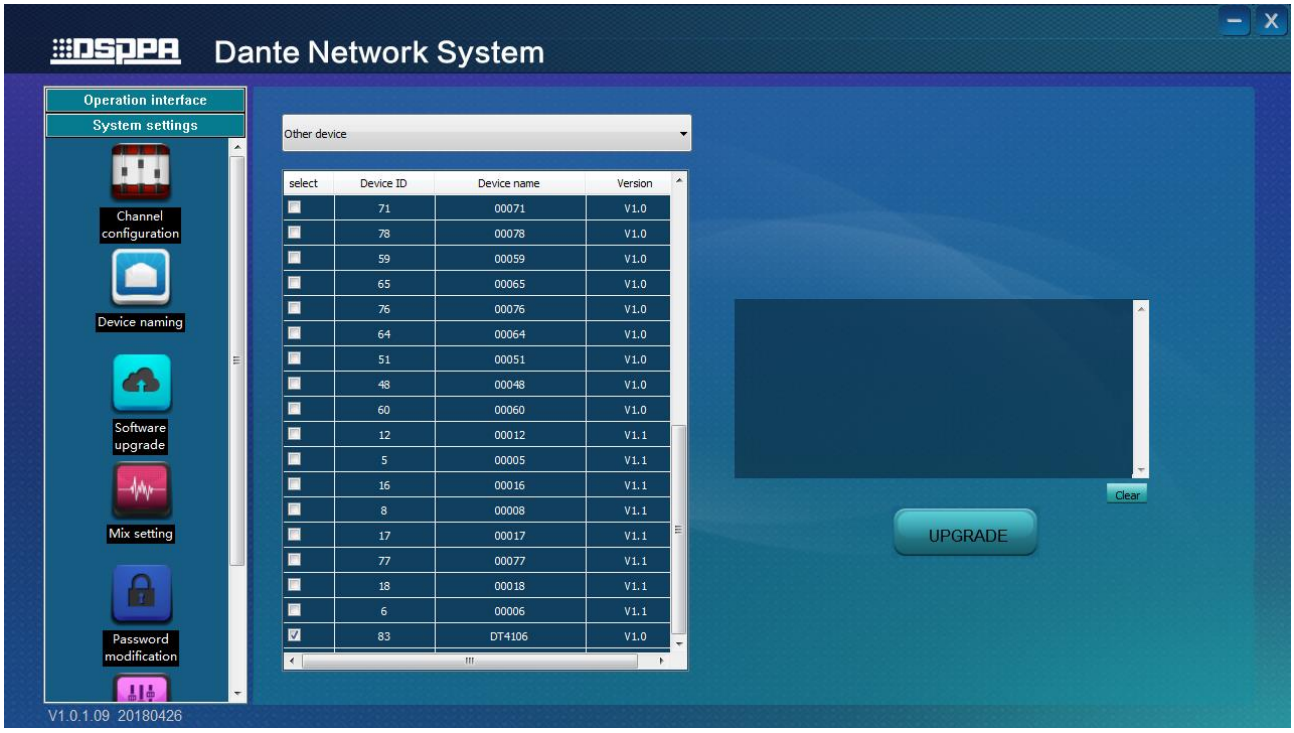


6. Software update

16×16 network interface: please make sure that there is newest update package under "……\update**16x16**". Step: choose 16×16 network interface and check devices that need to be updated. Then click "Update".

Other devices: please make sure that there is newest update package under "……\update**16x16**". Step: choose other devices and check devices that need to be updated. Then click "Update".

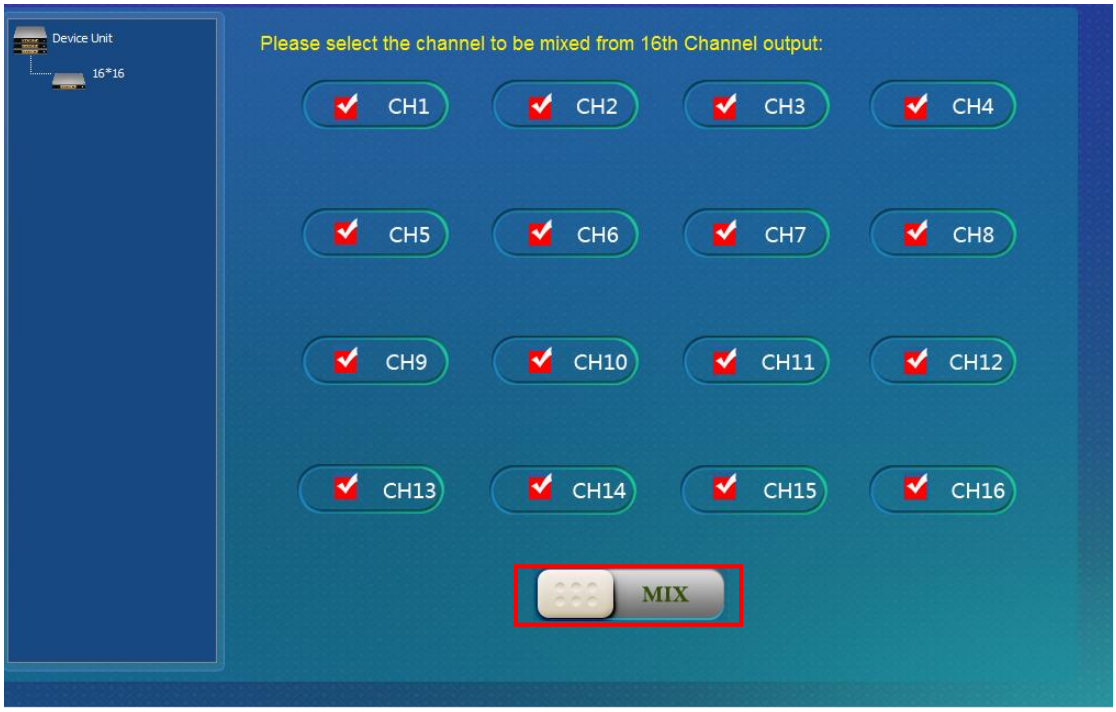




7. Mixing setting

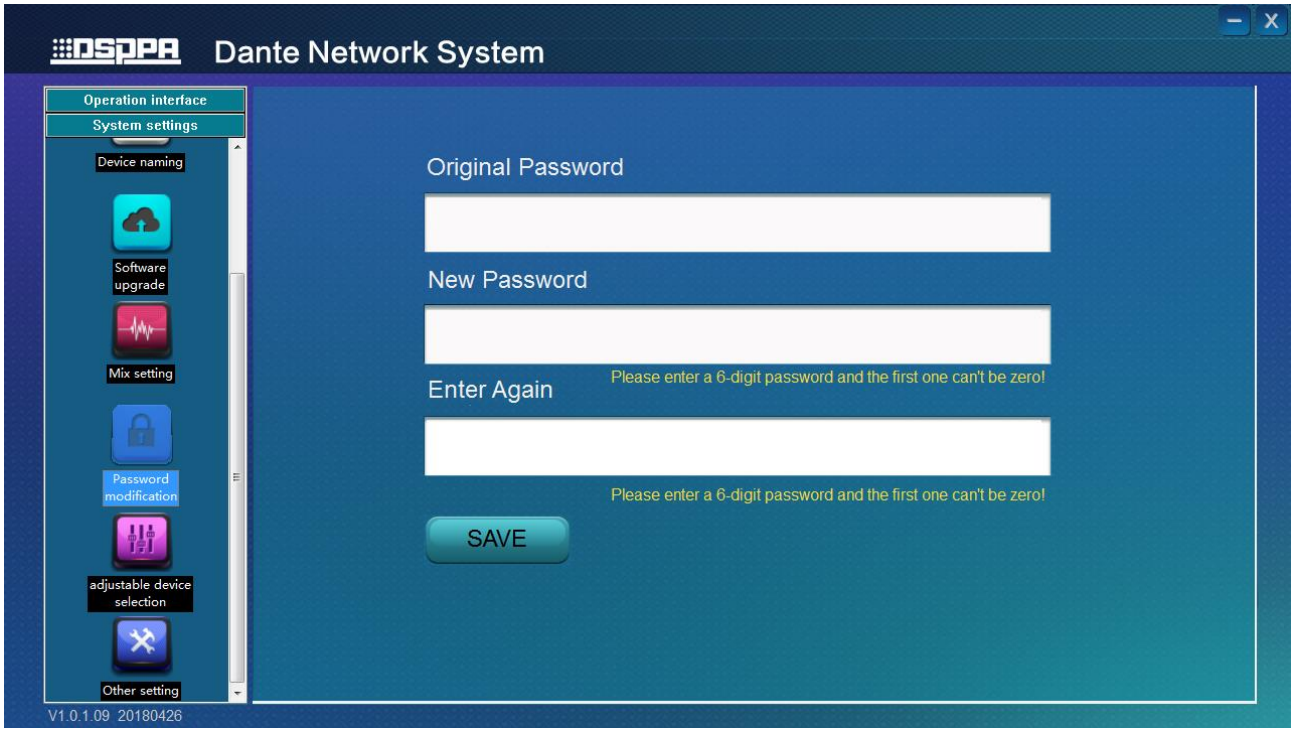
Choose device unit and check the channel need to be set up. Click “Mix” to open 16th channel.

Note: only 16×16 network interface has mixing function.



8. Change password

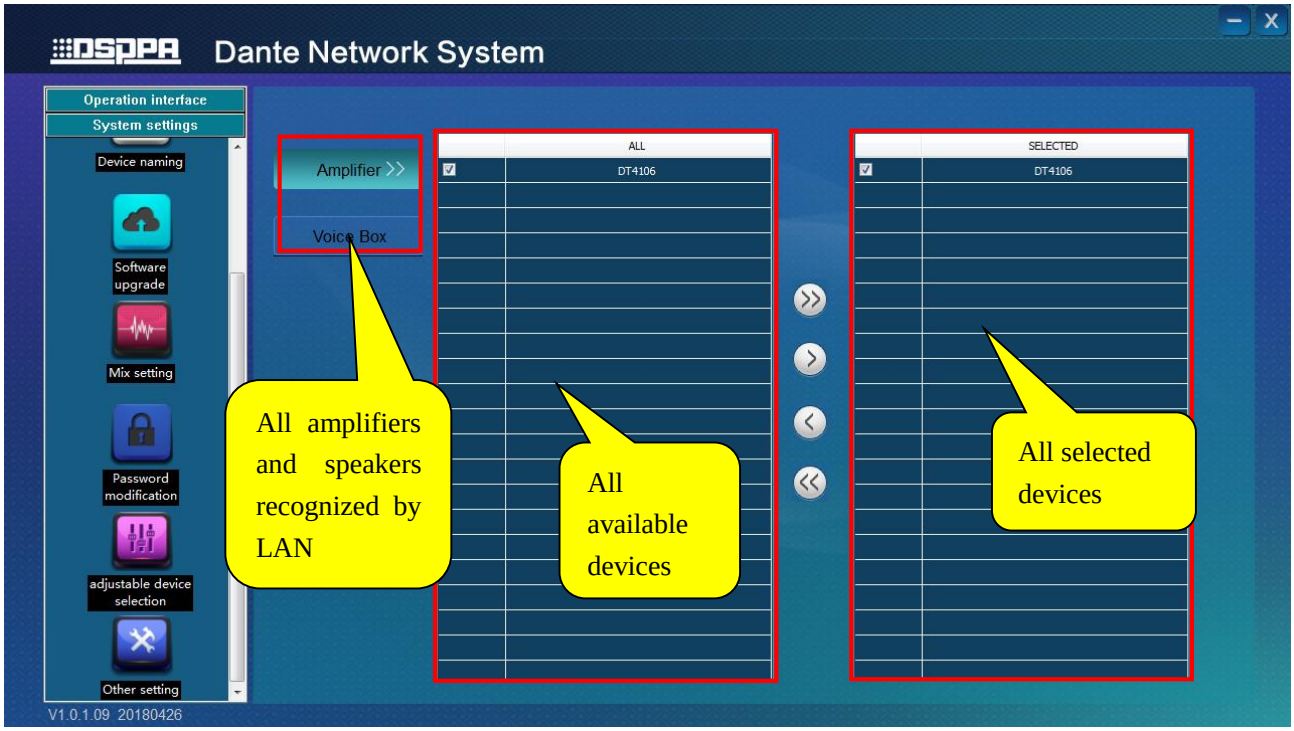
Double click “Change password” to enter the interface. Password is 6-bit.



9. Adjustable device selection

1) Double click "Adjustable device selection" to enter the interface.

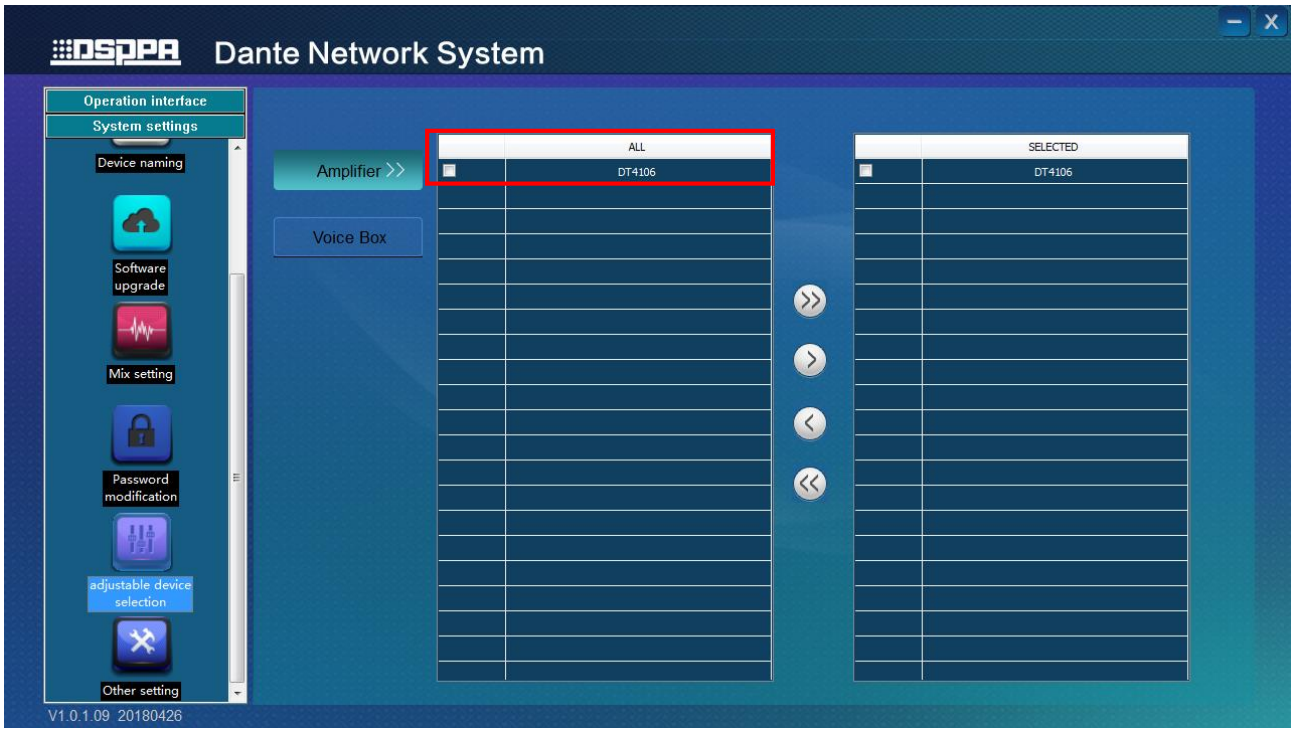
Note: on the left side of the list is the available device. On the right is selected device. You can adjust volume of selected devices in audio setting.

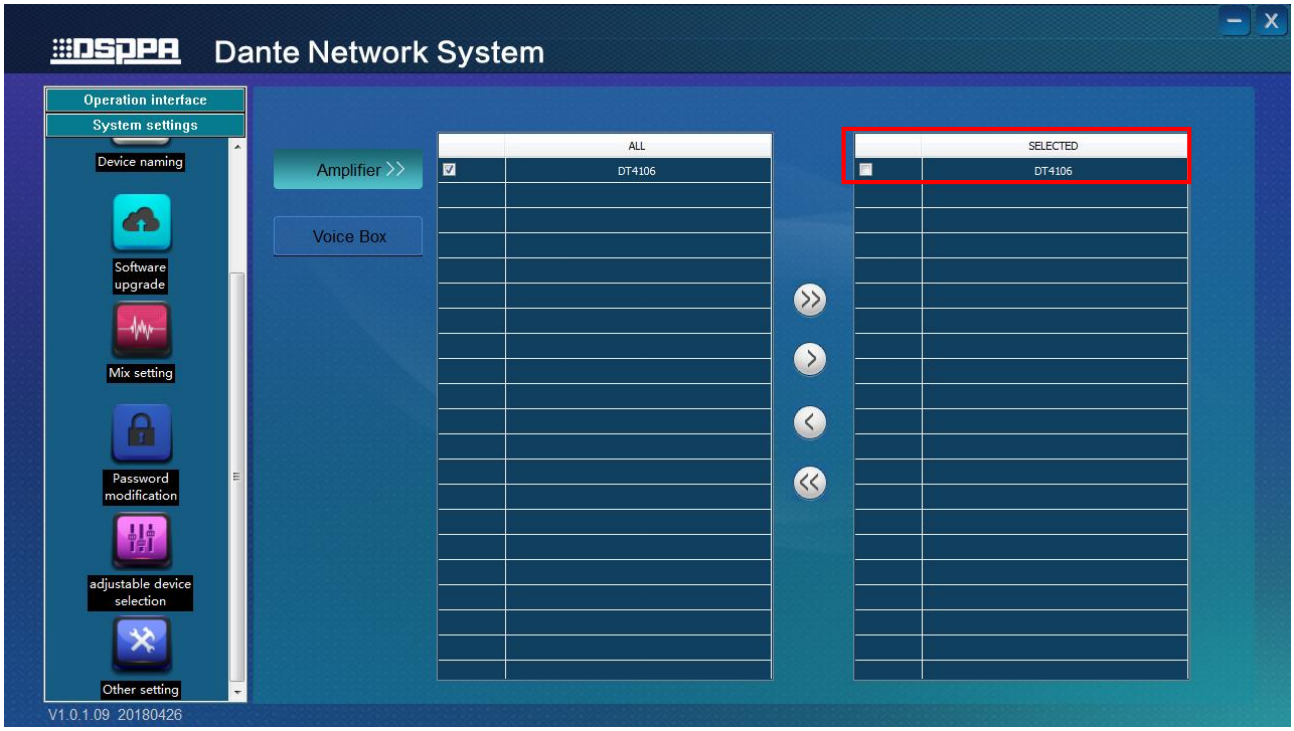


2) Select the amplifier or speaker recognized by LAN and click to select device to the right side. Then you can adjust the volume of DT4106.

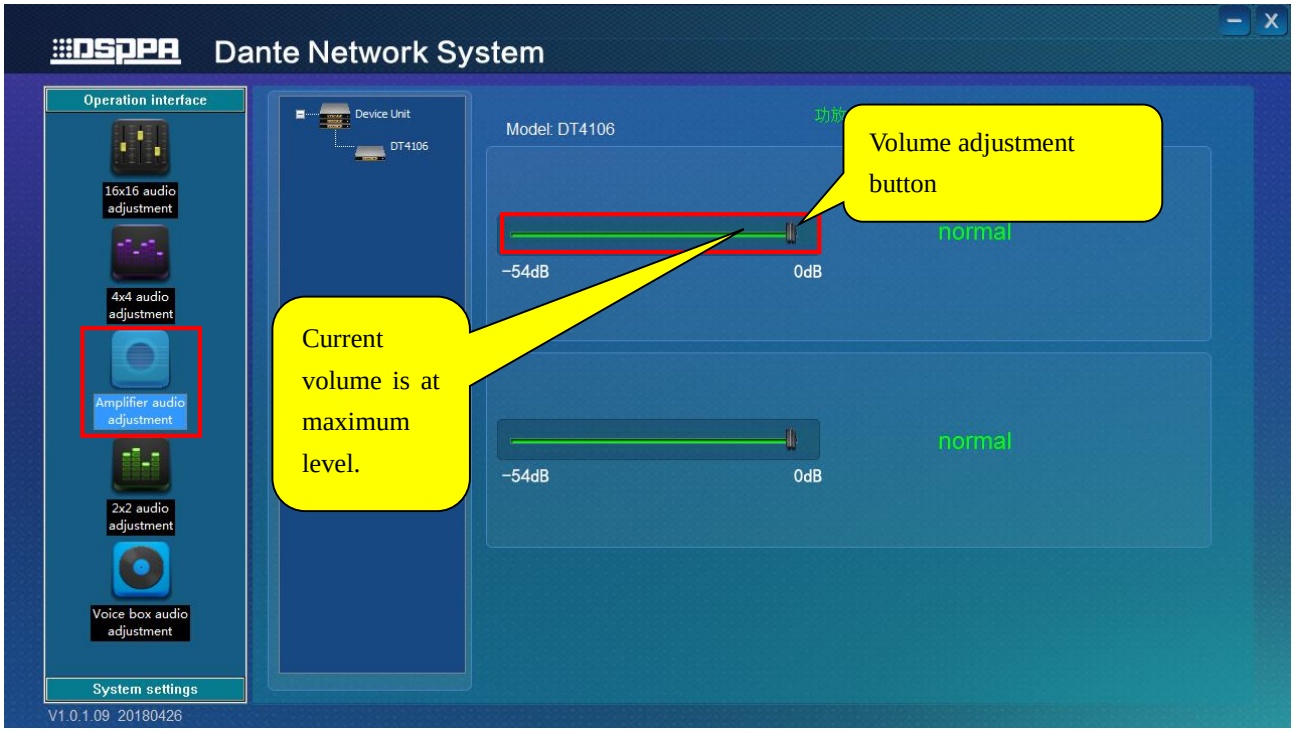
Note: is to make all device on the left to be volume adjustable. is to move single device to the

right and make its volume adjustable. is to move selected device to the left and make its volume not adjustable. is to move all selected devices to the left and make their volume not adjustable.

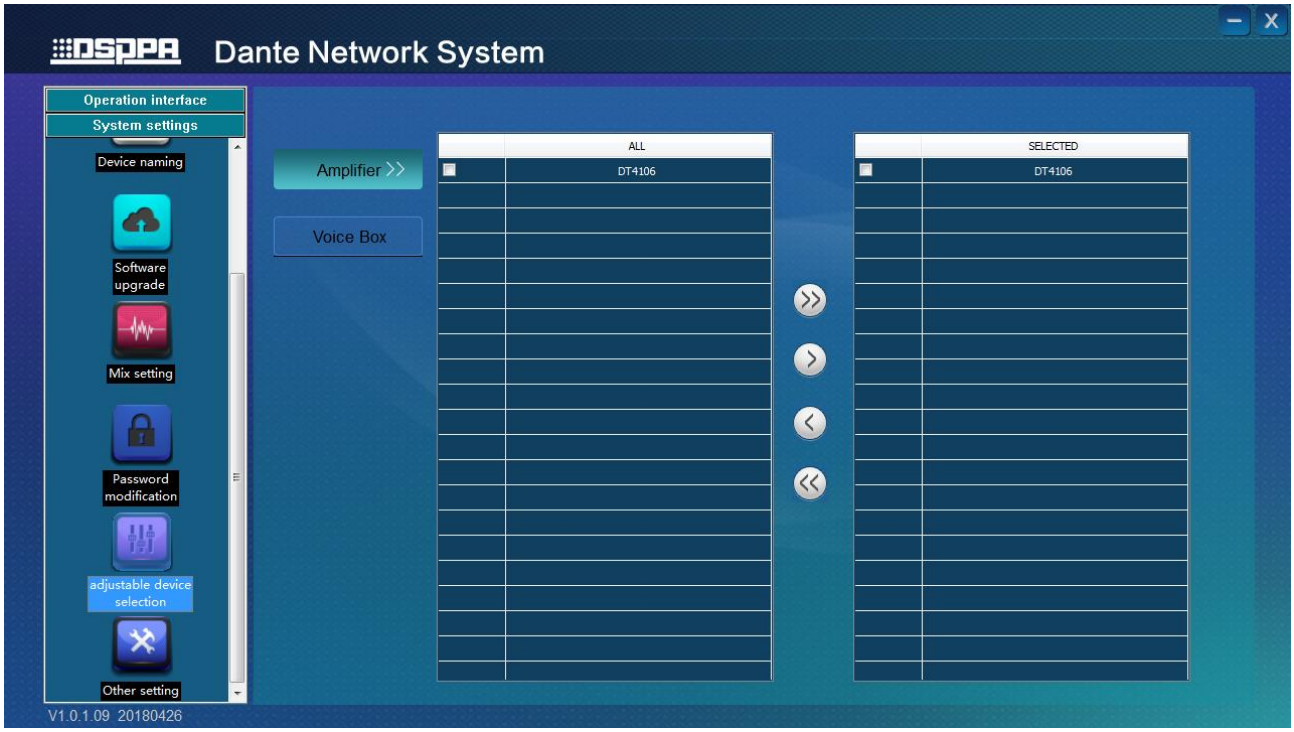




3) Then go back to operation interface and click “Amplifier audio adjustment” to adjust volume of devices read by LAN.



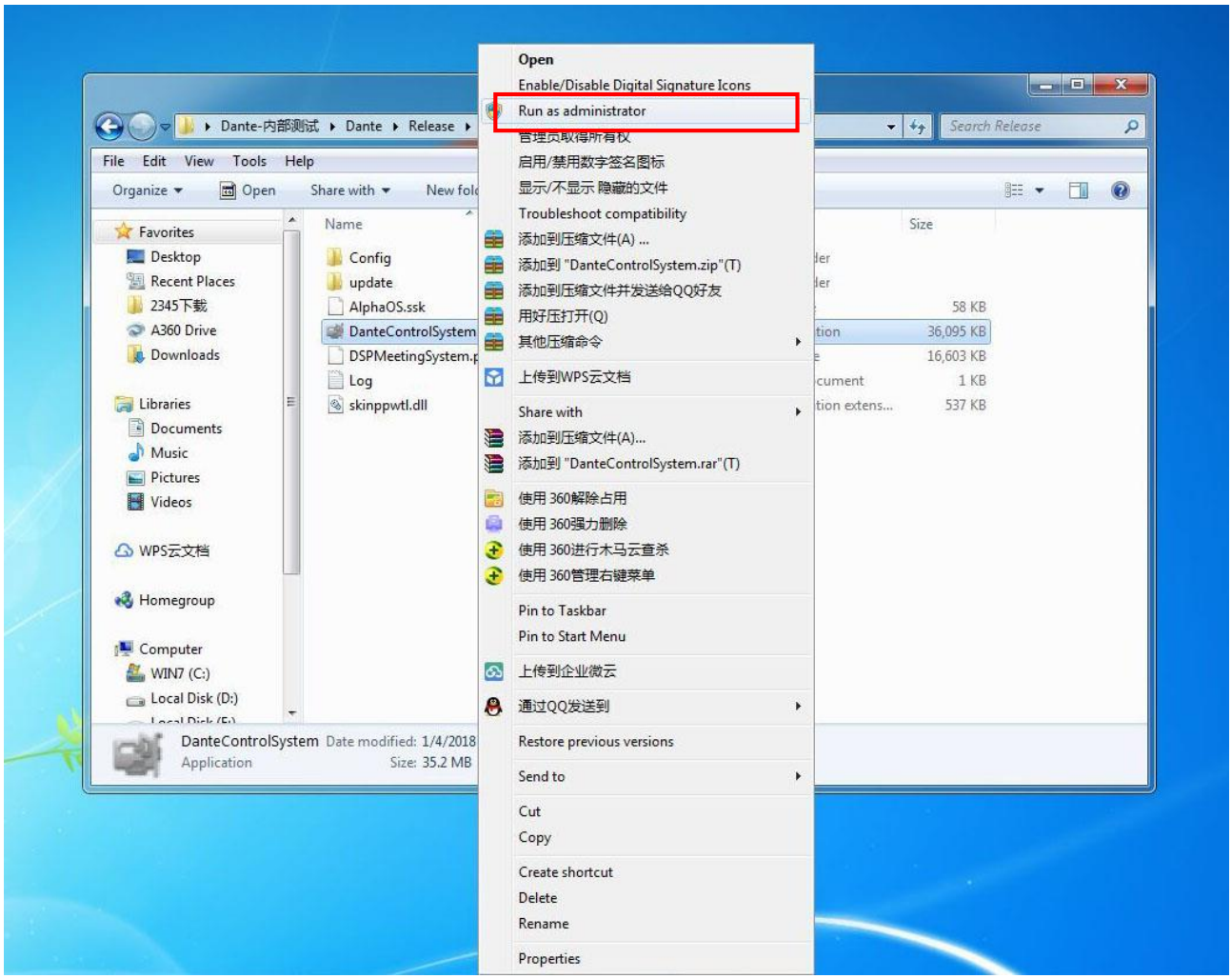
4) As is shown in the following picture, if you choose other devices instead of DT4106, you can check DT4106 on the right list. Then click and the volume of DT4106 will not be adjustable.



4.2 PC Dante ID setting

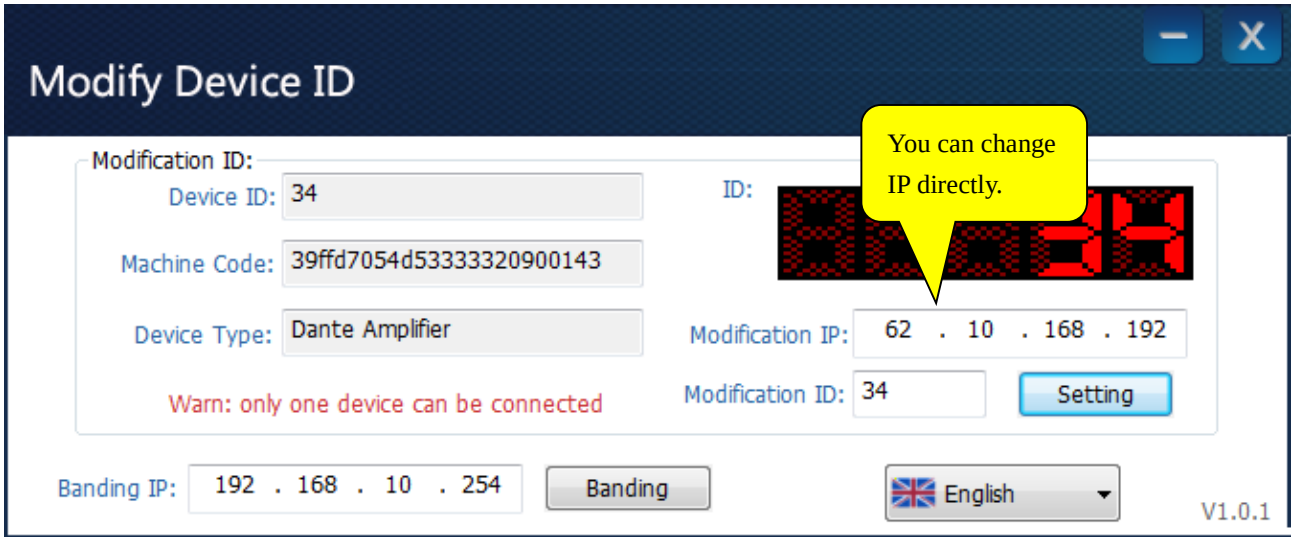
(1) IP setup

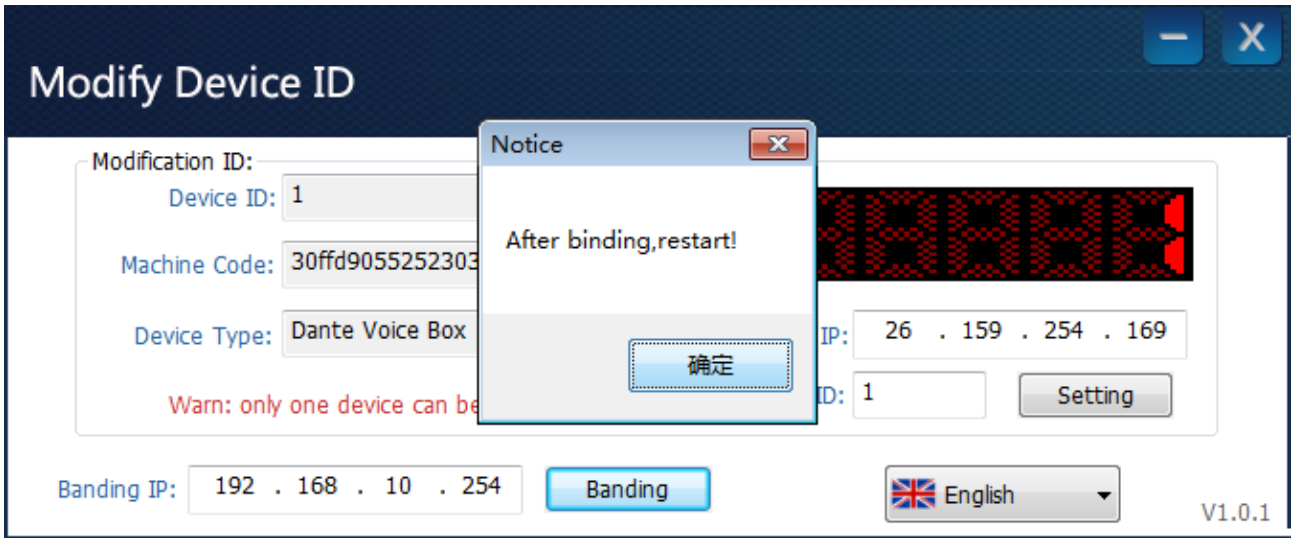
Step1: After installing “DanteSetID” software, right-click and choose “run as administrator” to enter IP modify interface.



Step2: Copy local IP address to dialog box of “Binding IP” (IP acquisition method please refer to text above). Next, click “Binding” and you need to restart software to make the change effective. When you open the software again, please check whether the IP of software is the same as that of your computer.

Setp3: IP of device should be in the same network segment with IP of PC. If not, you can change in the dialog box behind IP address and then click “Set”. System will restart to make change effective.

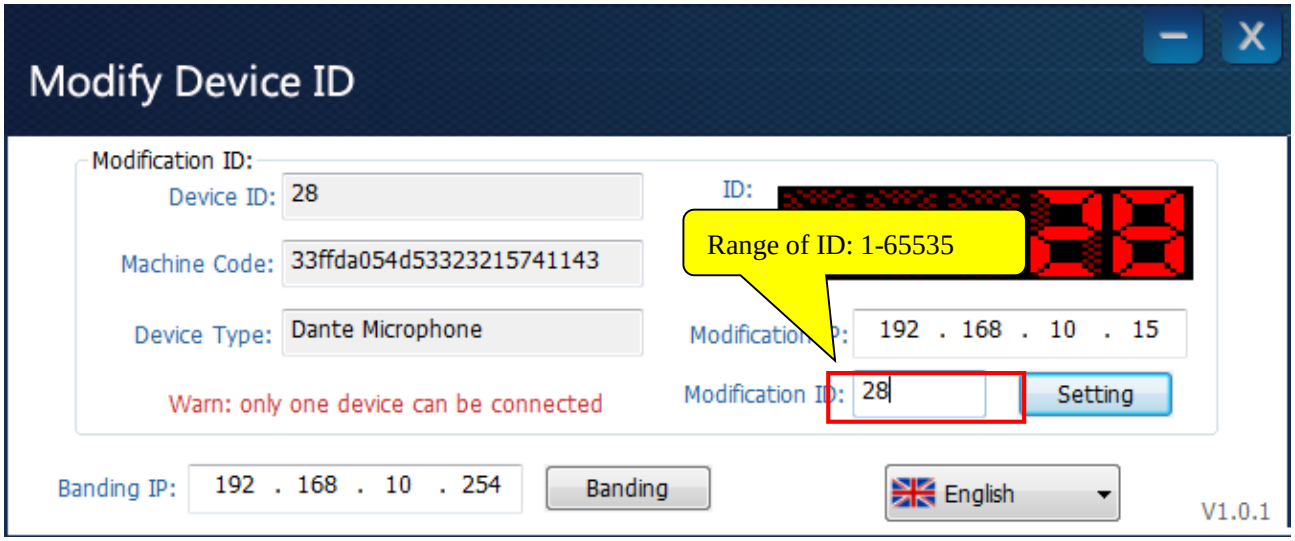


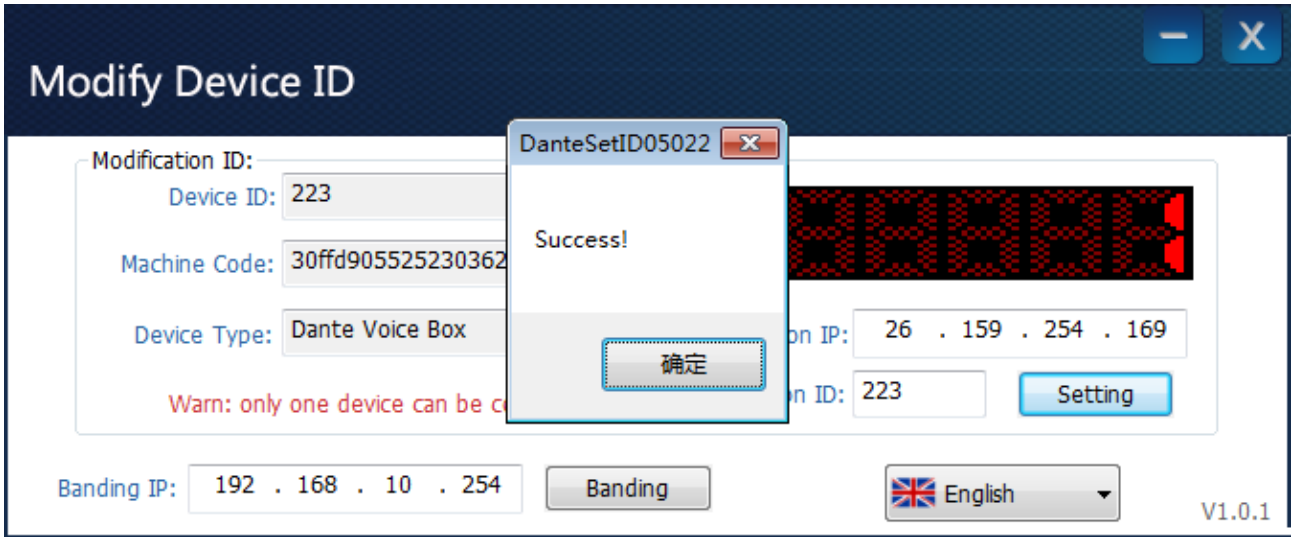


(2) ID setting

You can only change ID of devices that are connected successfully. Two devices cannot use the same ID address. You can change ID after the device is detected by software. First, place your mouse in the dialog box. Next, input ID and then click “Set”. Click “Sure” when you see “Success”.

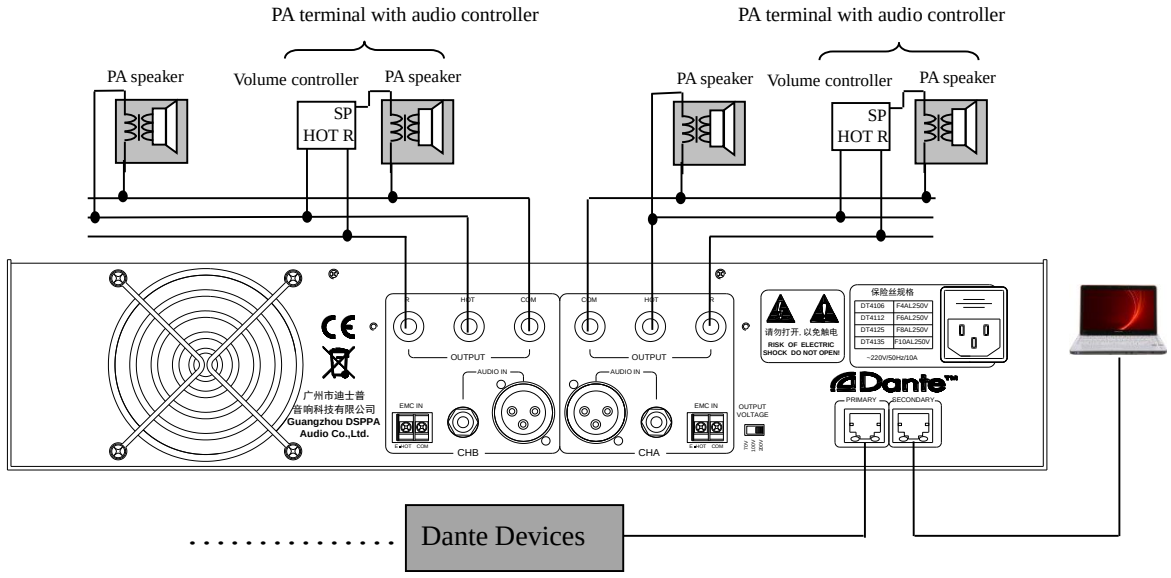
Range of ID is 1-65535.





5. Connection Instruction

5.1 Connection diagram



5.2 Input connection

Audio source should be imported through XLR interface on rear panel (picture 1) or 6.35mm (TRA) interface. Alarm input (EMC IN terminal) can only receive short circuit signal (compatible with DSPPA Dante devices). It could convert analog signal collected by signal interface to digital signal then transmit digital signal to this amplifier by Dante protocol through Ethernet. When this amplifier receive digital signal, it will convert it into analog signal and export to speakers.

5.3 Output connection

Output terminal is on rear panel. Cables could be connected by banana plug or shovel plug. If speakers do not have controller, you can connect to COM or HOT output terminals. If it has, connect R and HOT terminals of audio controller to corresponding terminals of this device. One cable of the speaker should be connected to SP terminal and the other side should be connected to COM of this device. (Please refer to Rear panel and Connection diagram) This device is constant voltage output. So speakers should be equipped with inter-line transformers. Total power should be no greater than the rated power of this amplifier.

Safety Precautions

1. Safety Precautions

- Please do NOT connect this device to the power source, before the system is correctly wired.
- It is important to ensure that input voltage to the device is the same as required voltage of the device, otherwise the device may be damaged.
- There is dangerous voltage in the device, which may cause personal electric shock. Please do NOT open the case without permission, to avoid potential risks of electric shock.
- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please do NOT place the device where it is extremely cold or hot.
- Good ventilation must be provided in the working environment of the device, to avoid excessive temperature during its operation, which may cause damages to the device.
- Please unplug the device from power socket in raining and wet days or if the device is not in use for a long time.
- Please disconnect the power plug from sockets, to ensure the device has been completely disconnected from power source, before any component is removed from or re-installed in the device or before any electric connector of the device is disconnected or reconnected.
- In case of any failure of the device, please do NOT open the case and repair without permission from a professional personnel, to avoid accident or additional damages to the device.
- Please do NOT place any corrosive chemicals near or on the device.

2. Matters needing attention

- Our company provides a three-year free warranty service (including free replacement parts) over quality issues as from the date of purchase, provided that the device is installed and used in accordance with requirements specified in the User Manual.
- For warranty, the user must show the Warranty Card and the receipt kept by the user and purchase invoice of the device as supporting documents.
- The following conditions are beyond the scope of warranty:

  1. Product damage due to improper installation, use or handling;
  2. Product damage due to abnormal conditions (such as excessive power source voltage or ambient humidity);
  3. Product damage due to acts of God;
  4. Product SN is changed, altered or removed;
  5. Product has been repaired or modified by any person without duly authorization from our company;
- Please keep the User Manual and Warranty Card in good custody.
- For issues and precautions not mentioned in this User Manual, if required, please contact the distributor or visit our website at http://www.DSPPA.com.
- In case of any failure in the warranty period, please contact service personnel (or distributor) of our company for service. The company shall not be made liable for damages due to unauthorized dis-assembly or maintenance or service by unauthorized personnel.

Packing List

No.	List	Quantity
1	User Manual	1
2	Warranty Card	1
3	Certificate	1
4	6.35 to RCA Transformation Plug	4
5	SY536 Cable/10000MM/8 Core Cable/V3.2	1
6	SY542 cable/1500MM/Audio Cable	1
7	10A National Standard MP-P Power Cable	1
8	Washer	4
9	Cross Recessed Countersunk Flat Head Screws White /5×19	4
10	Wooden box of Control Software CD of Conference System	1
11	Conference System Disk	1

Specification

Note: The performance specifications are subject to changes without further notification.

Specification	DT4106	DT4112	DT4125	DT4135
Rated output power	60W	120W	250W	350W
Minimum electromotive force	≤1000mV			
SNR	≥85dB (A weighted)			
Adjustment rated of output voltage	From full load to no load ≤3dB			
Frequency response	100Hz~20KHz (±3dB)			
Pitch	100Hz (±12dB)			
	10kHz (±12dB)			
THD	<0.3% (1KHz, normal working status)			
DT4300 INPUT CH1	900-1100mV			
Use PC software to operate	Normal			
Indicator	“Power”, “Clipping”, “Signal”, “Protection”, “No load”			
Protection	High temperature, DC, short circuit			
Power	AC220V/50Hz			
Rated power consumption	200W	400W	800W	1100W
Package size (mm)	(L×W×H) 535×525×195			
Machine size (mm)	(L×W×H) 484×443×88			
Gross weight	18.1kg	20.5kg	24.6kg	26.7kg
Net weight	15.6kg	18kg	22kg	24.2kg

Caution

- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.
- Please do NOT remove the cover of the equipment, otherwise you may get an electric shock. Where necessary, repair to the equipment should be conducted by qualified professionals.
- All terminals on the device marked with ϟ are live and dangerous, and should be connected by trained personnel.
- This is connected to power source via the plug and any failure or danger occurs, the user can disconnect the device from power source by pulling out the plug out from the socket, therefore, it is required that the power socket should be located somewhere with easy access.

Guangzhou DSPPA Audio Co., Ltd