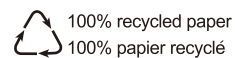




## DAM-208D

20 channels Digital Automatic Mixer  
with Dante interface

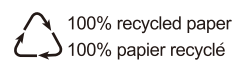
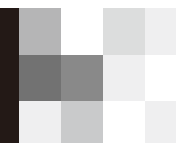


Installation and Operation



## DAM-208D

20 channels Digital Automatic Mixer  
with Dante interface



Installation and Operation

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Packing List.....P3

DAM-208D System Feature Overview.....P4

Device Installation.....P6

User easy to use steps.....P9

Software connection step.....P11

Software function introduction.....P13

DAM-208D conference equipment architecture plan.....P17

Product Specification.....P18

# 09 Product Specification

Dynamic Range (20 Hz to 20 kHz, A-weighted, typical): Analog-to-Analog : 100dB

Harmonic Distortion 1 kHz, +4 dBu out, mix output (MASTER) at +0 dB: <0.05%

S/N (22 Hz - 22 kHz, RMS, A-Filter): 118dB

Common Mode Rejection Ratio 150Ω balanced source, at 1kHz: >60 dB

Number of input channels: MIC \* 8, Line \* 4, Dante \* 4

Maximum Input Level(Gain Max): Mic: +6 dBV, Line: +25dBV

Maximum Gain: Mic: +65dB, Line: +20dB

Number of output channels: Analog x 4, Dante x 4

Maximum Output Level: Line(+0): +21dbu, MIC(-20): +1dbu

Dante Interface: 4x4

AD/DA Converter: 24bit, 48KHz

Internal Processing: 40-bit, floating point DSP

DSP functions: Input, output equalization, limiter, FBK, matrix control, threshold control, high and low pass filter

FRQ range: 20hz-20khz

Phantom Power: +48V/12mA

Network Interface: 10/100 Mbps Ethernet, Dante digital audio

Main Frame Size: EIA standard 1U

Dimensions: 410mm x43mm x206mm

Weight: Approximately 2.7 Kg

Operating Temperature Range: 0~40℃

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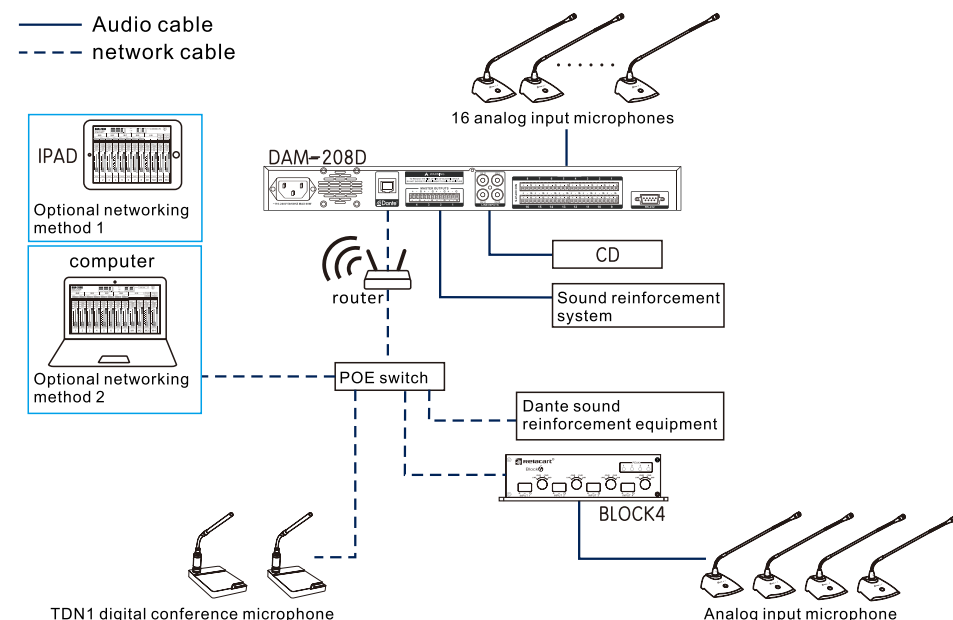
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## 08 DAM-208D conference equipment architecture plan



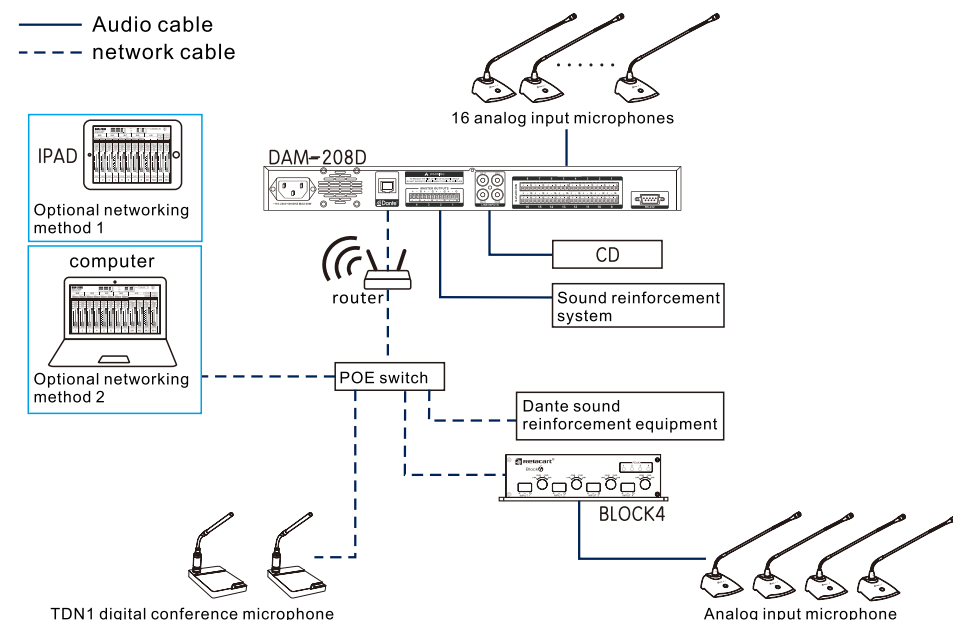
P17

## 01 Safety Operation and Notice

1. Please read instructions for safety operation carefully before installation and operation. Please save your safety operation guide for future reference.
2. Do not scratch, bend, twist, stretch or heat the power cord as this may cause damage to the power cord, resulting in a fire or electric shock.
3. Do not open the device shell, otherwise it may cause electric shock. If you need to repair, maintain or repair, please contact your local agent.
4. Do not touch the power plug with wet hands as this may cause a fire or electric shock.
5. Do not attempt to modify this device. Failure to do so may result in personal injury or product malfunction.
6. Do not use this equipment near water.
7. If the power cord is damaged (such as a broken wire or bare core), obtain replacement parts from your dealer. Continued use of the equipment with a damaged power cord may result in fire or electric shock.
8. To move the device he power, unplug the power cord, and unplug all connecting cables as this may damage the cable, resulting in a fire or electric shock.
9. Before cleaning the device, unplug the power cord and unplug all connecting cables. Please clean it with a dry soft cloth.
10. If the device is not in use for a long time, turn off the power, it is best to unplug the socket
11. With the power plug and appliance coupler as the disconnecting device, it should be kept easy to operate.
12. For the safe use of the equipment and adequate ventilation, the minimum clearance around the equipment should be maintained at a distance of 5 cm or more.
13. DO NOT cover the Ventilation holes, such as: newspaper / fabric / curtains and other items.
14. Equipment should not be placed on a bare flame source, such as: lit candles.
15. Battery should not be exposed to sunshine, roasted or other high temperature overheating environment.
16. Do not throw the waste battery, please put in the designated bins.
17. Water protection rating: IPX0
18. The device can be used normally in tropical / temperate climates.
19. This product is only suitable for safe use at the altitude of 2000m and below.
20. This symbol "⚡" indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
21. All Relacart products will be afforded one year free maintenance except for man-made damage, such as:
  - the device is damaged by man-made factors.
  - the device is damaged by improper operation.
  - some components are damaged or loss after the self-disassembly.

P2

## 08 DAM-208D conference equipment architecture plan



P17

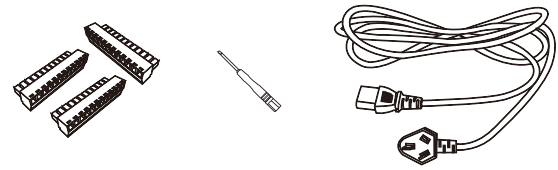
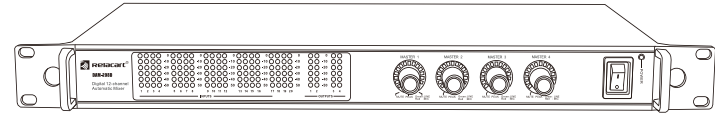
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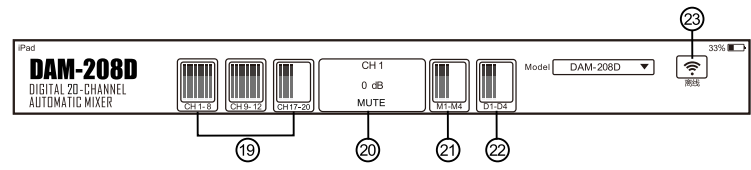
P2

# 02 Packing List

- ◆ Mixer \*1
- ◆ Phoenix plug \*1 set
- ◆ Power cable \*1
- ◆ Easy operation manual \*1 copy
- ◆ 2.5mm screwdriver \*1



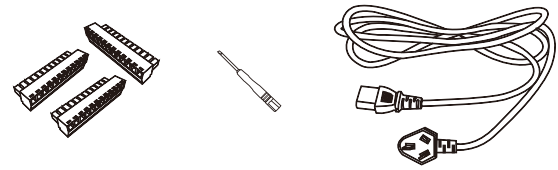
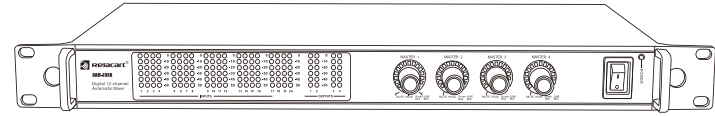
Instruction



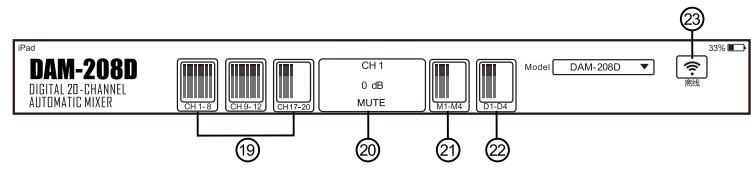
- 19. 20 channels display: Click CH 1-8, the main screen displays 1-8 audio input channels, click CH9-16, the main screen switches to 9-16 audio input channels, and click CH 17-20, main screen switch to 17-20 audio input channels.
- 20. Parameter display: Adjust the parameters displayed on each channel.
- 21. 4-channel channel display: Display 4 main output channels.
- 22. 4-channel channel display: Display 4 DANTE channels.
- 23. WI-FI connection display: After the software and device are successfully connected, the WI-FI icon lights up, and the WI-FI icon is dark after offline.

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Instruction



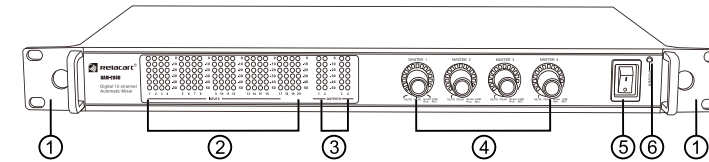
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### 03 DAM-208D System Feature Overview

8. Input volume adjustment fader: Adjust channel output level.
9. Input mute: mute switch.
10. Enter channel name: Editable channel name.
11. Group display: Click "Groups M" to display the mute group, click "Groups C" to display the control group.
12. Output EQ: Adjust the compensation of the speaker and sound field defects, compensate and modify various sound sources.
13. Delay: According to the sound equipment distance setting.
14. Output Compressor: Amplifier with reduced gain as the output signal level increases.
15. LINE: Line and MIC output selector switch.
16. Output volume adjustment fader: Adjust channel output level.
17. Output mute: mute switch.
18. Output Channel Name: Editable Channel Name.

The front panel



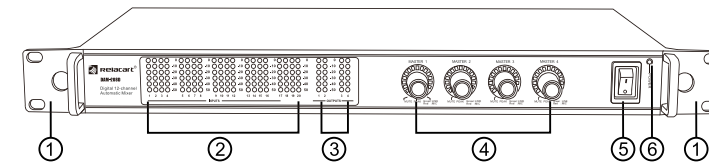
1. Rack mount kit: fixed installation.
2. Input audio indicator: display input level value in real time.
3. Output audio indicator: display output level value in real time.
4. Output encoder: adjusts the level and function of the analog output channel.
5. Power switch: turn on or off the power of the device.
6. Power switch indicator: after power on, the indicator light will be on.

indicator light	Audio signal level	state
red	(6) 0 dBFS	Overload
yellow	(5) -10 dBFS	Near overload
green	(4) -20 dBFS	Normal signal
	(3) -30 dBFS	
	(2) -40 dBFS	
	(1) -50 dBFS	

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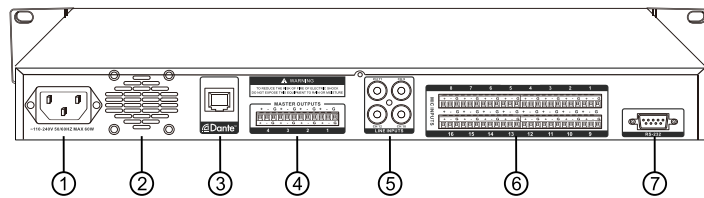
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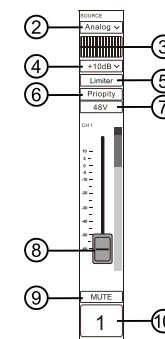
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## Rear panel

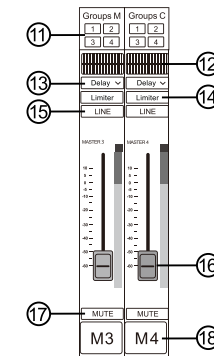


1. AC power input: IEC connector, 100-240 volts AC.
2. Cooling fan: It can dissipate heat for internal components, making the whole machine work more stable.
3. Ethernet / Dante network port: Connect to Ethernet to enable remote device control via DAM-208D software. It also transmits Dante digital audio and control signals for audio distribution, monitoring and recording - see the "Dante Network" topic.
4. Main analog audio output: 3P fast connector balanced output, can be set to microphone or line level output, 4 channels optional.
5. RCA audio line input: can input line signals, such as: DVD, CD and other audio.
6. Channel 1-16 audio input: 3P quick connector balanced input, with 48V phantom power, can be set to microphone or line input.
7. Cascade connection port ( RS-232 ) : can be connected to video tracking or central control equipment.

## Input field:

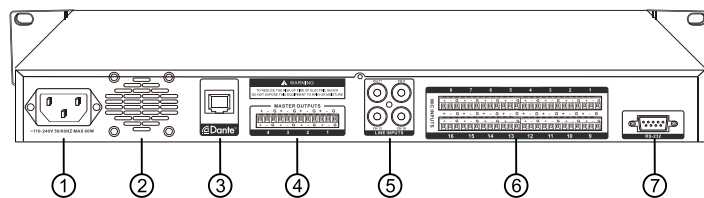


## Output field:



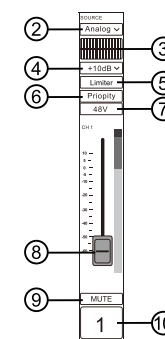
2. Analog: Analog or Dante selector switch.
3. Input EQ: Adjust the compensation of the speaker and sound field defects, compensate and modify various sound sources.
4. Input Gain: Adjust Channel Input Gain.
5. Input Compressor: Amplifier with reduced gain as the input signal level increases.
6. Priority: not limited by the number of microphones, long-term open.
7. 48V: 48V phantom power switch.

## Rear panel

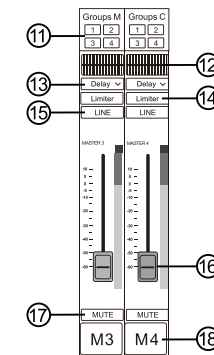


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## Input field:



## Output field:

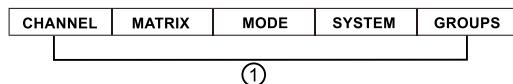


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## 07 Software function introduction

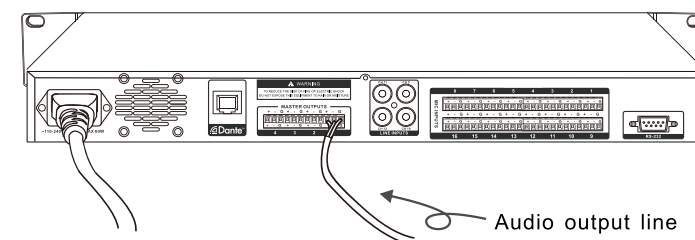
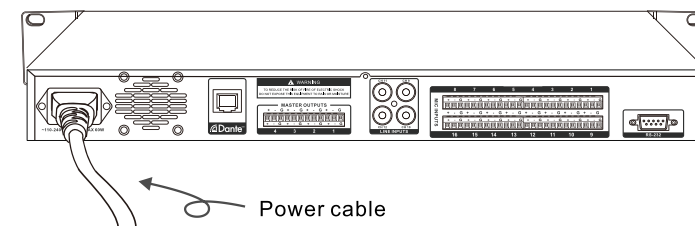
### Software Download

- ◆ Apple IPAD download: open APP STORE, search DAM-208D.
- ◆ PC version software download: enter the official website [www.relacart.com](http://www.relacart.com) in the download area to search DAM-208D software.



1. Navigation bar: Channel: Show all channels.  
Matrix: Multiple signals input and output exchange, the output of any one signal can be freely selected.  
Mode: Set the mix parameters.  
System: set the device communication, scene saving, firmware upgrade, factory reset, etc.  
Group: Mute group and control group settings.

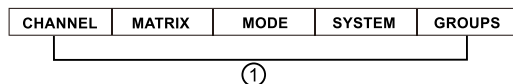
## 04 Device Installation



## 07 Software function introduction

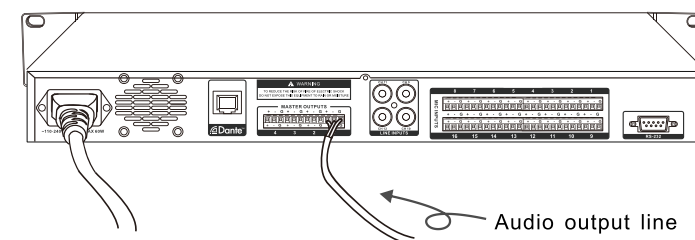
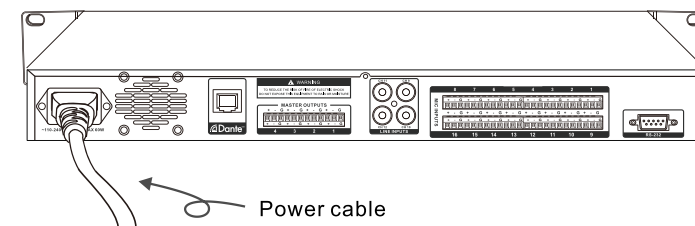
### Software Download

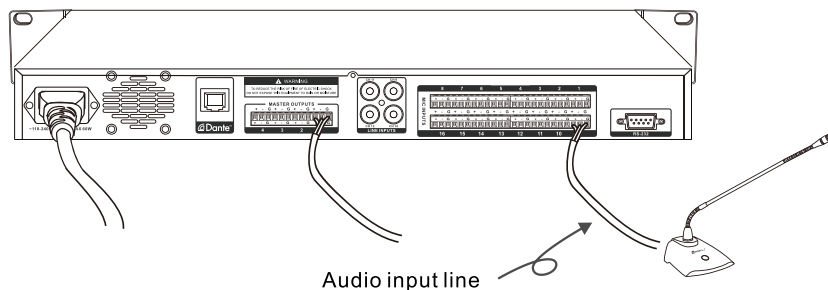
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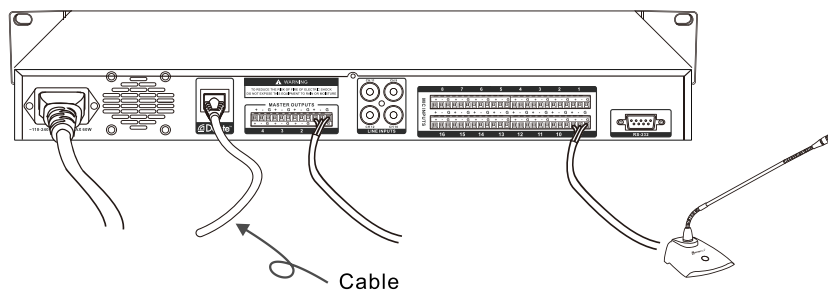
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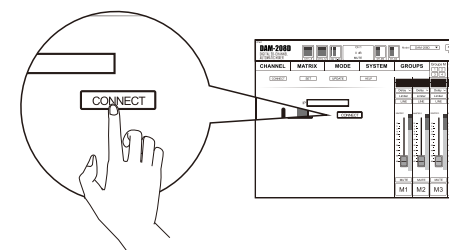


Audio input line

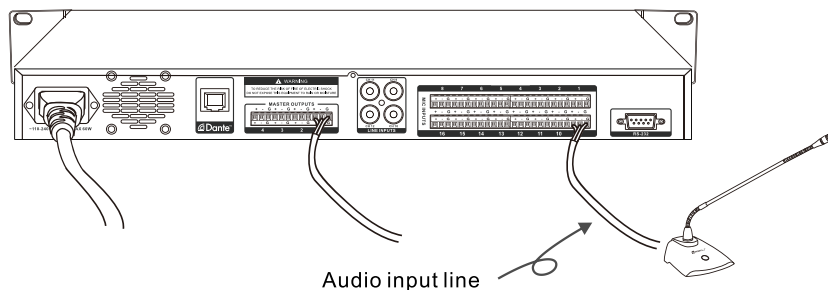
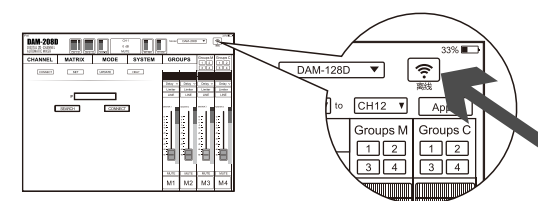


Cable

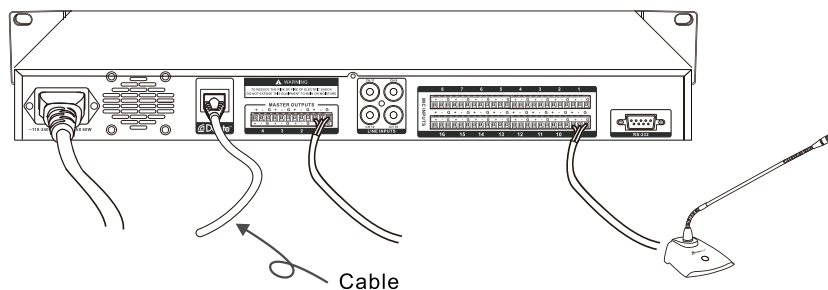
After searching for the IP address, click the IP address and press "CONNECT".



The WiFi icon "📶" lights up and the connection is successful.

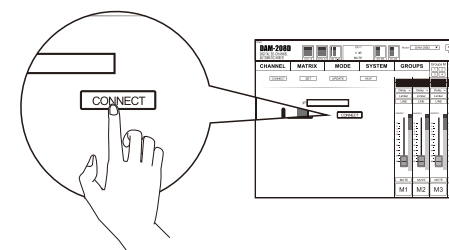


Audio input line

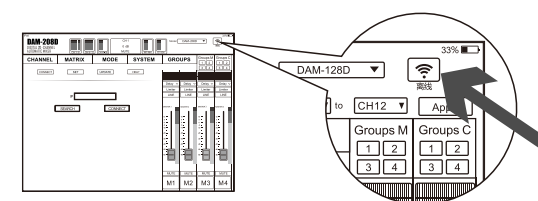


Cable

After searching for the IP address, click the IP address and press "CONNECT".

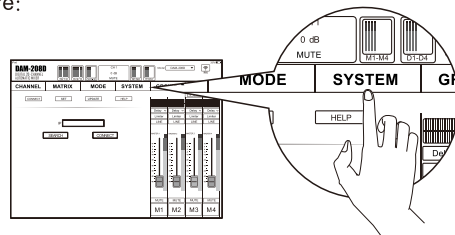


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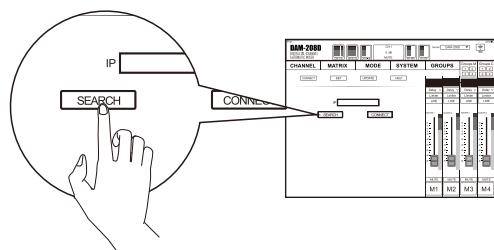


## 06 Software connection step

1. Connect the WIFI of the IPAD to the wireless WIFI router (DAM-208D should also be connected to the router)
2. Open the DAM-208D software and select the "System" page in the navigation bar, as shown in the figure:

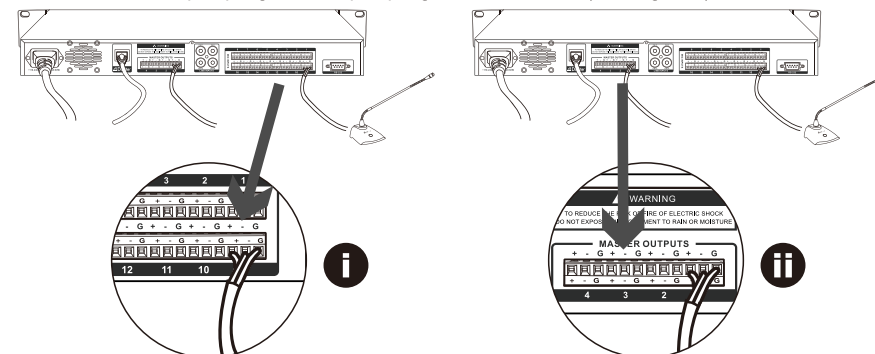


Press "SEARCH" box to search the IP address, as shown in figure.



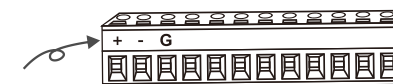
P11

Note: Phoenix output plugs and input plugs are reversed (see figure:)



(Audio input jack connector down)

(Audio output jack interface up)

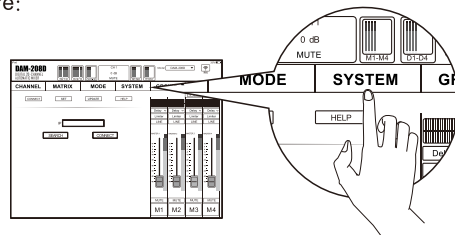


(Socket wiring diagram)

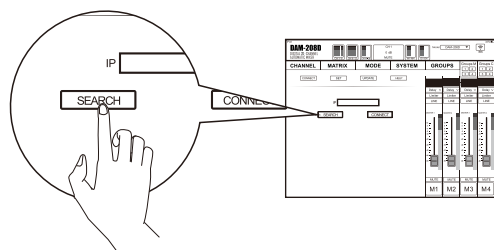
P8

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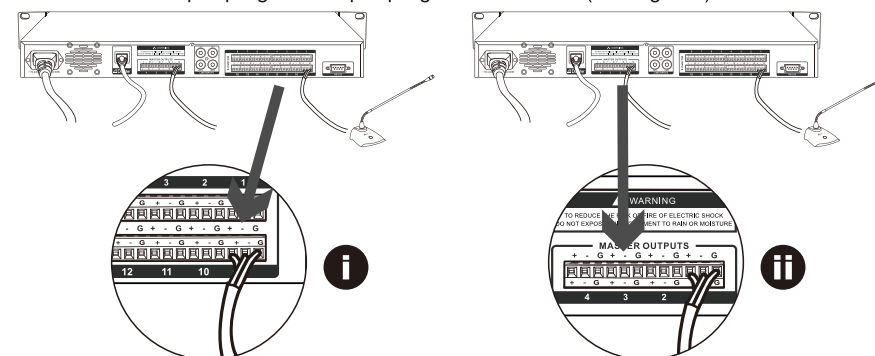


Press "SEARCH" box to search the IP address, as shown in figure.



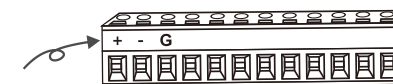
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(Audio output jack interface up)

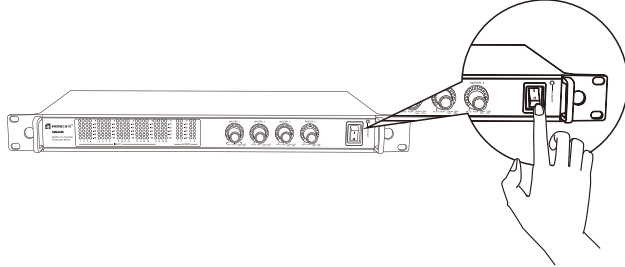


(Socket wiring diagram)

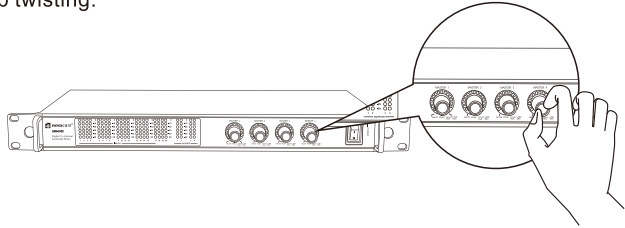
P8

## 05 User easy to use steps

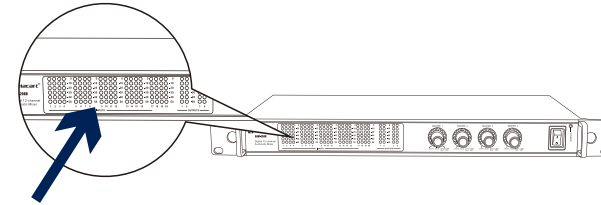
Turn the switch up, the POWER indicator lights up, and the power is turned on successfully.



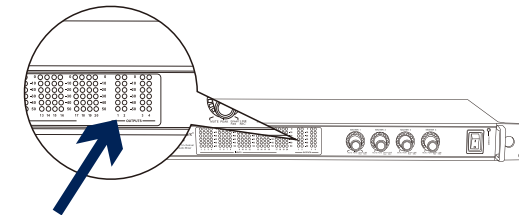
Debug the output channel volume. When the volume is adjusted, the knob indicator changes with the knob twisting.



When the input microphone speaks, the corresponding input indicator jumps.

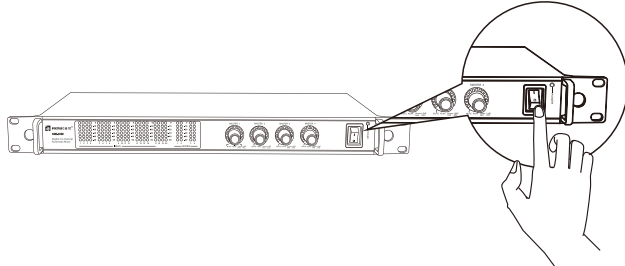


Adjust the volume of output channel, when input microphone speech the output level value of the indicator shows the current channel's output.

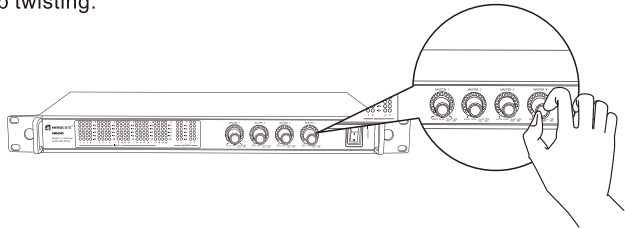


## 05 User easy to use steps

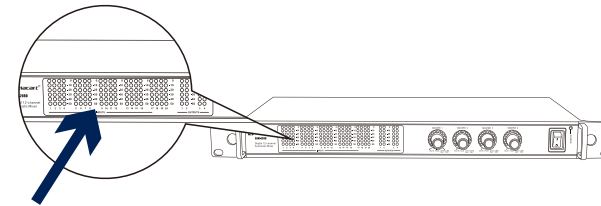
Turn the switch up, the POWER indicator lights up, and the power is turned on successfully.



Debug the output channel volume. When the volume is adjusted, the knob indicator changes with the knob twisting.



When the input microphone speaks, the corresponding input indicator jumps.



Adjust the volume of output channel, when input microphone speech the output level value of the indicator shows the current channel's output.

