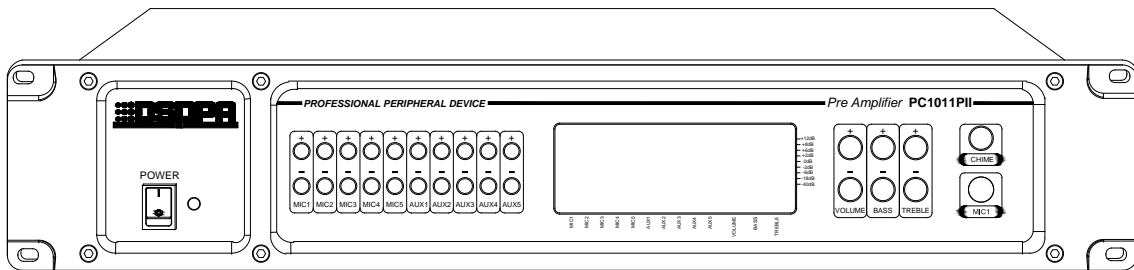**Public Address System**

Pre Amplifier   **PC1011PII**

User's Manual

Thank you for using DSPPA Public Address System. For better use of the product, please read this manual carefully before use.
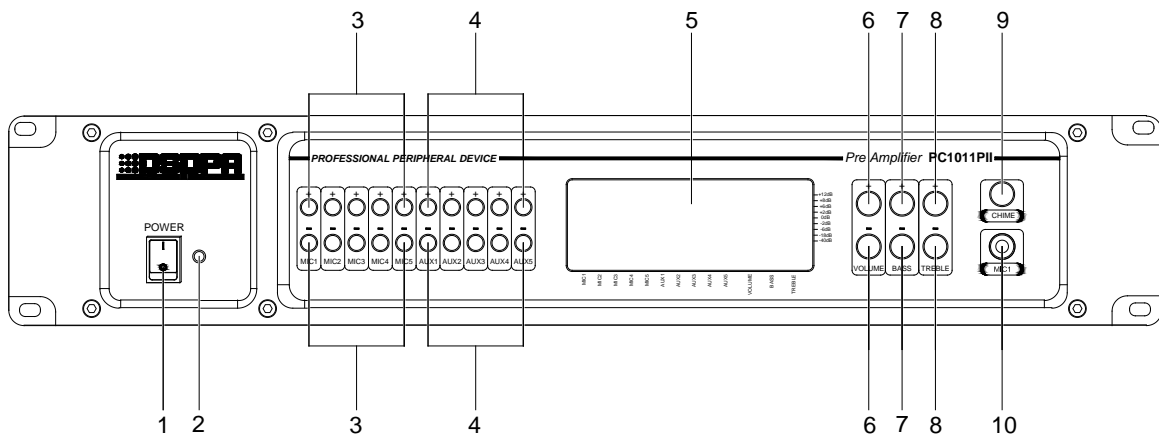
Guangzhou DSPPA Audio Co., Ltd.

http: //www.DSPPA.com

Contents

A. Characteristics of product

- **Diversified and multiple input / output ports: One (1) non-equilibrium priority microphone port; two (2) non-equilibrium microphone ports; two (2) equilibrium microphone ports; three (3) audio non-equilibrium input ports; two (2) audio equilibrium input ports; two (2) EMC emergency input ports; two (2) output ports.**
- **Fully feather-touch keys operation.**
- **The independent control of the volume of various channels, and the control of the master volume.**
- **Control of treble and bass tune.**
- **LCD highlighting the volume scale positions and values of the channels, dynamic amplitude of signal, and the scale positions of treble and bass tune and so on.**
- **Priority function, and automatic muting (with function of intrusion).**
- **Built-in bell tone generator.**
- **Function of receiving PC remote control.**
- **Function of address setting, by which a set of system is able to connect up to 16 local machines in a parallel manner.**
- **Three voltage operation modes including AC110V/AC220V/DC24V.**

B. Introduction to appearance function

(A) Front panel

1. Power switch

Press down the position "I" to turn on the power, and press down the position "0" to turn off the power.

2. Power indicator lamp

When turning on the power, the indicator lamp is on; when turning off the power, the indictor lamp is off.

3. MIC1-MIC5 volume control buttons

Buttons MIC1 through MIC5 are used to regulate the volumes of the five microphones respectively. Button '+' is used to increase the volume, and the button '-' is used to decrease the volume, with the amplitude displayed on the display screen in a real-time manner:

Display of numeral: The maximum volume is "79", and the minimum volume is "00".

Display of scale: In case of increase in volume, the scale cursor moves upward; in case of decrease in

volume, the scale cursor moves downward.

4. AUX1-AUX5 volume control button

Buttons AUX1 through AUX5 are used to regulate the volumes of the five auxiliary inputs respectively. Button '+' is used to increase the volume, and the button '-' is used to decrease the volume, with the amplitude displayed on the display screen in a real-time manner:

Display of numeral: The maximum volume is "79", and the minimum volume is "00".

Display of scale: In case of increase in volume, the scale cursor moves upward; in case of decrease in volume, the scale cursor moves downward.

5. Display screen

It is used to display the operation status of the equipment, for example:

① To read the volume scale and numeral of various channels directly from the screen;

② The dynamic display of output signal, and the display of the positions of treble and bass scales;

③ When regulating the parameters, the changes in the parameters are displayed on the screen in a real-time manner.

6. Master volume control button

The button VOLUME is used to regulate the master output volume. Button '+' is used to increase the volume, and the button '-' is used to decrease the volume, with the amplitude displayed on the display screen in a real-time manner:
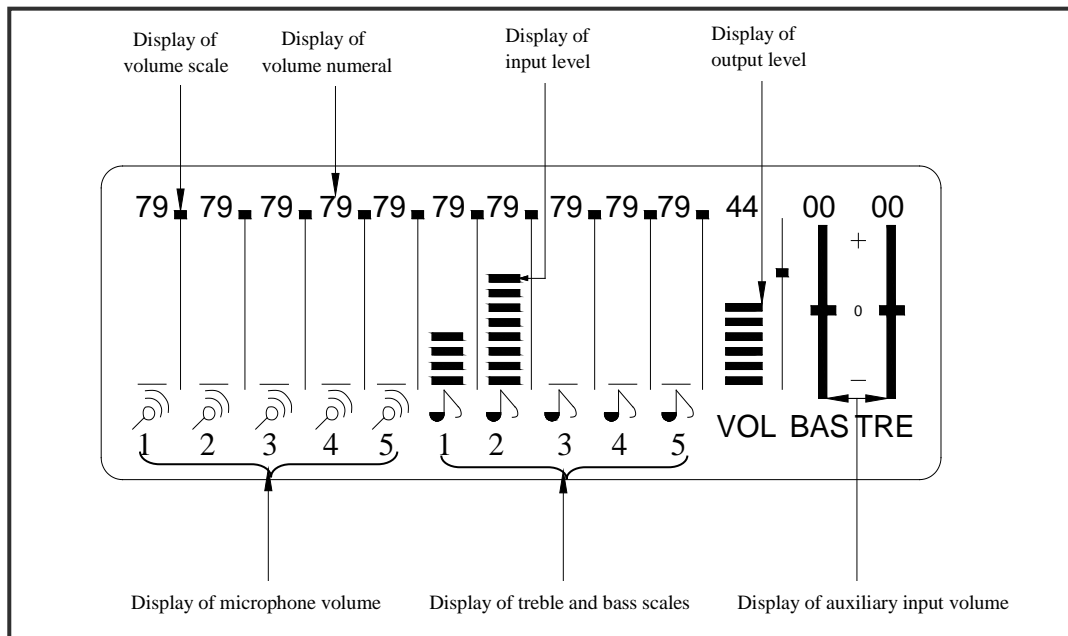
Display of numeral: The maximum volume is "79", and the minimum volume is "00".

Display of scale: In case of increase in volume, the scale cursor moves upward; in case of decrease in volume, the scale cursor moves downward.

7. Bass control button

Button BASS is used to increase or attenuate the tune of the bass. Button '+' is used to increase the tune of bass, and the button '-' is used to attenuate the tune of the bass, with the amplitude displayed on the display screen in a real-time manner:

Display of numeral: The maximum amplitude of bass increase is "+10", and the maximum amplitude of bass attenuation is "-10".

Display of scale: In case of increase in bass tune, the scale cursor moves upward; in case of attenuation

in bass tune, the scale cursor moves downward.

Attention: If it is not necessary to increase or attenuate the bass tune, please turn the bass tune to the position of scale "0".

8. Treble control button

Button TREBLE is used to increase or attenuate the tune of the treble. Button '+' is used to increase the tune of treble, and the button '-' is used to attenuate the tune of treble, with the amplitude displayed on the display screen in a real-time manner:

Display of numeral: The maximum amplitude of treble increase is "+10", and the maximum amplitude of treble attenuation is "-10".

Display of scale: In case of increase in treble tune, the scale cursor moves upward; in case of attenuation in treble tune, the scale cursor moves downward.

Attention: If it is not necessary to increase or attenuate the treble tune, please turn the treble tune to the position of scale "0".
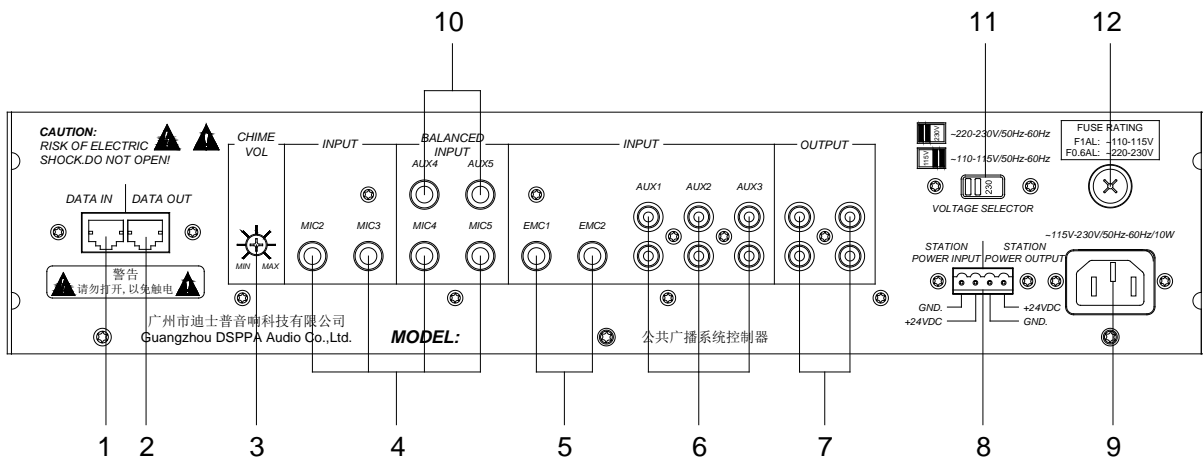
9. Bell tune button

Press this button to make a string of prompt bell tunes "1－3－5－ì－" so as to catch the attention of the audience.

10. MIC1 input port

It is the MIC (microphone) input port with the highest priority, and the signal input through which will automatically restrain the signals input from other input ports.

(B) Rear panel

1. Remote-control input port

The remote-control input port connected to the previous equipment

2. Remote-control output port

The remote-control input port connected to the next equipment.
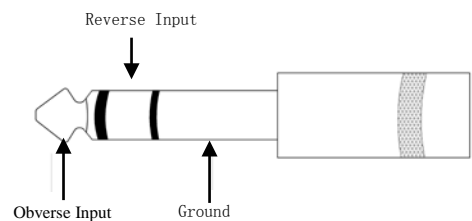
3. Bell tune control knob

To regulate the output volume of the bell tune by turning clockwise and turning counterclockwise to decrease the volume.

4. MIC2, 3, 4, and 5 input ports

The microphone 2 to 5 input ports are connected by use of 6.35mm plug.

The microphone port has three non-equilibrium ports and two equilibrium ports.

The plug of the non-equilibrium port is as shown in the right figure.

（Legend of 6.35mm plug）

5. EMC1 and 2 input ports

Such two ports are used to connect the alarm signal and timely bell tune with the priority only second to that of the MIC1 port. It is recommended to connect the microphone for emergency broadcasting to "MIC1", to connect the sound source for local calls to "EMC1", and to connect the timely bell tune to "EMC2" by means of the 6.35mm plug.

6. AUX1, 2 and 3 inputs

Such tree input ports are used to input the peripheral sound source signals, such as CD, cassette deck and tuner, which are connected by means of the lotus-form plug.

7. Audio output port

Such port is used to connect the amplifier or the tuner equipment, which is connected by means of the lotus-form plug.

8. 24V DC power input port

It is used as the incoming port of the 24V DC backup power. When connecting, pay attention to the positive and negative poles.

9. AC power input socket

The AC power cable is inserted into such socket.

10. AUX4 and 5 inputs

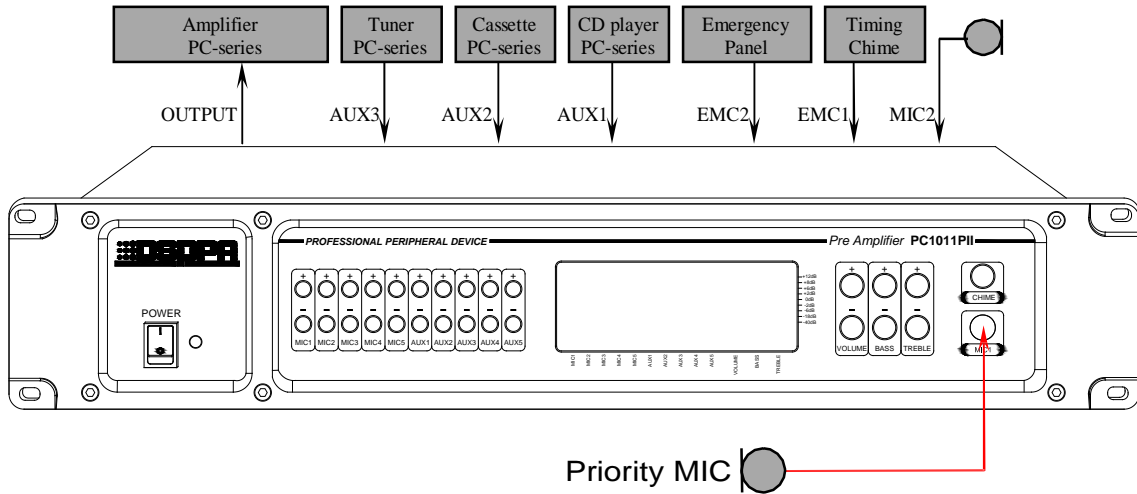As the peripheral sound source input port, it is connected by means of 6.35mm plug.

11. AC 110V/220V selector switch

It is used to select the working voltage.

12. Power fuse block

It is used to fix the AC power fuse. If such fuse is melted, the fuse in the same specification shall be used for replacement. The continuous melting of the fuse indicates the failure.
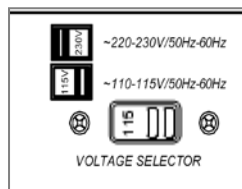
(C) Rear panel

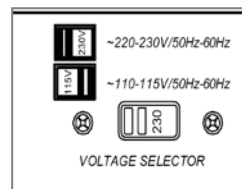# C. Operation Instructions

(A)   Selection of Power Supply Mode

To meet the requirements of different power supply voltage in different countries, all devices in *PC-LINK* system have three types of working voltage:

① AC220-230V working voltage; ② AC110-115V working voltage；③ DC24V working voltage, which is used as the backup power supply in the system, i.e. in case of AC220V or AC110V is not available, the device can operate normally under the DC24V power supply. The DC24V power supply is supplied by PC1022E (emergency power supply device for PA system).

Use voltage selector on the back panel (shown in the following figure) to select working voltage.

Selection of AC110V   **Selection of AC220V**

1)   When the selector is turned to the right till "115" appears, the working voltage of the device is set to AC110V-115V.

2)   When the selector is turned to the left till "230" appears, the working voltage of the device is set to AC220V-230V.

3)   DC24V can be used directly if neither of the above two types of power is available.

(B)   Address setting

There is a set of PC10 system to allow the multiple link of this equipment. In order for distinguishing, it is necessary to set different addresses for any equipment. The address of the equipment makes use of 4 binary codes "0" and "1" for setting. By means of the address setting, it is possible to connect 16 PC1011PII equipments in a set of system in a parallel manner. The setting method is described as follows.

Prior to power-on, press down the button "+" for control of the total volume "VOLUME", and then turn on the power until the interface as shown in figure (2) is displayed on the screen, in which the 4 digits refer to the address of the equipment.
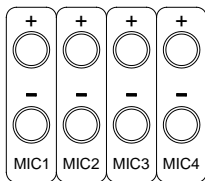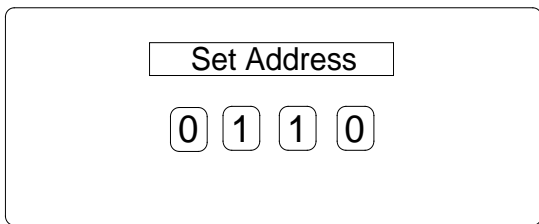
Figure (1) buttons for address setting

Figure (2) interface for address setting

1)   When setting the address, the address of the first equipment in the same type is set to 0000, the address of the second is set to 0001 and so on. If there is only one local machine in a set of the system, its address is set to 0000. Please refer to the "address table" attached for the corresponding relationship between the address sequence of the equipment and the binary values.

2)   The "+"keys of the eight volume control buttons MIC1-MIC4 on the panel are used to adjust the address digits to "1", and the "－" keys are used to adjust the address digits to "0".Taking figure (3) as the example, the two keys of MIC1 are used to adjust the first digit; the two keys of MIC2 are used to adjust the second digit, and so on.

3)   After completing the setting of the address, press the key "－" of total volume control button "VOLUME" to confirm and exit the setting interface.
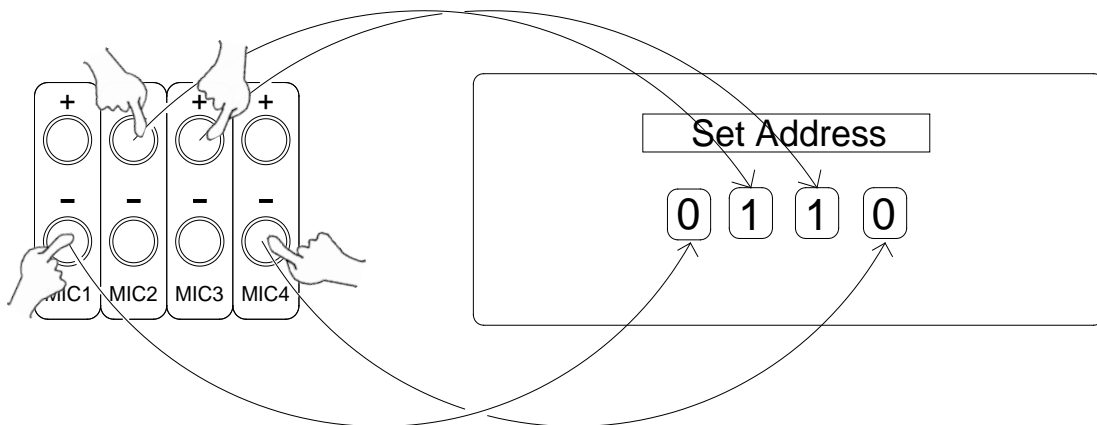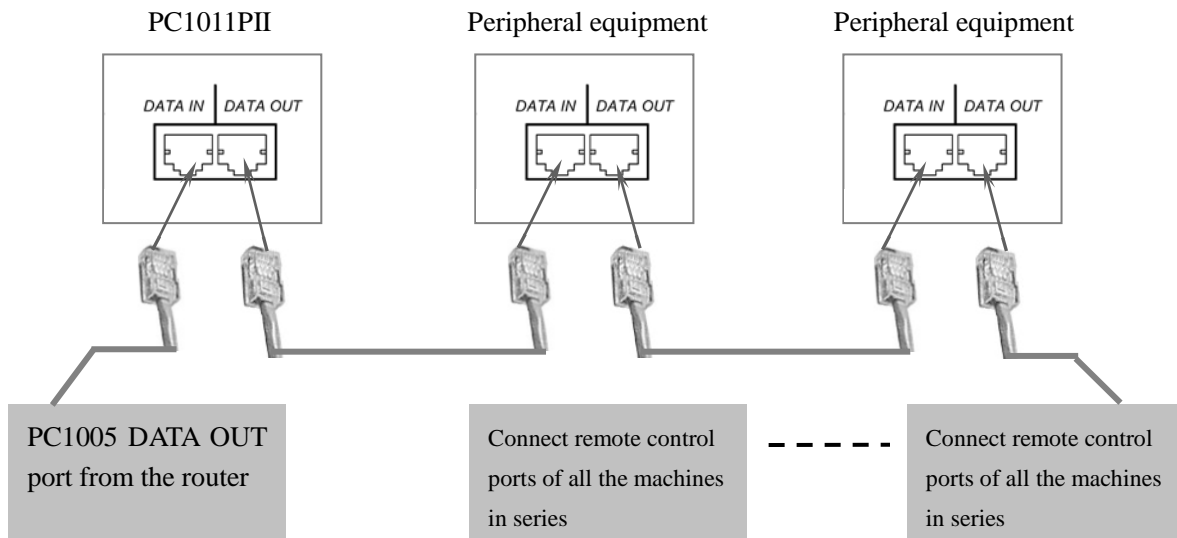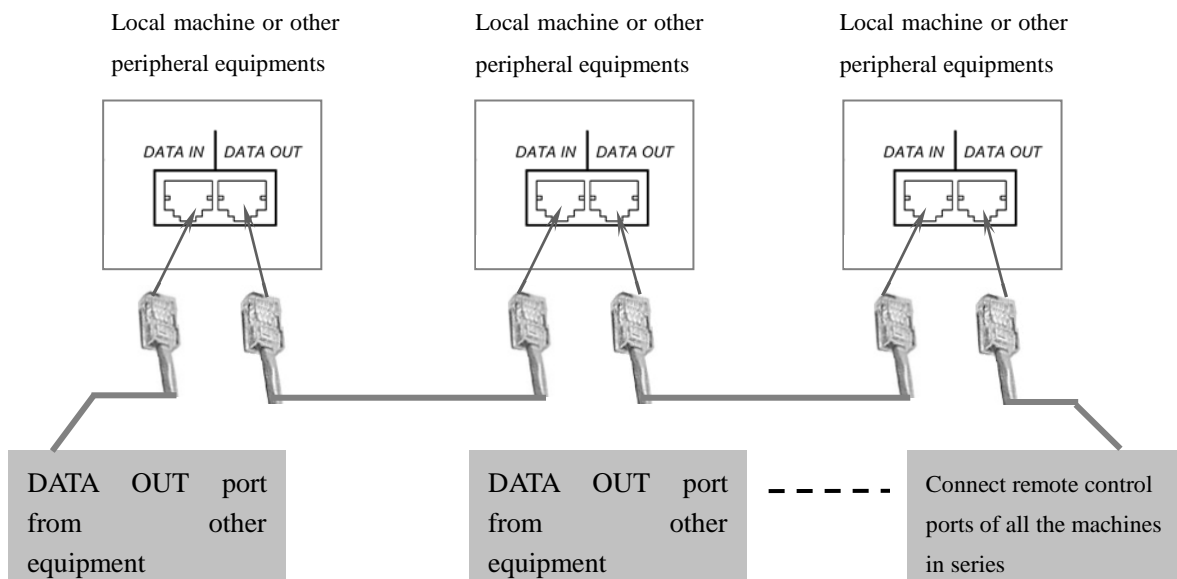
Figure (3) Example for address setting mode

(C)   Remote-control operation

1.   This machine is subject to the remote control by PC. By connecting the remote link port to the remote link port of other equipment with the network table, it is possible to operate and control by means of the computer installed with the control software of this system. The network cable is the T568A-T568A network cable as shown in figure (D). Please refer to the operating instructions to the PC software for the monitoring operation of PC. If PC monitoring is not necessary, do not connect.

If the PC1005U router is connected in the system, first connect the data output port "DATA OUT" of PC1005U to the data input port "DATA IN" of this equipment first, or connect the output port "DATA OUT" of PC1005U to the input port "DATA IN" of other equipment, and then connect to this equipment. Afterwards, connect the other equipments one by one in series. All the network cables are connected by the method for T-568A ~ T-568A network cable. The connecting method is as shown in the following figure.

PC1011PII   Peripheral equipment   Peripheral equipment

| PC1005 DATA OUT port from the router | Connect remote control ports of all the machines in series | – – – – – | Connect remote control ports of all the machines in series |

2. If there is no PC1005U in the system, the "DATA" port of the machine is used only to transfer the data signal between the peripheral equipments. Please connect the "DATA" port of the equipment to the port "DATA" of the other equipment in series. The connecting method is as shown in the following figure:

Local machine or other peripheral equipments

Local machine or other peripheral equipments

Local machine or other peripheral equipments

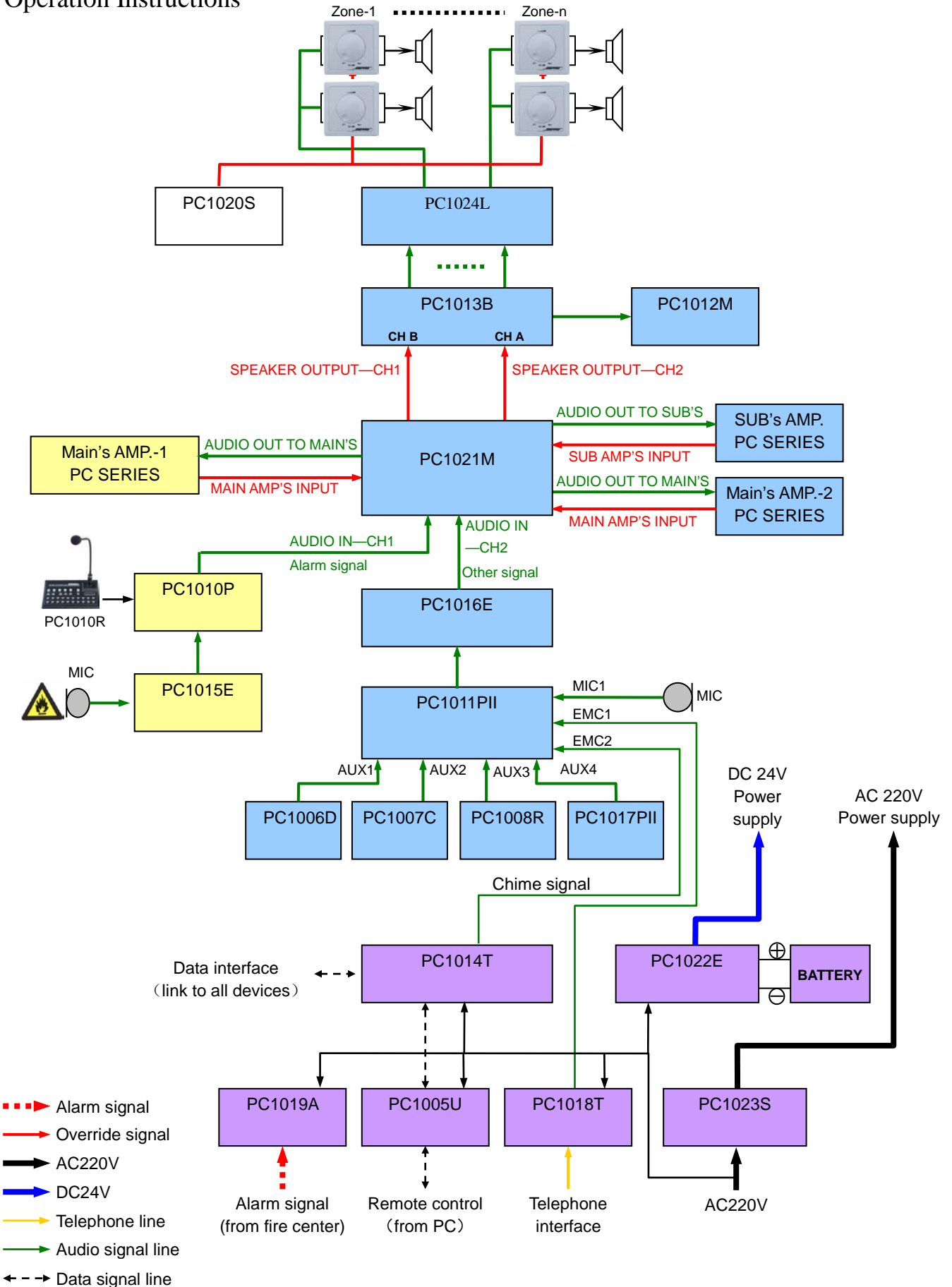| DATA OUT port from other equipment | DATA OUT port from other equipment | – – – – – | Connect remote control ports of all the machines in series |

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D. Packing list

One PC1011PII (Preamplifier) equipment, one operation instruction, one warranty card, one certificate, one 568A-568A cable, one SY542 audio cable, two (2) audio conversion plugs, one power cable, M5*18 cup-head stainless steel screws, black gaskets, one 24V strand wire with plugs at both ends.

E. After-sale Services

1. We provide the one-year warranty free of charge (including free supply of spare parts) for any quality problem of the product from the day of purchase, if product is installed and used according to this manual strictly.

2. The user must provide the warranty card and sales invoice before the warranty is provided.

3. The following conditions are not covered by free warranty:

    (1) Damages caused by improper installation, use or handling;

    (2) Failure of product due to abnormal conditions (e.g. excessively high supply voltage or ambient humidity, etc);

    (3) Damage to product due to natural and man-made disasters and accidents;

    (4) The number of product is changed, altered or deleted;

    (5) The product has been repaired or refitted by personnel without the authorization of our company;

4. Please keep the manual and warranty card properly.

5. For questions or matters not mentioned in the manual, please contact the dealer or visit our website http://www.dsppa.com for more information.

6. In case of any failure of the device during the warranty period, please contact our staff (or the dealer). We are not responsible for any free maintenance if the product is damaged due to disassemble by the users themselves or due to repair by personnel other than our technicians.

Operation Instructions

Attachment

Corresponding table for address:

Unit No.	Address Number	Unit No.	Address Number	Unit No.	Address Number	Unit No.	Address Number
Unit 1	0000	Unit 5	0100	Unit 9	1000	Unit 13	1100
Unit 2	0001	Unit 6	0101	Unit 10	1001	Unit 14	1101
Unit 3	0010	Unit 7	0110	Unit 11	1010	Unit 15	1110
Unit 4	0011	Unit 8	0111	Unit 12	1011	Unit 16	1111

Specifications

Input	Mic1, 2, 3 : 600Ω, 2.5mV, unbalanced Mic4, 5 : 600Ω, 2.5mV, balanced EMC1, 2; Aux1, 2, 3 : 10kΩ, 250mV, unbalanced Aux4,5 : 10kΩ, 250mV, balanced
Output	0dBV
Frequency response	20Hz-25kHz(±3dB), line input
THD	Aux : 0.05%, Mic : 0.3%
Signal/ noise ratio	Mic input : >80dB Aux input : >85dB
Tone	Bass : ±10dB(100Hz) Treble : ±10dB(10kHz)
Chime	Press the button once, the tune is "(1-3-5-ì-)", Volume adjustable.
Protection	AC fuse×1（220V: F0.6AL, 110V: F1AL)
Power Requirement	1. AC110-115V/220-230V 50/60Hz 2. DC24V
Outer Packing Size（mm）	（L×W×H) 555×455×185
Unit Size（mm）	（L×W×H) 484×349.5×88
Gross weight	8.5kg
Net weight	6.7kg

Specifications are subject to change without notice

CAUTION

● When the "Power switch" is off, please pull out the power cord from the socket.
    Please keep the equipment out of water.
● To reduce the risk of electric shock, do not remove the cover.
● No user parts inside. Refer servicing to qualified service personnel.

Guangzhou DSPPA Audio Co., Ltd.