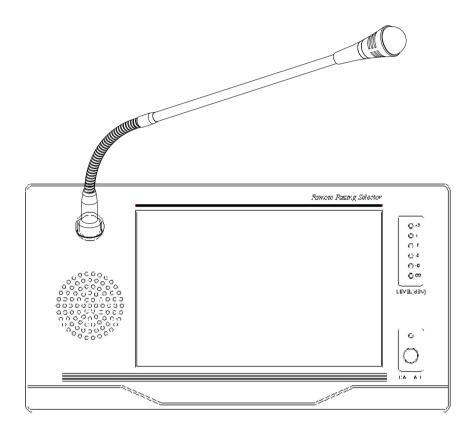


## **Public Address System**

## **Network Intelligent Paging Station M-6588**



# User's Manual

Thank you for using our public address system. Please read this User Manual carefully to make better use of this equipment.

#### **About the User Manual**

This User Manual will be in use after the network public address and paging station equipment is developed. The User Manual comprises system introduction, matters needing attentions during user, system connection description, system application description and product technical parameters with respect to the network public address and paging station equipment. Users should read this Manual carefully before any connection and use, and should operate in accordance with instructions in the Manual.



Messages following this icon on the rear panel include important information needing attentions, so please use or operate the equipment in accordance with such instructions.

Please keep it in good custody for future use.

Facture 31-05-2018

## **Matters Needing Attention**

Please read the following carefully before any operation.



## Warning

In order to avoid any potential personal injury as well as loss or damages to equipment or property, please DO follow the basic instructions as given below. Such instructions include with limitation to the following:

#### Power supply/power wire

- Please hold the plug other than the power wire when trying to remove the plug from sockets. Pulling the power wire may result in damages.
- Please do NOT place the power wire anywhere near the heat source. Please do NOT bend or buckle the power wire or place it where it may be stepped on or may trip passer-by.
- This equipment is connected to the power grid through the plus, so when any fault or danger occurs, the user should remove the plug from the socket to disconnect the equipment from power grid, therefore, it is important to place the power socket where it is easily accessible.
- When the power switch of this equipment is "OFF", the equipment is not disconnected from the power source; therefore, for purposes of safety, the user should remove the plug from power socket when the equipment is not in use.

#### **Installation Location**

- Please disconnect the equipment from power source before relocation.
- In order to avoid deformation of the panels and damages to components, please do NOT place the equipment where there is excessive dust, vibration or extreme cold or hot conditions.
- Please keep this equipment off water drops or splash or vase filled with water or any other articles of similar nature.

#### Connection

- Please disconnect the power supply when the equipment is connected to any other equipment. Please turn the volume down to the minimum level before switching on or powering off the equipment.
- Symbols of **f** on any terminal in the equipment indicate that such terminal is live and dangerous and any connecting operation should be done by trained personnel.

#### In case any abnormal condition is detected,

• If the power wire is worn or damaged, resulting in sudden interrupt of sound or abnormal smell or smoke during use, please cut off the power supply immediately and have the equipment inspected by professional personnel.

#### Matters needing attentions in operation

- Please do NOT put your finger in any gap or opening of the equipment.
- Please keep any foreign matters (paper, plastic or metal) from being inserted in any gap or opening of the equipment. In such cases, please cut off the power supply immediately.
- Please do NOT put any part of your body or any heavy object on the equipment and please be careful when operating any button or switch of the equipment or when connecting the equipment.

#### Please do NOT disassemble the equipment

- Please do NOT remove the cover of the equipment; otherwise you may get an electric shock.
- Please do NOT attempt to disassemble any component of the equipment or make any modifications in whatever manner. If any abnormal phenomenon is observed, please stop using the equipment immediately and have it inspected by professional personnel.

#### **Other Precautions**

- Our company will be take responsibility for data loss or damages resulting from improper user or unauthorized modifications.
- All figures included in this Manual are for description purposes and there may be slight difference in your actual application. Please refer to the actual product.

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## **I.Product Description**

#### 1.1 Introduction

This digital intelligent paging station is a TCP/IP based network Hi-Fi paging station and can be used anywhere with network access. It can realize control on 1,000 zones based paginging and is featured by the high stability of traditional paging stations as well as reliable operation and low fault rate. Signals are transmitted in digital form and intelligent control is realized. The system provides 7 inches LCD true color display/touch screen as well as graphic and user-friendly operation interface. In addition, the system provides auxiliary input/output channels for extension of local audio source and amplification functions. The system integrates players developed independently by our company to realize local monitoring on host programs.

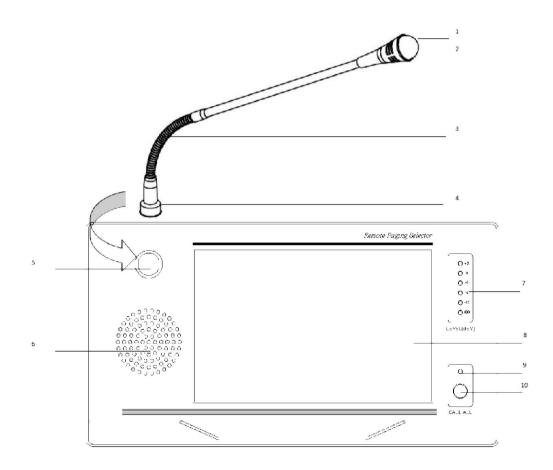
### 1.2 Functional features

- Support 100/10Mbps self-adaption TCP/IP network transmission protocol
- 7-inch true color LCD display, graphic interface and touch screen operation
- Desktop type
- High fidelity and handheld dynamic microphone
- Multiple level indication function
- Quick paging with manual shortcut keys
- Built-in 3W monitoring loudspeaker for easy pre-listening program and intercom use
- With 1-channel line input (extendable external program source and wireless MIC input), 1-channel local line output (support offline local amplifier paging), 1-channel AUX line output (extendable monitoring power)
- Built-in high fidelity AGC processing circuit with large dynamic range
- ARM processor with high performance
- Support group editing of network playback terminals
- Built-in chime
- Support selection between paging and intercom functions for network playback terminals
- Support paging and intercom function between intelligent paging stations
- Support playback of songs in program list of network host
- With recording function to record and play recordings of paging

- With user password and access management
- With automatic power-off function for MIC, support power-off delay of paging for speakers
- Manual open and close MIC power supply
- With intelligent screensaver function, can set delay time for screen saver
- Can set network transmission communication mode

## 2. Appearance

#### 2.1 Front view



#### 1. Microphone head

Please do NOT hit the microphone head when the equipment is in use.

#### 2. Microphone On/Off indicating ring

Indicating LED:

- When the microphone is on, the indicating light will be on.
- The LED will be turned on as the microphone On/Off indicating light is on for calling all zones. The microphone head indicting ring will be on, but the microphone On/Off indicating light is off when the system is not in status of paging

all zones.

#### 3. Microphone Rod

Users can adjust the microphone angel flexibly.

#### 4. Microphone base

4-leg Cannon socket:

- > 1# leg for power and microphone head indicating LEDs;
- > 2# leg for input of voice signals;
- > 3# leg for null;
- > 4# leg for grounding of signal input.

#### 5. Microphone plug

4-leg Cannon socket, corresponding respectively to the four legs on the base.

#### 6. Monitoring speaker

It is used to output the voices received.

#### 7. Output level indicating LED

More indicating LEDs will be on as the output volume increases.

#### 8. LCD true color display

It is used to display the operating status and operation interface of the paging station; the touch screen is for selecting options.

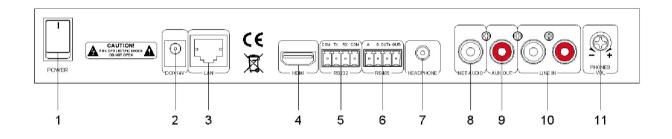
#### 9. Microphone On/Off indicating LED

The indicating LED is on when the user presses "PAGING ALL" button to activate all zones. It will also be on when any terminal is called.

#### 10. Paging button

It is used to realize paging function for all zones. .

### 2.2 Rear view



#### 1. On/Off switch

When the button at "1" position is pressed down, the system is powered on, while when the button at "1" position is ejected, the system is powered off.

#### 2. AC220V Power input wire

#### 3. Network interface

It is used to connect to network switches.

#### 4. HDMI output interface

Preserved.

#### 5. Data Exchange Interface

It is the RS422 analog paging interface and is reserved for extension by intelligent systems.

#### 6. Data Exchange Interface

RS485 analog paging interface and is reserved for extension by intelligent systems.

#### 7. Monitoring headphone jack

It is for use of local monitoring and the volume is adjustable.

#### 8. Network audio output

#### 9. Line-out audio output interface

It is used to connect the system to amplification equipment.

#### 10. Line-in audio input interface

It is used to connect to players, such as a DVD player or a tuner.

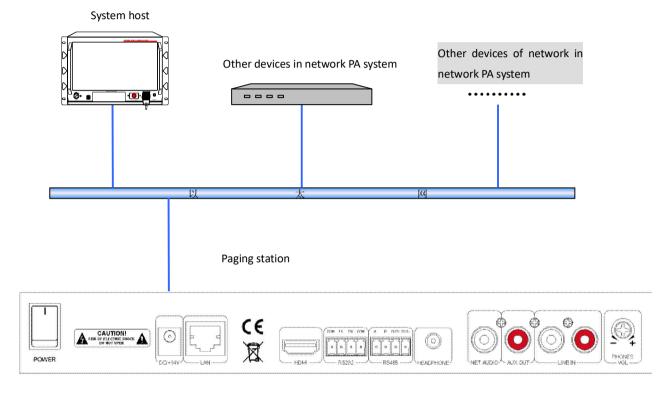
#### 11. Monitoring volume adjusting knob

It is used to adjust the volume output to monitoring

## 3. Connection Diagram

## 3.1 Application of Paging Station in the system

This Paging Station can be deployed in any place where there is network access.

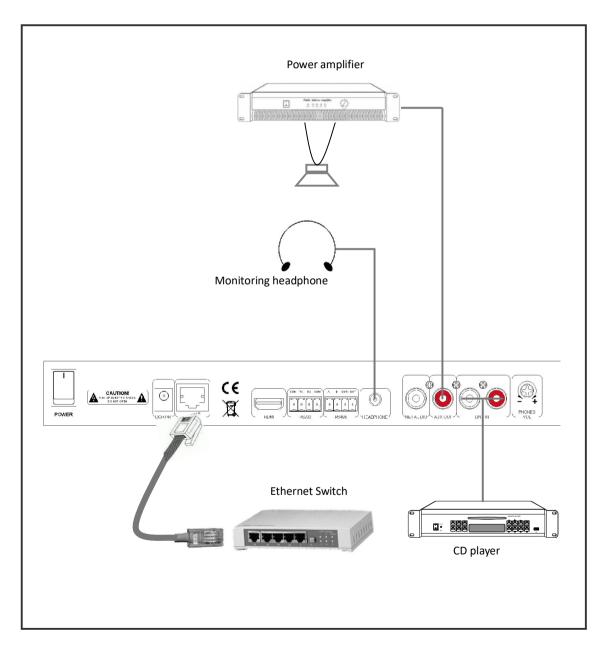


- Note: 1 The figure above only shows the connection is basic application, please refer to the User Manual of network controller for information about connection of the whole system.
  - (2) The figure above is only for demonstration, please refer to the connecting diagrams at the application site for information about actual connection.
  - (3) Connection in the system can only be realized via a network switch and an address should be configured in order to communicate with the controller and to paging the zones.

## 3.2 Diagrams of local interface and connection of Paging Station

The Paging Station can be used to output audio signals, and the audio channels are for use to connect amplifiers and speakers to realize amplification at local places of the Paging Station. The user-friendly design can meet the needs of large output power and multiple audio sources at the local places of terminals; the Paging Station also provides auxiliary audio input interface for connecting to players.

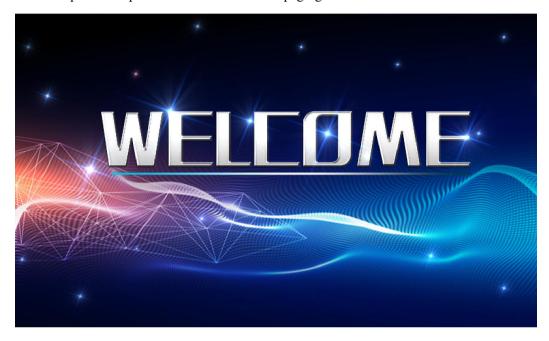
The connection of local interfaces is as follows:



## 4. Operation Instruction

#### 4.1 Power on

After the system is correctly connected and the paging station is connected to power supply, the user can switch on the power switch on rear panel to turn on the system. After the system is turned on, it enters the initialization status and the message "System is starting please wait..." on screen of the paging station. During this process, the system will load the previous operation information of the paging station.



It may take about 25 seconds to complete this process and display the following interface:



On the interface shown above, the user can enter the system password by touching the corresponding numbers on the interface and enter the main interface of the paging station, as shown below:



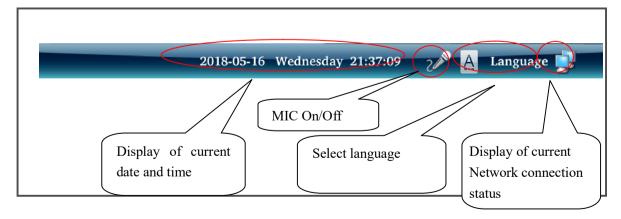
Main interface

The functions provided on the main interface include: Status operation of zones, display of zone status information, zone paging/group paging/pre-listening programs/system setup/exit button.

#### 4.2 Main interface

## 4.2.1 Display of time and network connection status

As shown above, the status bar on the main interface shows the current date and time information as well as the network connection status.



### 4.2.2 Display of zone status information

The current operating status of each zone is displayed on the button of each zone, such as the name/ current task and volume information of such zone. If the current paging station is connected to the network, the corresponding button is in blue color, otherwise it is in gray color. As shown below:

- ➤ "192.168.79.10" indicates the name or number of the zone;
- > "Offline" indicates the current task performed by the zone. In this picture, the current zone is offline.
- ➤ "Volume 50%" indicates the current volume level of the zone, which cannot be adjusted on the paging station but can be adjusted on the system controller. Please refer to the User Manual of System Controller for detailed operation.



## 4.2.3 Zone paging operation

To call paging a zone:

- In the first step, touch the "Zone Call" icon on the upper right side of the main interface, then touch the zone to be called (a selected zone is surrounded by white box), and then touch the "Call" button to start the calling. The message "Calling" will be displayed on the zone which is being called. Press the "Stop" button to stop the calling and the zone will restore to its previous status.
- > To paging all zones, touch and select the "Zone Call" button on the upper right side of the main interface, then touch the "Select all" button to select all zones and then touch the "Call" button to call all zones. Touch the "Stop" button to stop the calling.

## 4.2.4 Group calling operation

To call a group:

In the first step, touch the "Group Call" icon on the upper right side of the main interface, then touch the group to be called (a selected group is surrounded by white box), and then touch the "Call" button to

- start the calling. Press the "Stop" button to stop the calling and the group will restore to its previous status.
- To call all zones, touch and select the "Group Call" button on the upper right side of the main interface, then touch the "Select all" button to select all groups and then touch the "Call" button to call all groups. Touch the "Stop" button to stop the calling.

### 4.2.5 Pre-listen a program

This operation allows monitoring the built-in programs on the network controller via the call station:

In the first step, touch the "Pre-listen program" icon on the right side of the main interface to enter the player interface of pre-listened program, as shown below:



- In the picture shown above, the directory shown on the left part indicates the built-in programs on the network controller and external audio sources connected to the controller. Touch a directory (for instance, touch the Courtesy), the songs in such directory will be displayed on the "Song" box on the right part.
- button to stop the playing. Touch and button to start playing and touch the button to stop the playing. Touch and button to play the previous or the next song.
- The buttons on the right side of the song selection box can be used to switch to the songs on the previous screen or the next screen, and the buttons can be used to select a song to be played from the list of songs. After a song is selected, the user can touch the "Play" button to play the song.
- > Touch the "+ or -" icons on button, or touch and drag the sliding indicator on the volume bar to increase/reduce the monitoring volume; the icon on the

interface means Sound-off. The sound-off status can be canceled by touching the icon again.

> The button is used to set up playing modes, and the user can touch this button to call the desired playing mode, as shown below:

: All songs in the selected director will be played in order.

: The selected song will be played in single loop mode.

E : All songs in the selected directory will be played and broadcast.

: All songs in the selected directory will be played randomly.

: The selected song will be played for once and stops after the selected song is completed.

- Among all directories shown on the monitoring interface, "Play a program, courtesy program, calisthenic program and other, background music" are built-in audio sources of the network controller, and the "external audio sources" include external audio equipment connected to the controller, such as a CD player or a MP3 player. If no external audio source device is connected to the network controller, then no equipment output is displayed. Therefore, please make sure that an external audio device has been connected to the network controller before selecting this directory.
- Elisten: to switch from pre-listen to broadcast. This interface means that current status is pre-listening.
- broadcasting.

#### 4.2.6 Zone broadcast

This operation is completed on the paging station.

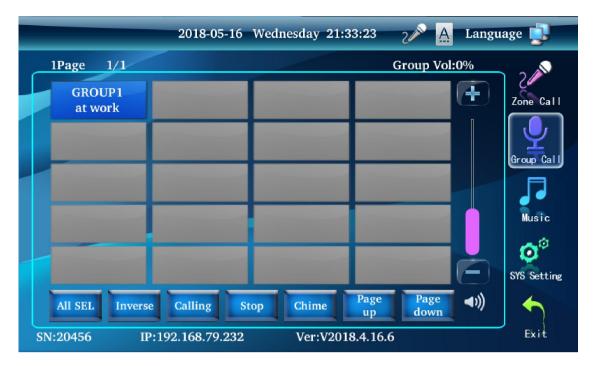
Firstly, touch to enter broadcasting interface.



Then click "Zone Call" to choose the zone you want to broadcast or touch "Group Call" to choose groups. Then enter the interface above again to choose the music or program you want to play.

Choose zone or group.





If no zone is selected you will see the following interface.



Click to play the music or program.

> The interface will show "Playing".



## 4.2.7 Other operations

On the main interface:

"Invert Selection" button is to cancel the selection of a zone;

"Bell alarm" button is used to broadcast a bell alarm before calling.

"Page Up and Page Down" buttons are used to display the previous and the next page of zone for query operation.

On the main interface, the "" is used to exit the main interface and return to the password input interface.

## 4.3 System Setup

On the main interface, touch the "System Setup" icon to enter the system setup interface, which is as shown below:



System setup interface

The operation items on system setup interface include:

Group Setup: to group the zones;

Network Setup: to set an IP address and subnet masks for the current paging station;

Time Setup: to set up the system time and date;

Backlight: to set up the backlight on time for the current paging station;

Microphone Setup: to set up the time period to automatically shut off the microphone on the current paging station;

Log Management: to view and listen to the real-time audio log messages;

Screen Calibration: to calibrate the touch screen of the current paging station.

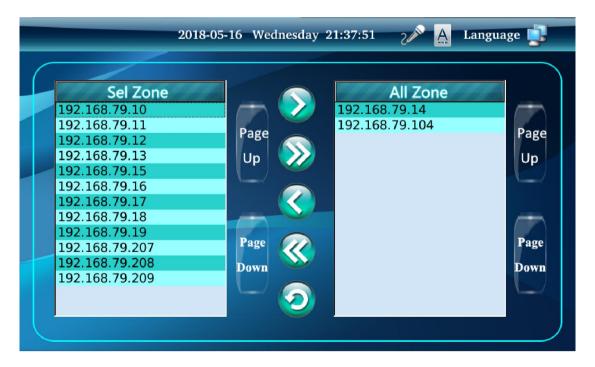
## 4.3.1 Group setup

On the "System Setup" interface, touch the "Group Setup" icon to enter the group setup interface.

- The zone box is displayed on the right part of the interface and the group box is displayed on the left part. The editing and operating buttons are listed on the bottom of the boxes and to the right of the box, there are the selection buttons.
- ➤ Before the grouping operation, touch the "Add" button and enter the name of the group on the pop-up interface. Press the "Edit" button below the group box to modify the group name; press the "Delete" button to delete a group that has been edited.
- After the group name is set, select the desired group (the group name is highlighted, indicating that the group has been selected), then touch the "Edit" button under the zone box on the right part to enter the zone selection interface, which is as shown below (**Next Page**).



- On this interface, the selected group is listed and the zones may be allocated to such groups as desired. All zones are displayed in the box on the right part of the interface, where the user can select the zones to be added to the current group, and then touch the "Arrow" pointing to the left box, then the zone will be moved to the left box, which means that the zone has been added to such group.
- > On the zone allocation interface:
  - "" le used to add or remove one single zone in the group;
  - "" but of used to add or remove all zones in the group;
  - "" bo can be used to return to the previous interface;
  - "" | be used to switch to the previous page or the next page;
  - "" land it of select the previous/next zone (group) of the current zone (group).



After the group setup is completed, touch the "Return" button to exit the setup interface.

### 4.3.2 Network Setup

On the "System Setup" interface, touch the "Network Setup" icon to enter the network setup interface of the current paging station. On this interface, the user can set up the IP address, subnet masks, gateway and server IP address for the current paging station.

- The user can touch the desired parameter and move the cursor to the parameter and then press the "DEL" button on the keyboard to delete the existing digits and input the desired digits; or otherwise, the user may touch and move the finger across the parameters to be modified and then press the "DEL" button on the keyboard to delete the existing digits and enter the new digits.
- After the setup is completed, the user should touch the "OK" button to confirm and exit the setup interface.

## 4.3.3 Time Setup

On the "System Setup" interface, touch the "Time Setup" icon to enter the system time setup interface. On this interface, the user can set up the current system time and data.

- To set up time and date, the user can touch the gray arrows in digit box to adjust the digit.
- After the setup is completed, press the "OK" button to confirm and exit the setup interface, if the user exits the setup interface without touching the "OK" button but by touching the "Return" button, then the setup operation will not modify the previous time and date settings.

## 4.3.4 Backlight on time

On the "System Setup" interface, touch the "Backlight On Time" icon to enter the backlight on time setup interface of the current paging station.

- ➤ The user can touch the backlight on time value or the small circle before the Always on option, the small circle will be ticked and marked by highlighted "√", indicating that the option has been selected. If no operation is made for the selected backlight on time, the backlight of the screen will automatically turns off, which helps to save energy and to extend the service life of the screen.
- After the setup operation is completed, press the "OK" button to confirm and exit the setup interface, or otherwise, the user can touch the "Return" button to cancel the setup operation and exit the setup interface.

## 4.3.5 Microphone Setup

On the "System Setup" interface, touch the "Microphone Setup" button to enter the interface to set up the automatic off time of microphone.

- ➤ The user can touch the time value or the small circle before the Always on option, the small circle will be ticked and marked by highlighted "√", indicating that the option has been selected. If no signal in input to the microphone for the selected time period, then the microphone of the current paging station and the zone called will be automatically turned off.
- After the setup operation is completed, press the "OK" button to confirm and exit the setup interface, or otherwise, the user can touch the "Return" button to cancel the setup operation and exit the setup

interface.

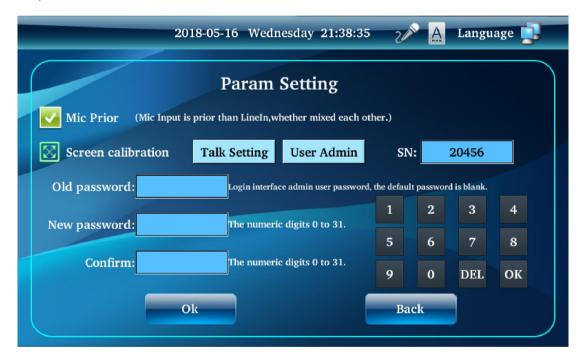
### 4.3.6 Log management

On the "System Setup" interface, touch the "Log Management" button to enter the audio records during the calling operation of the current paging station.

- The paging station will automatically record the calls and back up the log file on the network controller.
- > The audio records are named in time order and the last record is listed as the latest record.
- The user can listen to the log files on the current paging station.
- The button with "X" can be used to delete the audio records in the "Log files" list.
- The button with "" Ean be used to exit the log file management interface.

## 4.3.7 Parameter Settings

Enter the "system settings" interface, touch the "parameter settings" button to enter the parameter settings interface, the interface is as shown below:



#### MIC Priority setting

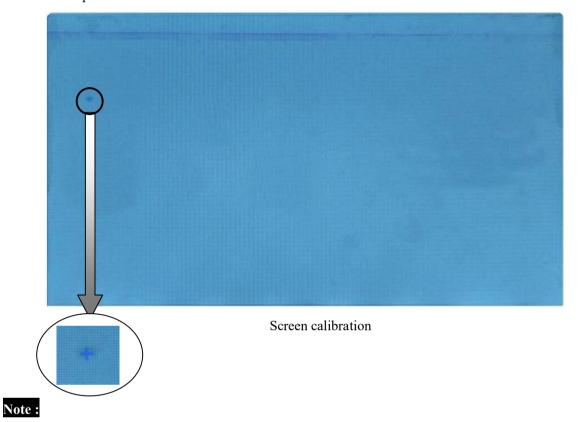
Check in the box indicates that MIC input is prior to line input.

#### > Screen Calibration

After the equipment is used for a certain period, due to the rise of temperature or other factors, the touch point is not precise and it may be hard to move the touch point to the desired operation item, at such time, the user needs to calibrate the touch screen by following the following procedures:

On the "System Setup" interface, touch the "Screen Calibration" button and follow the instructions to
calibrate the screen. The Paging Station will be restarted before entering the screen calibration interface
and then the screen calibration operation will start.

- 2) On the calibration interface, the user should touch the center (in the black circle shown on the picture below) of the small circle on the screen with the sharp end of the pen (Note: Touch the exact center of the circle).
- 3) Repeat the calibration operation on the four corners and the center of the screen. If the four corners and the center of the screen are not properly calibrated, then it is impossible to move the cursor to the desired operation item.



During touch screen calibration, it is very important to point the pen to the center of the "+", otherwise the user may not be able to operate the system. If the screen is not properly calibrated, resulting in failure of use, then press and hold the "PAGING ALL" button on the front panel of the paging station to reset and recalibrate the screen.

#### > Set the System log-in password

The interface will be like the following when setting the system's log-in password. Input the password on the right of the circle. "Original password" is set as blank. If the user set his own password, then the change of the password would require the password inputting. After you input the new password, touch "OK" and the new password will be in use.

#### Set paging parameters

Click "Talk Setting" in Parameter setting interface. Then you will enter the following interface.



- Log Saved: when checked, your call will be recorded.
- Two-way Voice log: to record voice information of both sides.
- Voice tips: indicate with ring bells
- Flash tips: indicate with light flashing

#### Overtime handle



- Call transfer: if there is no response within the time set below, it will automatically transfer to next paging station
- Overtime rejection: if call transfer is not enabled, it will reject calls when time is up
- Overtime setup: click "OK" after changing time limit by keyboard on the interface

#### > Set multi-user access

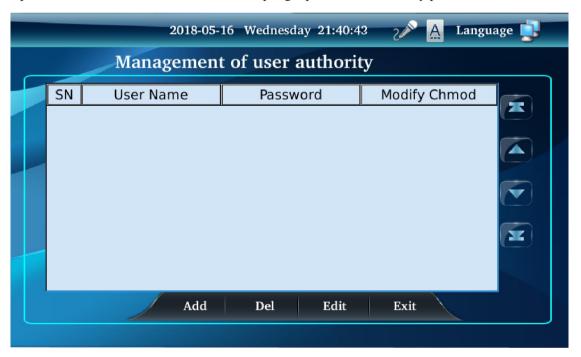
This paging station could be used by multiple users. Different users can specify which partitions they can see and display, and they can specify whether the user has modify permissions for system

parameters, managed by the administrator.

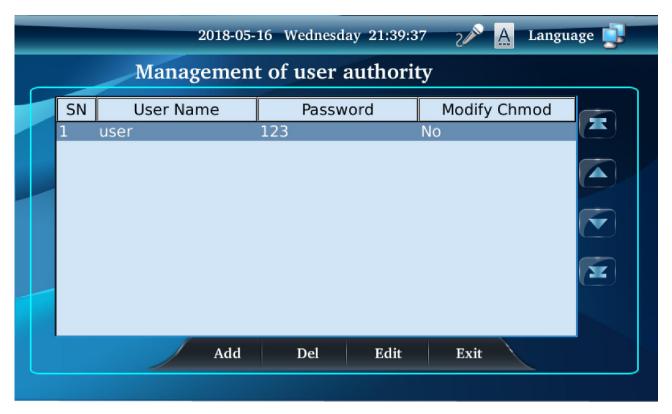


1) Administrator user could click "User Management" button in Parameter setting interface to add, delete and modify. The management of multiple user login password and modify permissions can also be wet up. There is no "user management" button on the interface of ordinary users. If administrator wants to add this button, they can follow the steps below.

Step 1: click "Add" to add new users and set up login password and modify permission.



Step2: as shown in picture below, different user could use their own password to log in.



2) Different users can set the visible partitions according to their actual needs. Administrators can assign the user modify permissions. if permissions are not assigned, the user can only set the parameters such as backlight time, microphone settings, log, etc., and cannot set parameters such as group settings, partition management, and Network settings,

## **Precautions in Use**

### 1. Safety precautions

- Please do NOT connect the power plug of this equipment to the power source before the system is properly connected.
- The user should make sure that the input voltage to this equipment agrees with the voltage requirements, otherwise, the equipment may be damaged.
- There is dangerous voltage in the equipment which can cause electric shocks, so do NOT remove the case without authorization in order to avoid electric shock.
- When the power switch of this equipment is "OFF", the equipment is not disconnected from the power source, therefore, for purposes of safety, the user should remove the plug from power socket when the equipment is not in use.
- Please do NOT place the equipment where it is too cold or too hot.
- The user should make sure the installation position is well ventilated, otherwise the heat generated during equipment operation may build up and damage the equipment.
- Please remove the plug from power socket during cloudy or humid weather or when the equipment is not in use for a long time.
- Please remove the plug from power socket before any component is removed or re-installed or any
  equipment is disconnected or re-connected, so as to ensure that the equipment is completely
  disconnected from the power source.
- When any fault occurs, please do NOT remove the case for repair without authorization, in order to avoid accident or further damages.
- Please do NOT place any corrosive chemicals on or near the equipment.

#### 2. After-sales services

- Our Company provides a three-year warranty (including free replacement of damaged parts) against any fault occurring under normal use in accordance with this User Manual as from the purchase date.
- In such cases, the user must provide the user's page of the Warranty Card and the purchase invoice of such product.
- The following will be expressly excluded from the warranty:
  - (1) Product damage due to improper installation, use or handling;
  - (2) Product damages due to abnormal conditions (such as over-voltage or excessive ambient humidity);
  - (3) Product damages due to an Act of God or accidents;
  - (4) Product serial number is changed, altered or removed;
  - (5) Product is repaired or modified by unauthorized person.
- Please keep the User Manual and Warranty Card in good custody.
- For information about matters not covered in this User Manual or for other matters needing attentions, please contact the dealers.
- In case any fault occurs during the warranty period, please contact the service personnel of our company (or the dealer), our company will not be responsible for any and all damages caused by unauthorized disassembly or repair by unauthorized personnel.

# **Packing list**

No.	List	Quantity
1	Microphone head	1
2	Microphone rod	1
3	SY535 cable /3 m/8 core network cable	1
4	SY542 cable/1.5 m/Audio cable	1
5	User Manual	1
6	Quality certificate	1
7	Warranty card	1
8	4P green interface, 3.81mm interface	2
9	Power adapter	1

# **Performance Specification**

Specification	Parameter	
AUX OUT Rated Output Voltage	1.0±0.2V	
NET OUT Rated Output Voltage		
MIC input sensitivity (1V output)	50±10mV	
MIC distortion (1Kz/1V)	MIC: ≤0.3%	
Effective frequency of MIC gain limit (±3dB)	100-16000Hz	
MIC Signal to Noise Ratio (30K lowpass)	≥68dB	
MIC Dynamic range	≥20dB	
AUX input sensitivity (1V output)	300±50mV	
AUX distortion (1Kz/1V)	AUX≤0.3%	
AUX Signal to Noise Ratio (30K lowpass)	≥68dB	
Effective frequency of AUX gain limit (±3dB)	50-18000Hz	
AUX dynamic range	≥20dB	
Effective frequency of monitoring (talkback voice)	80-16000 Hz	
Monitoring SNR (talkback voice)	≥65dB	
Working voltage	DC+14V	
Standby power consumption	7.3W	
Power Supply	AC220V (±10%) /50Hz	
Overall power consumption	9.5W	
Package dimensions (mm)	(L×W×H) 415×280×121	
machine dimensions (mm)	(L×W×H) 300×160×56	
Gross weight	2.5kg	
Net Weight	1.8kg	

#### 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 4 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.

LY International Electronics Co., Ltd

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