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# **Fully Digital Conference System**

## **User Manual**

**TS-0318**

**TS-0318A**

**Before using this system, please read this manual carefully**

## Notification



### WARNING

To ensure the reliability of the equipment and the safety of personnel, please observe the following when installing, using and maintaining:

- If any of the following conditions are found, please immediately turn off the power, plug out and quickly contact your nearest dealer. Do not continue using this unit, which may cause a fire or electric shock.
  - If you find smoke or have a strange taste from the machine.
  - If water or metal falls into the machine.
  - If the unit is dropped or the case is damaged.
  - If the wire is damaged (wire core exposure, broken wire, etc.).
- If the machine contains high-pressure parts, in order to avoid the fire or electric shock, absolutely don't open the case, if any questions please inform your nearest dealer.
- Do not place cups, bowls, vases or metal and other water-filled substances on the unit. Serious spilled liquid may cause a fire or electric shock.
- Never expose the unit to rain and any moisture or water, which may cause electric shock or fire.
- Do not place metal objects or flammable materials from the vents on the machine cover, nor place coins, which may cause fire or electric shock.
- Do not place heavy objects on the unit to avoid personal injury or property damage when the unit is slipping.
- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.
- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.
- For long-term accumulation of dust to be cleaned, please inform your dealer to regularly clean the machine, so as to avoid damage to the machine or cause a fire.
- The battery must be replaced with the same type of product and the correct installation should be made in order to avoid electrical damage and explosion hazard.
- The product is a Class III device. The device must be well connected to ground. The power plug must be connected to a power outlet with a grounding device to ensure that the equipment is fully grounded.

- This product uses a power plug or appliance input socket as a disconnecting device with the power supply, and must be disconnected if necessary for safety reasons.



- This equipment is only suitable for safe use at altitudes under 2000 meters.

## Precautions

### 1. The installation environment

When installing the unit, in order to ensure the normal cooling of the host, should avoid the poor ventilation of the place or high temperature environment, to avoid direct sunlight.

Recommend to install cabinet or other well-ventilated place indoor. If you use the machine in the outdoors, please pay attention to waterproof, moisture, lightning protection measures.

Avoid installing in a violent place of vibration; do not place other equipment on the machine.

### 2. To avoid electric shock and fire

Do not touch the hands and the source with wet hands

Do not spill liquid on the machine, so as to avoid short-circuit or fire inside the machine.

Do not place other equipment directly on the top of the unit.

Non-professional service personnel Do not disassemble the unit yourself to avoid damage and electric shock.

### 3. Transport and handling

The packaging of the machine is designed and tested to ensure that the host will not be accidentally damaged during transport. It is best to use the original packaging when handling the unit.

Do not move the host device between the place or cold or over hot to avoid condensation inside the machine, affecting equipment life.

### 4. Please follow the warning instructions on this product, the warning signs on behalf of:

	Applicable to 2000 meters above sea level and below safe use
	Safe use only in non-tropical climates

### 5. Agreement

Please strictly follow the instructions in this manual. The software, hardware and appearance of this product will be upgraded and updated continually. The above changes will be made without notice.

Non-professional maintenance personnel, do not remove the product, to avoid damage and electric shock.

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# 1.Product description

It is the third-generation compact microphone with a brand-new solution architecture, featuring simplified design and exquisite appearance. It comes with a 2-meter network cable instead of the traditional six-core aviation cable, which greatly facilitates wiring construction.

# 2.Product introduction

## TS-0318/TS-0318A Economic Conference Microphone Unit



TS-0318 Chairman Unit



TS-0318A Delegate Unit

## 2.1.Feature

- 1.Short microphone pole design, long pickup distance.
- 2.Adopt uncompressed audio transmission technology, 48K sampling rate, 80Hz-16KHz bandwidth perfect sound quality.
- 3.Adopt 100M network transmission and single-line access to the ring network to improve the reliability of system operation.
- 4.Adopt standard TCP/IP communication protocol, and support ping packet function.
- 5.Designed with a 4.1-inch flag-shaped full-color touch screen.
- 6.Support 63+1 simultaneous interpretation channels, all the speeches of the chairman and delegate units are listened to in channel 0, and channels 1 to 63 are the channels for listening to the interpreter machine.
- 7.Support PC software for microphone control, support voice control function.
- 8.The chairman has the priority to turn off the delegate unit that is speaking.
- 9.Built-in independent web server, support four language switching, adjustment of microphone ID

and microphone sensitivity.

10.Support speech timekeeping and speech countdown functions.

11.Support internal feedback suppression function, voice control function, and adjustable voice control sensitivity.

12.Support sign-in function, support functions such as prohibiting unit sign-in and controlling unit sign-in through PC software.

13.Support voting function, there are multiple optional voting modes, and the content of the options can be customized and sent to the unit for display.

14.Support web page firmware upgrade function.

15.Support IP address sniffing function, you can find unknown ID number, IP address, MAC address and other parameters through PC tools.

16.Support modifying the device type (chairman/delegate) and setting the clock screen saver through the network.

## 2.2.Interface function

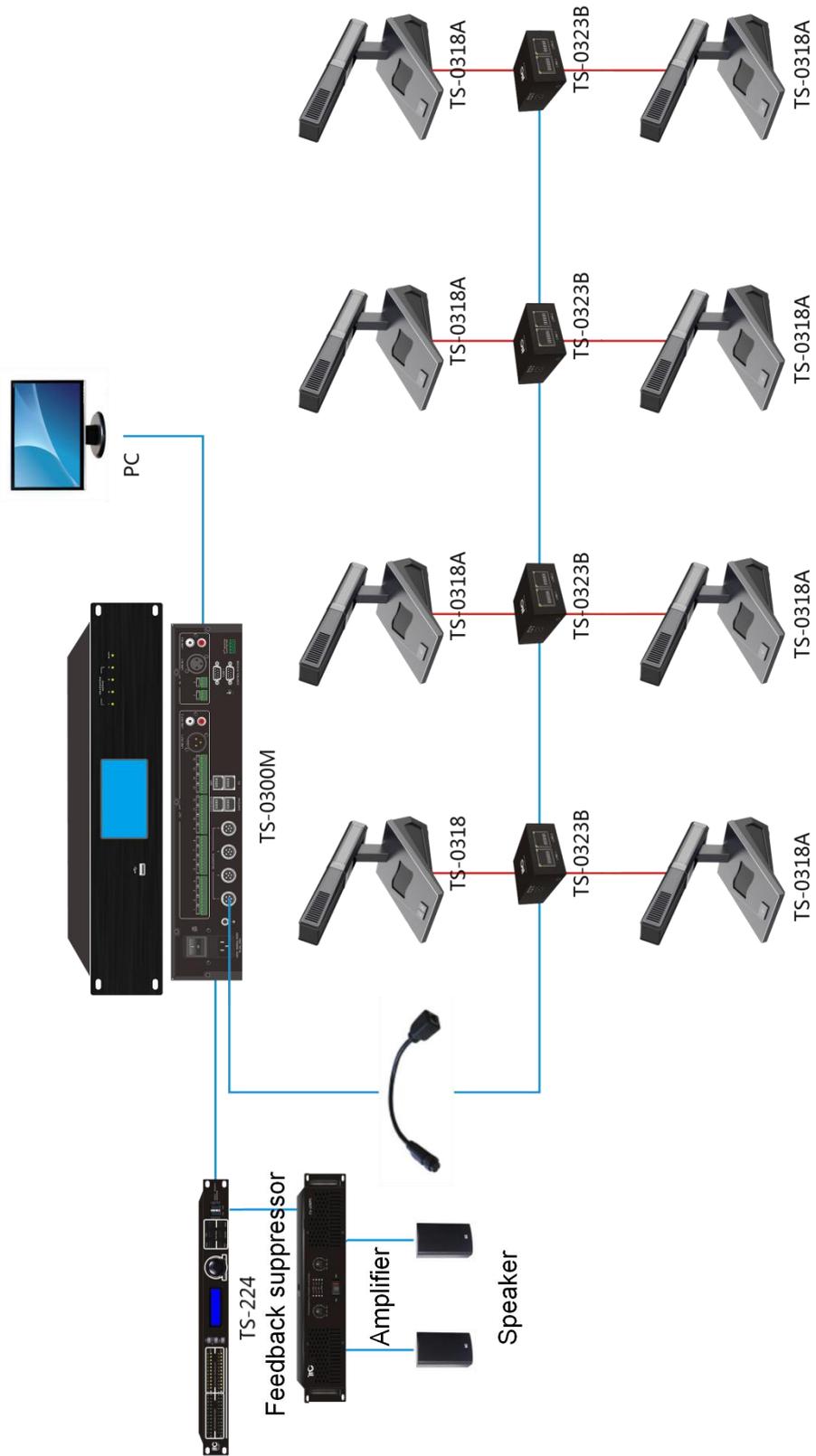


1. Power switch;
2. Chairman priority button(VIP button);
3. Display screen;
4. Microphone pole light;
5. Network cable;
6. Headphone jack.

## 2.3.Specification

Model	TS-0318/TS-0318A
Microphone type	Electret Condenser Microphone
Microphone directivity	Cardioid
Frequency response	80Hz~16KHz
Input impedance	1K $\Omega$
Sensitivity	-36 $\pm$ 1.5dB (0dB=1V/Pa, at 1KHz)
Max SPL	120dB(THD>3%)
SNR	>80dB(A)
Crosstalk	>70dB
Dynamic range	>80dB
THD	<0.1%
Max power consumption	4W
Power supply	Powered by conference host
Color	Fine sand graphite gray
Sign-in function	Button sign in
Installation method	Desktop installation
Microphone pole	180mm
Dimension (L×W×H)	100.9×130×54.3mm(base)
Weight	1.2Kg

### 3. System connection diagram



## **4. TS-0318/TS-0318A Operation instructions**

### **4.1.Startup**

- (1) Startup page: The startup page will be displayed when it is powered on.

### **4.2.Unit type**

(1) The chairman unit has a microphone button and a priority button, which can perform operations such as switching the microphone on and off, executing the priority, initiating sign-in and voting, etc.

(2) The delegate unit has a microphone button but no priority button, which can perform operations such as switching the microphone on and off and sign-in.

### **4.3.Conference management**

(1) The microphone on/off of the unit is controlled by the conference management, and its permissions are configured by the conference host. Refer to the conference mode description of the host for the logic of use.

(2) Press the priority button of the chairman unit to turn off the microphones of all delegate units and turn on its own microphone.

### **4.4.Sign in**

(1) Initiate sign-in through PC software. At this time, you can press the microphone button of the unit to sign in, and the sign-in result will be displayed on the local display screen and PC software.

- (2) Unit sign-in function can be disabled or enabled through the PC software.

### **4.5.Voting**

(1) Initiate voting through PC software. At this time, you can press the microphone button of the unit to vote, and the voting result will be displayed on the PC software.

- (2) Unit voting function can be disabled or enabled through the PC software.

## **4.6.Fire alarm**

When the host sends out a fire alarm message, the red light on the microphone pole will flash until the the fire alarm is canceled and the unit returns to the previous status.

## **4.7.Speech countdown and Speech timekeeping**

This function needs to be controlled and switched by the conference PC software. For details, please refer to the PC user manual. It is used to switch on and off the microphone. When enabling speech countdown, the PC will issue the time for the scheduled speech, and the unit will count down to display the remaining speaking time. After timeout, the microphone will be automatically turned off. The speech countdown is only valid for the delegate unit, not for the chairman unit. As for speech timekeeping, the PC designates the unit to count the speaking time, and the spoken time will be displayed on the PC. The unit screen will display the countdown and timekeeping time.

## **4.8.System settings**

The system settings page includes simultaneous interpretation settings, language settings, volume/brightness settings, and system information.

## **4.9.Simultaneous interpretation settings**

Select the simultaneous interpretation channel.

## **4.10.Language settings**

Support switching between Chinese, English, Russian and French languages.

## **4.11.Volume/Brightness settings**

Pull the slider to set volume and brightness.

## **4.12.System information**

It contains device type (chairman/delegate), local IP address, device ID number, voting permission, sign-in permission, and application version number.

### **4.13.Service request**

Three service requests can be initiated: tea, pen and paper, service staff, and the service request can be responded to on the PC side.

### **4.14.SMS and Electronic nameplate**

The PC side can send short messages and electronic nameplate information. After the device receives the short message, the pop-up window displays the short message, and automatically returns to the LOGO page after 30 seconds. After the device receives the electronic nameplate information, it is displayed on the top of the display.

### **4.15.Related functions of conference PC software and audio adjustment function**

Voice control sensitivity setting, voice control off time setting, language switching, sign-in enable setting, voting enable setting, microphone sensitivity setting, five-band EQ display and setting, please refer to the PC software user manual for specific instructions.

### **4.16.Unit ID number and related IP address**

(1) According to the current unit ID number, the IP address of the unit can be obtained. The first two bytes of the IP address are fixed 172.16; the next two bytes will be the upper and lower 8 bits of the ID number.

(2) For example: if the ID number is 1, the IP address is 172.16.0.1; if the ID number is 100, the IP address is 172.16.0.100; if the ID number is 300, the IP address is 172.16.1.44; if the ID number is 4090, the IP address is 172.16.15.250;

(3) If you forget the ID number, you can find the ID number and IP address of the current microphone through the provided PC view IP address widget.

### **4.17.The unit supports the ICMP protocol and the related operations such as PING packets**

The PC calls out the CMD and can ping the IP address of the corresponding unit.

## 4.18. Unit web page login

- (1) Set the computer to the same network segment as the unit;
- (2) For the IP address of the unit, please refer to the description in 4.16;
- (3) The subnet mask is 255.255.0.0;
- (4) All settings on the web page are valid after "submit info".

The screenshot displays the web interface for unit settings, organized into three main sections, each with a blue header bar and a dropdown arrow on the right:

- UNIT BASIC SETTING**
  - ID number: A numeric input field with a value of 11 and minus/plus adjustment buttons.
  - Voice mode sensitivity: A numeric input field with a value of 60 and minus/plus adjustment buttons.
  - Voice mode mute interval: A numeric input field with a value of 30 and minus/plus adjustment buttons.
  - Language: A selection menu with options: 中文, English (selected), Русский, and Français.
  - Sign: A toggle switch with "Disable" and "Enable" options, currently set to "Enable".
  - Buttons: "Submit" and "Reset".
- UNIT AUDIO SETTING**
  - Mic sensitivity: A dropdown menu currently set to 0dB.
  - Buttons: "Submit" and "Reset".
- UNIT EQUALIZER SETTING**
  - Five frequency bands, each with a center frequency dropdown and a gain dropdown:
    - 80 ~ 175 HZ: 105 HZ, 0 dB
    - 230 ~ 500 HZ: 385 HZ, 2 dB
    - 650 ~ 1400 HZ: 850 HZ, 1 dB
    - 1.8 ~ 4.1 KHZ: 2400 HZ, 0 dB
    - 5.3 ~ 11.7 KHZ: 6900 HZ, 0 dB
  - Buttons: "Submit" and "Reset".

## 4.19. Set the unit ID number on the web page

- (1) Set the unit ID, the IP address of the unit will change after setting.
- (2) After setting, if you want to set parameters on the web page, you need to perform login settings based on the IP address bound to the new ID.

## 4.20. Set the voice control mode on the web page

- (1) Set the microphone sensitivity of the voice control mode;
- (2) Set the no-signal off time of the voice control mode (the chairman unit is not affected).

## 4.21. Set the language switching function on the web page

- (1) Switch between Chinese, English, Russian and French.

## 4.22. Enable sign-in function on the web page

- (1) This function needs to be set in **non-sign-in mode**, and is usually set before the meeting.

UNIT BASIC SETTING

ID number: 11

Voice mode sensitivity: 60

Voice mode mute interval: 30

Language: 中文, English, Русский, Français

Sign: Disable, Enable

Submit, Reset

## 4.23. Set the audio parameters on the web page

- (1) Microphone sensitivity;
- (2) Microphone EQ adjustment.

UNIT AUDIO SETTING

Mic sensitivity: 0dB

Submit, Reset

UNIT EQUALIZER SETTING

80 ~ 175 HZ	105 HZ	0 dB
230 ~ 500 HZ	385 HZ	2 dB
650 ~ 1400 HZ	850 HZ	1 dB
1.8 ~ 4.1 KHZ	2400 HZ	0 dB
5.3 ~ 11.7 KHZ	6900 HZ	0 dB

Submit, Reset

## 4.24.View the unit basic info on the web page

- (1) Version number;
- (2) MAC address;
- (3) Unit type.

UNIT BASIC INFORMATION	
Kernel version	V1.1.0 H1110BA03
Application version	V1.4   M0908BAH3
MAC address	9C:9C:1F:1E:CC:DF
Unit type	Delegate

## 4.25.Network debugging assistant to modify unit type and clock screensaver

Connect the computer to the 0300M host PC port, modify the same network segment as the 0300M, open the network debugging assistant, select the protocol type, remote host address, port number, click connect, and follow the instructions below to change the unit type.

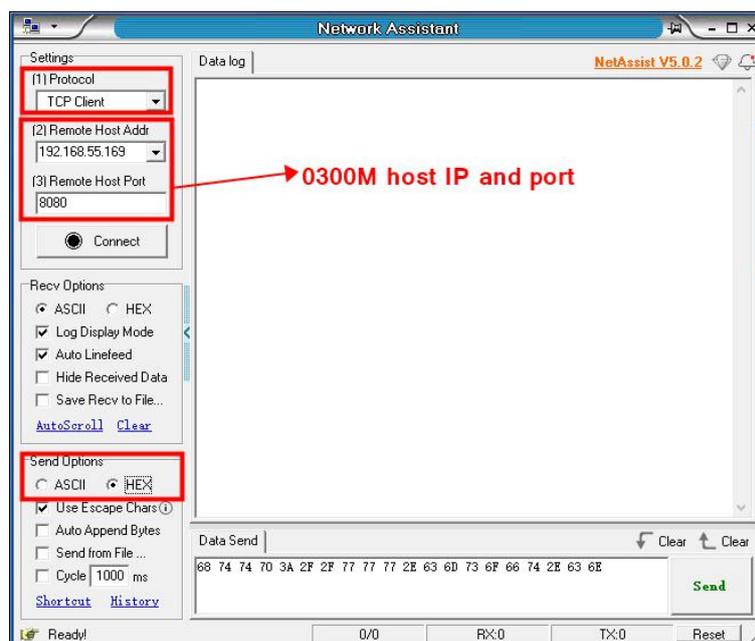
AA EE 08 xx xx 80 04 66 00 00 01 EE FC Chairman;

AA EE 08 xx xx 80 04 66 00 00 00 EE FC Delegate;

AA EE 08 xx xx 80 04 69 00 00 00 EE FC No clock screensaver;

AA EE 08 xx xx 80 04 69 00 00 01 EE FC Clock screensaver;

xx xx is the ID number.



## 5.TS-0318/TS-0318ADisplay operation instructions

### 5.1.Startup

Switch on the microphone, and the unit startup page is as follows:



After the startup is completed, enter the homepage, the interface is as follows:



### 5.2.MIC ON/OFF management

The microphone ON/OFF of the unit is controlled by the conference management, and its permission is configured by the conference host. Refer to the conference mode description of the host for the logic of use.

① Press the MIC button to switch the microphone on and off, and the unit displays as follows:



Headphones are plugged in and the headphone icon is displayed:



② In APPLY mode, when a delegate unit applies to open the microphone, the delegate unit displays as follows:



At this time, the chairman unit displays as follows:



③ When the number of applicants is full, it prompts that the number is full, and the display is as follows:

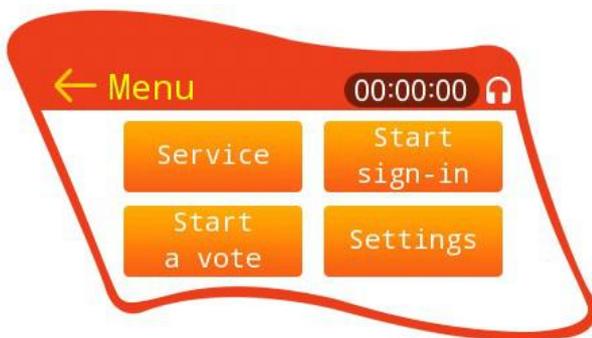


④ In NOMAL mode, the delegate unit exceeding the number enter the waiting state, and the number of waiting applicants is full, the user will be prompted that the number of waiting mics is full.

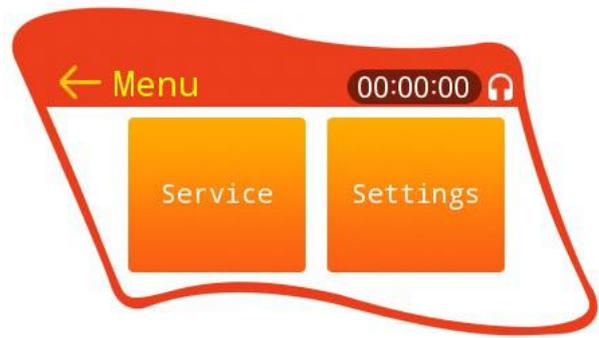


### 5.3.Menu interface

Chairman Unit



Delegate Unit



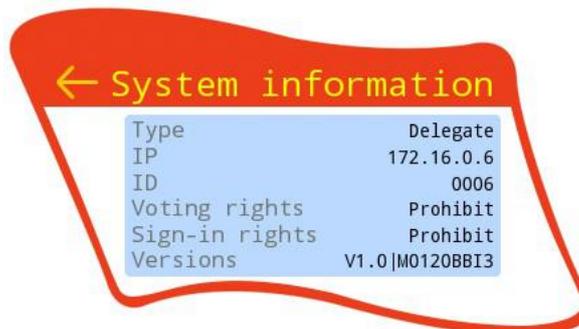
### 5.4.Service interface

Click "Tea", "Paper and Pen", "Service Staff", and "the service has been sent" page pops up, click Exit again or exit after 3 seconds of inactivity, and return to the service interface.



## 5.5. System information

Click to enter the system information interface to display the current device type (chairman/delegate), IP address, ID number, voting permission, sign-in permission, application version number, kernel version number and other information.



## 5.6. Volume/Brightness

Click to enter the volume/brightness interface, and the slider at the bottom can be used to adjust the brightness of the screen (1-100), and adjust the volume of the headphones (0~16).



## 5.7. Simultaneous interpretation settings

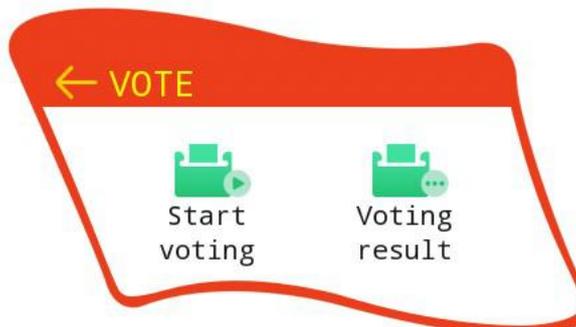
Click to enter the simultaneous interpretation settings, you can slide up and down to switch the simultaneous interpretation channel(0~63).



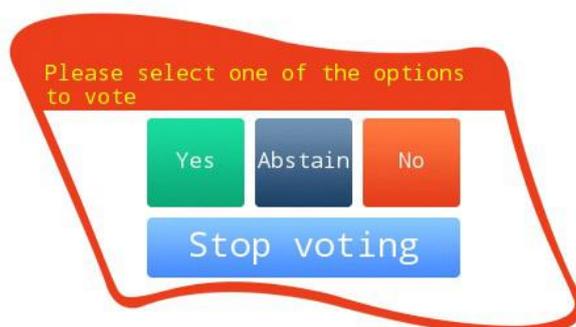
## 5.8. Voting

When the voting permission is enabled, click to start voting and all microphones will enter the voting mode, and click the voting result to display the last voting result.

Initiate a vote



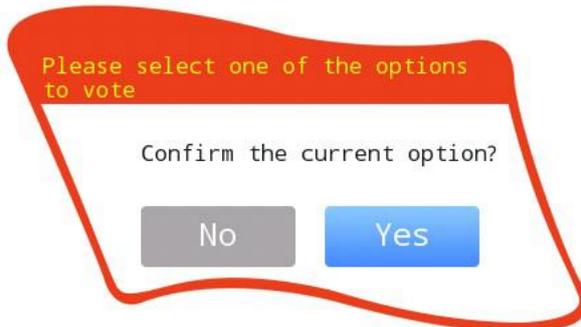
Chairman voting interface



Delegate voting interface



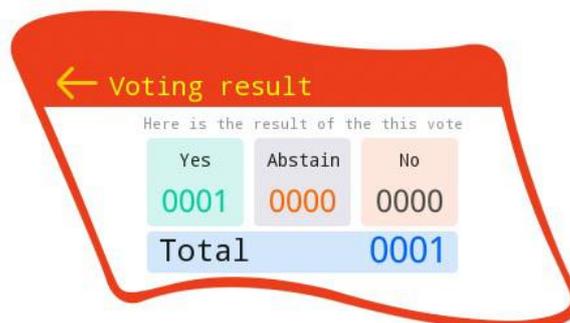
Voting confirmation interface



Voting result interface



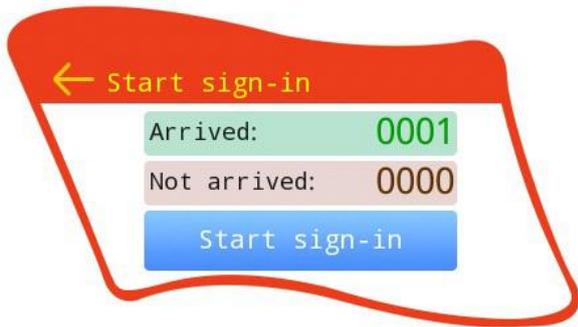
After the voting is completed, the results of this voting will be updated and displayed.



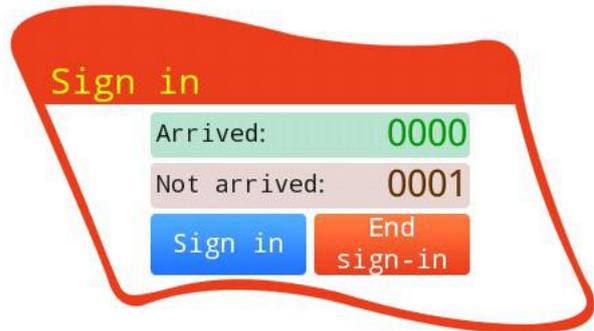
## 5.9. Sign-in

When the sign-in permission is enabled, the chairman clicks to start sign-in, and all online microphones enter the sign-in mode.

Chairman unit starts sign-in



Chairman sign-in interface

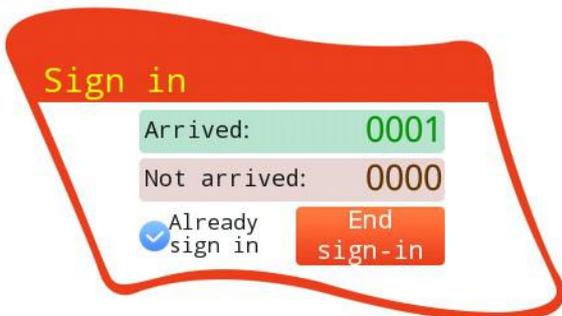


Delegate sign-in interface



After clicking the sign-in button, you will be prompted that you have signed in successfully. The interface is as follows:

Chairman signed in successfully



Delegate signed in successfully



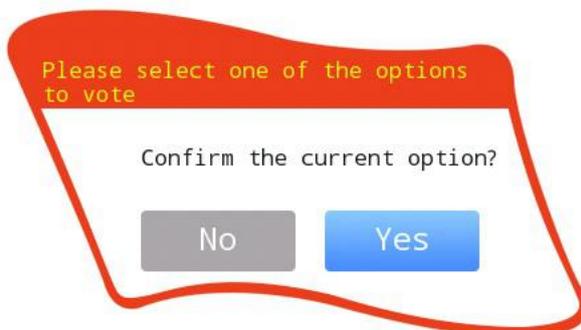
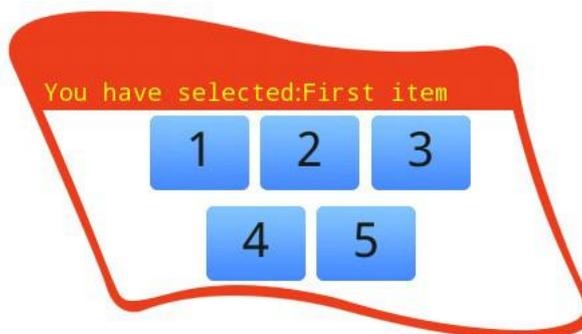
## 5.10. Language settings

Click the language settings to enter the language switching interface, click the corresponding language button, and the system language will be switched to that language. For the time being, only Chinese, English, Russian, and French languages are supported.



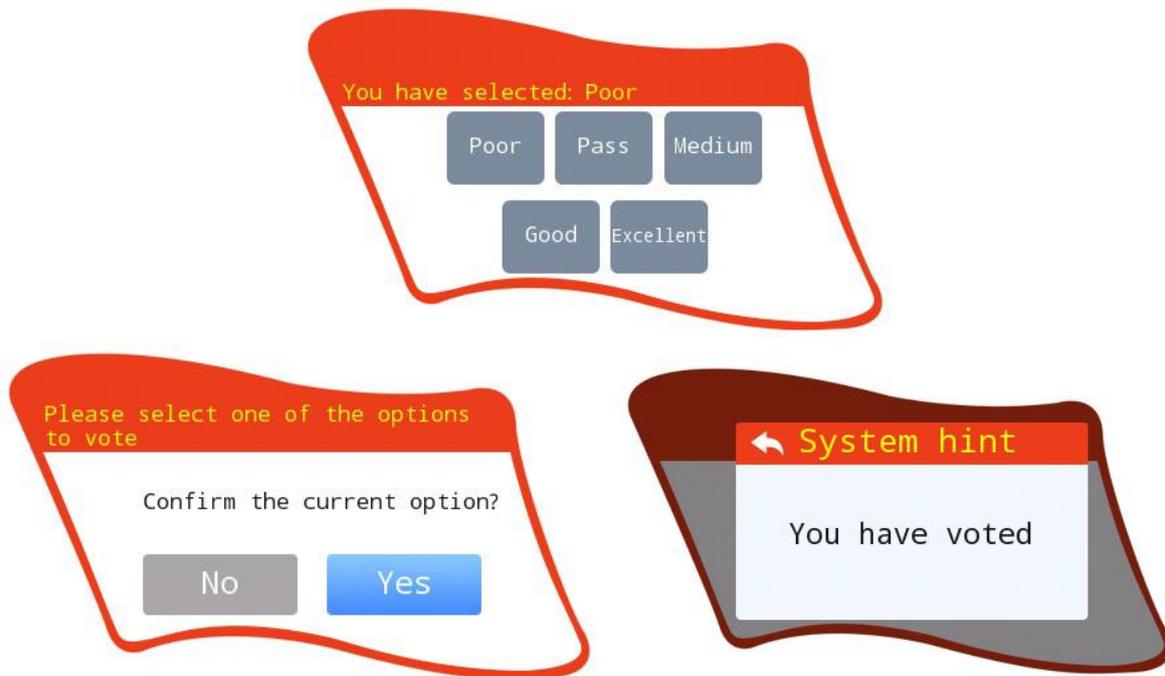
### 5.11.Regular voting initiated by PC

Selecting the corresponding option will pop up a window for confirmation. If it is valid for the first time, clicking the option again will prompt you have voted, and the prompt bar above will prompt the option you have selected.



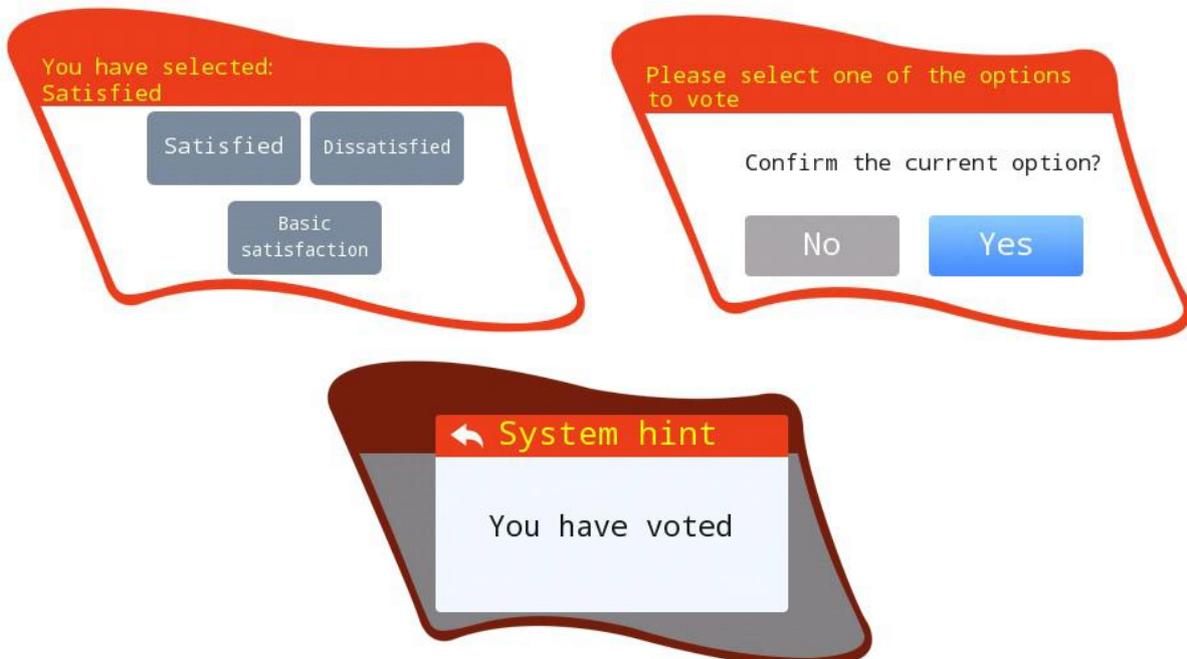
### 5.12.Five-key rating initiated by PC

Selecting the corresponding option will pop up a window for confirmation. If it is valid for the first time, clicking the option again will prompt you have selected, and the prompt bar above will prompt the option you have selected.



### 5.13.Evaluation function initiated by PC

Selecting the corresponding option will pop up a window for confirmation. If it is valid for the first time, clicking the option again will prompt you have selected, and the prompt bar above will prompt the option you have selected.



## 5.14.Message notification

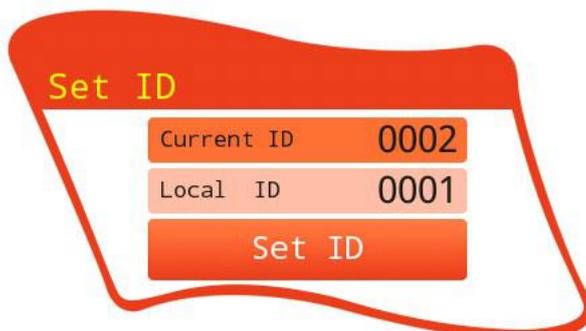


## 5.15.Fire alarm



## 5.16.Local ID setting

Click Setting to modify the local ID, and each time you press the setting button, the local ID is automatically +1.



## 5.17.Clock display

Click the clock home page or no operation for 90 seconds to enter the clock page, press it again to return, and it can be controlled by the PC software to display that it has been turned off.



## 6.Precautions for use

**Note:** When using the unit search and scan tool to search for the IP address of the device and log in to the WEB management interface, pay attention to the fact that the **TS-0318 and TS-0318A units cannot be directly connected to the computer network port, which will cause the computer to burn.**

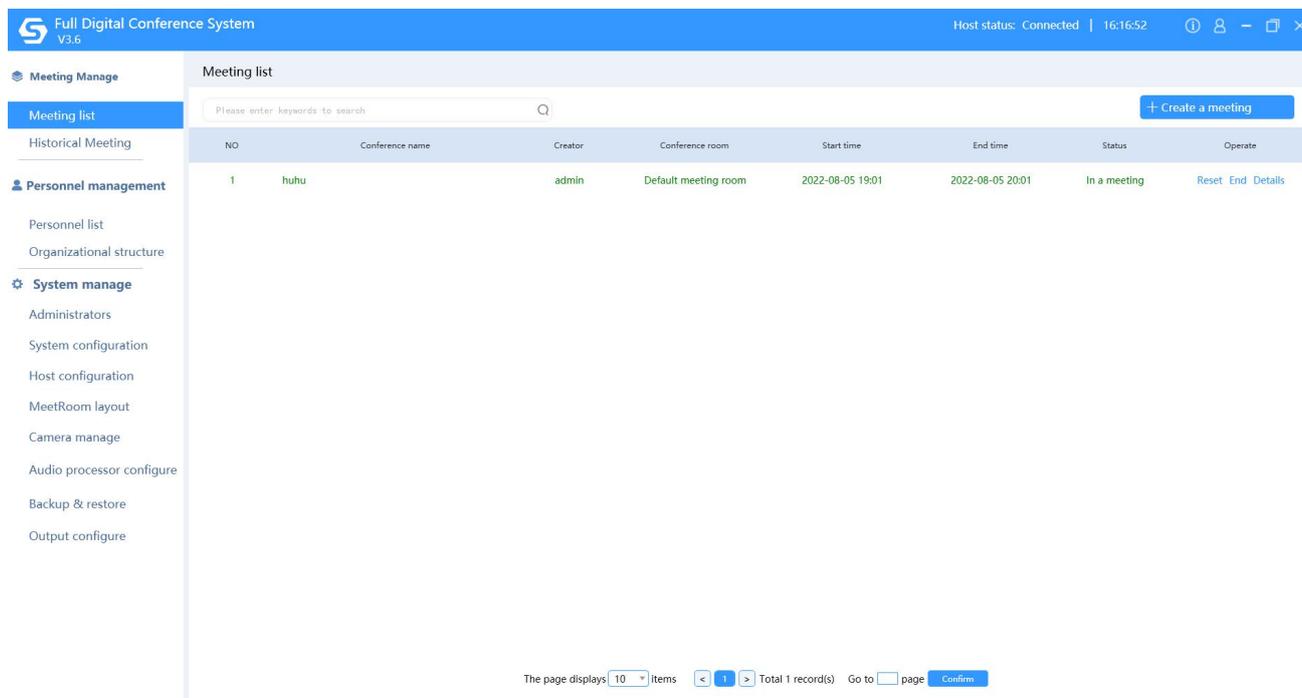
The TS-0318 and TS-0318A microphones can only be powered by connecting to the conference host. Correct steps: firstly, connect the TS-0318 to the TS-0300M conference host through the six-core to network port adapter cable TS-003DRM, and connect the computer to the conference host EXTENSION port, and then open on the PC side to scan the ID number, IP address and other information of the current device.

**Disclaimer:**

- 1. The TS-0318 and TS-0318A microphones must be connected with our factory-supplied network cable, otherwise all the consequences will be borne by yourself.**
- 2. The network port is prohibited from connecting to other devices, otherwise all the consequences will be borne by yourself.**

## 7.Conference PC software

The PC control software supporting the new conference system is powerful and easy to operate. It includes most of the functions required for a meeting, and is designed according to the sequence of the meeting procedure. Users only need to follow the usage order from top to bottom on the left sidebar.



Introduction to the system management interface: The left side of the system management interface displays the three functional modules of the system: Conference management, Personnel management, and System management.

Each of these modules contains several sub-modules.

Conference management includes sub-modules: conference list and historical conference; Personnel management includes sub-modules: personnel list and organizational structure; System management includes sub-modules: administrator, system configuration, host configuration, conference room layout, backup and recovery, and output configuration, etc.

Due to the limited space of this user manual, the specific operation instructions of the new conference system software will not be introduced in detail here. For details, please refer to the "New Conference System Software User Manual".

# Fully Digital Conference System

