Fully Digital Conference System

User Manual

TS-0332

TS-0332A

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.

CONTENTS

1.Product description

This product is a third-generation technically simple microphone with new solution architecture, compact design, exquisite and beautiful. Different from the traditional six-core aviation cable, it comes with a 2-meter network cable, which greatly facilitates the construction and wiring.

2.Product Description

Embedded Microphone

2.1.Features
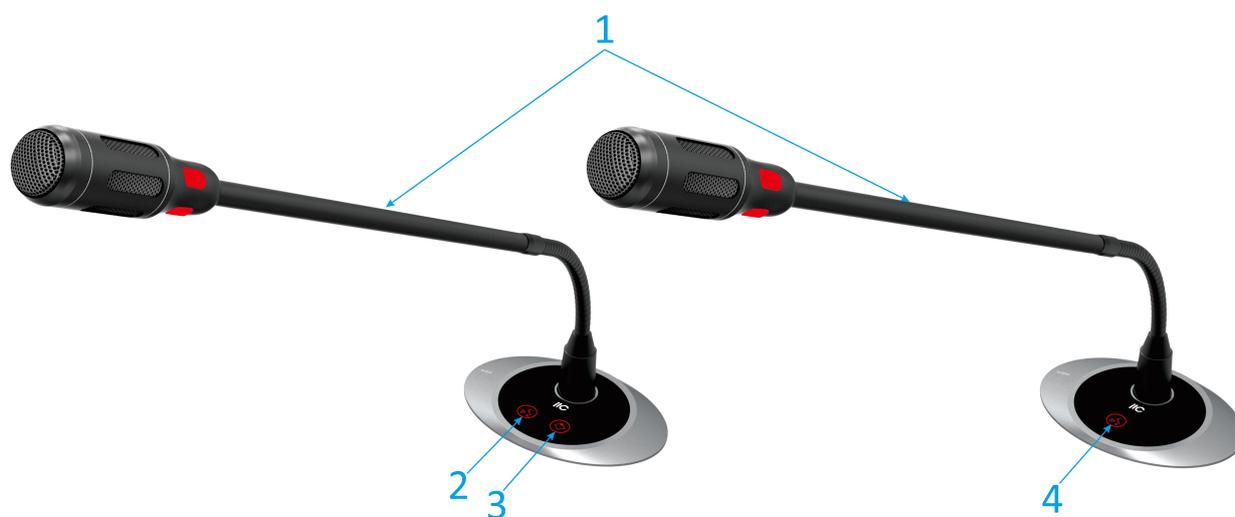
1.Embedded fully digital touch control design, elegant and compact appearance, user-friendly operation.

2.Digital transmission link, connected to the conference controller cascade port for power supply through network cable; uncompressed audio transmission technology, 48K sampling rate, 80Hz-16KHz bandwidth perfect sound quality.

3.Capacitive touch keys are adopted to ensure no key tapping sound and a good environment of the venue.

4.The unit supports microphone control and voice control function by PC software.

5.The chairman unit has the priority to turn off the delegate unit.

6.With standard TCP/IP protocol, support ICMP, HTTP, UDP, TCP, IGMP and other protocols.

7.Support PING packet function.

8.The unit has an independent web control page, which supports adjusting parameters such as microphone ID number and microphone sensitivity.

9.Support the functions of speech timekeeping and speech countdown; the delegate unit can apply for speaking.

10.The unit has voice control function, and the voice control sensitivity is adjustable.

11.Support sign-in function. You can also disable and control the unit check-in, and other functions through the PC software.

12.Support firmware upgrade function on the web page.

13.Support the IP address sniffing function. And the ID number, IP address, MAC address and other parameters of the unknown unit can be found through the PC tool.
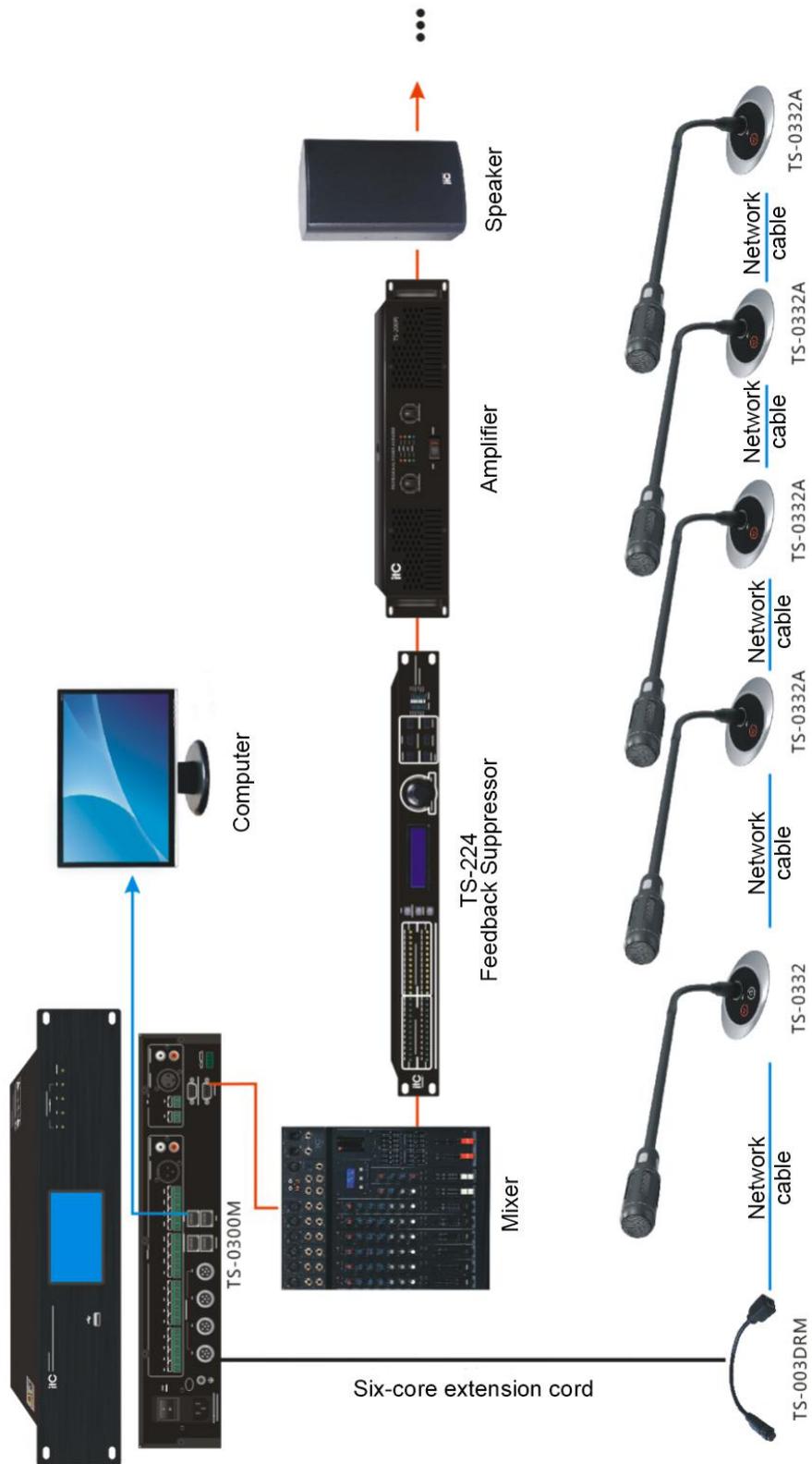
2.2.Interface function

1. Microphone pole light;

2. Chairman unit power button;

3. Chairman unit priority button (VIP button);

4. Delegate unit power button.

2.3.Specification

Model	TS-0332/TS-0332A
Microphone type	Electret capacitive
Microphone directivity	Cardioid
Frequency response	80Hz~16KHz
Microphone input impedance	1KΩ
Sensitivity	-37±1dB (0dB=1V/Pa,at 1KHz)
Maximum SPL	120dB(THD>3%)
SNR	>80dB(A)
Crosstalk	>70dB
Dynamic range	>80dB
THD	<0.1%
MAX power consumption	2W
Power supply	Conference controller
Color	Graphite gray
Sign in	Button
Dimension (LxWxH)	108*77*129mm
Microphone rod	409mm black
Installation method	Embedded
Weight	0.3Kg

3.System connection diagram

4.TS-0332/TS-0332A Operation instructions

4.1.Unit type

(1) The chairman unit has microphone button and priority button, which can switch the microphone, perform priority, sign in and other operations.

(2) The delegate unit has microphone button and no priority button, which can switch the microphone and sign in.

4.2.Meeting management

(1) Microphone switching of unit is controlled by the conference management, and its authority is configured by the conference controller. Refer to the conference mode description of controller for use logic.

(2) Press the priority button of chairman unit to turn off the microphone of all delegate units, and this chairman unit turns on the microphone.

4.3.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 result will be displayed on the PC software after signing in.

(2) The sign-in function of unit can be disabled or enabled through PC software.

4.4.Fire alarm

When the controller sends fire alarm, the red light on the microphone pole of the unit will flash until the controller cancels the fire alarm. And the unit returns to the state before the alarm.

4.5.Speech countdown and speech timekeeping (No screen to display, view on PC terminal)

This function needs to be controlled by the conference PC software. Please refer to the PC instructions for details. For speech countdown, the PC will issue the time for the speech, the unit will count down and display the remaining speech time, and when the time is up, the microphone will be automatically turned off. The speech countdown is only valid for delegate unit; For speech timekeeping, the PC specifies the unit to perform the speech timekeeping, and the speaking time will be displayed on the PC.

4.6.Audio adjustment

This function needs to be controlled by the conference PC software. Please refer to the PC instructions for details.

4.7.Unit ID number and related IP address description

（1）The current unit ID number is used as the IP address of the unit. 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.

4.8.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.

4.9.Unit web page login

（1）Set the PC to the same network segment as the unit;

（2）For the unit IP address, please refer to 4.7 Unit ID number and related IP address description;

（3）The subnet mask is 255.255.0.0;

（4）All settings on the web page are valid after "Submit information".

4.10.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.

4.11.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).

4.12.Set the language switching function on the web page

Chinese, English, Russian and French switching. (TS-0332/0332A does not have a screen and this is not work)

4.13. Enable sign-in and voting function on the web page

This function needs to be set in non-sign-in mode and non-voting mode, and is usually set before the meeting.

4.14. Set the unit audio parameters on the web page

（1）Microphone sensitivity;

（2）Microphone EQ (This unit does not have EQ adjustment function).

4.15. View the unit basic information 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	

5.Precautions for use

Note: The network port of TS-0332 microphone unit does not support POE power supply, and can only be powered by connecting to the conference controller. It is forbidden to connect to the POE switch.
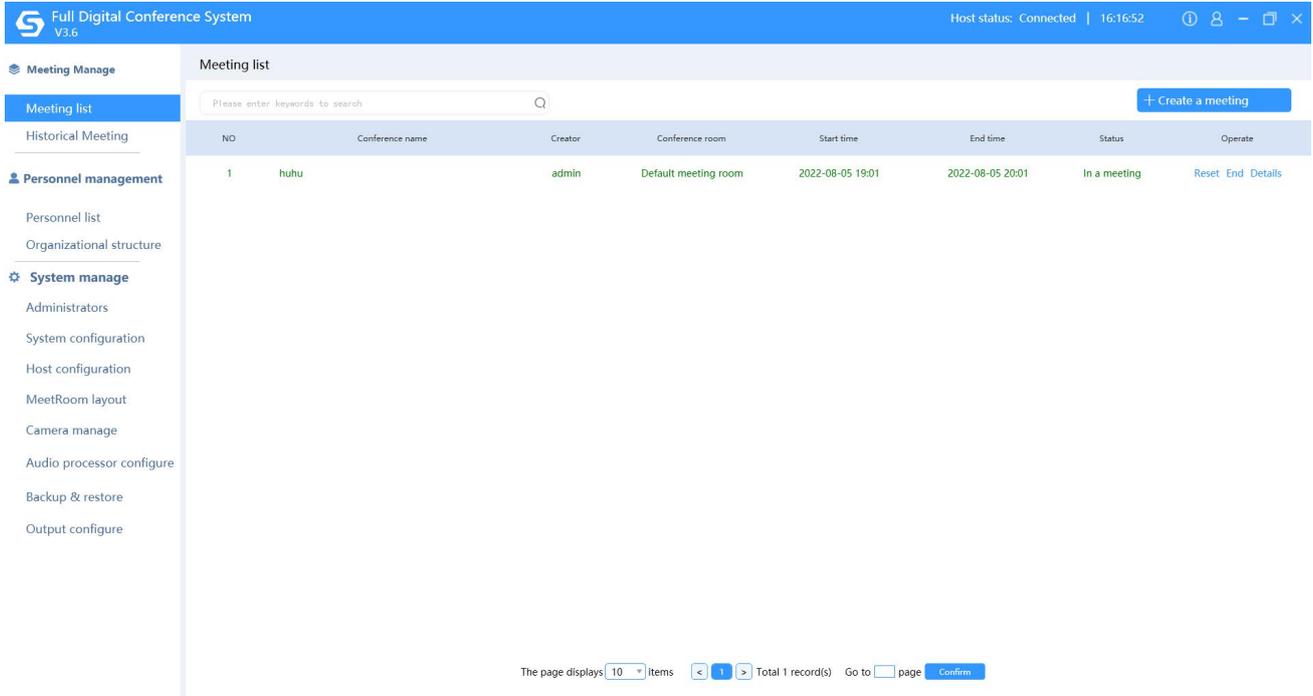
Correct steps: connect the TS-0332 to the TS-0300M conference controller through the six-core transfer cable TS-003DRM, connect the computer to the extension port of the conference controller, and then open the on the PC to scan the ID number, IP address and other information of the current device.

Disclaimer:

1. The connection between TS-0332/0332A microphones must use the equipped network cable, otherwise all the consequences will be borne by yourself.

2. It is forbidden to connect other devices to the network port, otherwise all the consequences will be borne by yourself.

6.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".

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