itC

Fully Digital Conference System

User Manual

TS-0205
TS-0205A

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.

Working temperature : -10℃~60℃.

Humidity is limited to 5% to 90% (non-condensing).

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.
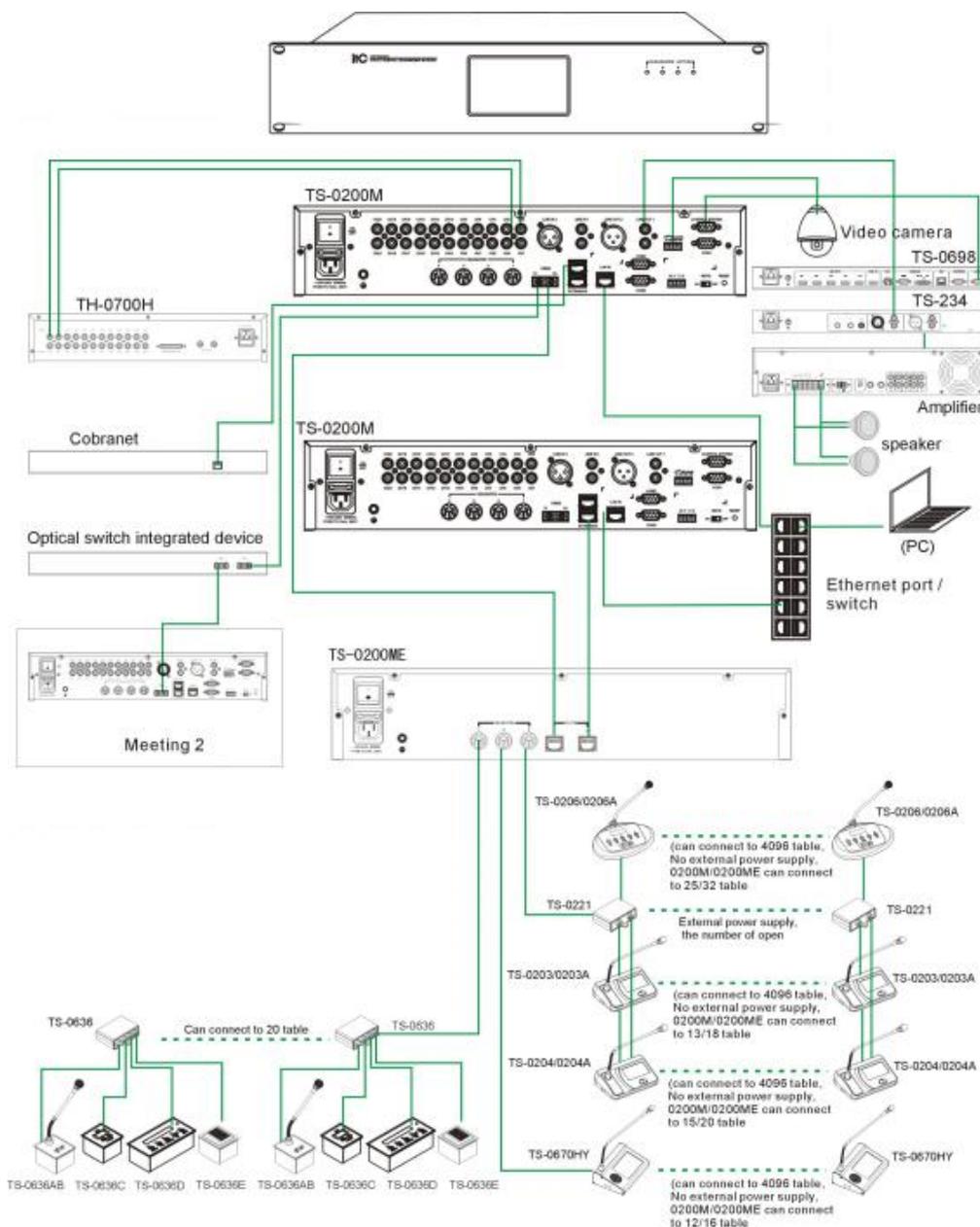
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1. System Introduction

1.1 Sketch

TS-0200 series full digital conference system using ITC company unique with complete proprietary intellectual property rights internet communication and digital transportation technology, use digital technology with internet on conference system productions, which make new breakthrough in conference industry.

1.2. System Diagram

2. Product Presentation

2.1 Fully Digital Conference Built in Interpretation Chairman/Delegate Unit(With 4.3 Inch Capacitance Color Screen)

2.2 Features

1. Microphone uses 48 KHZ sampling rate, the sound quality is higher than CD, clear and bright.with DSP audio processing inside, there is no 'poop-poop low-frequency impact sound.

2. With functions of speech timing and timing to speak.

3. Delegate Unit can apply for speech, the chairman can approve the applicant's speech.

4. With functions of feedback inhibition, which can effectively prevent whistles

5. Chairmen unit with voice control function, open microphone intelligently.

6. With 5 segment EQ regulatory function, it can adjust the sound effect according to the characteristics of the speaker's voice, until reach the perfect effect.

7. Chairman unit has priority function, it can turn of all working delegate units.

8. With 4.3 inch true color touch screen interface, simple operation, user-friendly use of machine functions;

9. Adopting 100M network transmission, realizing hand in hand cascade, it won't effect the sound quality even in long distance transmission.

10. With one 3.5 mm stereo output socket, it can use to record and connect the headset.

11. With one 3.5 mm stereo input socket, it can be used for headset input.

12. Support voting, election, rating function, chairman unit can raise voting and check-in function. can realize data statistics even without computer.

13. Language channel is selectable, the factory defaults is 15+1, you can set 31+1 and 63+1.

14. Microphone keys is capacitance touch-key design, ensure there is no tapping sound in conference room during operation.

2.3 Product Function Introduction

TS-0205(Chairman Unit)：   TS-0205A(Delegate Unit)：

①   4.3" capacitance touch screen

②   Chairman Unit Microphone key (touch style)

③   Chairman Unit Microphone priority key(touch style)

④   Delegate Unit Microphone Key (touch style)

⑤   Earphone interface

⑥   Earphone Microphone interface

⑦   Mic Unit expansion interface

2.4 Technology Parameter

Model Number	TS-0205/0205A
Microphone type	heart-shaped directivity electret
Frequency response	80Hz~16KHz
MIC input impedance	1KΩ
Sensitivity	-46 dBV/Pa
Maximum SPL	125dB(THD>3%)
SNR	>80dB
Cross talk	>70dB
Dynamic range	>80dB
THD	<0.1%
Power consumption	5W
Earphone load	8-32Ω
Earphone volume	Maximum 40mW
Earphone interface	3.5mm mono jack
Standard	IEC60914
Connector	with 1.8M flight 6 pin
Hand in hand expansion interface	Offered
Power supply	Main controller supply DC 36V
Color	gray
Voting function	5 keys voting, 3 keys voting

Simultaneous interpretation	16、32、64 channel
Sign in function	Touch the button to sign in
Touch screen	4.3 inch capacitance color screen
Weight	1Kg
Microphone height	409mm
Dimension	206×174.2×65.5mm
Installation way	Tabletop

3. Conference Unit TS-0205/0205A Operating Instructions

3.1 Start up

Open the power of host to start the conference system, the unit screen displays "System Loading ...", start page is as follows

After starting up, the touch screen display LOGO interface, if the machine does not work normally, you can not switch to the LOGO interface automatically . The correct LOGO interface is as follows (The behind of Channel shows the current actual channel number)

Note: The capacitive touch screen needs to be calibrated manually when the unit is powered up for the first time.

3.2 Unit Type

The chairman unit has a microphone key and a priority key, the touch screen can switch microphone, close all delegate microphone, switch between Chinese and English, channel switching, volume adjustment, brightness adjustment, service request, initiate sign-in and vote, respond to check-in and vote and other operations.

The delegate unit has the mic without priority button, and on the touch screen, there are many functions like microphone switch, both Chinese and English channel switch, volume adjustment, brightness adjustment, sign-in and voting etc.

3.3 Meeting Management

The mic of delegate unit is controlled by Meeting Management, and its authority is controlled by the conference host configuration.The using logic can refer to the meeting mode description of the host. Pressing the button of Mic (ON or Off), it appears as follows:

:

Under APPLY mode, the applied delegate unit will open the mic, and appear as follows:

The chairman unit appears as follows:

When pressing the Agree button or Disagree button,, the applied units will be open or closed based on the mode of FIFO.

When the applied units is full, it will indicate "MIC is full"

Under the 'Normal' mode, he exceeded delegate units will go in to awaiting state.

Pressing the priority button of the chairman units, and all the mics of delegate units are closed. The mic of chairman units are open.

Delegate Unit appears as follows:

3.4 Sign In

Go to the menu page of the chair unit, press the start Sign-in button to enter the Sign-in page, then you can see the result of the last time Sign-in. Press the Start button to start the hardware Sign-in, you can view the number of not sign-in and the number of sign-in on the touch screen, you can also start Sign-in in the PC software. At this point you can press the MIC button, press the Sign-in button to sign in, then touch screen will show it has signed in and the number of sign-in people will increase by 1 and the number of not sign-in will decrease by 1. Press the Exit button to end and exit the sign-in.
If the check-in function of this chairman unit is disabled, press the start sign-in button, the touch screen will prompt to prohibit sign-in. At this point the sign-in function needs to be opened by PC.

3.5 Voting

On the menu page of chairman unit, press the start-voting button to enter the voting page, then you can choose and view the result of the last voting. Press the start-voting button to begin the hardware three-button voting, then the screen flashes as shown below. Press "Yes", "Abstain" and "No" to vote. The screen will stop flashing after voting. Press the End button then all units will display the voting results. Press the Exit button to return to the main page.
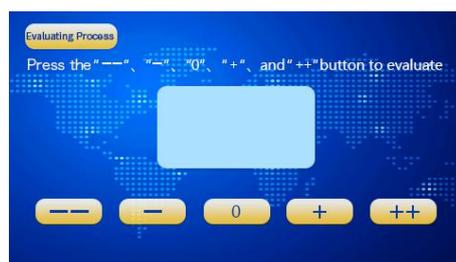

Other units' screen will show as below after starting three-button Voting:

The PC software can start the five-button election and screen will show as below, press the corresponding button to select the option.

The PC software initiates the 5-button rating display as follows, and presses the corresponding button to select the result.
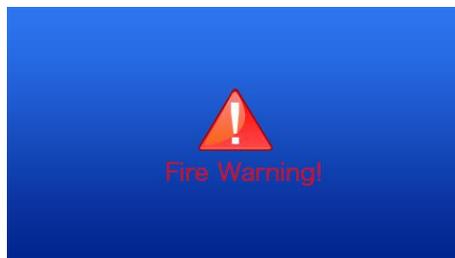

3.6 Channel selection

Chairman unit and delegate unit LOGO page can switch the current audio listening channel, listen to different channel sound, 0 channel as the original sound output, the remaining 15 for the interpreter output channel, power-down save, can be customized according to customer needs,to do 31 + 1,63+1 language channel, please contact the manufacturer for customization.

3.7 Fire alarm

When the host sends out a fire alarm message, the unit will display a "fire warning" prompt, the red light will blink until the host to cancel the fire alarm, the unit to restore the state before the alarm. In the fire alarm, the key failure.

3.8 Switch between English and Chinese

From the LOGO page, click on the menu button to enter the menu page, click on the language settings button to enter the English and Chinese switching page ,switch in English, power-down save. The Language Settings page also allows you to view the current machine version number.

3.9 Timing statements and speak with the timing

This function needs to be controlled by the conference PC software. For details, refer to the PC instruction. Its function is to switch the microphone, in the time to speak, PC issued time to speak, the unit will display the remaining time countdown to the time after the time to automatically turn off the microphone, the time to speak on behalf of the unit is valid, the chairman unit is invalid; Speech timing, PC designated unit to speak time, the unit will account the time and display the spoken time.

3.10 short message hint

This function switch control by conference PC software. Specific should based on the instruction.The PC can also send the message to every single unit in the display to remind the user.

3.11 nameplate function

The PC will record all the participant name.after the Unit Mic received the instruction,the participant name will show in the LOGO page in the top-left corner. It can save data when power be cut

suddenly

It can also proceed to broadcast the nameplate function for single or multiple unit. It can save data when power be cut suddenly.the message can not over 8 Chinses word or 16 English character.

3.12 Menu

Enter the menu page, as shown in the picture below. There are language setting function, Volume control function, intensity control, Service Request, voting function, sign in function.

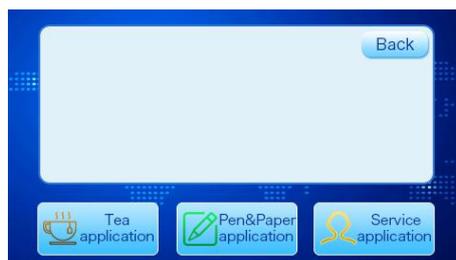### 3.13. Screen brightness control

Enter the page of the menu, Click on the brightness adjustment button can be brightness adjustment, Brightness range can be 1-64,64 is the max Brightness. The default is 45.

3.14 Volume control function.

Enter the page of the menu, Click on the volume button can adjust the volume,the volume range 0-16,0 means mute.16 means the max volume, It can save data when power be cut suddenly.PC software can adjust all the Mic's volume.PC software can adjust the range from 1 to 14.

3.15 Service Request

The participant can send the Tea application, pen and paper application, the handle service application, Click on the menu page service items.enter the page of sending application.then you can choose the application that you need to send by yourself.

After you choose the application item, the machine will remind you whether send the application or not. Yes means sent,otherwise back to last move.

After sent the application,you can see the corresponding hint in the PC.The unit will also have the corresponding hint.
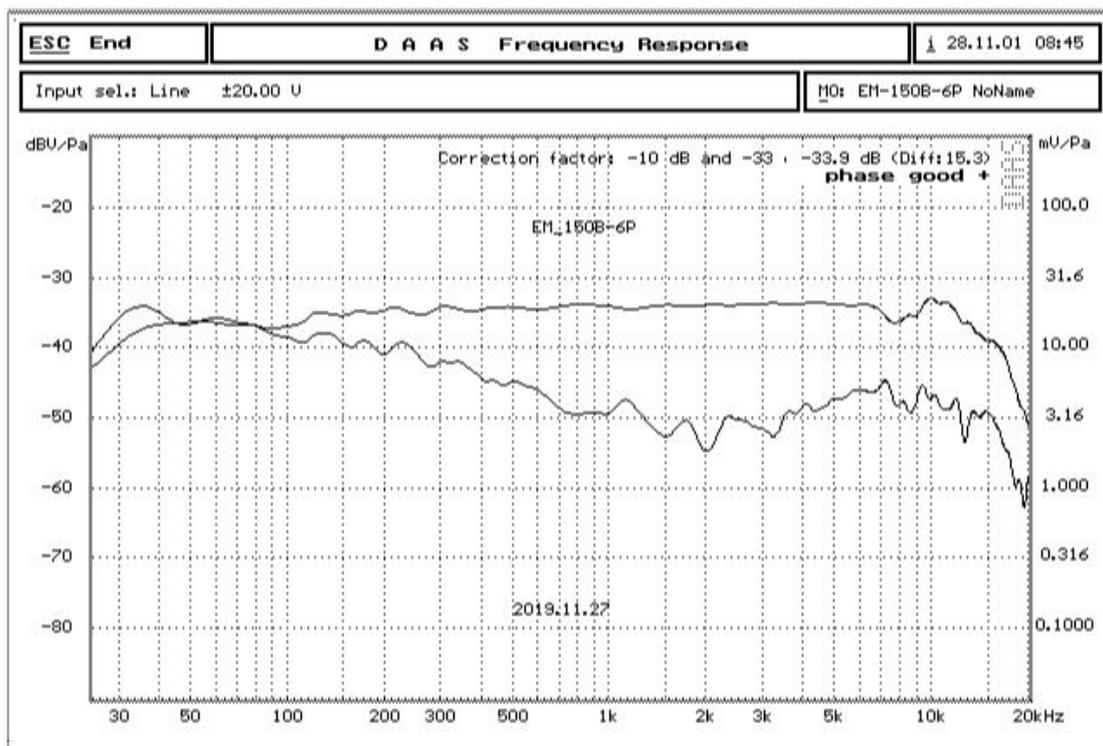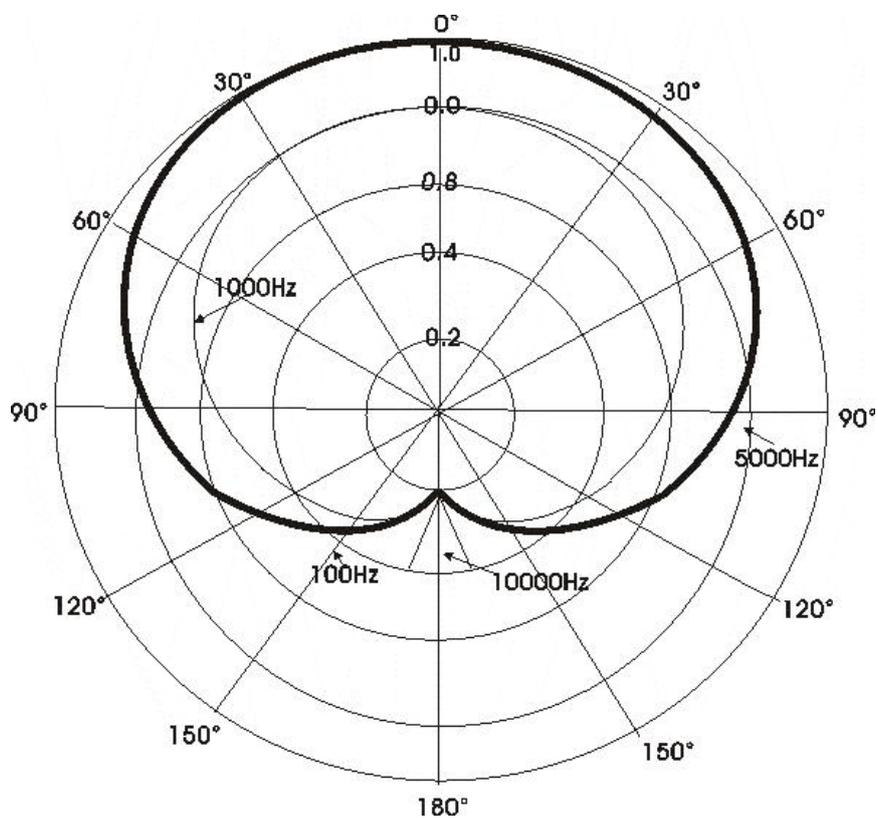

3.16 Other functions

You can use the headphone Mic for talking,. when insert the headphone Mic,the microphone pole can not be work,when you insert the headphone output,the voice will come from the output.without inserting the headphone,the voice come from the speaker unit inside the conference Mic.

Appendix

1. Microphone frequency response curve

2. Microphone cardioid curve

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