



Fully Digital Conference System

User Manual

TS-0300MX

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:

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

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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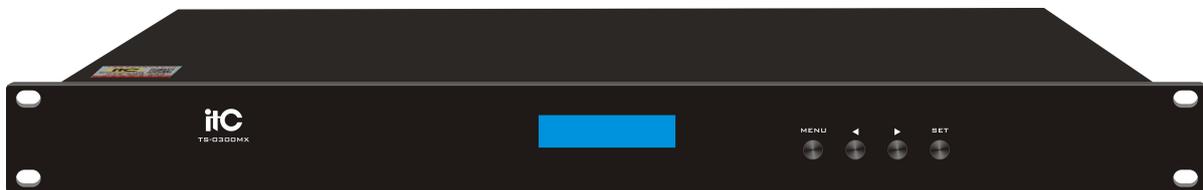
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1. System description

The fully digital conference system adopts the original network communication, digital transmission and processing technology, greatly connecting the digital technology and network technology with the conference system. In fact, the perfect combination of wireless WIFI system and wired fully digital system makes a new breakthrough in the field of conference system.

2. Introduction of TS-0300MX

TS-0300MX Role separation controller

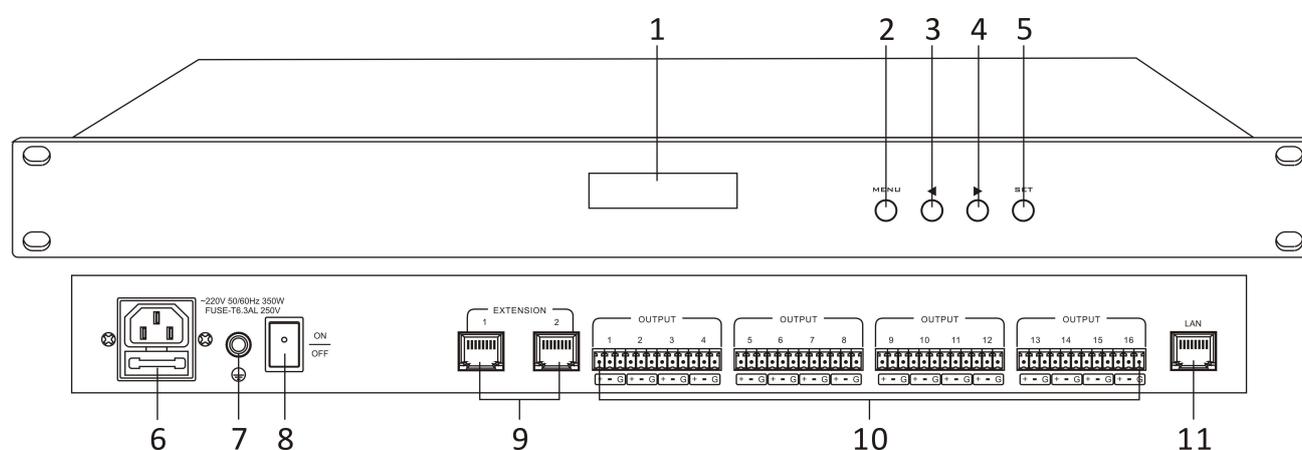


2.1 Feature

1. Original clock synchronization and transmission technology, audio delay is less than 5ms, uncompressed audio transmission of sampling rate 48K .
2. Can access fully digital conference and WIFI conference system; with the conference controller, can realize the extension of the microphone output interfaces.
3. Professional output interface design, compatible with balanced and unbalanced signals. 16 multi-function output Phoenix terminals, support 16-channel three-pin XLR balanced or unbalanced output.
4. Powerful 16-channel output function, support wired role separation output mode, wireless role separation output mode, and simultaneous interpretation output mode.
5. Role separation output mode, support independent output of wired or wireless units according to ID number and a maximum of 128 channels through cascading, output range ID1-ID128.
6. Simultaneous interpretation output mode, support independent output of simultaneous audio according to the channel number, and a maximum of 63+1 channels through cascading.
7. Role separation controller supports cascading to various devices, and each controller can be set with different output modes to realize the extension of the output interface. It can be connected to multiple scenes such as voice transcription, voice activation, separate recording, and infrared simultaneous interpretation, etc.
8. Built-in high performance DSP processor, each output can separately adjust the volume, 10-band EQ, delay and other functions.

9. ID editing function, and when multiple role separation machines are used, it supports detection of duplicate ID numbers.
10. Web control function, can view through the browser the online number of role separation controllers, and support switching language, setting output mode, ID output range, setting the audio specification of each channel and other functions.
11. OLED display screen and the touch button, support setting or viewing the output mode of the role separation controller, and ID output range, network information, language switching, online status of the controller, etc.

2.2 Introduction of interface

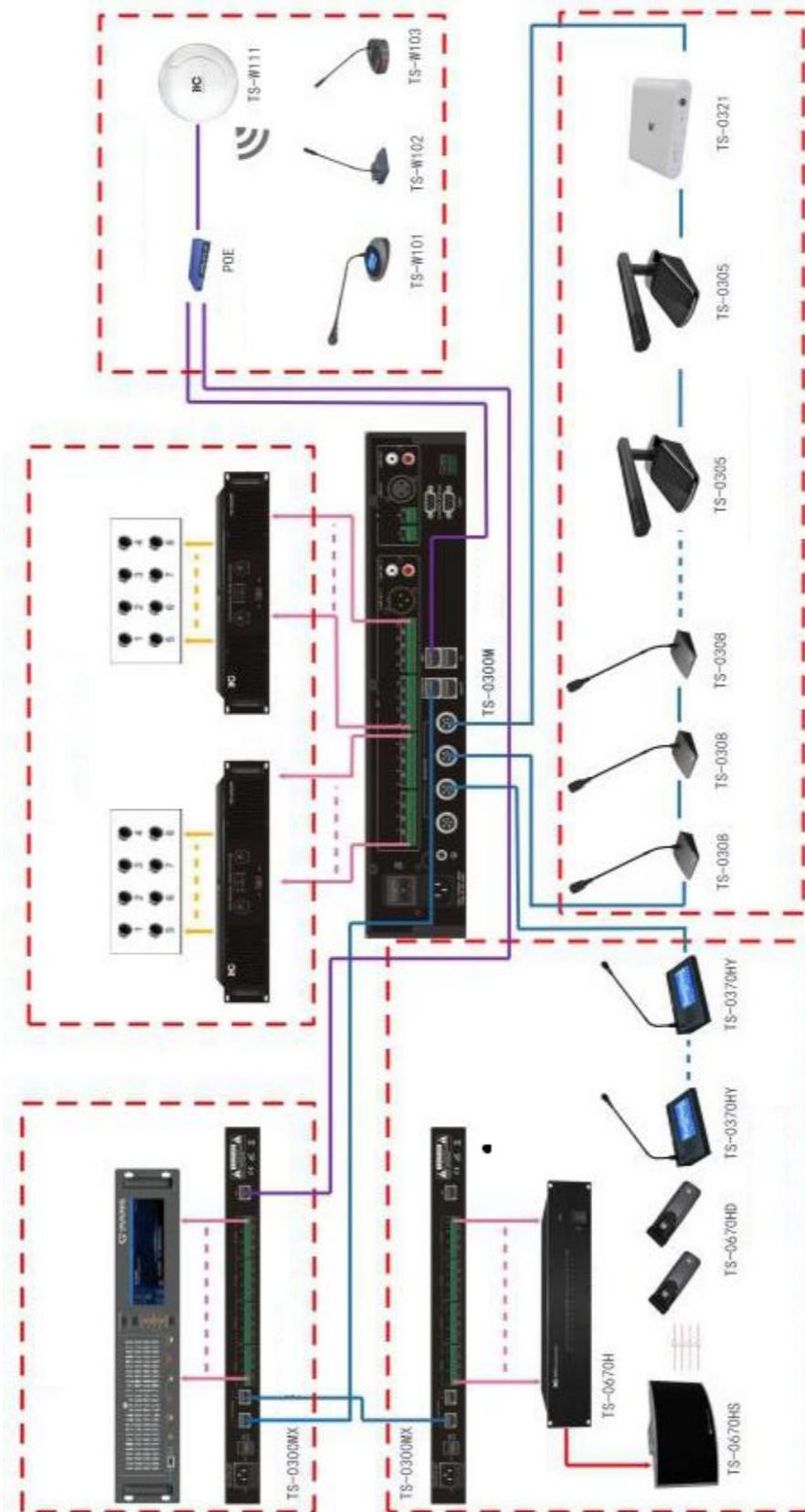


1. OLED display;
2. Menu/Enter button;
3. Return to the previous interface;
4. Enter the next interface;
5. Set/return button;
6. Power input socket, support 100-120V~ 7A 50/60Hz or 200V-240V~ 4A 50/60Hz voltage input;
7. Grounded pole;
8. Power switch;
9. EXTENSION, connect to the conference controller or cascade to role separation controller;
10. 16 multi-function output phoenix terminals, support simultaneous interpretation output mode and role separation output mode;
11. WIFI network port, connect to WIFI conference network through switch.

2.3 Specification

Model	TS-0300MX
Frequency response	80~16KHz
SNR	>80dB(A)
Dynamic range	>80dB
Total harmonic distortion	<0.05%
Main power	100~240VAC
Audio output	16 multi-function output Phoenix terminals: 1Vrms balancing
Output load	>1K Ω
RJ45 network port	Connect to controller, cascade
Static power consumption	7.4W
Connector reliability	Reliable
Standard	IEC60914
Working temperature	-10 $^{\circ}$ C~60 $^{\circ}$ C
Working humidity	20%~80% relative humidity, no condensation
Touch screen	2.23-inch OLED screen
Color	Black
Weight	2.3Kg
Size (L×W×H)	484×180×44mm
Installation	19-inch standard cabinet

3. System connection diagram



4. TS-0300MX Operation

4.1 Main interface



ID:01 
Wired role sepa



ID:01 
Interpretation



ID:01 
Wifi role sepa

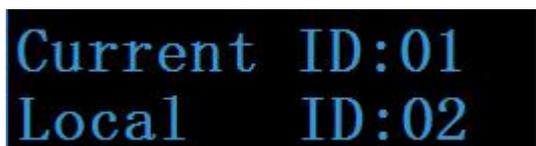
The main interface displays the ID, current mode and online status of TS-0300MX.



ID:01 
Wired role sepa

After connecting to the controller, the online icon is displayed on the upper right corner of the screen; after disconnecting to the controller, the offline icon is displayed on the upper right corner of the screen.

4.2 ID editing



Current ID:01
Local ID:02

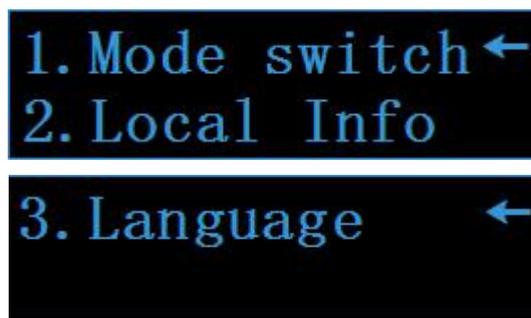
Start editing ID in "Role Separation Controller" in "Edit ID" on the screen of TS-0300M controller; when the current ID and local ID are displayed, press "SET" button to edit ID, and press "End" button to exit the ID editing status.



Local ID:02
Duplicate ID:02

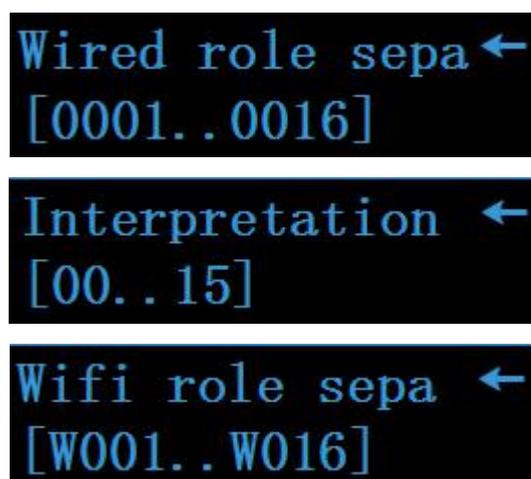
After finishing editing, if there is a duplicate ID, the local ID and the duplicate ID will be displayed on the screen.

4.3 Menu

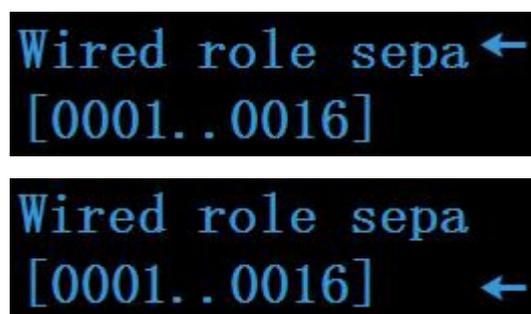


Click the MENU button on the main interface to enter the menu. There are three options in the menu, select the desired function by pressing the left or right button. The functions of the menu include mode switching, local information, and language switching.

4.4 Mode switching



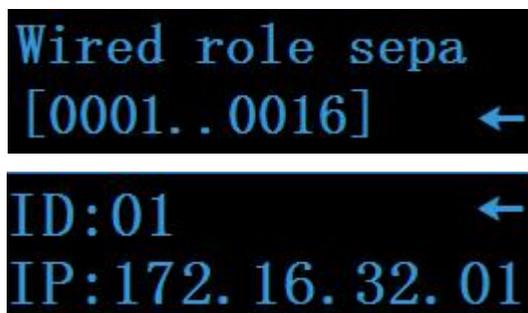
On the menu, when the arrow points to the mode switching, click the MENU button to enter the mode setting and the corresponding ID editing of the machine. After entering the setting interface, the current mode and ID range will be displayed. Click the MENU button to switch the mode and then click the SET button to set it successfully.



If you want to set the ID range, click the right button on the corresponding mode interface, and the arrow will point to the ID range. Click the MENU button to change the ID range and then click

the SET button to set it successfully.

4.5 Local information



On the menu, click the left or right button. When the arrow points to the local information, click the MENU button to enter the interface of local information query.

On the interface of local information query, the current mode and ID range of the machine can be viewed; click the right button to switch to the next page and view the local ID and IP information; click the left button to switch back to view the current mode and ID range of the machine; click the SET button to return to the previous interface.

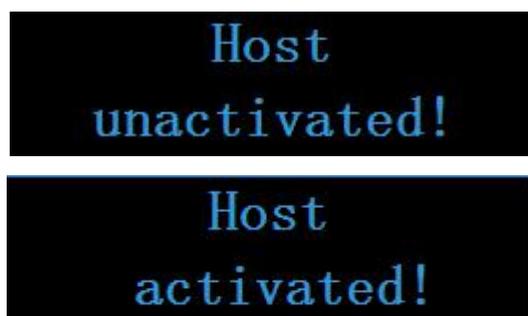
4.6 Language switching



On the menu, click the right button. When the arrow points to the language switching, click the MENU button to enter the language switching mode.

You can click the left or right button to switch the language, and click the SET button to set it and return to the previous interface.

4.7 Activation state



When the controller is not activated, it will give a prompt on the machine. When the activation

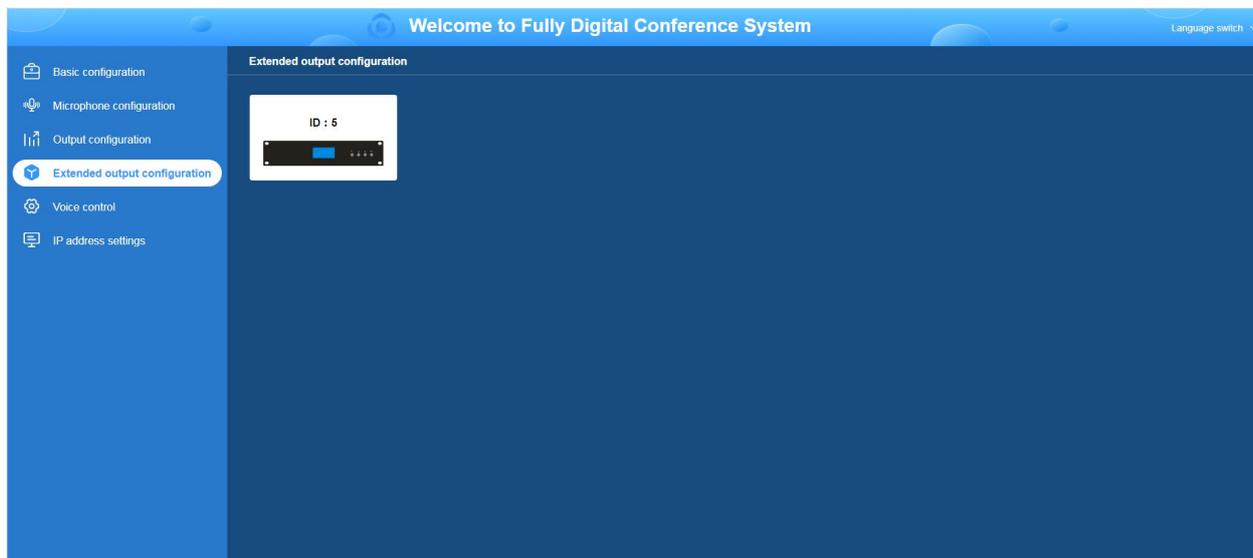
is done, the machine will display that the controller is successfully activated.

4.8 Standby state

When the role separation controller is connected to the conference controller, it shows that the conference controller is online. If there is no button operation for 15 seconds and there is no remote data update, it will enter the standby state. In the standby state, the separation controller will provide scrolling display. Press any button at this time to exit standby state and end the scrolling display.

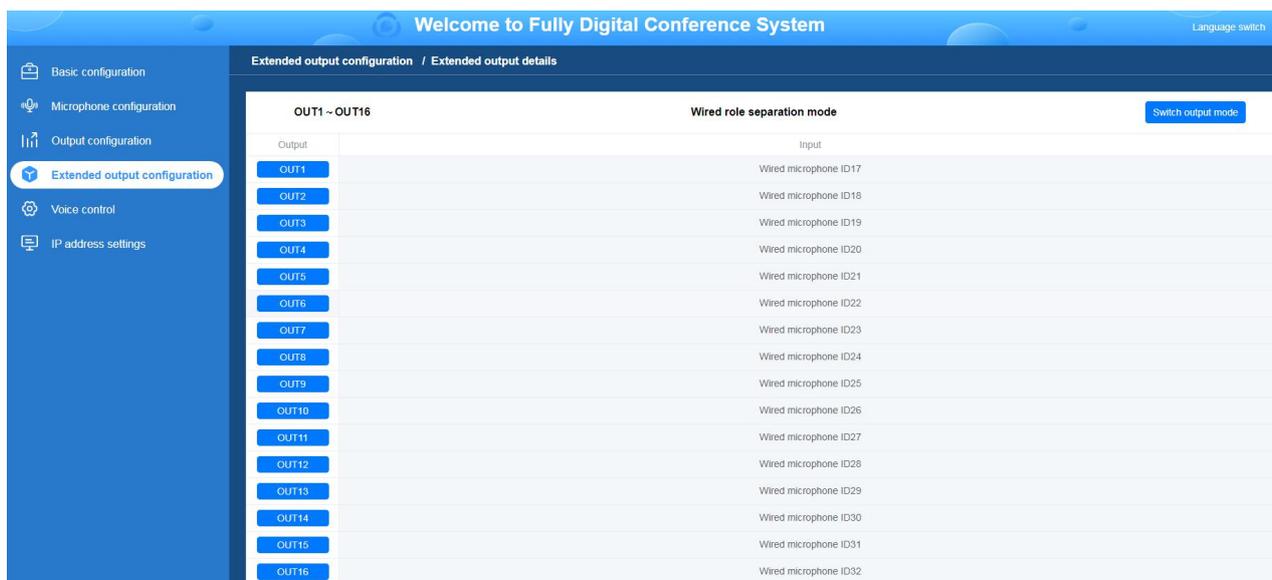
5. Web side

5.1 Extended output configuration



Type the IP of the machine on the web side to enter the web side of the third-generation controller. The computer controller needs to be in the same network segment as the IP of the machine. After entering the web side, you can see the online TS-0300MX separation processor in the extended output configuration.

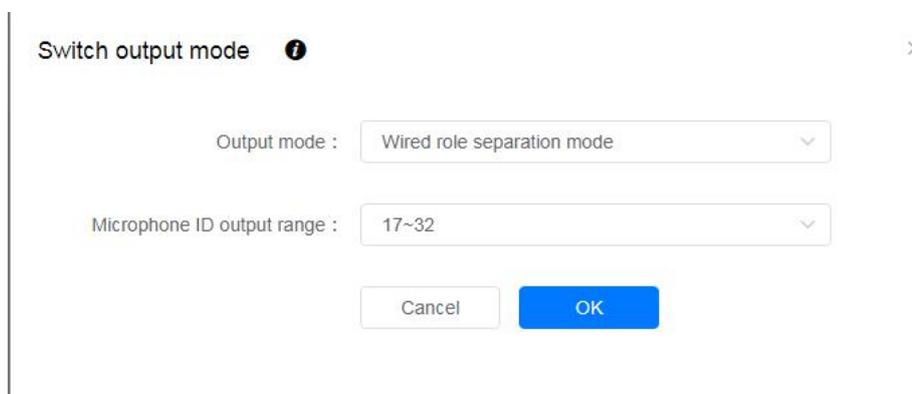
5.2 Extended output details



Left click the icon of TS-0300MX separation processor to enter the extended output details. It includes displaying the current mode, the 16-channel output configuration of the corresponding

mode, and changing the output mode.

5.3 Switch output mode



Click “switch output mode” to enter the editing interface of the output mode and the microphone ID output range.

5.4 16-channel output configuration



On the interface of extended output configuration, click OUT button to independently set the volume, EQ, and delay time of the 16-channel outputs. Click Reset button to restore the default setting.

Fully Digital Conference System

