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Fully Digital Conference System

User Manual

TS-0214/0214A

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.

1. Product Introduction

Microphone array integration can ensure that speakers can have high-quality sound in a wide range of activities. Speakers can stand, sit, move the head, move forward and leave the microphone device at will, the sound effect won't be not affected at all.

2. Product introduction

Flip array microphone conference speech unit

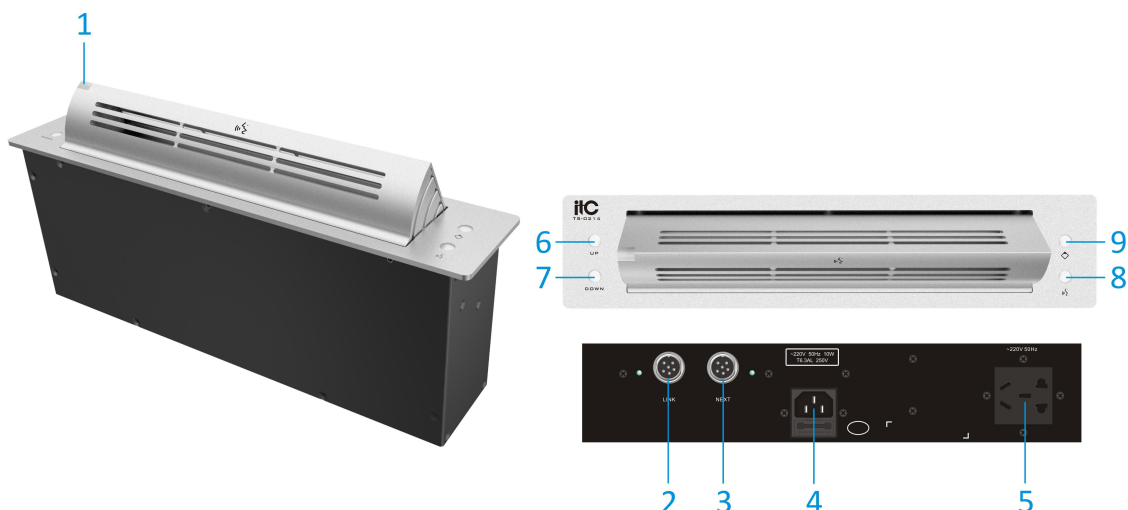| TS-0214 (Chairman unit) | TS-0214A (Delegate unit) |

2.1 Features

1. Microphone adopts 48KHz sampling rate with the sound quality better than CD. The sound is clear and bright. With internal DSP audio processing, no low frequency impact sound.

2. With speech timer and speech stopwatch.

3. The chairman has a priority function to turn off all delegate microphones that are speaking. The delegate unit can apply for a speech, and the applicant is allowed to speak with the approval of chairman unit.

4. With 5-band EQ adjustment function (adjustable with PC software input password), different sound effects can be adjusted according to the voice characteristics of the speaker until the perfect effect is achieved.

5. With 100M network transmission for hand-in-hand cascade, it can still maintain original excellent sound quality in long distance transmission.

6. With no gooseneck microphone pickup, the array microphone has a pickup distance up to 60cm, good directivity and cystic pickup area, which can effectively control the surrounding noise pickup.

7. Adopt embedded motorized flip structure, mute button and ultra-quiet motor

8. Support unified flip through conference controller touch screen or PC software .

9. It is connected to the mains power supply, and it has a power input interface and output interface to support the hand-in-hand cascading.
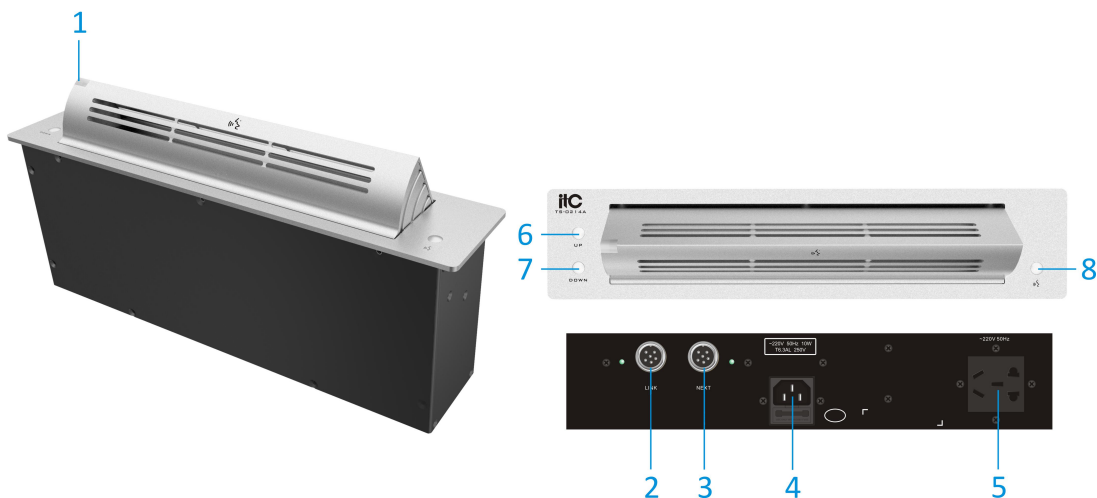
10.   When the conference controller sends out a fire alarm message, the unit's status indicator will flash until the controller cancels the fire alarm and the unit returns to the status before the alarm.

11. Support button sign-in function.

12. Support voice control function, voice control sensitivity adjustment. In voice control mode, both the chairman unit and the delegate unit can turn on the microphone by voice. After the delegate unit is turned on for 30 seconds (default), the microphone is automatically turned off. But the chairman unit is not restricted by this mode.

13. With conference controller and central control tracking system, it supports camera tracking. Press the SPEECH button and the camera will automatically track.

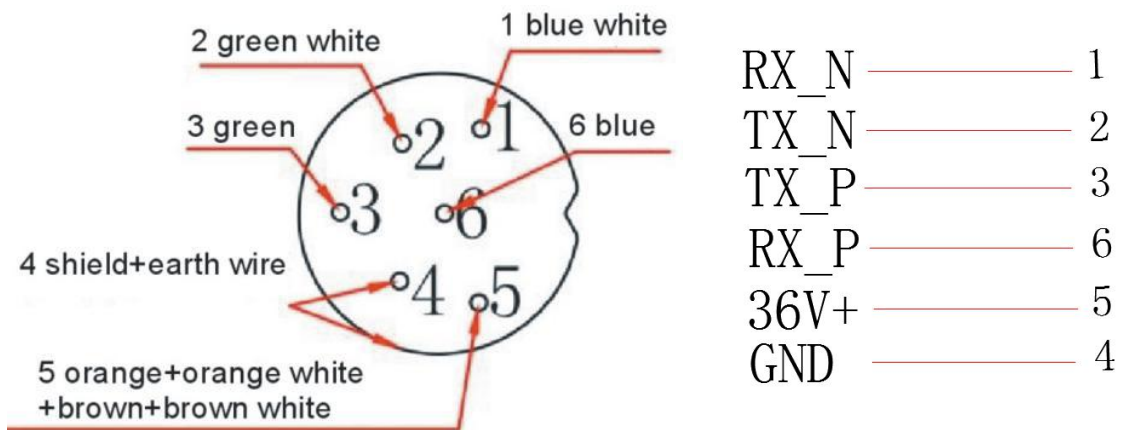## 2.2 Function Introduction of Product Interfaces

TS-0214（Chairman Unit）:

TS-0214A（Delegate unit）:

1) Microphone status indicator;

2) Connect the port of the previous conference unit;

3) Connect the port of the next conference unit;

4) AC power supply 220V power input port;

5) AC power supply 220V power output port;

6) UP——turn up the microphone;

7) DOWN——turn down the microphone;

8) ON / OFF——power button of MIC microphone of delegate unit;

9) PRIOR——Microphone priority button. The chairman unit (TS-0214) has special priority. Press the button to ban all the delegate units that are speaking at any time and turn on the MIC of the chairman unit.
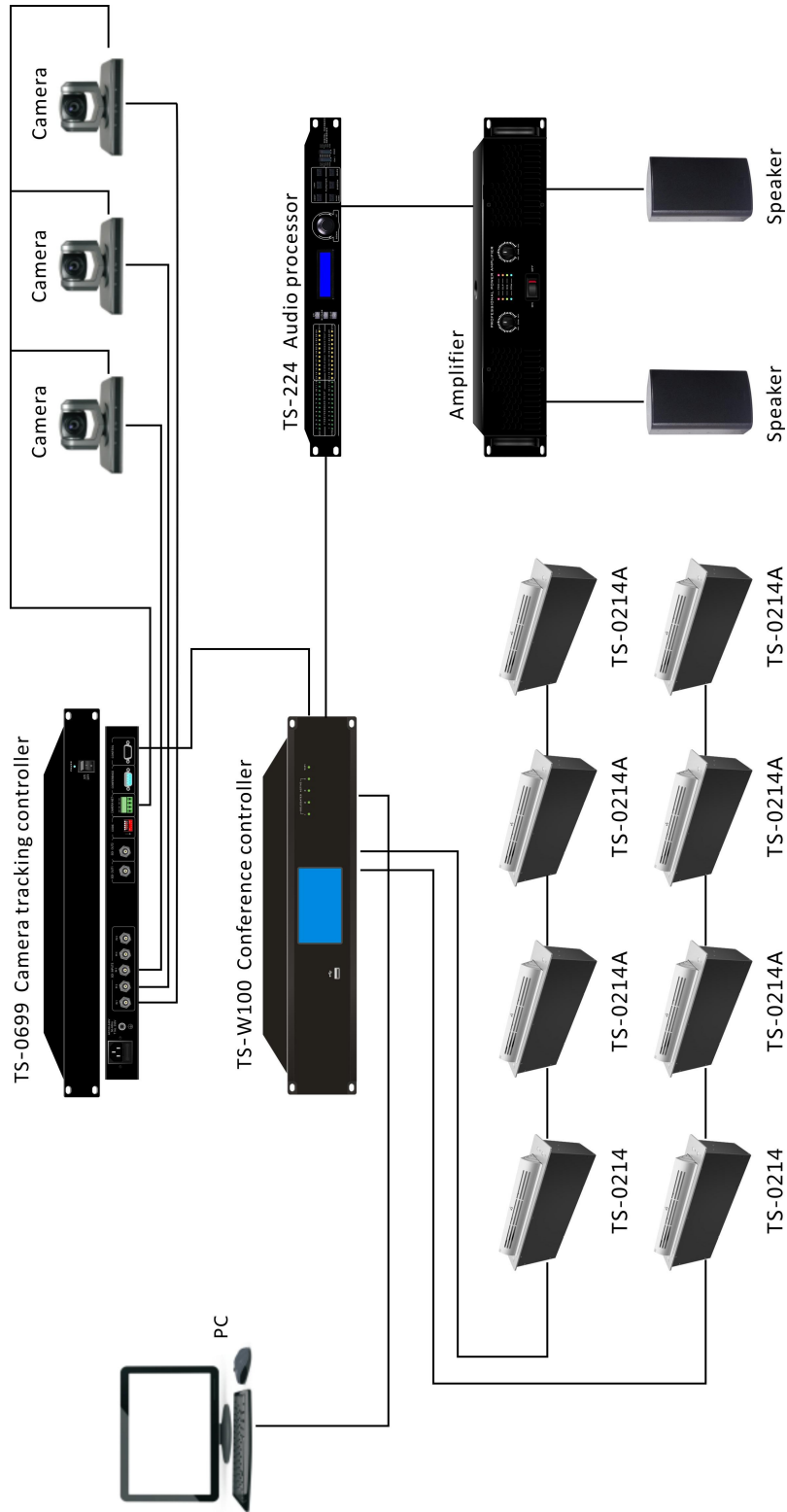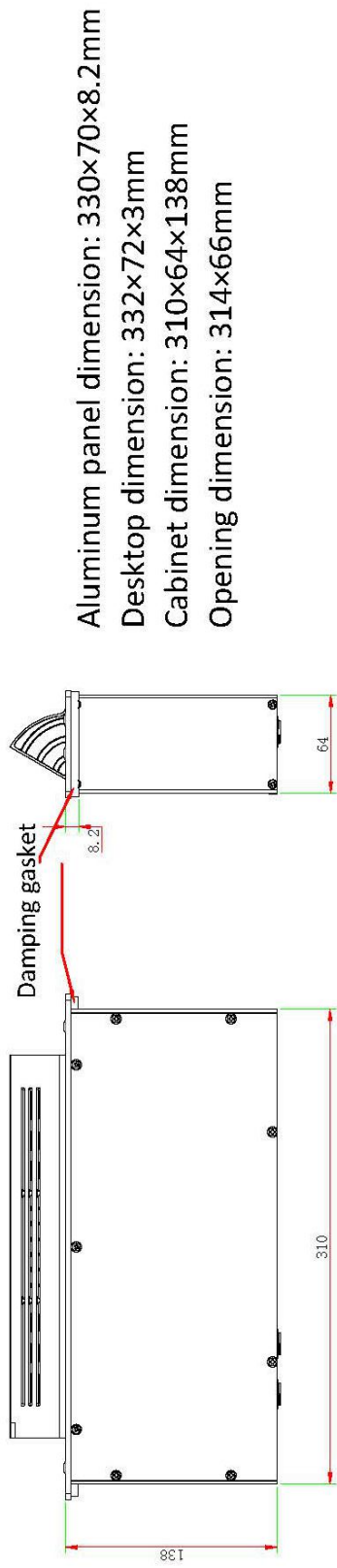
Unit 6-pin aviation connector pin function description

2.3 Technical Specifications

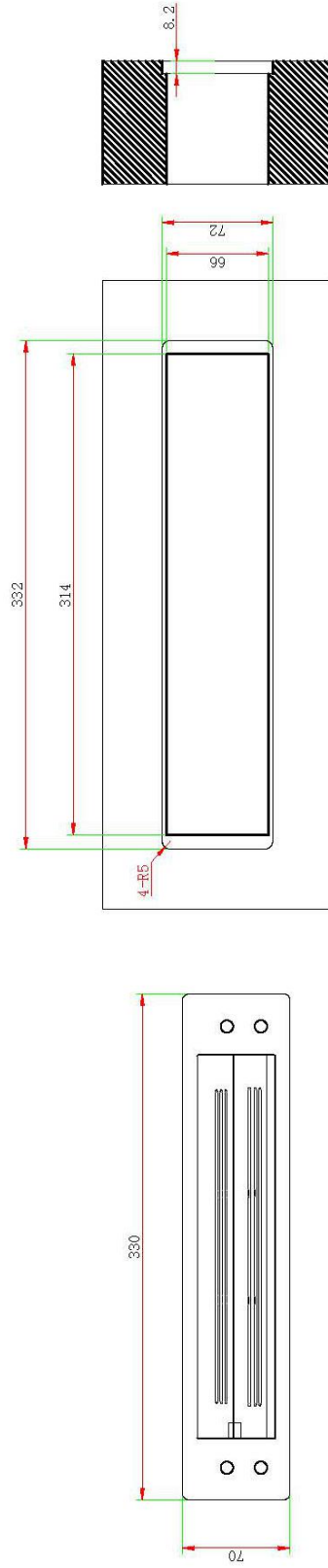| Model	TS-0214/TS-0214A
Microphone type	ECM array wired microphone (Electret condenser microphone)
Number of microphone cores	13
Frequency response	80Hz ~ 16kHz
Microphone input impedance	200Ω
Sensitivity	-30dB (0dB = 1V / pa, @ 1kHz)
SNR	> 80dB (A)
Dynamic range	> 80dB
Maximum SPL	112dB (THD≤0.5%, @ 1KHz)
THD	<0.1%
Directivity	Corridor type
Standard	IEC60914
Connector	Come with 1.8 meters aviation 6 core
Power supply	AC 220V-240V 50-60Hz
Power consumption	10W
Loop out power	AC 220V-240V 50-60Hz
Color	Silver
Check-in function	Button sign in
Weight	1.86Kg
Dimension(L×W×H)	330 × 70 × 138mm
Desktop opening dimension (through hole) (L×W)	314 × 66mm
Unit sinking dimension (L × W × D)	332 × 72 × 3mm
Installation method	Embedded

3. System connection diagram

4. Installation diagram

Aluminum panel dimension: 330×70×8.2mm
Desktop dimension: 332×72×3mm
Cabinet dimension: 310×64×138mm
Opening dimension: 314×66mm

Damping gasket

8.2

72

66

332

314

4-R5

64

8.2

310

138

330

70

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