



Digital Wi-Fi Conference System

User Manual

TS-W100
TS-W101/W101A

Before using this system, please read this manual carefully

Notification



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 I 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 above 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 : $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.

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.

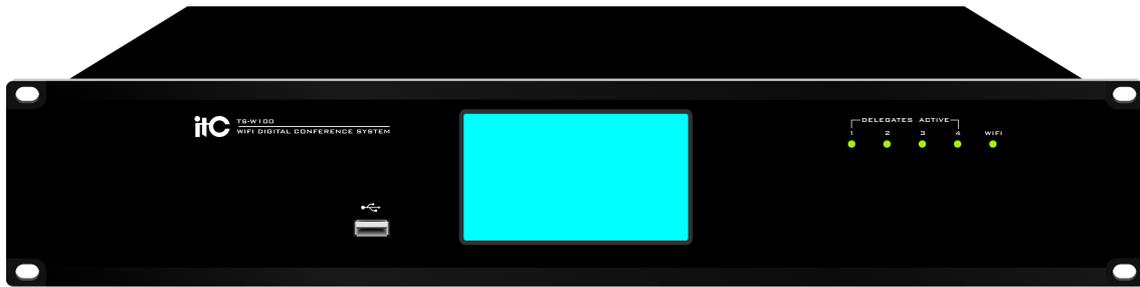
6. Remarks

When TS-W101/101A are not used in a long time, please take out of the machine and charge full of electricity to avoid battery damage if store more than six months.

CONTENTS

1. System profile.....	8
2. Product description.....	8
2.1 TS-W100 FULL DIGITAL WIFI CONFERENCE SYSTEM CONTROLLER.....	8
2.2 TS-W101/TS-W101A WIRELESS CONFERENCE CHAIRMAN UNIT/DELEGATE UNIT.....	12
3. System connection diagram.....	15
4. Instructions.....	16
4.1 TS-W100 FUNCTION OPERATING INSTRUCTIONS.....	16
4.1.1 Wired conference management.....	16
4.1.2 WIFI Conference Management.....	18
4.1.3 ID Setting.....	20
4.1.4 System Status.....	21
4.1.6 Recording.....	24
4.1.7 Camera control.....	24
4.1.8 Fire alarm.....	25
4.1.9 Other functions.....	25
4.2 TS-W101/W101A OPERATION INSTRUCTION.....	27
4.2.1 Boot and start.....	27
4.2.2 Delegate unit type.....	28
4.2.3 Conference Management.....	28
4.2.4 Sign in.....	29
4.2.5 Voting.....	30
4.2.6 Fire Alarm.....	32
4.2.7 Menu page.....	32
4.2.8 System settings.....	33
4.2.9 Language setting.....	33
4.2.10 System status interface.....	33
4.2.11 Volume adjustment.....	34
4.2.12 Screen brightness adjustment.....	34
4.2.13 Service application.....	34
4.2.14 Speaker headphone.....	35
4.2.15 Wireless AP offline detection.....	35

4.2.16 Controller offline detection.....	36
4.2.17 WIFI SSID and password modification.....	36
4.2.18 Repeat ID detection.....	36
4.2.19 Edit ID.....	37
4.2.20 Timing speech and speech timekeeping for delegate unit.....	37
4.2.21 Indicator for headphone input / battery charge input / battery state / WIFI Signal Strength...	38
4.2.22 Short message.....	38
4.2.23 Automatic power-off when out of power.....	39
4.2.24 Switch button.....	39
4.2.25 indicator for too low signal strength.....	39



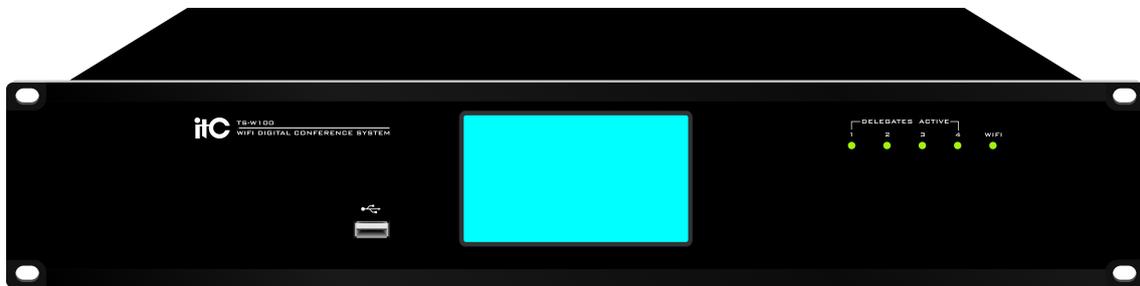
Full digital WIFI conference system

1. System profile

The TS-W10 series full digital WIFI conference system adopts ITC original independent intellectual property rights of network communication and digital transmission processing technology. This system applies digital technology and network technology, and perfect combination of WIFI and wired full digital technology to make a breakthrough on conference filed.

2. Product description

2.1 TS-W100 Full digital WIFI conference system controller

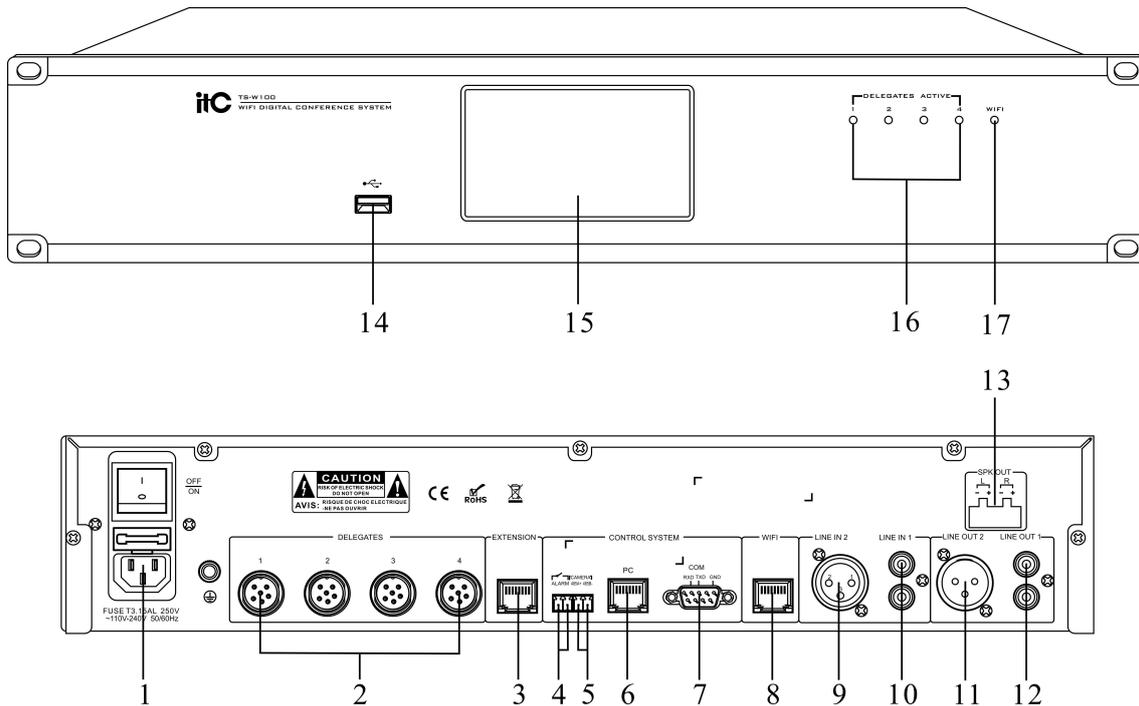


Feature:

1. Adopts 5GHz communication band; With stronger anti-interference capability; with greater bandwidth and transmission speed; No interference by mobile phone and other Bluetooth device to make sure the best receiving signal.
2. It adopts the 128 bit AES encryption technology, supports WPA/WPA2 wireless security technology to prevent eavesdropping and unauthorized access to provide a higher confidentiality of conference system.
3. Built in high-performance dual CPU processor, superior processing capabilities, support WiFi conference system and full digital wired conference system
4. With extra-large capacity, the system supports the maximum 4096 delegate units, and support up to 300 wireless conference units , the system can open maximum 8 microphones, and for wireless delegate unites, support to open maximum 6 microphones at the same time.

5. With original digital processing and transmission technology, 48K sampling rate and uncompressed audio transmission with 20 Hz~20 kHz. Adopts CAT5 shielding line to ensure the reliable transmission of long-distance information conference to ensure the perfect sound quality.
6. With WiFi network interface, connected to the POE network switch to expand wireless AP quantity, and to provide much wider WIFI coverage
7. With manual / automatic ID setting function, convenience for quick layout of conference.
8. Support interface switch of English and Chinese language.
9. PC software can view battery power status of the wireless unit, WiFi signal and other information.
10. One button to switch off all wireless units function.
11. Supports simultaneous interpretation function, supports 63+1 simultaneous interpretation with cable.
12. Built-in high performance DSP processor, stereo audio ADC and DAC supports the sampling rate of 8 kHz to 96 kHz and supports digital volume control, built-in 28/56 bit, 50 MIPS digital audio processor. All input and output audio volume can be adjusted. Supports equalizer, multi band compression, clipping and denoising processing algorithm, to provide better sound quality experience (It can control the audio parameters by PC software).
13. Support PC software uniform management system and fault analysis. Adopts TCP/IP network protocol to ensure the reliability and stability of the system, while supporting the system to separate from the PC software to work independently.
14. With fire alarm linkage trigger interface to provide fire alarm information, which remind the venue staff to evacuate ensure the safety of the participants at first time.
15. Support PELCO-D, VISCA camera control protocol, which can cooperate with high-definition camera tracking host, to achieve automatic camera tracking.
16. Four microphone management mode: FIFO/NORMAL/ VOICE (voice control) / APPLY.
17. Supports RCA, XLR audio input and output, and adopts the 3 pin XLR balanced audio line, to improve the anti-interference ability of the system.
18. Compatible with IEC 60914, GBT 15381-94 standard.
19. With recording function.
20. With 2x25w power amplifier.

Products Features:



1. The power switch and the power input socket, support AC 110V~240V input
2. DELEGATES 1~4— use to connect conference units
3. Connect with the expansion controller, can realize controller connect “hand in hand” in series
4. Short circuit trigger fire alarm interface
5. Camera 485/422 communication interface
6. LAN network interface
7. RS-232 serial port, connect the camera
8. Wireless communication interface
9. Line audio XLR balanced input
10. Line audio RCA unbalanced input
11. Line audio XLR balanced output
12. Line audio RCA unbalanced output
13. Amplifier output interface
14. Recording storage U disk interface
15. LCD screen, used to display the current working state
16. Wired conference unit communication indicator
17. Wireless device input indicator

Specification:

Model	TS-W100
Microphone Capacity	≤4096
Channel Quantity	64CH
Frequency Response	20Hz~ 20KHz
SNR	>85 dB(A)
Dynamic Range	>80 dB
THD	<0.05%
Power supply	90~132VAC/180~264VAC by switch
Audio Input	LINE IN 1: 350mV balanced LINE IN 2: 350mV unbalanced
Audio Output	LINE OUT 1: 1V balanced LINE OUT 2: 1V unbalanced
Output Load	>1KΩ
Static power consumption	35W
Output Power Consumption	250W
Connection method	Specified Cable (6 Core)
Connector Reliability	Reliable
Standard	IEC60914
Working temperature	-10℃~+45℃
Working humidity	20%~80% relative humidity, no condensation
Touch screen control	4.3 inch TFT touch screen
Color	Black
Weight	About3Kg
Dimension (L*W*H)	484 x 298 x 88mm
Installation method	19-inch standard cabinet
Recording	With recording function (support 2.0 U disk storage)
Amplifier (SPK OUT)	2x25W(4ΩBTL)

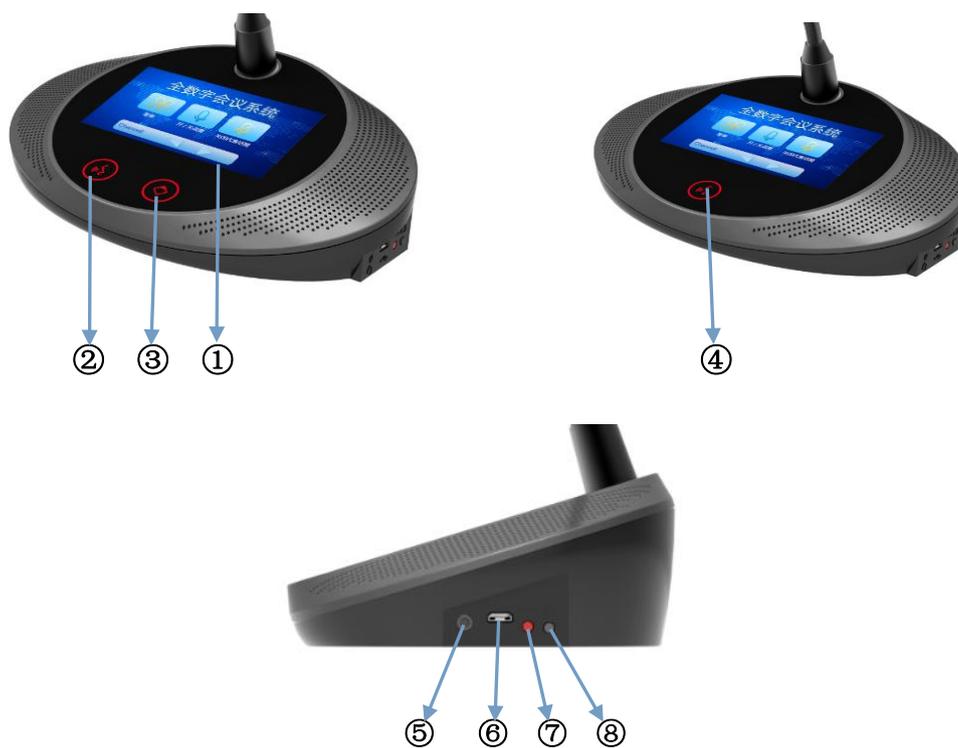
2.2 TS-W101/TS-W101A Wireless conference Chairman unit/Delegate unit



Features:

1. The microphone adopt 48KHZ sampling rate, higher than the CD sound quality, the voice is clear and bright. Internal DSP audio processing, there is no low frequency sound.
2. Support timekeeping of speech and timing of speech function.
3. Delegate unit has applied for speech function, the chairman unit can approve the applicant.
4. With the voice control function, which can adjust the voice sensitivity, intelligent turn on the microphone and set the closing time.
5. 5 section EQ regulating function(the input password of PC software is adjustable), different sound effects can be adjusted according to the characteristics of the speaker's voice, to achieve perfect effect.
6. Support voting, election, rating function. chairman unit can start voting, signing in, can do data statistics in case of PC disconnected.
7. With user-defined voting function, flexible and convenient
8. Adopt 128 bits AES encryption technology, support the WPA/WPA2 wireless security technology, prevent eavesdropping and unauthorized access, provide higher conference system confidentiality.
9. Use wireless transmission technology, only need a little time to arrange the venue, then can carry out the conference activities
10. The chairman unit has the priority function, can turn off the Microphone of delegate units during speech.
11. Built in feedback suppression function, can effectively prevent the squeal.
12. With 4.3-inch color screen, can display the microphone on / off, ID settings, electric quantity, signal strength and other information
13. With 3.5mm stereo headphone jack and built-in speaker, and have the volume adjustment function
14. Built-in 18650 lithium battery which is same with Panasonic, the battery capacity can support 12 hours of continuous speech or 18 hours of static standby.
15. Advanced power saving technology, can switch to power saving mode automatically
16. Support to upgrade the program via USB port and online charging.

Product Features:

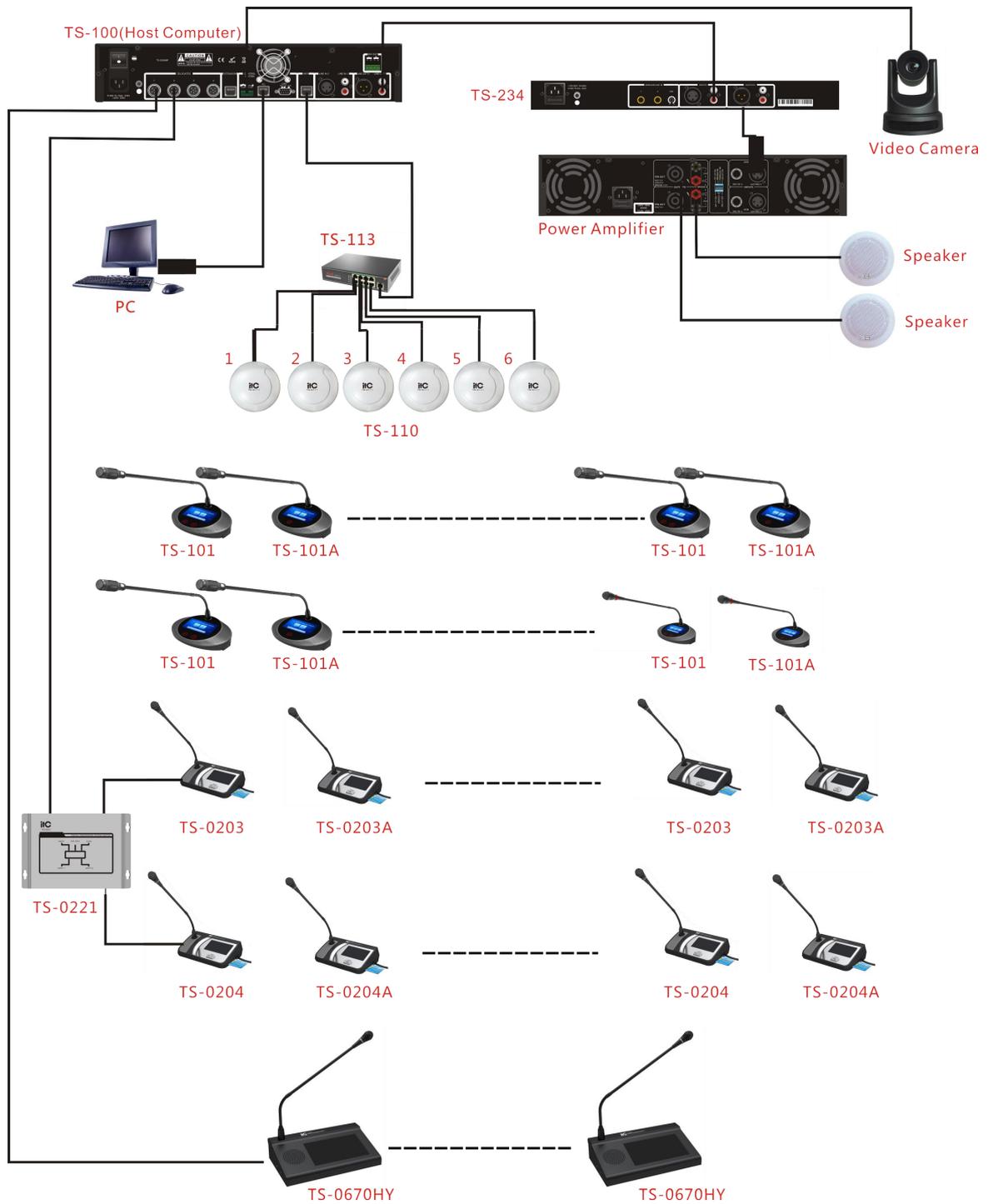


- ① 4.3 inch capacitive touch screen
- ② The Chairman unit microphone button (touch type)
- ③ The Chairman unit microphone priority button (touch type)
- ④ The delegate unit microphone button (touch type)
- ⑤ Headphone jack
- ⑥ USB interface
- ⑦ Charging indicator light
- ⑧ Power switch Button

Specification:

Mode	TS-W101/TS-W101A
Mic Type	Heart-oriented directional electret
Frequency Response	80Hz~16KHz
Microphone input impedance	1K Ω
Sensitivity	-46dBV/Pa
Maximum SPL	100dB(THD>3%)
SNR	>80dB(A)
Crosstalk	>70dB
Dynamic Range	>80dB
THD	<0.1%
Maximum power consumption	4 W
Headphone load	>16 Ω
Headphone volume	Max 40mW
Headphone interface	3.5mm Mono jacks
Standards	IEC60914
Power supply	Battery powered
Color	Gray
Voting function	Five-button election, three-button vote, a custom vote
Sign-in function	Press the key to sign in
Display screen	4.3 inch color screen
Size (length x width x height)	196x134x63(mm)
Installation method	Desktop style
Radio frequency range	5 GHz
Battery capacity	12900mAh
Weight	approximately 0.7Kg
Standby mode work duration	24hours
Speech mode work duration	15hours
Mixed mode working hours	14hours

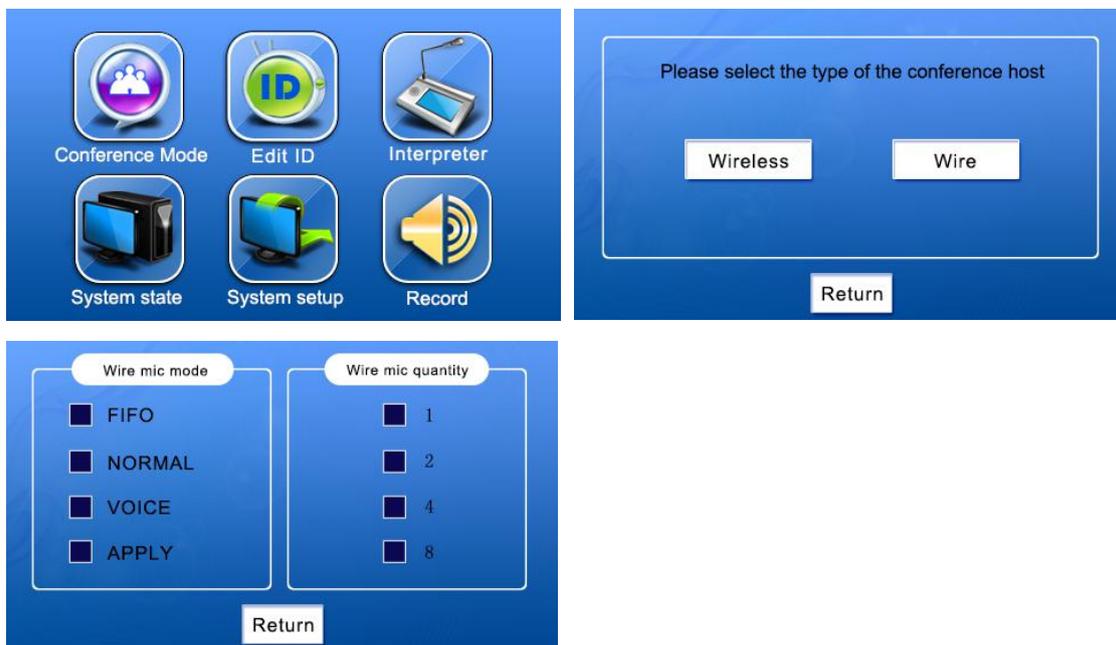
3. System connection diagram



4. Instructions

4.1 TS-W100 Function Operating Instructions

4.1.1 Wired conference management



Enter from the conference mode of main interface, then select the wired mode, can enter into the wired mic management mode. Total 4 Mic modes, can switch to choose one according to the requirements. The number of mic is the max number of mic currently allowed $N(N=1/2/4/8)$, can switch to choose one.

4.1.1.1 FIFO Model

①FIFO delegate units working management

First in first out: when the total number of working mic units is less than N , delegate units will be turned on directly; when the total number of working mic units is N and not all chairman units, delegate units will be first in first out working.

②FIFO chairman units working management

Preemption Mechanism: Chairman unit can seize the turn on right of delegate unit.(the total number of working mics is N and has delegate units, turn on the current chairman unit, the first opened delegate unit will be kicked out. Turn off the delegate unit and turn on the current chairman unit).

Tips for opened mics number is full. Chairman units has no FIFO mechanism, when the total number of working mic is N , and all are chairman units, turn on more chairman unit, the interface will display “mic number is full” .

Priority: press “priority” button of chairman unit, start the chairman priority function,then all delegate units will be turned off immediately. If this chairman unit is not turned on before, then this chairman unit will be turned on(if current working mic is full and all are chairman units, this chairman unit will not be turned on).

4.1.1.2 NORMAL Model

①NORMAL delegate units working management

Waiting mechanism: when number of working mic unit is N, turn on more delegate units will enter into waiting status, the max number of waiting will be N. delegate units which is waiting can be dropped out the waiting status if press “ON” again. When one unit is turned off, the first unit in waiting status will be turned on automatically.

②NORMAL chairman units working management

Preemption Mechanism: when number of working mic is N, turn on the Chairman unit can squeeze out the delegate unit.(turn off the first delegate unit, then turn on the current mic unit).

Tips for working mics number is full. Chairman units has no waiting mechanism, when the total number of working mic is full, and all are chairman units, turn on more chairman unit, the interface will display ”mic number is full”

Priority: press “priority” button of chairman unit, start the chairman priority function, then turn off all delegate units or stop waiting status . If this chairman unit is not turned on before, then this chairman unit will be turned on(if current working mic is full and all are chairman units, this chairman unit will not be turned on).

4.1.1.3 VOICE Model

①VOICE delegate units working management

Waiting mechanism: when number of delegate unit is N, turn on more delegate units will enter into waiting status, the max number of waiting will be N. delegate units which is waiting can be dropped out the waiting status if press “ON” again. When one unit is turned off, the first unit in waiting status will be turned on automatically.

②VOICE chairman units working management

Voice mechanism: chairman unit can automatically detect the current speech, speak to the chairman unit can automatically turn on its microphone.

Preemption Mechanism: when number of opened mic is N, open the Chairman unit can squeeze out the delegate unit.(close the first delegate unit, then open the current mic unit)

Tips for opened mics number is full. Chairman units has no waiting mechanism, when the total number of opened mic is full, and all are chairman units, open more chairman unit, the interface will display ”mic number is full”.

Priority: press “priority” button of chairman unit, start the chairman priority function, that means all delegate units opened status and waiting status will be invalid immediately. If this chairman unit is not opened before, then this chairman unit will be opened(if current opened mic is full and all are chairman units, this chairman unit will not be opened).

4.1.1.4 APPLY Model

①APPLY delegate units working management

APPLY Mechanism: press”ON” button of delegate unit, that means apply to open the mic from Chairman unit. The button “3” of chairman unit will twinkle, and display” delegate unit apply to speak”(Chairman unit press button”3” means agreed, then the mic units which applied to speak will be opened.) The total number of applied mic is N, if exceed N, will display “Mic Applied is Full”. Press “ON” button of delegate unit again when it is on applying status, can exit the applying status.

Automatic revocation mechanism: when the delegate enter into the applying status, if the chairman unit didn't agree after 15S, then applying will be autorollback and exit applying status.

②APPLY chairman units working management

Preemption Mechanism: when number of opened mic is not exceed N, open the Chairman unit can squeeze out the delegate unit.(close the first delegate unit, then open the current mic unit).

Tips for opened mics number is full. Chairman units has no apply mechanism, when the total number of opened mic is full, and all are chairman units, open more chairman unit, the interface will display "mic number is full".

Priority: press "priority" button of chairman unit, start the chairman priority function, that means all delegate units opened status and applying status will be invalid immediately. If this chairman unit is not opened before, then this chairman unit will be opened(if current opened mic is full and all are chairman units, this chairman unit will not be opened).

4.1.2 WIFI Conference Management



Enter the conference mode from main menu and then select wireless mode to enter the wireless microphone management model. There are total 4 selectable microphone modes. Mic quantity means the maximum allowable number of opened microphone N (N = 1/2/4/6) .Users can switch to select the quantity.

4.1.2.1 FIFO Model

①FIFO Delegate microphone open management

FIFO: When opened microphone quantity less than N, delegate units can open the microphone directly; when opened microphone quantity is N and not all of them are chairman units, delegate units use the mutual FIFO mode to open microphone.

②FIFO Chairman microphone open management

Preemption: chairman units can preempt the open microphone right of delegate units (when the opened microphone quantity reach N and there are delegates', the opened chairman unit would

squeeze out the first opened delegate and close its microphone.).

Opened microphone quantity cannot be added hint: chairman units have no FIFO mode, when the total quantity reaches N and all of them are chairman units, it would show “Opened microphones cannot be added”, if users open a new chairman unit.

Priority: press priority key on the chairman unit to open the chairman unit priority function, namely close all the microphone of the opened delegate units and open the microphone of chairman unit if it is not opened. (If the microphone opened quantity cannot be added and all are chairman units, then the microphone cannot be opened)

4.1.2.2 Normal Mode

①NORMAL Delegate microphone open management

Waiting mode: delegate microphone would enter waiting status if the opened microphone quantity reaches N, the Max waiting quantity is N. Press microphone key to exit the waiting state. When some delegate closed microphone, the first waiting unit would opened automatically.

②NORMAL Chairman microphone open management

Preemption: Chairman unit will squeeze out the delegate units when opened microphone quantity reaches N (close the first opened delegate microphone and open its own microphone).

Opened microphone quantity cannot be added hint: chairman units have no waiting mode, when the total quantity reaches N and all of them are chairman units, it would show “Opened microphones cannot be added”, if users open a new chairman unit.

Priority: press priority key on the chairman unit to open the chairman unit priority function, namely close the waiting status of all the opened delegate units and open the microphone of chairman unit if it is not opened. (If the microphone opened quantity cannot be added and all are chairman units, then the microphone cannot be opened).

4.1.2.3 Voice Control Mode

①VOICE Delegate microphone open management

Waiting mode: delegate microphone would enter waiting status if the opened microphone quantity reaches N, the Max waiting quantity is N. Press microphone key to exit the waiting state. When some delegate closed microphone, the first waiting unit would opened automatically.

②VOICE Chairman microphone open management

Voice control mode: Chairman microphone can automatic detect the current voice and open its microphone if users speak to the chairman unit.

Preemption: Chairman unit will squeeze out the delegate units when opened microphone quantity reaches N (close the first opened delegate microphone and open its own microphone).

Opened microphone quantity cannot be added hint: chairman units have no waiting mode, when the total quantity reaches N and all of them are chairman units, it would show “Opened microphones cannot be added”, if users open a new chairman unit.

Priority: press priority key on the chairman unit to open the chairman unit priority function, namely close the waiting status of all the opened delegate units and open the microphone of chairman unit if it is not opened. (If the microphone opened quantity cannot be added and all are chairman units, then the microphone cannot be opened).

4.1.2.4 Apply Mode

①APPLY Delegate microphone open management

Apply mode: Press delegate microphone key to apply opening its microphone, then the button 3 of chairman unit would flash and screen would show “delegate apply opening its microphone”. Press button 3 to “Agree” opening the delegate’s microphone. The max delegate number of applying quantity is N, If over N, it would show “the applying microphones cannot be added”. Press the delegate microphone key again to exit the applying state.

Automatically cancel mode: Delegate unit enter applying status of opening microphone, if the chairman unit doesn’t allow it to open the microphone within 15S, the delegate would cancel the application automatically and exit the applying status.

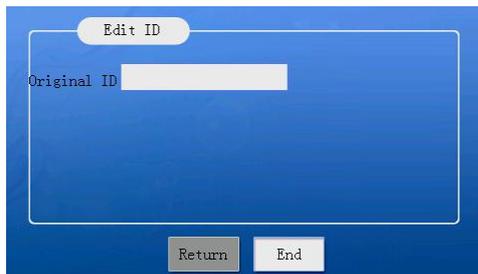
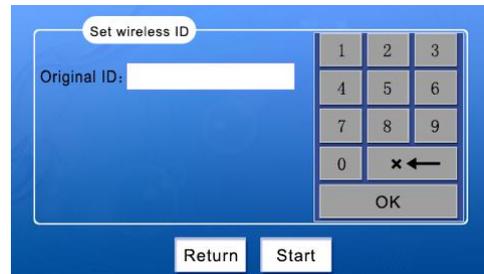
②APPLY Chairman microphone open management

Preemption: Chairman unit will squeeze out the delegate units when opened microphone quantity reaches N (close the first opened delegate microphone and open its own microphone).

Opened microphone quantity cannot be added hint: chairman units have no applying mode, when the total quantity reaches N and all of them are chairman units, it would show “Opened microphones cannot be added”, if users open a new chairman unit.

Priority: press priority key on the chairman unit to open the chairman unit priority function, namely close the applying status of all the opened delegate units and open the microphone of chairman unit if it is not opened. (If the microphone opened quantity cannot be added and all are chairman units, then the microphone cannot be opened).

4.1.3 ID Setting



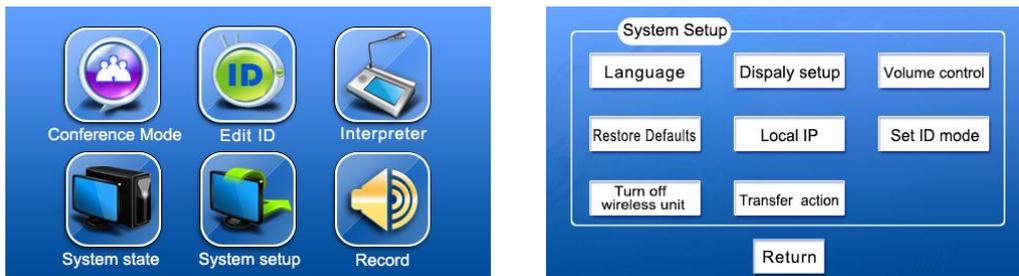
Click ID Setting in the main menu to enter into ID setting interface. If the first ID number needs to be changed, select the first ID box and change the first ID number by the number keypad (from 1 – 4096). When the first ID number is greater than 300, then the first ID number of WIFI units starts from 1, because the capacity of this system to hold WIFI units is max 300. Click “Ok” to save the changed number. Click “Start” to start ID setting. The operator can set the ID manually by press the “Power On” button (the microphones will display their IDs and the currently available IDs). After the operation, if the indicator turns red, then the operation is success (the current ID is set to be the ID of this unit). Click “End” to close the ID setting interface.

4.1.4 System Status



Click “System Status” in the main menu to enter into system status interface. The operator can check the quantity of online discussion units and their categories. If the current system has chairman units, delegate units and interpreter units, the operator can check the changing status by pulling out and plugging in the chairman and delegate units (the time of the controller to detect the plug-in and plug-out is 1 minute max in system idle status. If the status is not changed within 1 minute, please wait until it changes. Frequent plug-in and plug-out is strictly prohibited).

4.1.5 System Setting



Click “System Setting” in the main menu, there is 8 sub items in the system setting interface.

4.1.5.1 Language Selection



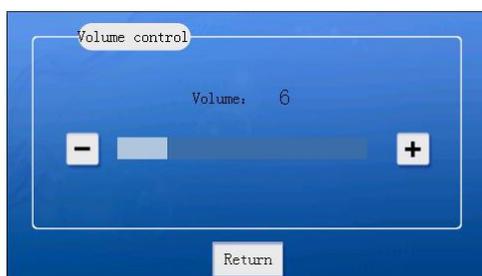
Check the corresponding options to select the language.

4.1.5.2 Display Setting



Click +/- to increase or decrease the brightness. And the operator can also adjust the brightness by sliding the slider by hand. The brightness value can be adjusted from 1 to 64.

4.1.5.3 Volume Adjustment



The connection way of hardware: connect the external audio source device into LINE IN 1/2 interface, and the audio is output to power amplifier and speakers via LINE OUT 1/2 interface.

Click “Volume Adjustment” in system setting interface to enter into volume adjustment interface. Click +/- to increase or decrease the volume. The volume value can be adjusted from 0 to 30. When adjusted to 0, the means mute the BGM.

4.1.5.4 Restore Default Parameters Setting



Click “Restore Default Parameters” interface, click “Yes” to conduct restoring default parameters. The default parameters including:

The meeting mode is FIFO, the max opened microphone number is 1;

The max sign-in number is 999;

The first ID number starts from 0001;

The default language is Chinese, and brightness is 64;

The initial master volume, treble and bass are all 0dB,

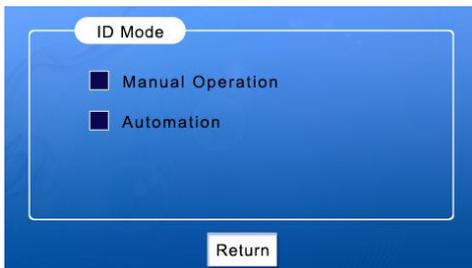
The IP address of the controller is 192.168.168.100, subnet mask is 255.255.255.0, gateway is 192.168.168.1, and number of ports is 50000.

4.1.5.5 Local IP Address



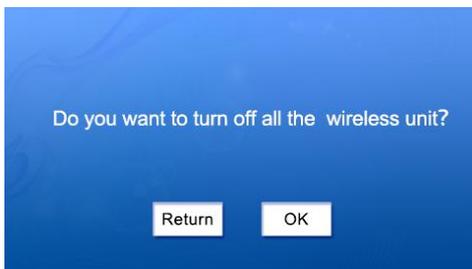
Click "Local IP Address" to check the local IP address, gateway, subnet mask and port number.

4.1.5.6 ID Setting Mode



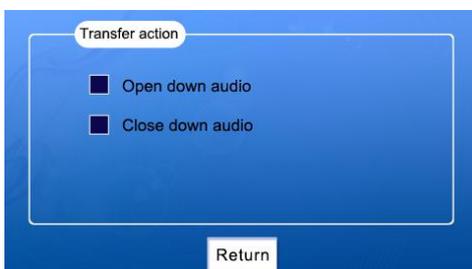
Click "ID Setting Mode" to choose the automatic and manual mode of wired units.

4.1.5.7 Turn Off the WIFI Units



Click "Turn Off the WIFI Units" and then click "Yes" to turn off all the WIFI units.

4.1.5.8 Download Function



Click "Download Function" to choose open or close downloading the audio files of the WIFI units.

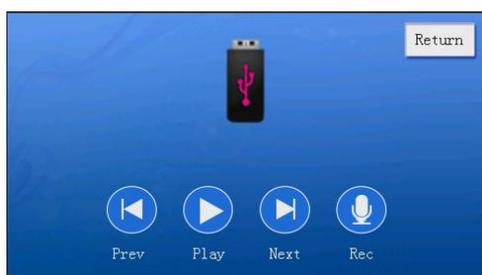
4.1.6 Recording



Click “Recording” in the main menu. Then the operator can play the BGM or record the mixing sound in LINE IN and MIC, if the USB was plugged in.



If no USB plugged in, the system will prompt “Please plug in the USB”.



If USB was plugged in, the interface will display the USB icon, You can play background music and recording.

4.1.7 Camera control

Conference host support VISCA / PELCD_D camera protocol, the user can directly connect a camera through 232/422 method, you can also connect the camera tracking host to multiple cameras, Need to use PC software to achieve the camera settings, currently only support to track the wired microphone.

4.1.7.1 Camera connection and configuration

①422 mode --- users can connect to the camera's 3,4 port directly by using CAMERA-422 interface which behind the host ,through the PC software prepare before the meeting->camera control page to operate VISCA / PELCD_D protocol camera, if finish setting the corresponding camera place, selecting and saving the preset position, then save all unit present position, Finally to select the panorama and save (must follow this order). After saving, the user can choose the preset position and see if it is correct. After finishing, check if the camera retreat mechanism is correct through to turn on/off the microphone.

②232 mode --- the user can connect the conference host CONTROL SYSTEM interface by Camera factory configuration 232 cable,then it can operate the camera same as the 422 mode.

③The CONTROL SYSTEM interface connect to the camera tracking host TS-0690 the CONTROL interface through the 232 cable, and then track the host CAMERA NET T / R +, T / R- two interface connected to the camera's 3.4 interface, then it can control VISCA / PELCD-D protocol camera like above.

4.1.7.2 Camera tracking instructions

①Upgrade: open the microphone, the camera automatically track to the latest open microphone position.

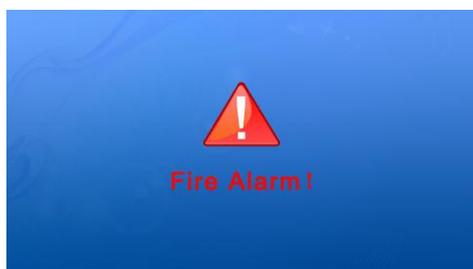
②Degraded: Turn off the microphone, the camera automatically back to the final open microphone position.

③Midway state changes: During using, there is a microphone halfway off, then the microphone position will be automatically cleared, upgrade and degrade mechanism remains the same.

④No microphone status: The camera will point to the panorama.

For example: there are 1,2,3,4 camera, when open the 1,2,3,4 microphone in turn, the camera followed by tracking 1, 2, 3, 4 microphone position, if turn off the No. 2 microphone, The camera does not change. If you turn off the No. 4 microphone, the camera points to the 3 position. Turn off the No. 3 microphone and the camera is pointing to position 1. Turn off the No. 1 microphone and the camera points to the panorama position.

4.1.8 Fire alarm



The conference host touch screen, unit screen, PC software(version 2) displays the prompts by shorting the two signal pins of the ALARM output behind the conference host (analog sending the fire alarm signal to the host). At this time, the conference unit not only has no change on display screen , but other features can still be used. When this interface signal pin detects the cancellation of the fire alarm (ie, open), it will automatically return to normal.

4.1.9 Other functions

4.1.9.1 Parameter Reset

Long press (built-in) button RESET behind the host for 2S or more to reset all the current parameters to the default.

4.1.9.2 Extension host

The EXTENSION port behind the host to connect the extension host, it can use its normal function when external connect TS-0205, cascading TS-0206.

4.1.9.3 COM port usage

COM port of Host rear panel connect to the TS-0698 camera tracking host.

4.1.9.4 485 interface usage

485 interface of host rear panel connect to a camera.

4.2 TS-W101/W101A Operation instruction

4.2.1 Boot and start

Turn on the host power to start the conference system, unit screen display "System Loading ...", start page as follows:



Turn on the system, the touch screen display LOGO interface, Turn on microphone,priority,service function are temporarily expire, and click the relevant button prompting"wait for network connection, please wait";because it still has not connected to the network,the upper right corner signal strength shows Gray, the connection time is 45S,you can operate before it connects successfully.Channel: It shows the current actual channel number,there is no use when you press button up and down in current version,only for channel 0, the correct LOGO interface as follows:





4.2.2 Delegate unit type

The chairman unit is with the microphone and the priority buttons, the touch screen built in many operations, such as turn on the microphone, turn off all delegate units, Chinese and English language switch, volume adjustment, brightness adjustment and so on.

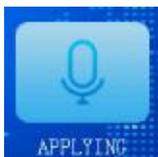
The delegate unit is with the microphone button only, but without the priority button, the touch screen built in many operations, such as turn on the microphone, Chinese and English language switch, volume adjustment, brightness adjustment and so on.

4.2.3 Conference Management

The delegate unit mic is controlled by the conference management, and its authority is configured by controller. Logic of operation can be referred to the instruction of controller. Press the MIC switch button to turn on, display as follows:



In the APPLY mode, when there is delegate unit apply to talk, it displays the following:



And the chairman unit display as follows:



When the number of applicants is full, it hints the delegate units are full.



In NOMAL mode, if the number of delegate units is full, it will enter into the waiting state, if the number of waiting delegates is full, it shows "microphone full".



Press the priority button for chairman unit to close all delegate units, and the chairman unit opens delegate unit as follows:



4.2.4 Sign in

When the chairman or PC software initiates the sign-in and the corresponding light is on, and displayed as follows. If the delegate still stays in the main interface, then it is prohibited to sign.



Press the sign in button on the screen or press the microphone button, to start sign in, after sign in the indicator is always on, and it display as follows:



4.2.5 Voting

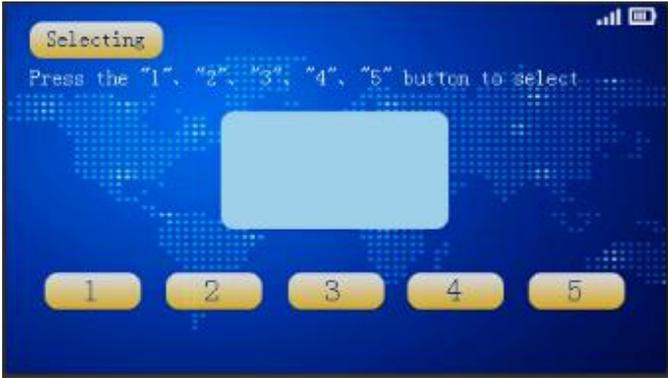
Wired chairman unit can initiate a fixed option of 3-button voting; PC software can initiate a fixed option of 3-button voting, 5- button election, 5- button rating, and user-defined options 2/3/4/5 button election. Shown as following, fixed option 3-button voting process.



Fixed option 3-button voting: press the corresponding button for voting.



The Bellowed is fixed option 5- button election process.



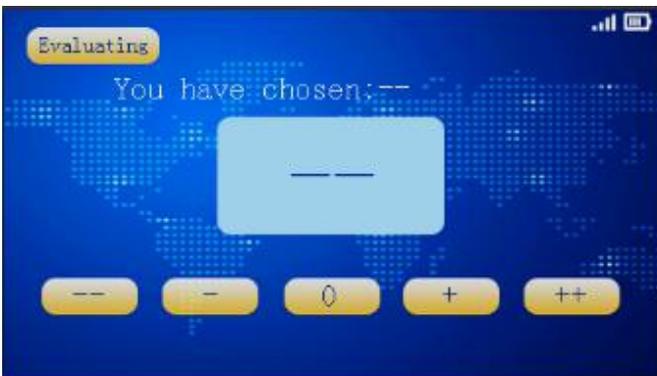
Fixed option 5- button election, press the corresponding button for election.



The Bellowed is fixed option 5- button rating process.



Fixed option 5- button rating, press the corresponding button for rating.



The bellowed is user-defined options 2/3/4/5 buttons election process.



The user-defined options 2/3/4/5 buttons election, press the corresponding button for election.



4.2.6 Fire Alarm

When the controller sends a fire alarm message, the unit screen will prompt "fire caution", the microphone red light will flash until the controller cancel the fire alarm, and the unit will recover to normal state before alarm. Fire alarm is with the highest priority and the key become invalid.



4.2.7 Menu page

Enter into menu page, as shown below, there are language setting, volume adjustment, brightness adjustment and service application.



4.2.8 System settings

Enter the system settings page, as shown below, there are language setting and system status query.



4.2.9 Language setting

Click the language setting button to enter the Chinese and English switch page, auto save up in case of power down, as follows:



4.2.10 System status interface

Click the system status button to enter and query the system status, as follows;

MAC address: Wifi MAC address

Network name: SSID of the wireless AP

ID : ID number assigned by the controller

Version No.: native software version number.



4.2.11 Volume adjustment

Click the volume button to enter the volume adjustment page; volume adjustment from level 0 to 16. 0 is muted, 16 is the maximum volume, auto saves up in case of power down.



4.2.12 Screen brightness adjustment

Click the brightness adjustment button and enter the menu to adjust the brightness of the machine, brightness adjustable range from 1 to 64, 64 is the maximum brightness, auto saves up in case of power down.

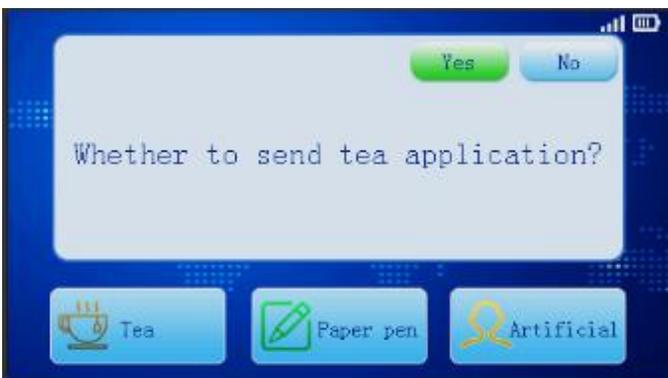


4.2.13 Service application

Participants can ask for "tea service", "paper and pen service ", "manual service ".Click the service button of the menu ,enter into ask for service page and select the option demand then send out.



After the application is selected, the software will prompt whether to send out, yes is to send, otherwise return.



After sending the application, there will be corresponding prompt on the PC side and the unit.



4.2.14 Speaker headphone

Insert and speak with the headset microphone, when the headphone is inserted, the microphone fail to work and the speaker will be muted, the sound output from the headphone instead. When without headphone, the sound output from the speaker.

4.2.15 Wireless AP offline detection

Turn off the wireless AP power supply for about 10 seconds, TS-W101 / W101A will pop up the following dialog box. If the wireless AP recovers to normal work, then it will return to the main page.



4.2.16 Controller offline detection

When network is disconnected or the controller power off for about 60 seconds, W101 / W101A will pop up the following dialog box. If the controller recovers to normal work, then it will return to the main page.



4.2.17 WIFI SSID and password modification

In the boot state, connect the wireless unit's USB port to PC, and then modify the software by SSID , after modification, the wireless unit will prompt the following page, then auto shut after 2 seconds.



4.2.18 Repeat ID detection

If the ID is same for different units, it will display as follows. Then need press the ID button, to reset ID .



4.2.19 Edit ID

After pressing buttons and it enter into ID editing mode, and when you press the setting button or press the microphone button, to start ID editing.



4.2.20 Timing speech and speech timekeeping for delegate unit

Timing speech and speech timekeeping for delegate unit is controlled or switched by the conference PC software, referring to the PC manual. When set the timing for speech from PC, the delegate unit will countdown to show the remaining time for speech, and automatically turn off once time is up.



In speech timing mode, the PC assigns the delegate unit for speech timing, and the corresponding

unit will display the speech time.



4.2.21 Indicator for headphone input / battery charge input / battery state / WIFI Signal Strength

WIFI signal strength, totally 4 cells white, gray is for no signal:



Battery state, 4 cells:



Battery charging input:



Headphone input:



4.2.22 Short message

This function needs to be controlled by the conference PC software to switch, please refer to the PC manual. Its function is PC can be a single / broadcast message to the unit display on the display, to remind the unit machine users, examples are as follows, fixed message display:

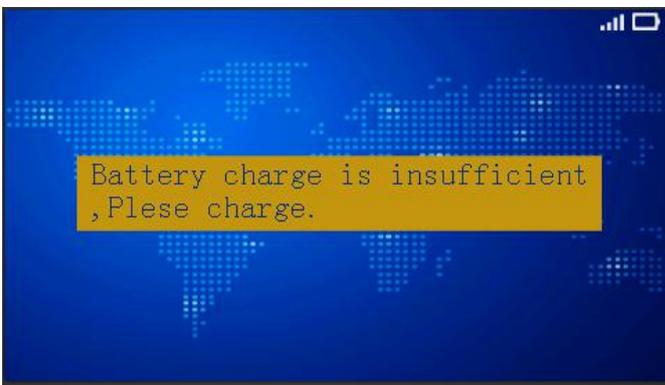


To display customized message.



4.2.23 Automatic power-off when out of power

When the power is too low, the wifi unit would prompt to charge as the following.



4.2.24 Switch button

In the shutdown state, short press the button, the system boot;
In the boot state, keep press button for 3s, the system shut down.

4.2.25 indicator for too low signal strength

When the signal strength is too low, and is still connected with the AP, then the bellow interface appears, meanwhile, the delegate unit fails to operate, and it need move close to the AP to ensure the signal becomes ≥ 1 grid to recover normal work..



Digital Wi-Fi Conference System

