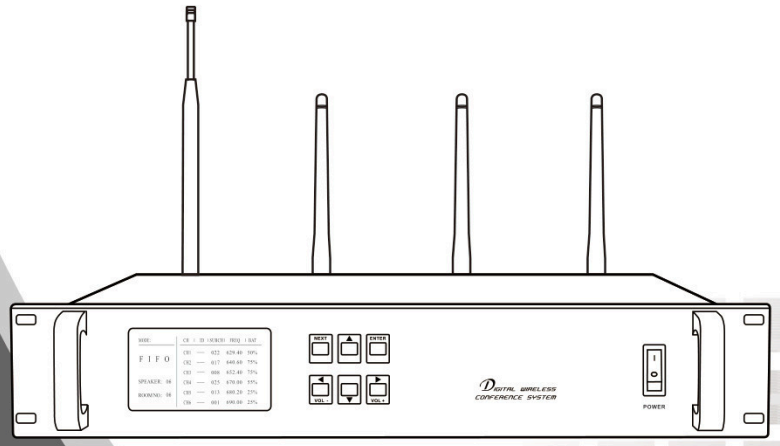
This operation manual would be revised at any time without prior notice.

This manual contains needed information as much as possible. If there is anything unclear, wrong or omitted, please don't hesitate to contact us for confirmation. The company is free from all the damage and loss caused by no confirmation.

For testing and maintenance, please contact us or our authorized distributors through the dealer from whom you purchased this product. The company assumes no responsibility for any loss or damage resulting from testing and maintaining this unit by unqualified personnel.

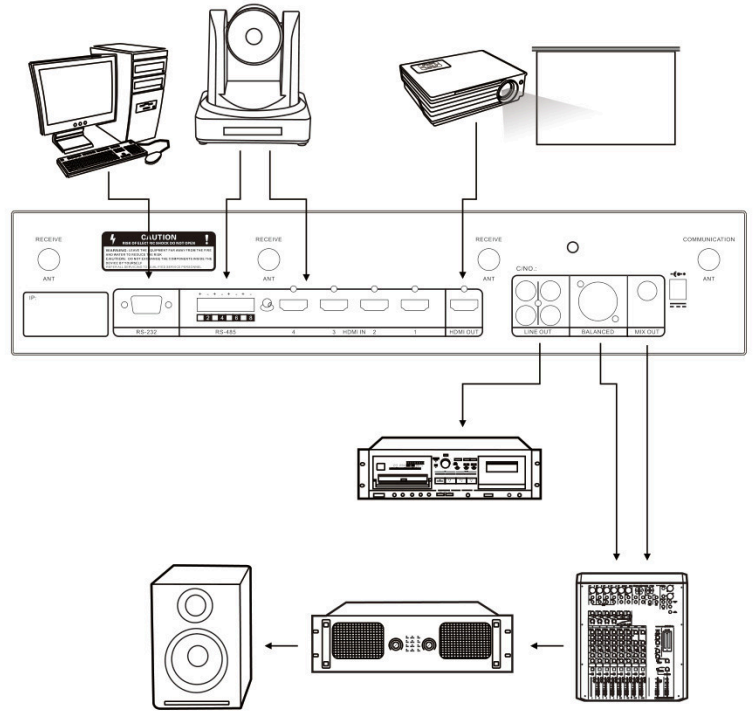
DIGITAL WIRELESS VIDEO CONFERENCE SYSTEM

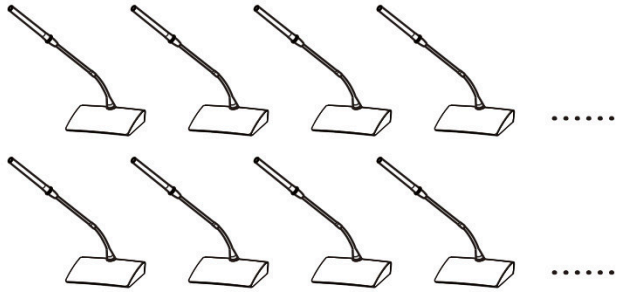
Operation Instructions





12.Connection instruction





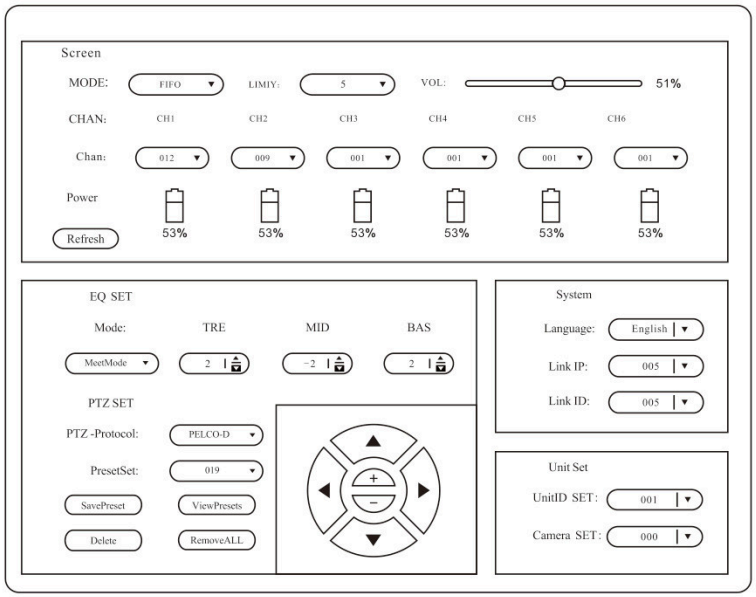
Attention:

1 metre above floor At least 1metre to wall Antenna vertical to the receiver

11.The computer graphic operation

- After connect the software U disk in the computer equipment, automatically enter into the setup interface (as figure 1), the user can according to their own request to set up each function.
- When each project Settings, the host and unit will be set simultaneously.
- Working power for each unit can be manually refresh.

Figure 1



Foreword

Thank you very much for choosing our company's digital wireless conference system. In order to make full use of the product, we highly suggest you read the instruction manual before usage.

This product is wireless intelligent with video-tracking function conference system. It adopts the wireless digital technology to process the audio signal and control signal. With scientific ID code design and no complicated cables, it can be used once the power supply is turned on. Within the signal coverage range, the units can be freely moved. Unique EQ function to get a more flexible sound quality to suit for much more different situation. There are several speech modes and video tracking function that is an important part in digital wireless video conference system.



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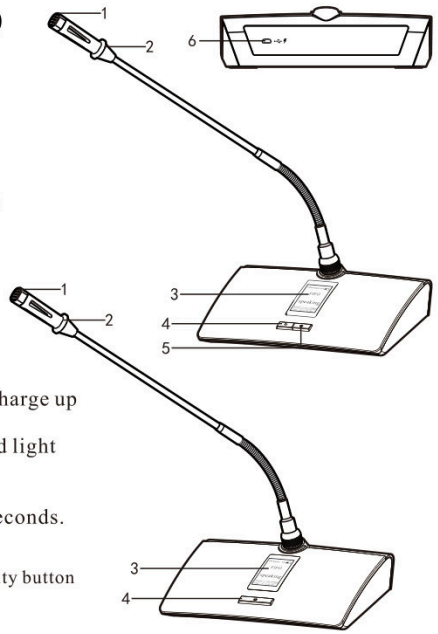
10.Solutions to breakdowns

Breakdowns	Causes	Solutions
The host is not energized	The utility is not energized	Check the utility
	External power supply fault	Check and change the external power supply
The host cannot receive signal	The unit is off	Turn on the unit
	The unit and the host communication IP or ID do not match	Look the manual Adjust the communication IP or ID
	The unit is too far away	Keep the unit in the valid range
The host can receive signal but without sound	The volume is at the minimum	Adjust the volume
	Improper connection of audio	Reconnect the audio connection
On and off sound	Too far away	Keep it near
Can not set option	Set option not confirmed	Press"enter" after set option
The unit can not working	In the setup state	Exit setup and return to main menu
Effective operating distance is short	Complicated environment	Avoid metal, wall, crowds, etc as they will weaken the signal
	The receiving antenna is not installed	Install the receiving antenna
Camera can't control after connection	Antenna installed wrong	Connect the right way again
	Host agreement unconformity with the camera agreement	Adjust the corresponding agreement
	Host ID unconformity with the camera ID	Adjust the corresponding ID address
camera can't use	Power of the camera haven't turn on	Turn on the power
	Preset point didn't saved	Adjust and saved the preset point
Video tracking stay in the last unit setting point can't back to the panoramic view when turn off all units	The panoramic view haven't saved	Saved the panoramic view

Care and maintenance

Before fixing or cleaning the device, cut off the electricity supply. Clean it with soft cloth.
For spots, clean it with cloth that has neutral cleaning solvent and dry it with another cloth.
Do not use gasoline, diluents or any other chemical product, or else the surface will be damaged.

9.Instruction for microphone unit (D)



9.1Brief instruction

1.High fidelity microphone head, condenser pickup, provides the top definition and directivity, light ring display working condition.
2.TFT screen display working condition.
3.Equipped with prior-button to control representative unit speeching, press the button can be mandatory to cut off the representative to speech.
4.Built-in 3.7V lithium, design national USB socket.

9.2Operation and function description

1.Connect the USB charge interface and the power to charge up the battery.
2.Touch the power switch for 1 second, TFT screen and light ring put on means the unit is on working.
3.TFT screen show the working condition.
4.Put off the unit when long press the power button 1 seconds.

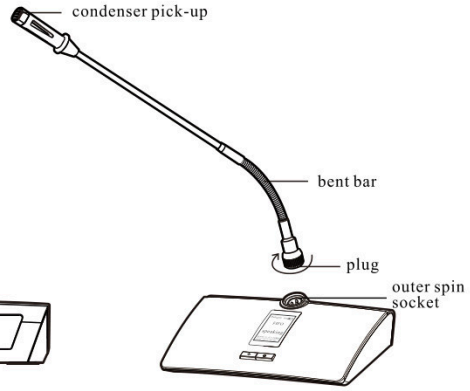
1.microphone head 2.light ring 3.TFT screen 4.priority button
5.power switch 6.USB charge interface

9.3Graphic operation

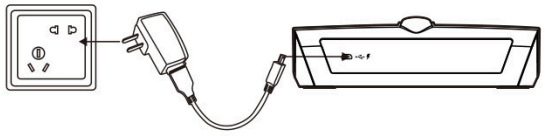
1.TFT screen graphic



2.Installation graphic



9.4 Charge battery graphic



CAUTION: PLEASE CHARGE UP THE BATTERY PER 3 MONTHS IF DO NOT USE FOR A LONG TIME. USE THE SAME TYPE BATTERY IF YOU WANT TO CHANGE THE BATTERY. IF NOT, IT WILL BE DANGEROUS.

1.Features

1)Without cumbersome wiring, this product adopts wireless digital technology to process the sound signal and control signal. Within the signal coverage, the units can be freely moved. One system support 255 units.

2) This product has automatic interference detection function. When an interference signal is found, it can allocate another frequency to avoid interference signal.

3) This product uses the wireless digital communication, multi-level error correction and encryption scrambling. Maximum to prevent string frequency interference and mobile phone electromagnetic interference.

4)This product has three meeting mode: FIFO mode, Limited speech mode and Chairman mode. Speaker can be chosen at the same time is 1-6 people (chairman 1-6 people, delegate 1-6 people).

5)This product has a real-time video tracking function, can support four-way video input.

6)This product can be independent or external computer software synchronous linkage operation, can realize the function of the host in the computer.

7)This product uses 4.3 inch TFT screen to display working content. Hierarchical design menu shows content such as working mode, users quantity, operating channel, unit power and so on.

8)This product has 3 section EQ function (High, Medium and Low), and a humanized sound-effect selection design which contains two default modes (meeting mode & lecture mode) and two custom mode. Adjust the settings of custom modes to get different required sound effect.

9))This product supports multiple sets of host machine independently used at the same time. Through the configuration of communication IP and communication ID of each set of host, it can achieve several meetings independently communicating at the same time.

10)This product uses intelligent power management system, when the host power is shut down, the unit will automatically shut down, save the consumption of batteries.

11)This product's conversation units have an automatic frequency tracking function, avoiding complex frequency operation.

2.Safety instructions

- Read this instruction manual.
- Keep this instruction manual for future reference.
- Follow all instructions in this instruction manual.
- Do not place this product in high humid, strong magnetism,strong light and high temperature environmental for use orstorage.Unplug the power supply if not use for a long time.
- Be aware of the supply voltage. Only the supply voltage listed on the instruction manual fits the product.
- Only use accessories specified by our company.
- Never open the device. If devices are opened by customers in breach of this instruction, the warranty becomes null and void. Turn to the professional mechanic or local dealer for help ifthere is something wrong with the product.
- If components are needed to replaced, replace them with original components produced by our company.
- Leave the devices the minimum space of 20 mm for proper Ventilation.

Do not cover the vent with newspapers, cloths, curtains, etc.

Do not place the devices near fire or water.

Only professional mechanic can assemble the devices if it is labeled with hazard warning sign "⚡".

Recycle the replaced battery.

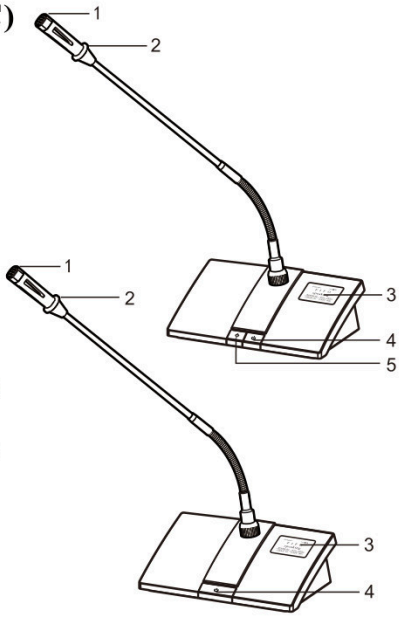
The devices can be used in tropical or temperate regions.

It is only for safe use in the area with an altitude of below 2,000 meters.



※ Adapter and circuit are working all the time as both receiver and transmitter have switch−noise− elimination circuits inside. So please unplug the power cord of receiver and take out the batteries of transmitter when they are not used.

8.Instruction for microphone unit (C)



8.1Chairman unit operation

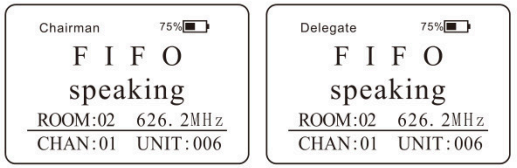
1. Install the bottom 3 pieces 1.5V AA batteries and install the gooseneck microphone (Figure 4),Attention that the battery install right the positive and negative electrode.(Figure 3)
2. Press the power switch, TFT screen and light ring shine that means the chairman unit in the normal working condition. (Figure 1)
3. When the control unit can connect with the chairman unit signal, press the speaking button, TFT screen display battery power, speaking mode, unit ID and so on real time working condition.(Figure 2)
4. Press 1 second can put off the working chairman unit.
5. Press the chairman priority key can shut all the working delegate units.

Attention: If no signal can be received, the unit will be off automatically after 300 seconds.

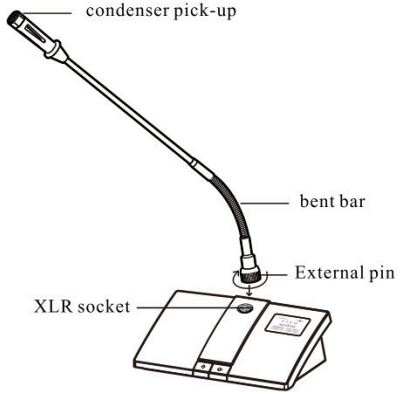
1.microphone head 2.light ring 3.TFT screen
4.power/speaking button 5.chairman unit priority key

8.2 Graphic operation

1.TFT screen graphic

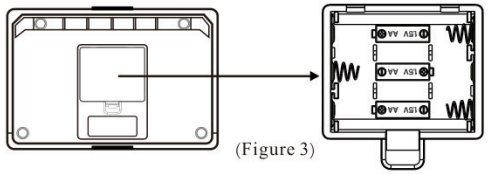


2.Installation graphic



(Figure 4)

8.3 Charge battery graphic



(Figure 3)

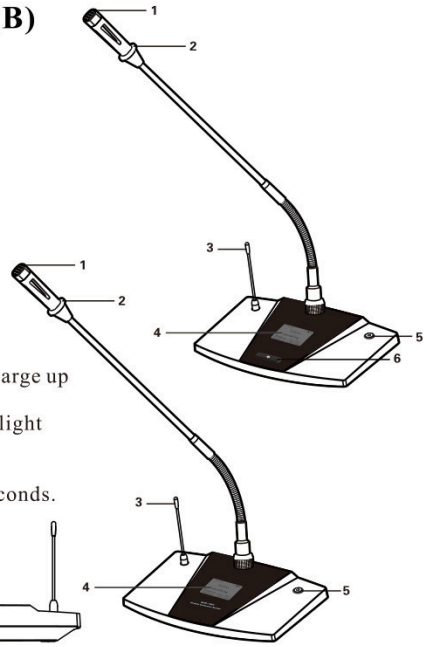
battery compartment (bottom)

CAUTION: BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES! IF THE DEVICE IS NOT GOING TO BE USED, PLEASE TAKE OUT THE BATTERIES.

7.Instruction for microphone unit (B)

7.1Brief instruction

1.High fidelity microphone head, condenser pickup, provides the top definition and directivity, light ring display working condition.
2.TFT screen display working condition.
3.Equipped with prior-button to control representative unit speeching, press the button can be mandatory to cut off the representative to speech.
4.Built-in 3.7V lithium, design national USB socket.



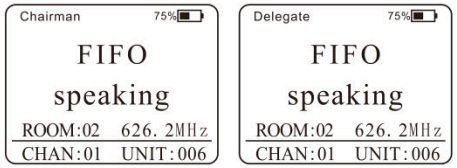
7.2 Operation and function description

1.Connect the USB charge interface and the power to charge up the battery.
2.Touch the power switch for 1 second, TFT screen and light ring put on means the unit is on working.
3.TFT screen show the working condition.
4.Put off the unit when long press the power button 1 seconds.

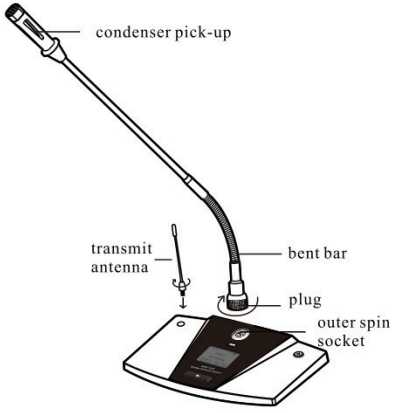
1.microphone head 2.light ring 3.transmit antenna
4.TFT screen 5.power switch 6.priority button
7.USB charge interface

7.3 Graphic operation

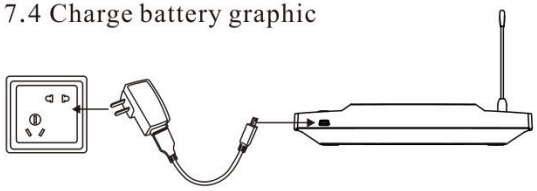
1.TFT screen graphic



2.Installation graphic



7.4 Charge battery graphic



CAUTION: PLEASE CHARGE UP THE BATTERY PER 3 MONTHS IF DO NOT USE FOR A LONG TIME. USE THE SAME TYPE BATTERY IF YOU WANT TO CHANGE THE BATTERY. IF NOT, IT WILL BE DANGEROUS.

3.Working environment requirement & Operating procedure

3.1Working environment requirement

■ Connect the receiver with antenna and adjust the antenna to vertical. Note that metal, wall, ceiling, human body will weaken the emitter's signal. For best effect, please follow the rules. The emitter should be placed as near the spot as possible. Keep the minimum distant of 1.5m with metal, wall, scaffold, ceiling, etc. Make sure the emitter and receiver are accessible straight forward.

3.2Operating procedure

■ Installation of antenna, connect the power supply, the host get in the energized state.
■ After turning on the host, the LCD screen will show the working parameters.
■ Connect the host's MTX OUT and MIC with audio connecting line. Adjust to reasonable volume.
■ Insert the batteries to Chairman unit & representative unit , turn on the power switch can be work.

3.3System's parameters

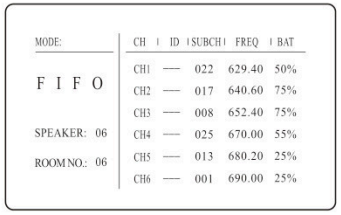
Power supply	:	DC12−17V
Frequency range	:	625.2−701.8MHZ
Sensitivity	:	−105dBm
S/N Ratio	:	>90dB
T.H.D	:	<0.05%dB
Max. deviation range	:	±10KHz
Working distance	:	⩾100meters
Channel	:	6*60
Power	:	6.5W

EIA standard box, suitable for desktop or rack mount
Meeting Mode: FIFO mode ,Limited speech mode and Chairman mode
Three kind of audio output terminals, can be connected with a recording or audio equipment.
4.3 inch TFT screen displays working state. There are 6 function keys for system setting and adjusting.

4.System function instruction

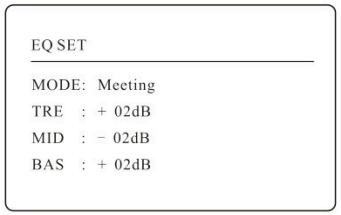
4.1Mode set up

- Press "ENTER" button, the screen open. Press left button "◄" or right button "►", can be moved to "Mode, Users, Channels" the options you want to choose. Press up button "▲" or down button "▼" to the required mode you need.
- Mode: " first- in first-out(FIFO)" , " Limited speech mode" and "Chairman mode"
- User: 01-06 people is available, when choose the "00"it means forbidding to speak
- Channel: There are 001-064 channels can be chosen for each unit.
- Select "---" means prohibit to use, this channel will be stop working. The display will show the number of speakers after using the prohibition of use function.
  Notice: Press "ENTER" twice to save and exit after each set up. If not save the set up, it wil l be back to the original set state.
  (4 seconds automated exit after confirmed)



4.2EQ set up

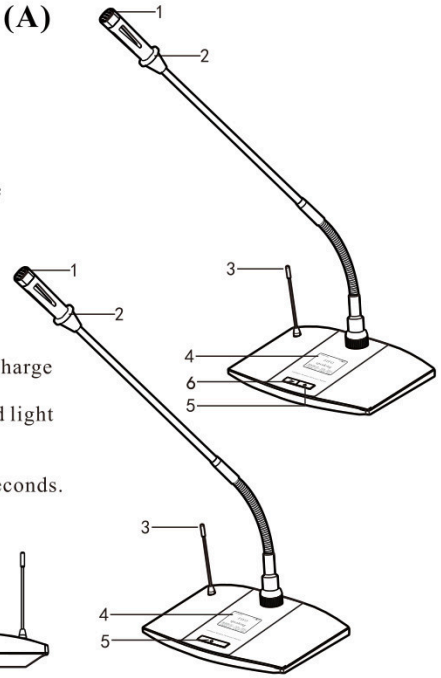
- Press " ENTER" into Balanced when in standby situation
  Press " ENTER", menu screen display, Press left button "◄" or right button "►", can be moved to " Mode, Alto, Tenor, Baritone" the options you want to choose. Press up button "▲" or down button "▼" to the required mode you need.
- Mode: " Speech, Meeting, User-defined mode " totally three mode to choose.
- " Speech" and " Meeting" is factory setting. " User-defined EQ mode" can be set by user.
- When choose " User-defined EQ mode", press left button "◄" or right button "►" to select High pitch, Alto or Bass. Then press UP button "▲" or DOWN button "▼" to adjust. Adjustable range "-14dB to +14dB", step by "2dB".
  Notice: Press "ENTER" twice to save and exit after each set up. If not save the set up, it will be back to the original set state.(4 seconds automated exit after confirmed)



6.Instruction for microphone unit (A)

6.1Brief instruction

1.High fidelity microphone head, condenser pickup, provides the top definition and directivity, light ring display working condition.
2.TFT screen display working condition.
3.Equipped with prior-button to control representative unit speeching, press the button can be mandatory to cut off the representative to speech.
4.Built-in 3.7V lithium, design national USB socket.



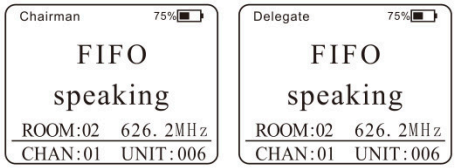
6.2Operation and function description

1.Connect the USB charge interface and the power to charge up the battery.
2.Touch the power switch for 1 second, TFT screen and light ring put on means the unit is on working.
3.TFT screen show the working condition.
4.Put off the unit when long press the power button 1seconds.

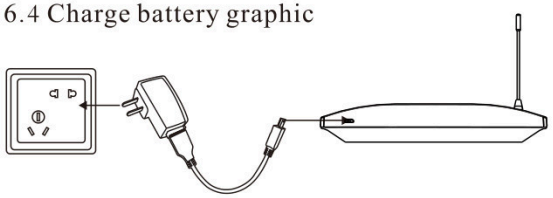
1.microphone head 2.light ring 3.transmit antenna
4.TFT screen 5.power switch 6.priority button
7.USB charge interface

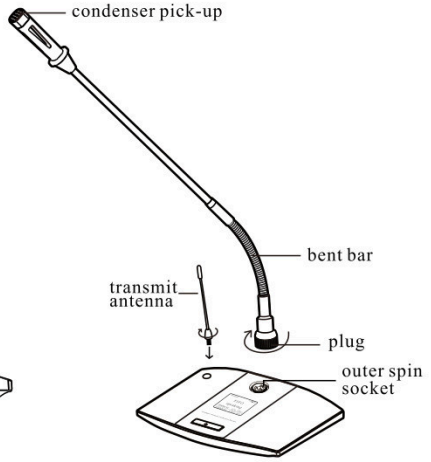
6.3Graphic operation

1.TFT screen graphic
2.Installation graphic



6.4 Charge battery graphic

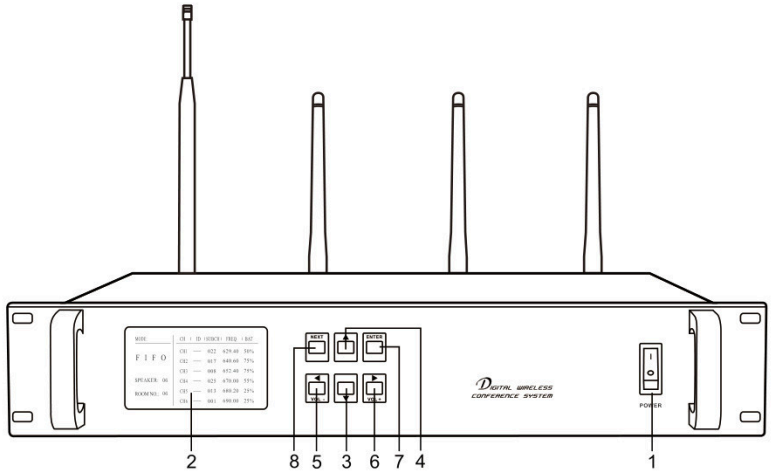




CAUTION: PLEASE CHARGE UP THE BATTERY PER 3 MONTHS IF DO NOT USE FOR A LONG TIME. USE THE SAME TYPE BATTERY IF YOU WANT TO CHANGE THE BATTERY. IF NOT, IT WILL BE DANGEROUS.

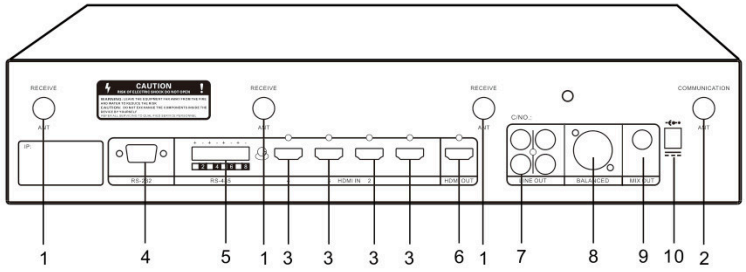
5.System operating instructions

5.1Front panel of digital wireless conference system



1.Power switch 2. TFT Screen 3.Down 4.Up 5.Left/volume down
6.Right/volume up 7.Enter 8.Menu/Next

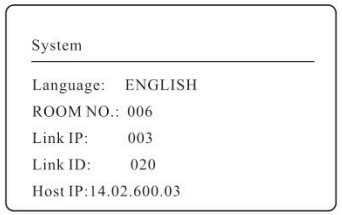
5.2Back panel of digital wireless conference system



1. Receiving antenna 2. Communication antenna 3. HDMI Video input
4. Computer connection 232 port 5. Video control 6. HDMI Video output
7. circuit signal output 8. Balanced output 9. Unbalanced output
10. DC socket

4.3System set up

- Press button “NEXT” enter into menu of system setting screen
- Press button “ENTER”, setting screen shining one time, display black background. Press left button “◄” or right button “►”, can be moved to “system language setting, communication IP, communication ID” the options you want to choose. Press up button “▲” or down button “▼” to the required mode you need.
- Communication IP: every controller have 8 communication IP, from 001-008
- Communication ID: every controller have 160 communication ID, from 001-160
- After setting the product communication IP and ID, press “ENTER” to confirm the setting, all Chairman and representative unit will receive a setting change, it means setting successfully when unit screen and controller screen show the same IP and ID content.
  Notice: chairman unit and delegate unit must in standby situation when change the communication IP and ID, in normal situation can not set the communication IP and ID.

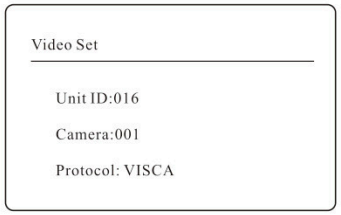


4.4Conference microphone set up

- Press the button “NEXT”, enter the meeting setting the interface.
- Press the confirmation key “ENTER”,then press to the left key “◄” or to the right key “►” can be choose in two options which are" set the meeting microphone ID” or “setting the camera ID ” Than press the up Key “▲” or down key “▼” can adjust the selected option to the required value.
- Conference microphone ID: each host can support 255 units connection, ID number can be set between "001-255".
- Camera ID: each host can support four cameras connection, ID number can be set between the "000-003".
  System default “000” for the panoramic view.

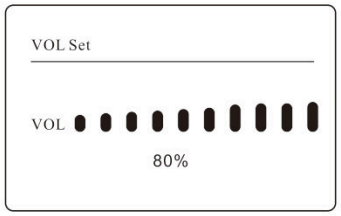
4.5Camera set up

■ Page button “NEXT”,choose the camera settings interface,then press the confirmation key “ENTER”, “camera agreement” display press the up or down keys again to choose desired agreement in the three agreements which is “PELCO – D”,“PELCO -P”, “VISCA”.Also can connect with cameras from different manufacturers.



4.6Master volume set up

■ Under any working state, can adjust the host output volume, simply press to the left key “◄”or to the right key“►” to realize settingAdjust to the left key“◄” means turn down the volume, adjust to the right key“►” means turn up the volume. The hose will automatically save the result and back to the main interface don't need to press “ENTER” key.



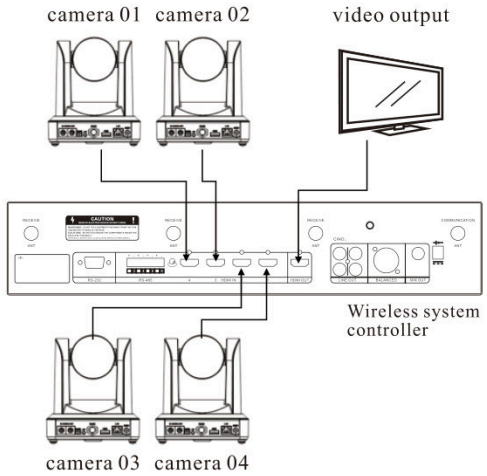
4.7 Pelco-P/D protocal and VISCA protocal

1. Set all the required camera ball individual address code, according to (connection Figure 1) connect host, camera and display correctly.
2. Then in the host interface or use camera remote control to adjust the distributed microphone unit location and visual effect, use the remote control press corresponding "preset numbers" and then press "save" button to save the setting.

(Connection diagram 1)

Camera address ID distribution type: manually
Multiple camera using operation chart:

Protocol	PELCO−P	PELCO−D	VISCA
Camera no	0 1 2 3	0 1 2 3	0 1 2 3
Address no	1 2 3 4	0 1 2 3	1 2 3 4



Controller RS485 and HD RS485 connection enlarge diagram:

