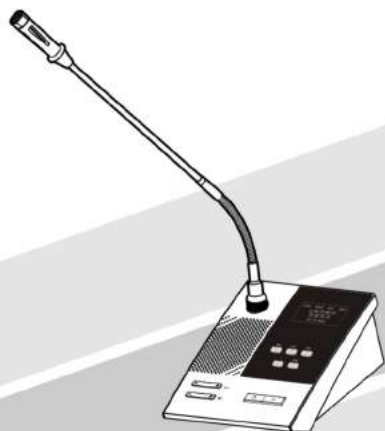


DIGITAL WIRED **VOTING/VIDEO-TRACKING**
CONFERENCE CONTROL SYSTEM

Operation
Instructions



Foreword

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

This series of professional wired conference system adopt touch key and LCD screen in front of the panel to control and show working status, six working mode can be chosen, break through traditional dial code control, more intuitive and humanization. This series product use hand in hand way to connect, easy installation and get stable performance.

This product connection easily, add number freely, can connect expander machine to extend more and more units.

Suitable for variety of meeting occasion.



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1. Features

1. Latest digital line designed, data transmission stability, good anti-interference, high quality sound, suitable for every conference place.
2. Adopt use high shielding performance cable, increase the ability of anti-interference.
3. The control unit has four roads output, 4 roads can contact with 60 units at the same time, each road can contact to 20 units, also can be connected to expand machine to expanding more than 60 units at the same time.
4. This product can realize real-time video-tracking function, support four-way video signal input, 2 way video-signal output.
5. This series product supply PC software which can connect with the computer to realize the controller setting function synchronized.
6. The product built-in telephone coupler input and output interface, through communication principle to equip voice signal input and output in order to control the remote teleconference, support telephone dial-out and pick up. Realize teleconference.
7. The product use 240×128 large LCD pixel to display setting contents, hierarchical menu designed which make operation clear and humanized.
8. The product have 7 conference mode: FIFO, LIMITED mode, free discussion mode, chairman only, LIFO, Vies to answer first mode, apply mode 1-6 people or the whole unit can speak at the same time (Chairman unit don't count inside).
9. The product back panel equipped with feedback button, put on the button can prevent the noise, enlarge the volume, increase the sound pick-up distance, high fidelity, suitable for different occasions.
10. The product have USB recording function, which can record the whole speech content easily.
11. There are XLR plug, 6.3 plug and RCA three kinds output plug, adjust to connect with many other kinds of audio equipment.
12. This series products have automatic mute and scale eliminating circuit, and eliminate the impact of the switch machine, avoid the shock and noise affect the atmosphere even damage amplification equipment and speakers.

2. Safety instructions

- Read this instruction manual.
- Keep this instruction manual for future reference.
- Follow all instructions in this instruction manual.
- Do not place the product near any heat sources such as radiators, stoves, or other devices that product heat. If you are not going to use the product for a long time, pull out the battery. Do not throw or drop the product in case it causes severe damages.
- 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 take apart the device. If devices are took apart by customers in breach of this instruction, the warranty becomes null and void. Turn to the professional mechanic or local dealer for help if there 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 30 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.
Only for safe use in the area with an altitude of below 2,000 meters.



3. System control unit operation instruction

3.1 System control unit operation

1. Connect the units with unit cables. Connect the first units with the controller unit with the controller cable.
2. Connect the power cable with the controller unit, put on the power button. Controller will come out a sound of "di" the microphone gooseneck ring will twinkle several times continuously for checking the whole system. LCD screen show real-time working data.
3. Press "ENTER" key in the menu setting. Press up button "▲" or down button "▼" to setting the necessary mode and setting. Press "ESC" exit.

1) Conference speak mode

- ①FIFO mode: first in first out, can choose 1-6 people speak at the same time. This mode means after reaching limit number, finally open unit will cover the first open unit.(example: set the number to 3, there is unit A, unit B, unit C, unit D, A is the first open, when the fourth one D open, then the first unit A will shut down automatically quit).
- ②LIMIT mode: can choose speak number from 1-6, means the number of units open at the same time can be set to 1-6 numbers(excluded chairman unit).
- ③FREE mode: default on "N" key light, means the number of speak units at the same time without limit.
- ④CHAIRMAN mode: speak number will default "N" key on, means only allowed chairman microphone to speak.
- ⑤LIFO mode: Last in first out, can choose speak number with 1-6 number, means after reaching limit number, finally open unit cover the unit open in front of the final unit.(example: set the number to 3, there is unit A, unit B, unit C, unit D, when the finally D open then the third unit C will shut down automatically quit)
- ⑥Vies to answer first mode: default on "1" people to speak, means only 1 unit can speak.
- ⑦Apply for speech mode: all delegate unit can be speak after be allowed by chairman unit, delegate unit number can be setting from 1-6, this mode just support for some units which have apply for speech mode.

2) Speaker number: 1-6 people or N people, N means all can speech.7 speech number mode to choose.

3) Input volume: press "VOL+" key increase volume.

4) Output volume: press "VOL-" key reduce volume.

5) Teleconference: can use to be open remote teleconference, there are open and close to choose

6) Unit setting

①Unit allocation

Camera NO.: One controller can support 4 cameras, use left key "◀" or right key "▶" can setting

camera number "000-003"

Preset point: One controller support 255 units preset point.

※ When enter in the unit allocation interface, all the units which connected with host unit, lamp ring and button indicator light will flash. By default under the condition of the same camera (for example 000), set the camera number in the host, preset point is the default initial values "00 1",press the first setting unit's speech key, then the lamp right and speech indicator light off means the setting is completed the first unit allocation. At this time, host LCD screen display value NO. "002",press the second units speech button to complete the allocation setting for the second units. Others unit use the same setting method. If you want to set up other camera, change the camera values in the host is ok.

②Unit reset: this can clear all the distributed unit data.

7) Camera setting

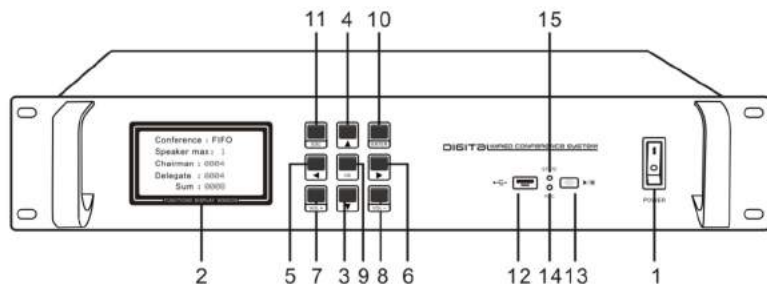
①Video adjustment: adjust the default point(preset point) location and visual effect.

②Communication protocol : "PELCO-D"、"PELCO-P"、"VISCA" for choose.

③Camera reset: this can clear all the allocated camera preset points data.

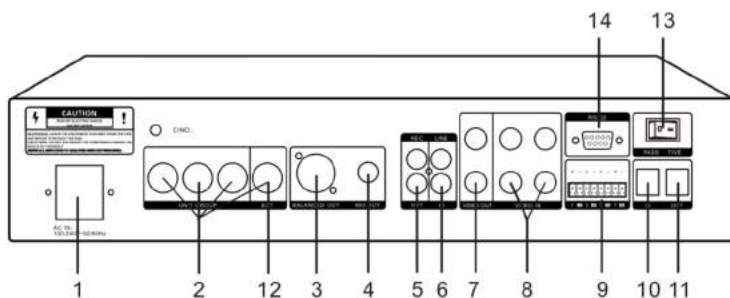
4. USB recording function when put on the power, USB power director bright long. When insert the USB flask disk, USB working status director light bright, press recoding/pause button to start recording the meeting conference content, at this time, red indicator light will be flashing. When press button again means pause recording, at this time, red indicator light will stop flashing.

3.2 System control unit front panel



- | | | |
|-----------------------|-----------------------------|---------------------|
| 1. Power switch | 2. LCD screen | 3. up key |
| 4. down key | 5. left key | 6. right key |
| 7. increase volume | 8. reduce volume | 9. OK |
| 10. menu | 11. exit/return | 12. USB disk port |
| 13. Record on/off key | 14. USB recording indicator | 15. USB power light |

3.3 System control unit back panel



- | | | |
|--------------------------------|-----------------------------------|------------------------------|
| 1. AC power socket | 2. unit microphone connect | 3. balanced audio output |
| 4. 6.3 unbalanced audio output | 5. RCA output | 6. RCA input |
| 7. video output | 8. video input | 9. camera control RS485 port |
| 10. telephone coupler input | 11. telephone coupler output | |
| 12. extender interface | 13. prevent noise function button | |
| 14. PC RS232 port | | |

3.4 LCD screen function diagram



figure 1: Menu Set

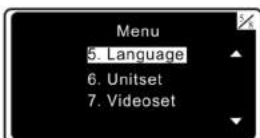


figure2: Speech mode set

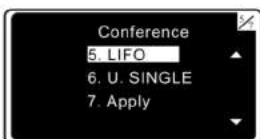


figure3: FIFO mode

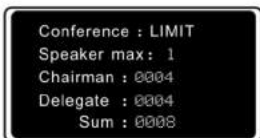


figure4: Limited speak



figure5: Free mode

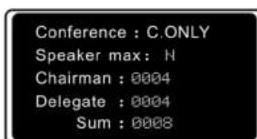


figure6: Chairman special mode



figure7: LIFO mode

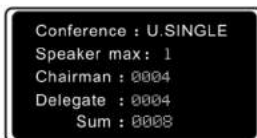


figure8: Vies to answer mode

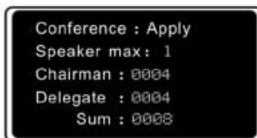


figure9: Apply for speech mode

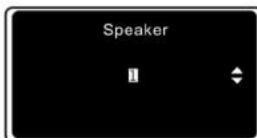


figure10: Speaker NO. set

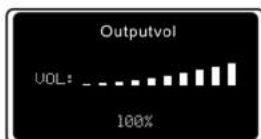


figure11: Output volume set

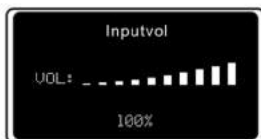


figure12: Input volume set



figure13: Teleconference set

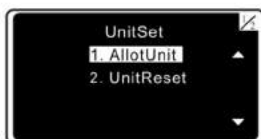


figure14: unit setting

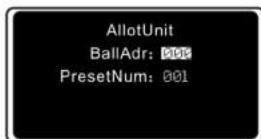


figure15: unit allocation

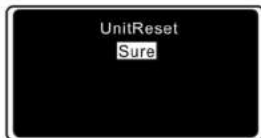


figure16: unit reset



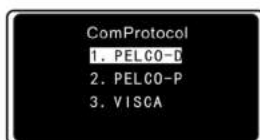
figure17: camera setting



figure18: video adjustment



figure19: video adjustment

figure20: communication
protocolfigure21: communication
protocol confirmation

4. Instruction for chairman unit/delegate unit

4.1 Functions and operation

1. Connect the microphone base with the gooseneck microphone, connect the cable between microphone and microphone with control unit.
2. Turn on the Chairman unit speech switch, light ring lights, the unit can working normally.
3. Press chairman priority key can shut down all the delegate unit in the meeting.
4. Press the speech switch one time to turn off the microphone.
5. Equiped with headphone output, volume adjust knob.
6. Five voting key.

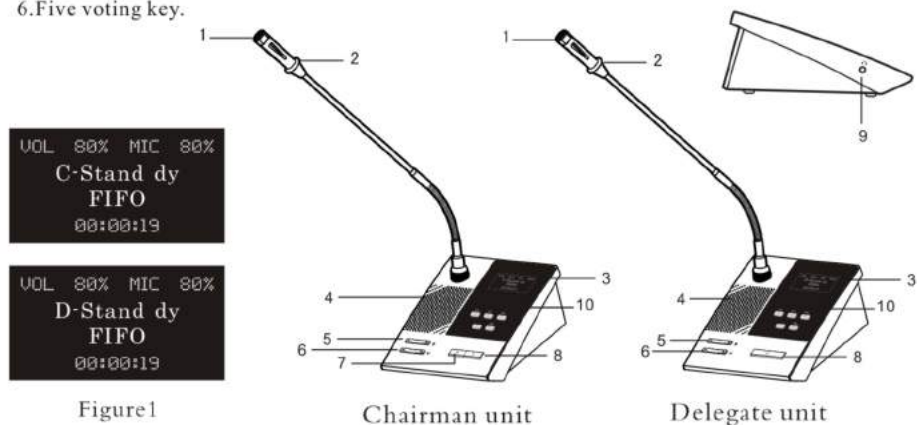


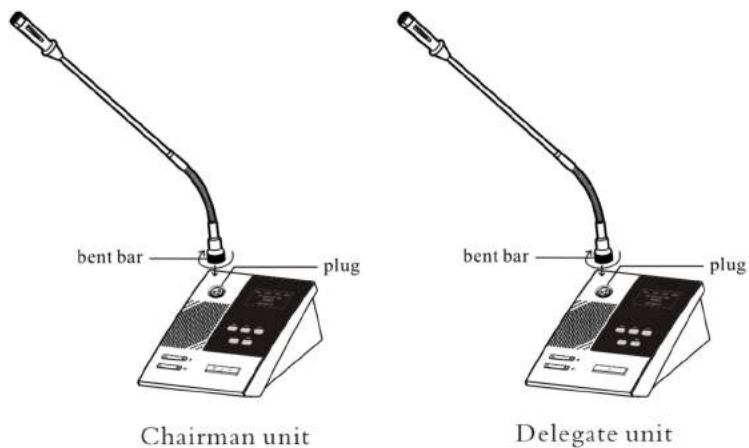
Figure 1

Chairman unit

Delegate unit

- | | | | |
|-------------------------|------------------------------|-----------------|----------------|
| 1. Microphone head | 2. Light ring | 3. LCD screen | 4. Loudspeaker |
| 5. Mic input volume key | 6. Speaker output volume key | 7. Priority key | |
| 8. Speak switch | 9. Audio output port | 10. voting key | |

4.2 Installation diagram



Chairman unit

Delegate unit

5. Product parameters

5.1 System control unit parameter

Power supply	: AC 100-240V~50/60Hz
Output impedance	: RAC:200ΩLINE:200Ω BALANCE: 300Ω UNBALANCE: 400Ω
Input impedance	: LINE:50KΩ PBIN:50KΩ
S/N ratio	: 100dB (1KHz THD1%)
Size for case	: 480×360×85mm
Accessory	: 10m 8P shielded cable

5.2 Chairman unit/Delegate unit parameter

Type	: capacitance
Polar pattern	: one direction,cardioid
Frequency response	: 30Hz-18KHz
Sensitivity	: -43±2dB@1KHz
Input voltage	: DC 9V(powered by host)
Min input impedance	: 1KΩ
S /N Ratio	: >68dB
Pick-up distance	: 30cm
Output connector	: 8P terminal
Input and output wire	: 2.1M 8P shielded line
Mic length	: 440mm
Size	: 125×165×65mm
Weight	: 0.8kg
Operation temperature	: -20℃-70℃

6.PC operation diagram

1.Software installation

After insert the software U disk in computer, open the folder “SETUP” installer and complete the installation. Then open software “PC”, display the sign in interface, enter the software with the password.



2. Regular setting before using the system

2.1 Function settings

2.1.1 System settings

To select the speak mode and the number of speakers on the interface, can set “Allow to speak when in voting” or “Not allow to speak when in voting”; Can open/off teleconference function, press enter key save it; use the mouse can adjust the volume for the input and output volume. All settings content are synchronized with the display content on the controller display.



2.1.2 Other settings

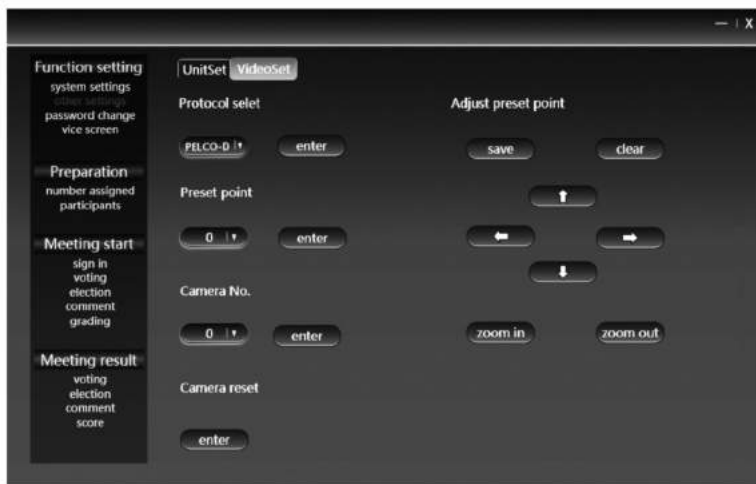
2.1.2.1 Unit microphone setting

On the interface of the software can allot the preset point of demanded unit microphone choose the required ball machine. There is restoration function to eliminate the setting unit microphone data. (All operations need to press enter key to save settings)



2.1.2.2 Camera setting

Can choose required camera protocol in the software interface. On the software interface also can adjust the video-tracking position for different ID camera and different preset ID unit microphone. (All operations need to press enter key to save settings)



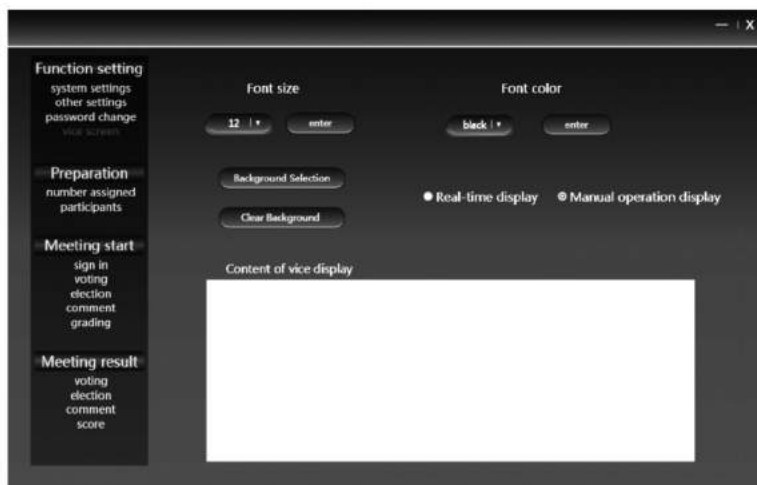
2.1.3 Modify password

Create new software login account and password



2.1.4 Vice screen setting

Can set the vice screen font size, color or add display content. Also can select background picture or clear background (picture format is JPG). It can be set content “real-time display” or “ manual operation display”. (It is allowed to set after close the vice screen initial interface.)

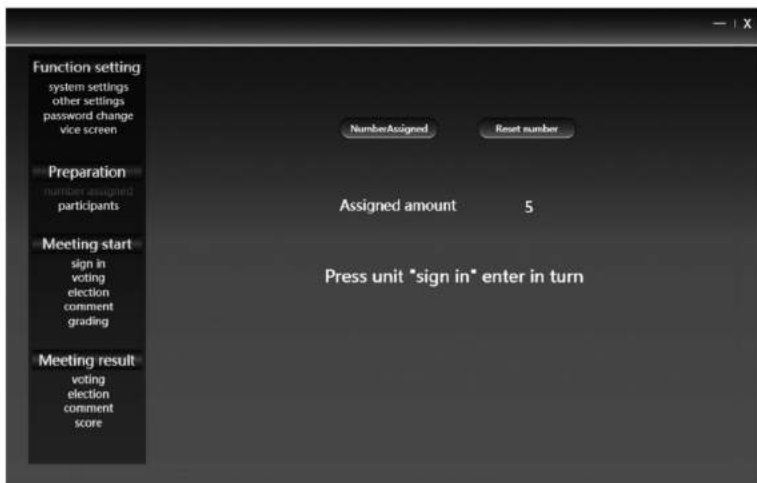


3. Software operation setting before use voting function.

3.1 Preparation before meeting

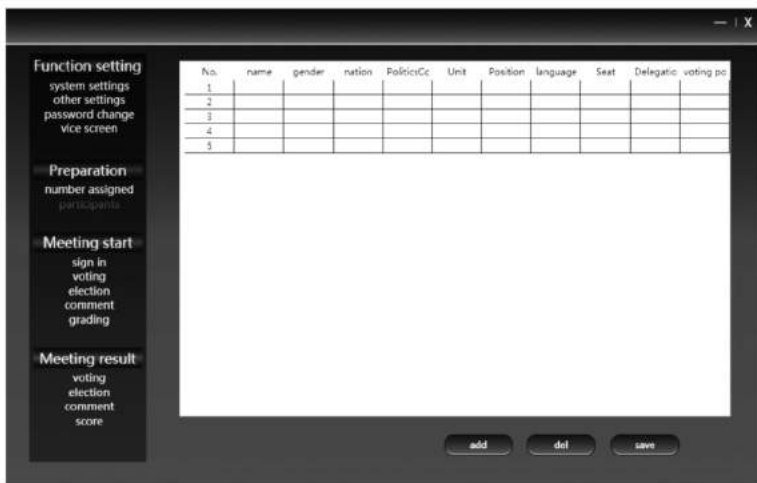
3.1.1 Serial number assignment

Assign serial number for microphone unit. Firstly, click the software “number assigned” key, at this time, all have been connected to the controller microphone unit screen “serial number 000” content, touch the microphone “sign” key in sequence that can assign number for every unit, then click “stop” key in the software to finish the unit number assignment operation. Serial number reset can clear the assigned number data.



3.1.2 Participants

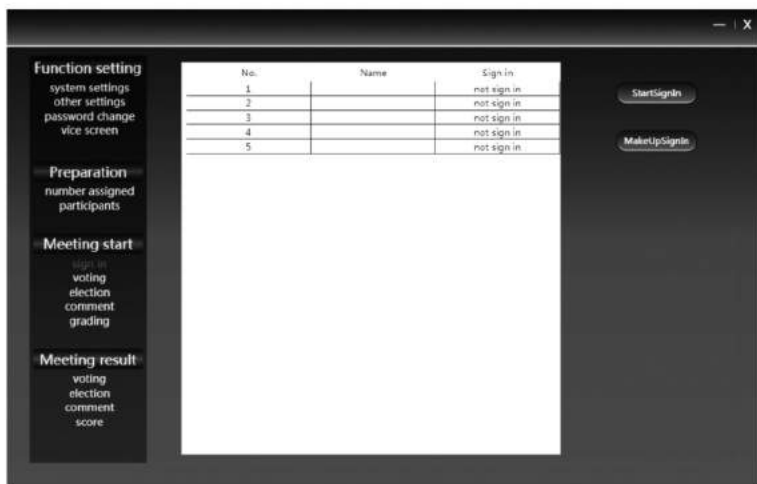
It can enter the participants information manually.



3.2 Hold a meeting

3.2.1 Sign in

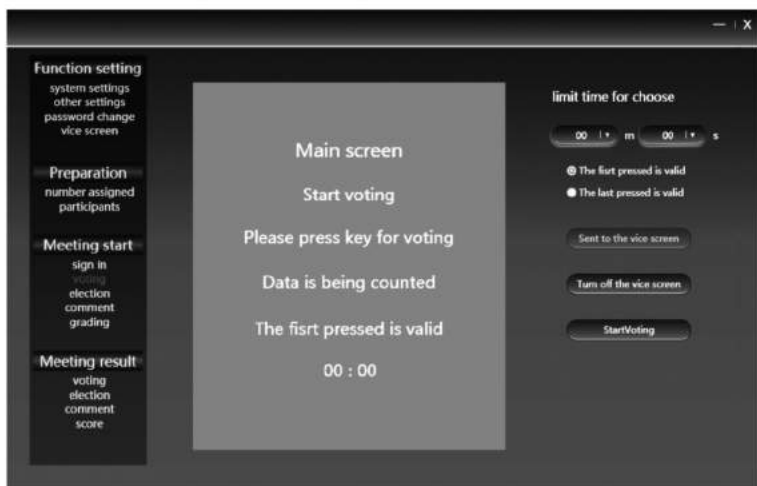
First, click software interface “start sign in” key, then press “sign” key on the microphone unit, microphone LCD display “sign in” means sign in successfully. Press stop in the interface to end of the sign in. If anyone miss, can choose “makeup sign in” to continue.



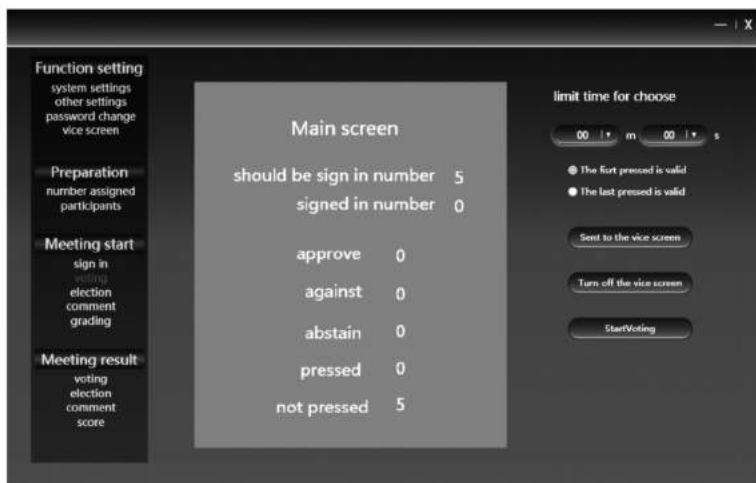
3.2.2 Voting

According to the user requirement to choose the voting type, can choose “limited time” or “unlimited time”, you can choose “The first pressed is valid” and “The last pressed is valid”. Click “startvoting” in the software interface to begin voting, in the unit seat on the basis of individual wishes to vote, and then click the “stop” of the interface button to end the entire meeting vote. Voting results can be sent to the vice screen. (If you choose “The last pressed is valid”, you will no longer be able to do any more operation after 10 seconds for the unit.)

3.2.2.1 Operation interface display before voting:



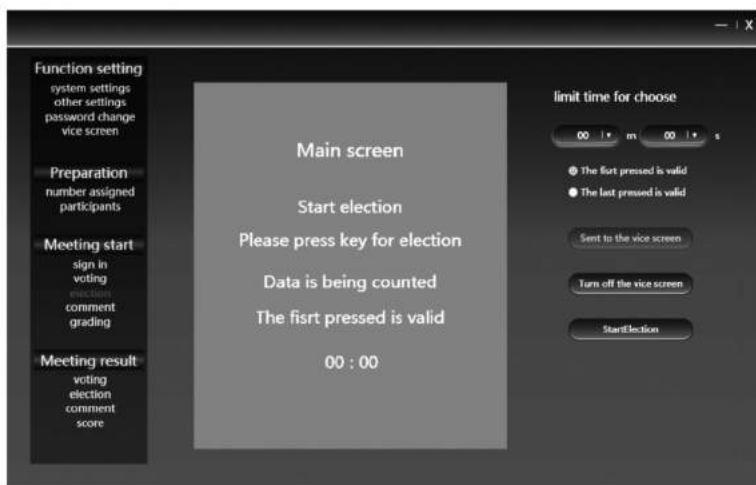
3.2.2.2 Operation interface display after voting (allow modify the data):



3.2.3 Election

Operation basically the same as voting. At the beginning of the election, the unit LCD display will show "No.1 - No.5", touch the corresponding position of the key can select to the related candidate.

3.2.3.1 Operation interface display before election:



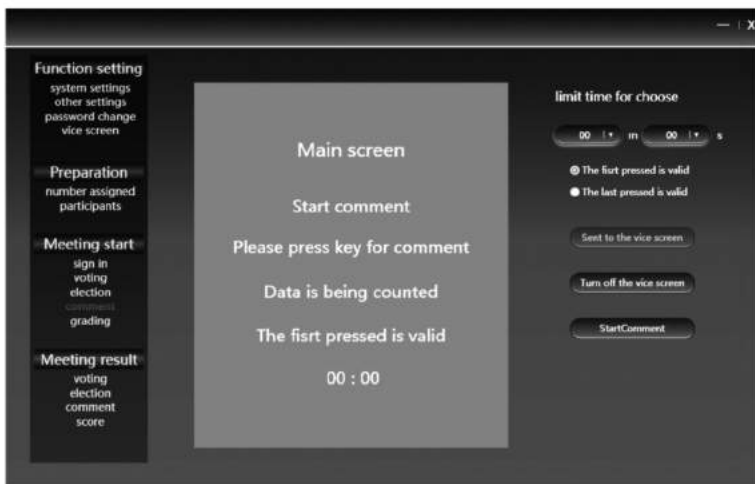
3.2.3.2 Operation interface display after election (allow modify the data):



3.2.4 Comment

Operation basically the same as voting. When comment begin, "yes" key means "satisfied", press "NO" key means "general satisfaction", "ABST" key means "dissatisfied".

3.2.4.1 Operation interface display before comment:



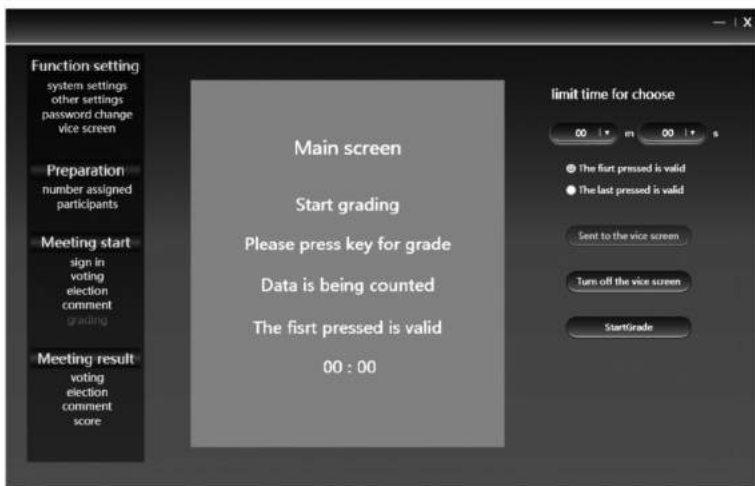
3.2.4.2 Operation interface display after comment (allow modify the data):



3.2.5 Grading

Operation basically the same as voting. When grading, the unit LCD display will show "20,40,60,80,100" score, touch the corresponding position of the key can select to the related score.

3.2.5.1 Operation interface display before grading:



3.2.5.2 Operation interface display after grading (allow modify the data):



3.3 Meeting result

3.3.1 Voting result

Operation interface display of voting result (allow modify the data)



3.3.2 Election result

Operation interface display of voting result (allow modify the data)

Voting type	satisfied	general satisfaction	dissatisfied	not pressed
2017/3/30 13:43:07	0	0	0	5

3.3.3 Comment result

Operation interface display of comment result (allow modify the data)

Voting type	candidate	vote
2017/3/28 11:36:45		
2017/3/30 15:41:05		

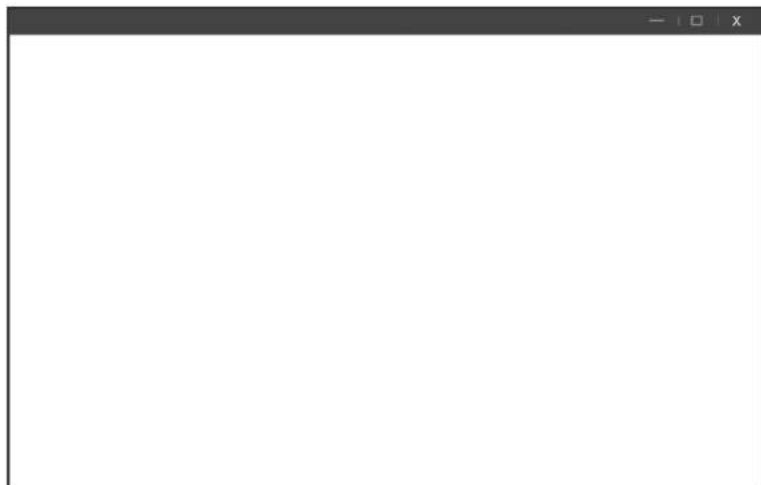
3.3.4 Grading result

Operation interface display of grading result (allow modify the data)

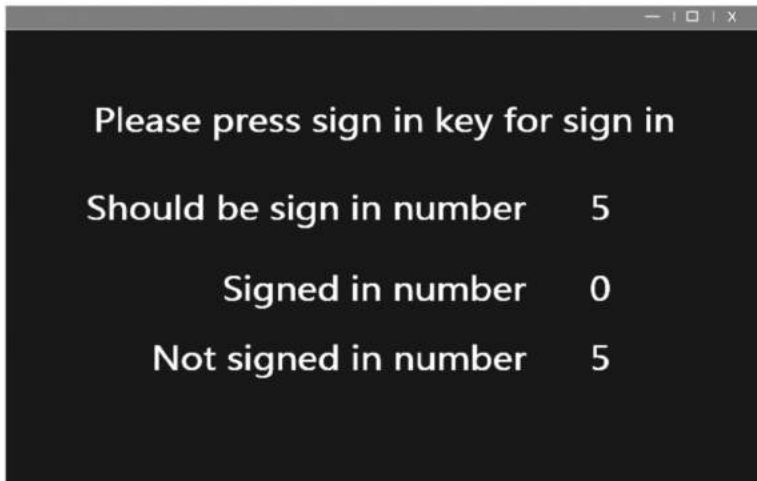


4. Vice screen display content

4.1 Vice screen initial interface

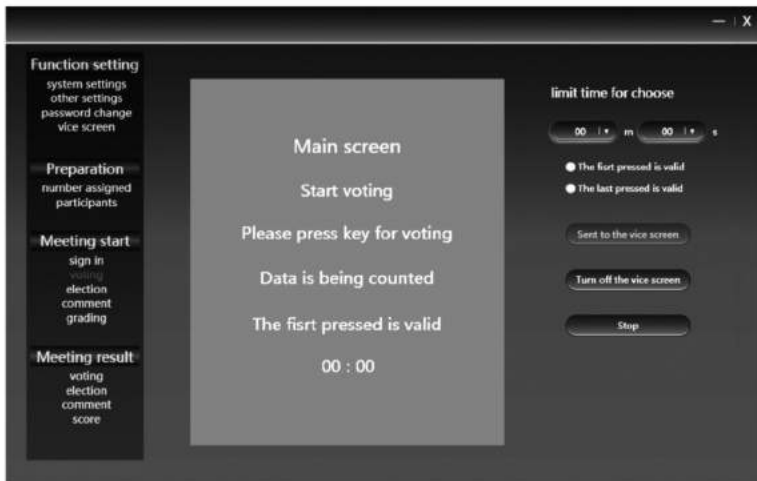


4.2 Vice screen interface display after start “Sign in” and “make up sign in”(Don't allow to modify data)

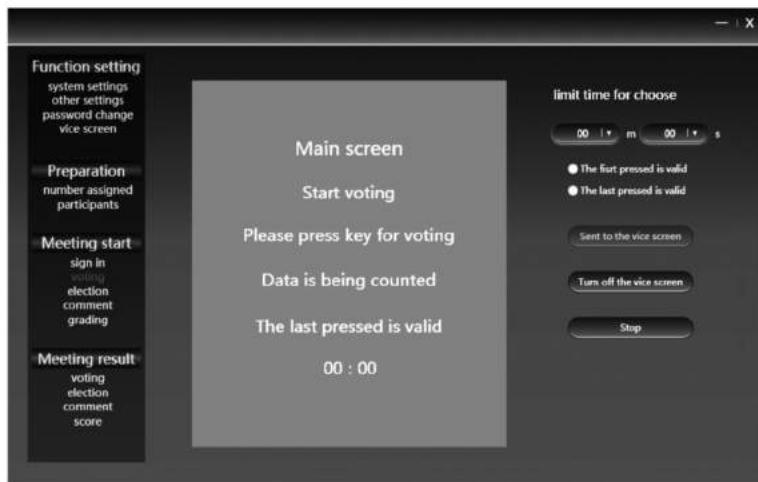


4.3 After choose “manual operate display” vice interface display when voting(also election, comment, grading)

4.3.1 Vice interface display after choose “The first pressed is valid”:

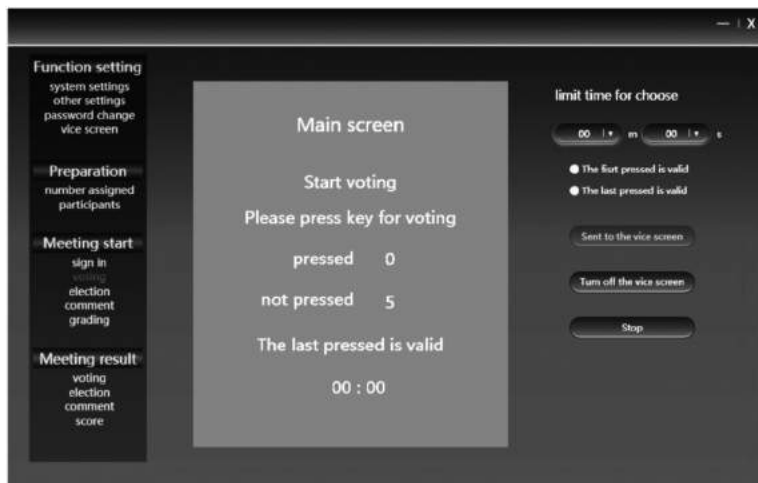


4.3 2 Vice interface display after choose “The last pressed is valid”:

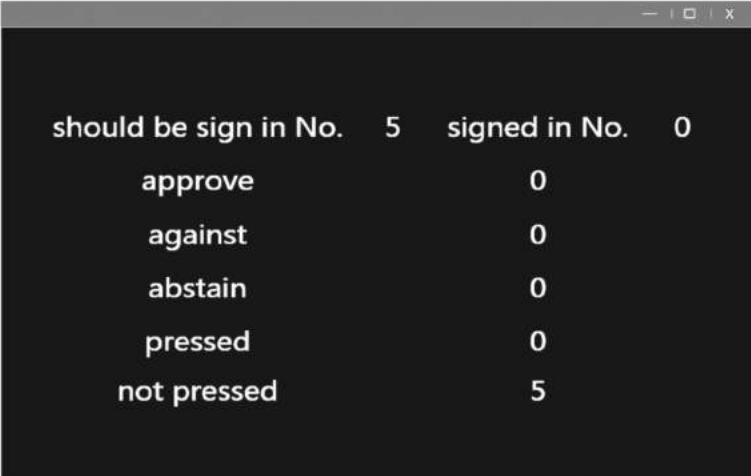


4.4 The vice screen display after choose “real-time display”

4.4.1 Vice screen display when voting begin



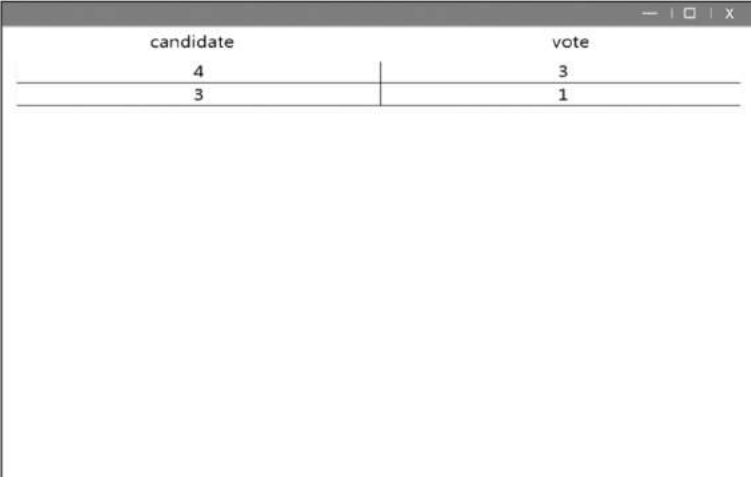
4.4.2 After end of voting, "sent to the vice screen", vice screen interface would display (Don't allow to modify data)



A screenshot of a terminal window with a dark background and white text. The window title bar shows standard window controls (minimize, maximize, close). The text inside the window displays the following data:

should be sign in No.	5	signed in No.	0
approve		0	
against		0	
abstain		0	
pressed		0	
not pressed		5	


4.4.3 After end of election, "sent to the vice screen", vice screen interface would display (Don't allow to modify data)



A screenshot of a terminal window with a white background and black text. The window title bar shows standard window controls (minimize, maximize, close). The text inside the window displays the following data in a table format:

candidate	vote
4	3
3	1

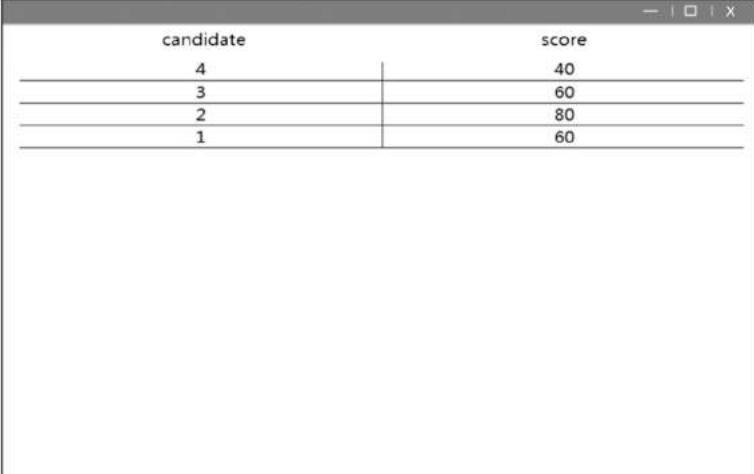
4.4.4 After end of comment, "sent to the vice screen", vice screen interface would display (Don't allow to modify data)



A screenshot of a terminal window with a dark background and white text. The window title bar shows standard window controls (minimize, maximize, close). The content is a table with two columns: 'should be sign in No.' and 'signed in No.'. The data rows are: 'satisfied' (5, 0), 'general statisfaction' (0, 0), 'dissatisfied' (0, 0), 'pressed' (0, 0), and 'not pressed' (5, 5).

should be sign in No.	5	signed in No.	0
satisfied		0	
general statisfaction		0	
dissatisfied		0	
pressed		0	
not pressed		5	

4.4.5 After end of grading, "sent to the vice screen", vice screen interface would display (Don't allow to modify data)



A screenshot of a terminal window with a light background and black text. The window title bar shows standard window controls. The content is a table with two columns: 'candidate' and 'score'. The data rows are: (4, 40), (3, 60), (2, 80), and (1, 60).

candidate	score
4	40
3	60
2	80
1	60

7. Remote teleconference step

1. Let the telephone and telecom signal connect to the host system, ensure the normal communication and adjust the amplification to a good status.
2. Use the telephone dial telephone IP connect to the telephone NO., choose teleconference mode in the host, adjust to the suitable volume, put the telephone hang up can be broadcast to communicate with each other.
3. Close the teleconference mode can be restored the telephone function.

8. Solutions to breakdowns

Breakdowns	Causes	Solutions
No power after connect	System control unit haven't opened the power	Open power
	Mains socket without power	Check the mains socket
No voice after turn on the unit	Haven't connect the host audio output	Connect audio output
	Audio equipment have open the volume	Open the volume
LCD screen display Low vol	Power didn't enough because of connecting line too long or over unit quantity	Using less microphone or add extension machine
	Under chairman mode	Setting other speech mode
No voice after turn on the unit	Audio transfer cable not connection	Connect audio output cable
Only one microphone can be open	Set up speak number	Change to 3,6 or N mode
Buzzer continuous ring	Haven't connect the unit microphone	Connect the unit microphone
	Cable didn't connect well	Check the connection

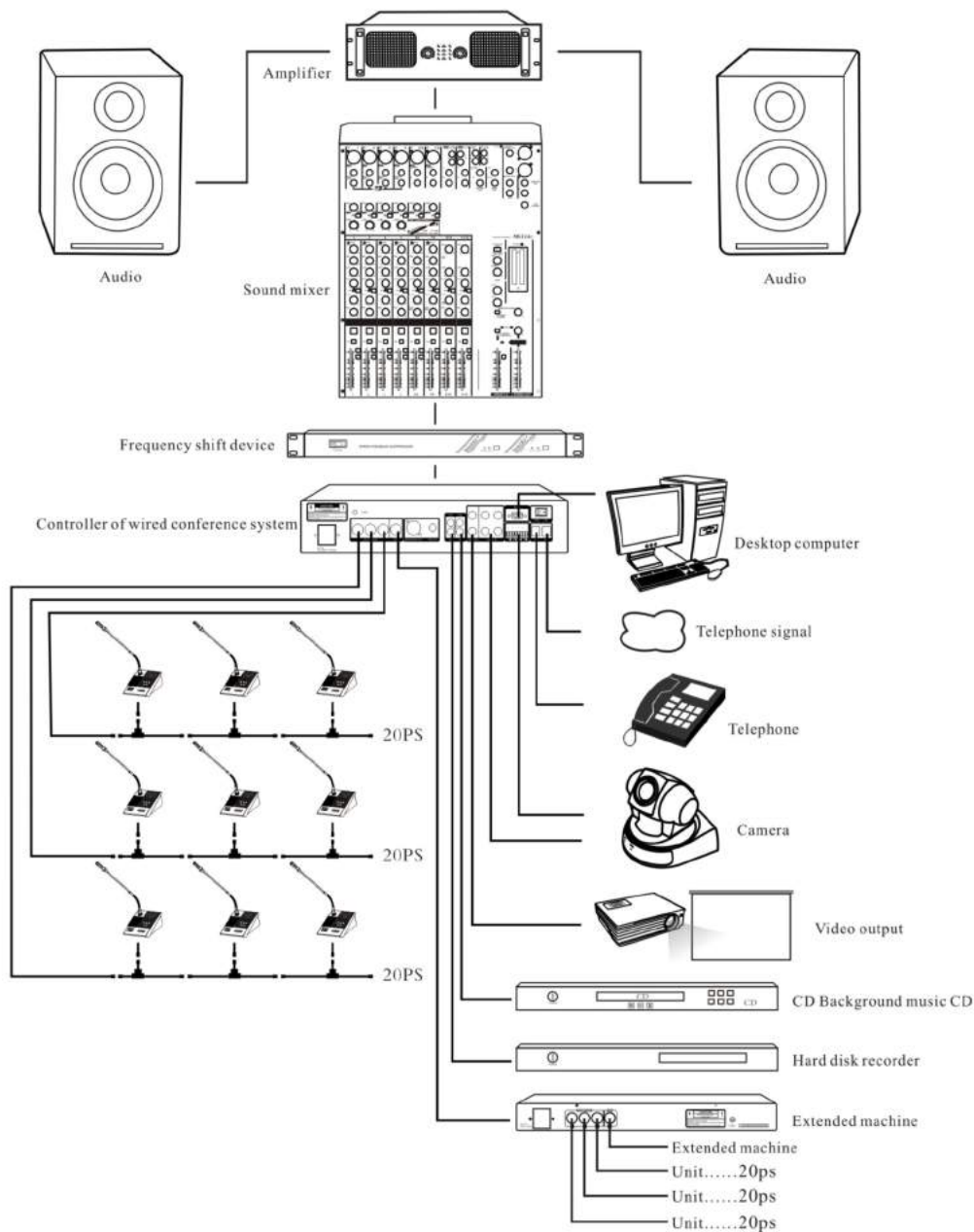
Care and maintenance

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. Connection instruction



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.