

# VISSONIC

## VIS-DMD-T All-in-one Touch Screen Conference Unit

### Operation Manual

V1.0 Version







VISSONIC ELECTRONICS LIMITED


# Meaning of Symbols

## ■ Safety instructions

Symbols are used in the operation manual and the equipment to indicate the possible injury to users or others and the potential risk of property losses, so that you can use the equipment safely and correctly. The instructions and their meanings are as below. Please make sure you understand these instructions correctly before reading the manual.

	Users are reminded to operate and maintain the equipment according to the operation and maintenance instructions along with it. Ignoring this information may lead to death or personal injury due to faulty operation.
	Users are also reminded that uninsulated dangerous voltage in the equipment may cause electric shock.
	CE certification indicates that the product has met the safety requirements specified by the European Union, and users can use it safely.
ISO9001-2000	This product has been certified by ISO 9001 international quality system.
	Warning: To avoid electric shock, please do not open the cover, and do not put useless parts in the cabinet. Contact qualified customer's service personnel.

## ■ General Information instructions

	It lists the contents that may cause unsuccessful operation or setting and some relevant information that requires attention.
---	---

# Important notes



## Warning

To ensure the reliable use of the equipment and the safety of personnel, please observe the following considerations during the installation, use and maintenance:

### Installation considerations

- ◆ Both the power plug and the front panel disconnecting coupler shall be easy to disconnect.
- ◆ The equipment shall not be exposed to water drops or splashes, and articles filled with water such as vases shall not be placed on the equipment.
- ◆ Please do not use the product in the following places, including those with dust, oil fume, conductive dust, corrosive gas and combustible gas, those exposed to high temperature, condensation, wind and rain, or those with vibration and impact. Electric shock, fire and misoperation can also lead to product damage and deterioration;
- ◆ During the screw hole drilling and wiring, do not make the metal chips and wire ends fall into the vent hole of the controller, which may cause fire, fault or misoperation;
- ◆ At the end of the installation work, it is necessary to ensure that there are no foreign matters on the ventilation surface, including dust-proof paper and other packaging items, otherwise it may lead to poor heat dissipation during operation, and cause fire, fault or misoperation;
- ◆ Avoid wire connection in live state, plugging and unplugging cables, otherwise it is easy to cause electric shock or circuit damage;
- ◆ Installation and wiring must be firm and reliable. Poor contact may lead to misoperation;
- ◆ For the application with serious interference, the input or output cable of high frequency signal shall be

shielded cable to improve the anti-interference performance of the system.

### Considerations in wiring

- ◆ The equipment shall be connected to a grid power outlet with a protective earth connection.
- ◆ Installation and wiring can be carried out only after all external power supply is cut off, otherwise electric shock or equipment damage may be caused;
- ◆ The product is earthed through the earthing conductor of the power wire. To avoid electric shock, the earthing wire must be connected with the earth. Before connecting the input or output end of the product, please make sure that the product is correctly earthed;
- ◆ After the installation and wiring, remove the foreign matters immediately. To avoid electric shock, please place the terminal cover of the product properly before powering on;

### Considerations in operation and maintenance

- ◆ Do not touch the terminal when it is powered on, otherwise it may cause electric shock and misoperation;
- ◆ Please clean and tighten the terminals after the power is off. When the power is on, these operations may cause electric shock;
- ◆ Please connect or remove the communication signal cable, and connect or remove the cable of expansion module or control unit after the power is off, otherwise the equipment may be damaged and misoperated;
- ◆ Do not disassemble the equipment to avoid damaging the internal electrical components;
- ◆ Be sure to read through this manual, and change,

test run, start and stop the procedure after fully confirming the safety;

◆ The button cell must be replaced in case of power failure. If replacement in live state is needed when considering the equipment operation, it must be carried out by a professional electrical technician wearing insulated gloves.

#### **Considerations in product scrapping**

◆ Explosion of electrolytic capacitor: the electrolytic capacitor on the circuit board may explode when it is burned;

◆ Please collect and dispose of them by category , and do not put them into a household waste bin.

◆ Please treat it as industrial waste or according to local environmental protection regulations.

## NOTE

This manual mainly describes the use, performance parameters and troubleshooting of VISSONIC VIS-DMD-T all-in-one touch screen conference unit.

If the technical parameters and system use in this manual are changed, the manufacturer will update the version number of the manual. Please make sure to use the latest product manual. The copyright of the manual belongs to VISSONIC Electronics Ltd. This manual is protected by the Copyright Law of the People's Republic of China

and other intellectual property laws and regulations. It is not allowed to copy part or all of the manual or modify this manual without permission.

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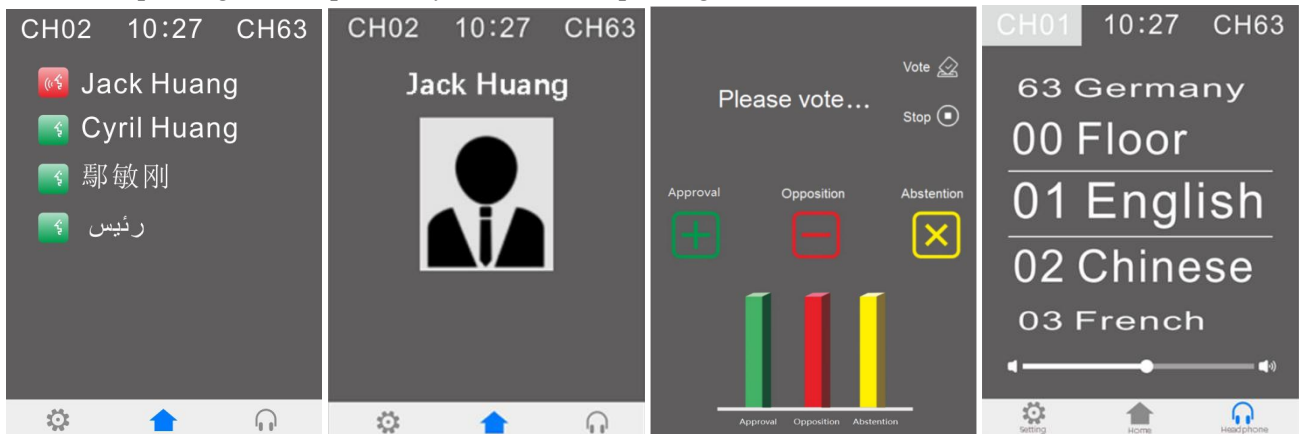
# 1. Product Overview

## 1.1 Product description and layout

The VIS-DMD-T is a multimedia conference unit based on the VISSONIC AUDIOLINK multimedia IP network technology. It is equipped with a 4.3-inch touch screen, which improves the flexibility of the conference and the interactivity of the conference content. The same conference discussion unit can set as chairman, delegate, VIP or dual-user unit according to the requirements of the conference. As the various requirements of conference and with the same hardware, it can upgrade the software to achieve more functions without changing unit or hardware.

The current software module contains five functions: vote, NFC card identification, simultaneous interpretation channel, dual user and Bluetooth. By chairman unit, you can use the touch screen on the VIS-DMD-T unit to manage different aspects of the conference. It allows you to start, pause meetings, view request-to-speak lists, approve request, view addresser profiles and speaking times, and even record meetings, easily start and stop voting etc.

By delegate unit, you can view the agenda under discussion and the remaining time to speak. You can even see who is speaking and the position you are on the speaking list.



### Functions:

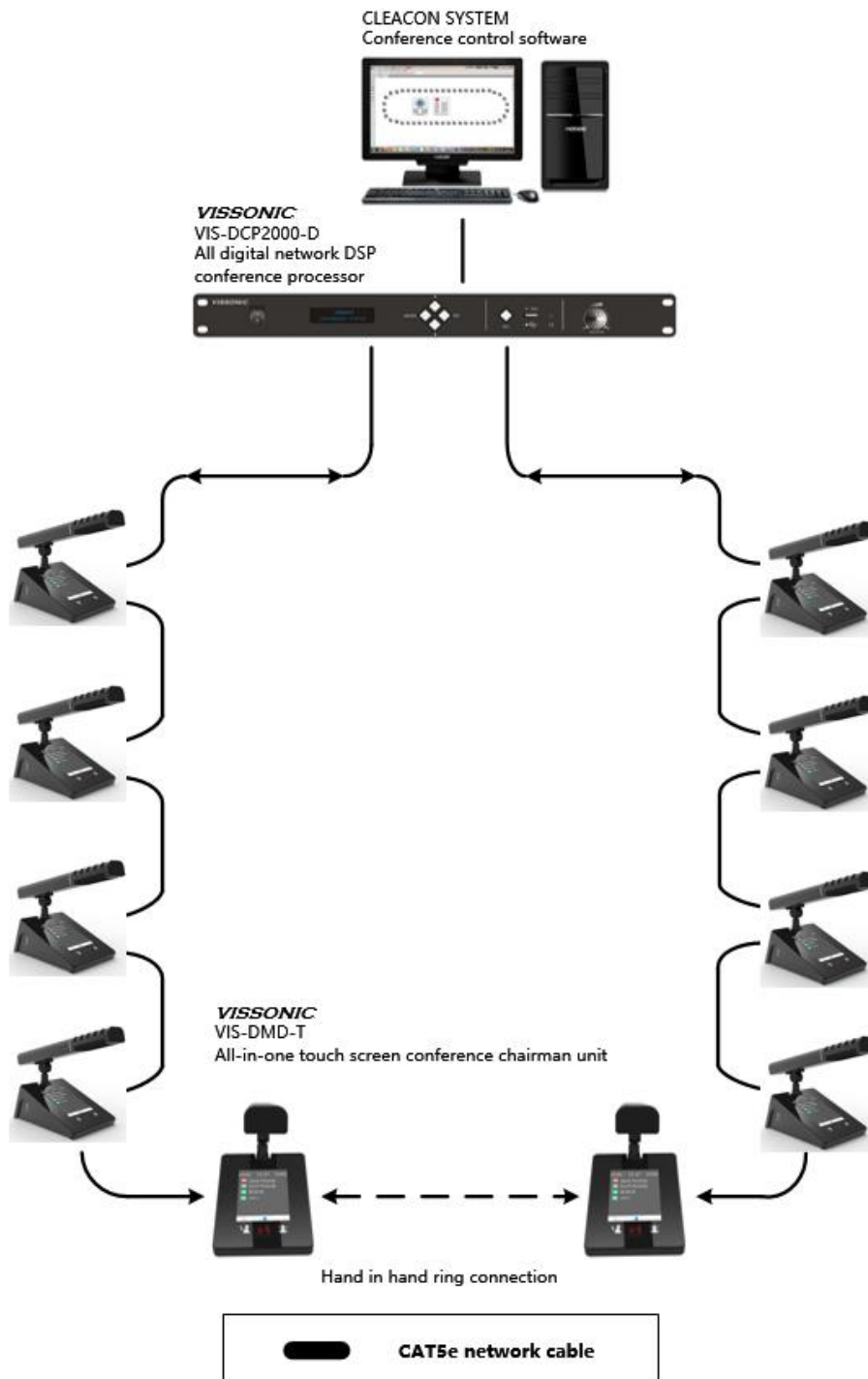
- The design is compact, ergonomic and modern
- The connection cable may select the outlet hidden at the bottom, convenient for maintaining clean desktop, or the outlet in the back, adaptable to various engineering demands.
- Adopt standard CAT5e with RJ45 connector as the connection cable, which is convenient for standardized engineering wiring installation and maintenance. The installation wire clamps attached make the system more robust and stable.
- All-in-one touch screen conference unit can be set as the chairman, delegate, VIP or dual delegate unit or any conference device via conference system software or the menu of conference controller front panel.
- Chairman unit can pause the delegate's speech, close the delegate's speech, view the speaking request list, agree or reject the delegate's speech request, and functions of starting conference recording, stopping recording, selecting conference topics, initiating sign-in, and voting.
- Delegate unit can request to speak and view your position in the request list, information of the addresser,

and view the meeting topic.

- The system can set up to 32 VIP delegate units. As long as the total number of microphones already turned on in the system does not exceed 8, the VIP delegate unit can be turned on freely.
- The touch screen software of the conference unit contains five optional function modules:
  - Voting: three-button / two-button voting
  - NFC identification: Sign in with NFC card to accurately identify user information.
  - Simultaneous interpretation channel: support 2 language channel selectors, each selector supports 64 languages independent selection.
  - Dual users: Support two participants sharing one unit to achieve camera tracking at two locations; enabling two delegates to vote on one unit.
  - Bluetooth: can be connected to hearing aids etc.
- 4.3-inch capacitive touch screen displays conference information, such as agenda, addresser information, addresser list and request-to-speak list, speech timing, timing speaking, current time and date, Chinese and English switching, and checking unit version information.
- The conference unit has sign-in function and service request function through the touch screen.
- The touch screen background software supports to set the current microphone sensitivity and 8-band equalizer EQ adjustment.
- Can be configured with gooseneck microphone or rectangular dual backup microphone.
- Dual headphone port design, volume can be adjusted through touch screen.
- Hand-in-hand-loop-network connection and star connection, the system is more reliable. Replacement and one unit or failure of cable will not affect the normal operation of other units in the system.
- Hot plug-and-play for conference unit, automatic recovery.
- The number of speakers limit function: you can set the speaker units that are turned on at the same time (the number is 1/2/4/6, and a maximum of 32 units are allowed to speak in the full-open mode).
- Has the following speaking modes:
  - "OPEN" open mode, "VOICE" voice control mode, "OVERRIDE" first-in first-out mode, "APPLY" application mode, "PTT" press and hold to speak (optional), "ALL" full open mode (optional), combined with camera and a camera tracking controller, it has an automatic camera tracking function.

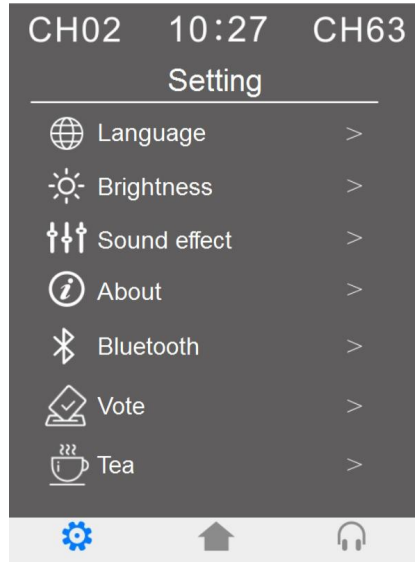


## 1.2 Product connection diagram



## 2. Basic function of the product

### Setting of the interface:



Click the setting button to enter the setting menu, which can set the unit language, brightness, sound effect, unit information, voting and tea service.

### 2.1 Display of main interface information



Two simultaneous interpretation channels displayed by the main interface can be used by two users. The dual display of digital time and dial time as well as date display make the appearance of the unit more concise and attractive. Click the setting button on the left to enter the unit function setting interface, and click the simultaneous interpretation button on the right to enter the simultaneous interpretation channel

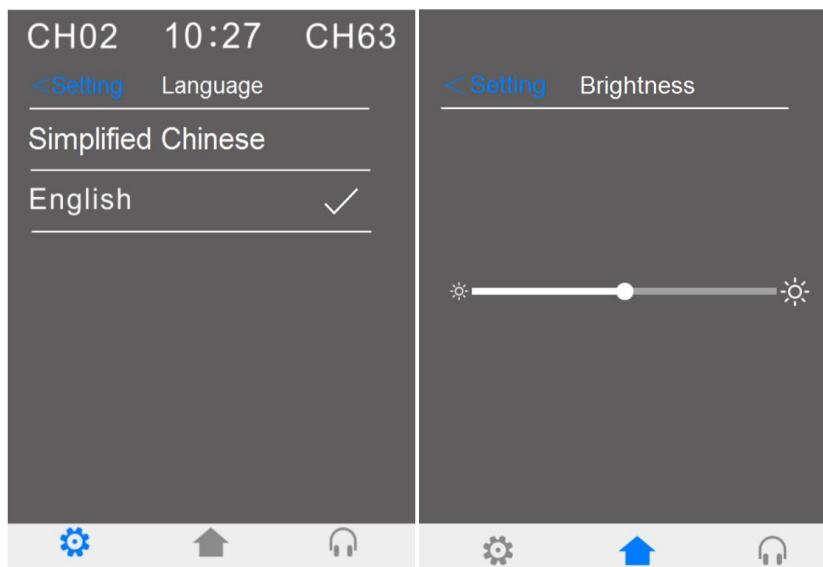
setting of the interface.

## 2.2 Speech timing and speech request



When you click the microphone button, the microphone start interface will display the speech time of the participants in real time. The information of the addresser and addresser in the request list can be displayed after closing the microphone. The chairman unit has the function of closing the microphone of the addresser's representative unit, and has the authority to approve or reject the representative unit's request for speaking (except for other hosts). The user information corresponding to the unit shall be set in the upper computer software of VIS-DCP2000 series conference host (refer to the operation instructions of VIS-DCP2000 series upper computer software).

## 2.3 Unit language and brightness setting



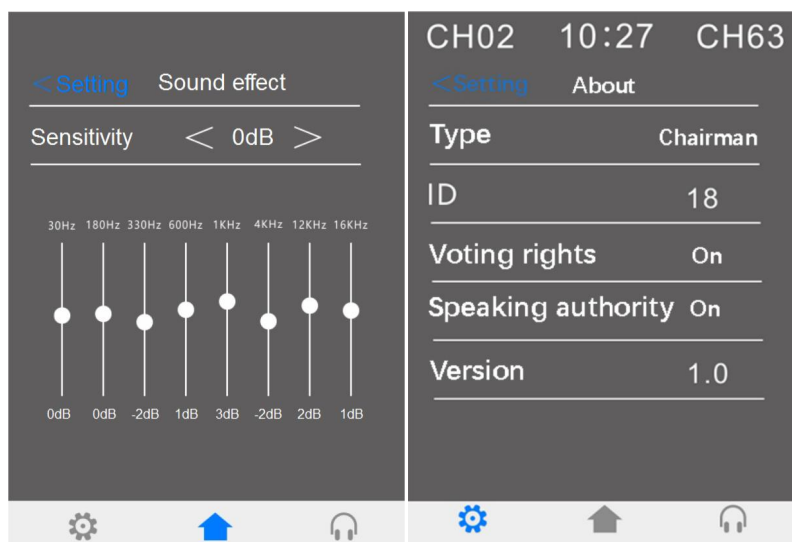
In the unit setting, the system provides Chinese and English display switching setting (if you need other

languages, we can provide customized service) and screen brightness custom adjustment.

## 2.4 Unit sound effect setting and unit information display

The "sound effect" setting provides 8-band equalizer adjustment and + - 12dB sensitivity adjustment. It can be set to Open and Close, and it can also be reset with one key if the setting is disturbed.

You can view the unit authority and status information in "About" setting. It includes unit type, current ID number, voting authority, speaking authority and software version.



## 2.5 Call service



The system provides call service function, and customized one-key call services such as pen, paper and tea. The computer software can receive call information, and provide comfortable and fast service for the conference.

## 2.7 Conference mode

When we turn on the conference processor, the initialization information of "initializing..." will be displayed on the screen. After 3 seconds, the main screen menu will be displayed.

### Main screen





The information displayed on the main screen is as shown in the figure above, including Unit (indicating the number of conference microphone units connected to the system from "0001" to "4000"), conference mode ("Override, Voice, Open, Apply"), and maximum number of speeches (1, 2, 4, 6 optional).

### Microphone mode

On the main screen, we can quickly enter the microphone mode setting interface by pressing '▽'. If the conference host is connected to PC, you can also set the conference mode through the conference software

Menu	Parameters	Description
MIC mode	Override	Override
	Open	Open
	Voice	Voice
	Apply	Apply

Mode	Description
Override	In the Override mode, the representative unit directly turns on and off the microphone through the microphone switch button. When the number of representative units reaches the maximum value set, the next representative unit turning on the microphone will automatically turn off the unit first turning on the microphone.
Open	In the Open mode, the representative unit directly turns on and off the microphone through the microphone switch button. When the number of representative units reaches the maximum value set, the representative unit to be turned on next will be added to the waiting list and enter the waiting state until any unit in the on state turns off the microphone.
Voice	In the Voice mode, the representative unit controls turning on and off the microphone through intelligent recognition of the nearest human voice. When the microphone detects the nearest voice source, it will turn on automatically and immediately. When the number of representative units to be turned on reaches the maximum value set, the next representative unit turning on the microphone will automatically turn off the unit first turning on the microphone... (For special requirements, we can change to turn on 20 microphones freely)
Apply	In the Request mode, the representative unit requests to turn on the microphone through the microphone button. In the Request status, the LED light of the conference unit is in green. The chairman presses the agree speech button  or

reject button  to decide whether the representative can turn on the microphone. When the speaking representatives reach the maximum number of addressers, the system allows the same number of representative units to enter the waiting list.

### Maximum speech number of Active MIC

In the main screen state, press the '△' button to quickly enter the setting interface of the maximum number of microphones allowed.

Menu	Parameters	Description
Active MIC	1,2,4,6	Limit the number of representatives' microphones allowed to be turned on

### Monitoring information, display unit connection information

Menu	Parameters	Description
UNIT	0000~4000	Display the number of conference microphones connected to the system, monitor the connection status of the system in real time, and help to find the unit failure and connection failure in time.

## 3. Unit ID setting, unit type setting and authority setting

### 3.1 Edit unit ID

Current number : 01  
Local number : 09

Press and hold the 'ESC' button on the host panel for 2 seconds, then the system will enter the editing ID status. Click the microphone on button of the unit in turn (the button turns red, ID starts from No. 1 by default, and the ID is increased by one by pressing the unit once) until the last unit. During editing, the unit displays the local ID (ID before editing) and the current ID (ID after editing).

**Note:** the unit ID can not be the same, otherwise the unit may be on and off at the same time due to ID conflict, and there may be noise or there is no audio output when the microphone is turned on, so it is necessary to edit the unit ID again.

### 3.2 Unit type setting

Press ENTER to enter the main menu, press ▼ to find the 'Delegate Setup' setting, and enter the submenu setting 'Unit Type Set'.

```

D e l e g a t e   S e t u p :
U n i t   T y p e   S e t

```

If the unit is the representative unit by default at this time, and most of the units are the representative units in a conference, first we need to set the status 'Type: ON.'

Press the unit microphone button, then the screen will display "representative->chairman->interpreter->VIP" circularly. Unit type can be set according to conference needs.

After setting all types, turn off the type setting status, and then restart the host to complete the setting.

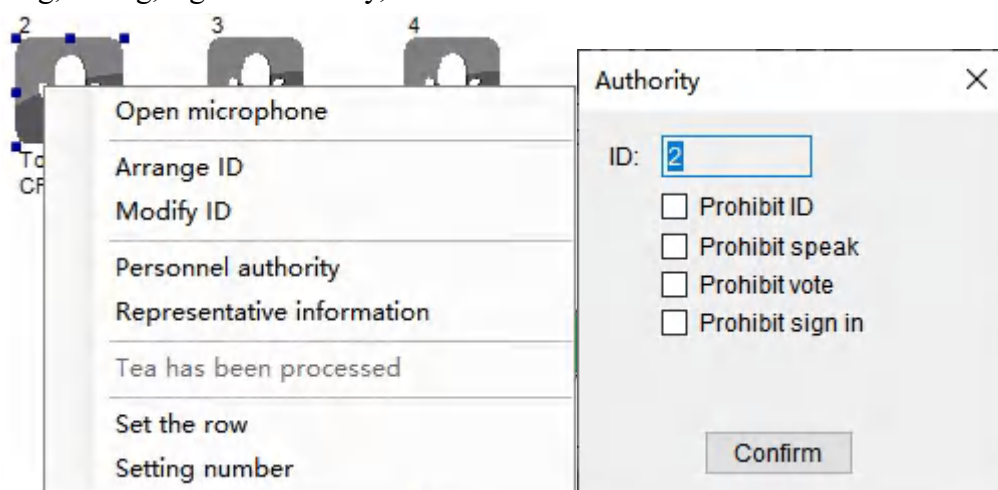
```

T y p e : O f f
- > O f f


```

### 3.3 Unit authority setting

Log into the administration software of the upper computer of the conference system. In the administration mode, right-click the unit icon and click personnel authority to set unit authority, such as ID, speaking, voting, sign-in authority, etc.



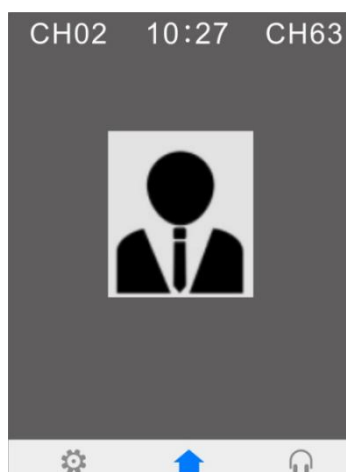
### 3.4 Microphone status indication

Microphone switch button , LED ring on gooseneck microphone and display screen will display different working states of conference unit.

Microphone button color	LED ring color	Display screen	Status
Red (ON)	Red (ON)	Microphone ON	Microphone ON
White (OFF)	Green (WAIT)	Requesting to speak Please wait....	Request to speak

## 4. Optional functions

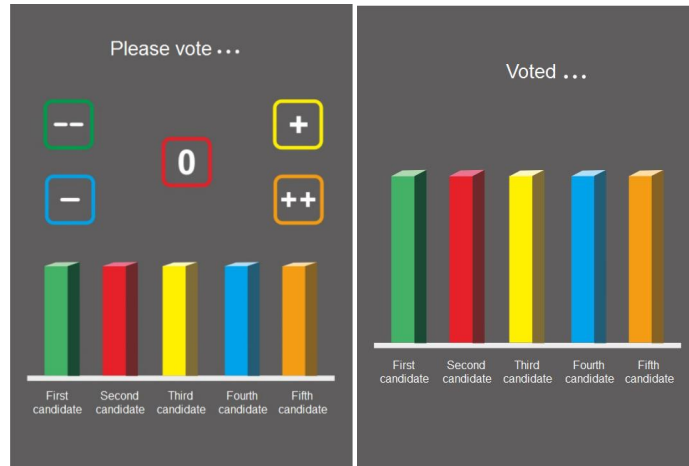
### 4.1 IC card sign-in and information display function



Sign in through NFC card, and accurately identify user image information, name, position, etc. (Add user details in the system management software. Refer to 5.2 ~ 5.3.)

### 4.2 Voting function





### Voting at election



### Voting by rating



### Voting by ballot



Sign-in

The results of election, rating, ballot and sign-in can be displayed in real time, and the data can be displayed in histogram, which is more intuitive and reliable. The chairman unit can start and end voting, and the voting authority of the unit can be customized. In the conference system administration software, you can start voting and sign in (you can set IC card to sign in).

### 4.3 Interpretation unit setting and channel number selection

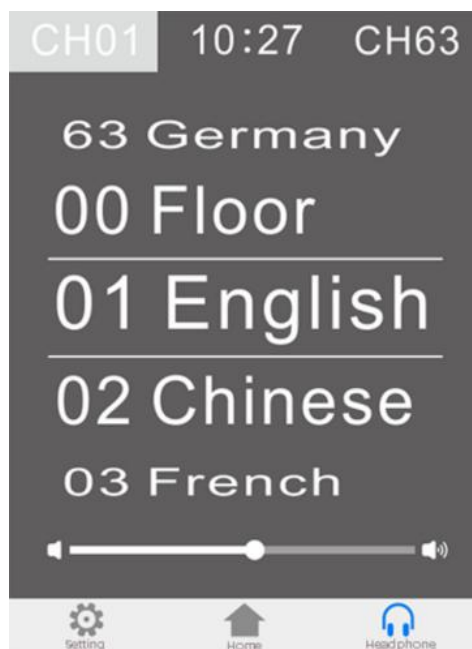
Enter the host menu 'Interpretation' to set the relevant parameters of the translation unit. Select the number of channels to be opened, the corresponding language of the channel, and the serial number of the interpretation booth.

Menu item	Parameters	Parameter value	Description
Max. channel	-	00 to 64	Set the number of simultaneous interpretation channels according to the actual conference demands to simplify the channel selection on the unit.
Channel	00 01 ... 64	Chinese, English, ... (104 languages)  Chinese, English, ... (104 languages)  Chinese, English, ... (104 languages)	. Bind the language corresponding to each channel. The number of channels of the microphone can be selected according to the number of languages to be interpreted. The corresponding number of channels can be set on the host to bind the corresponding language.
Auto floor	-	On/Off	Turn on the 'On' Auto floor - the interpreter unit turns off the microphone to stop interpretation, and the channel that the interpreter unit is responsible for automatically switches to the original sound of the channel.  Turn off 'Off' Auto floor - the interpreter unit turns off the microphone to stop interpretation, and the channel that the

			interpreter unit is responsible for has no audio output.
Channel lock		On/Off	On - The output channel of the interpretation unit is locked and the interpreter can't make the change at will. Off - The output channel of the interpretation unit can be set by the interpreter.
Booth setup	Max. booth Start set	02 to 64 On/Off	Max. booth -- set the number of interpretation booths On -- start setting, all interpretation units display the booth no., press the speech button to modify the number, and the number of the same interpretation booth must be the same. Off -- complete setting. Function - turn on the microphone of any interpretation unit, and the loudspeaker of the interpretation unit in the same interpretation booth will turn off automatically.

The microphone unit can select two interpretation channels for dual users at the same time, and each side of the unit has a 3.5mm headphone jack to receive the interpretation of two channels in the interface.

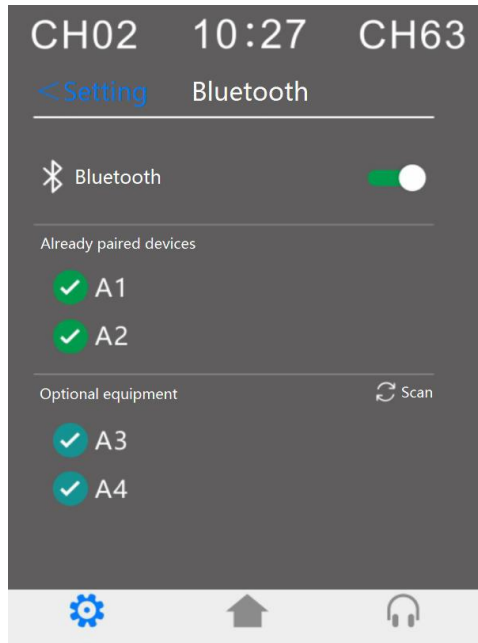
As shown in the figure, there are two channels CHO01 and CH63 on the left and right sides of the interface. Click any channel to enter the channel selection interface. Slide up and down to select the language channel corresponding to the interpretation you want to listen to, and slide the language channel you want to listen to to the middle of the double horizontal line.



## 4.4 Bluetooth module

It is used to connect Bluetooth device, such as a Bluetooth headset, for listening to simultaneous interpretation, allowing you to enjoy more convenient simultaneous interpretation.

Turn on the Bluetooth setting in the settings, select your Bluetooth device, and make matching connection. The conference unit will record your Bluetooth device, so that you can enter the Bluetooth range next time and connect it automatically.



## 4.5 Dual-user module

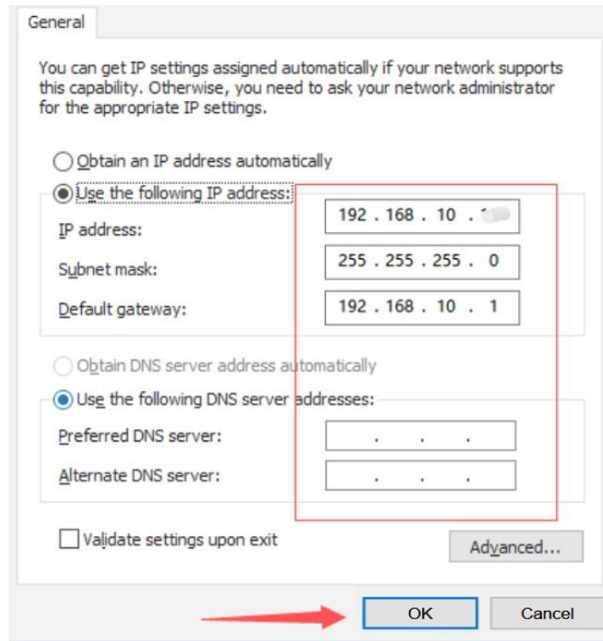
Dual-user module is an optional module equipped with two speaking buttons. The two buttons are allocated different independent ID, two users can use voting, IC card sign-in, simultaneous interpretation, video tracking and other functions independently without interfering with each other.



## 5. Upper computer software setting

### 5.1 Software connection

The computer and the conference host are connected to the same network, and the default IP address of the conference host is 192.168.10.100. Set the computer IP address to static IP, and keep it in the same network segment with the conference host.

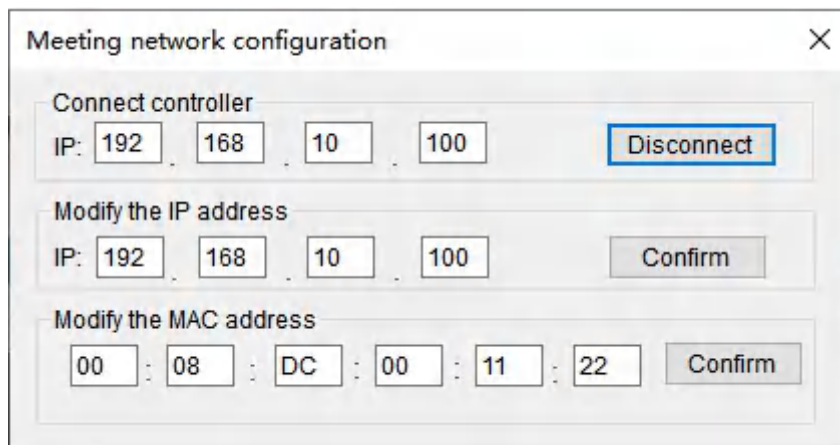


Install the upper computer software CLEACON SYSTEM of the conference host

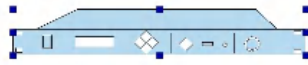


You can use the meeting template or user-defined project. For specific operation, please refer to the software manual of the upper computer.

Right-click the host icon and click network setting to connect to the host. Then click basic configuration to set the conference voting, sign-in and other functions.



## 5.2 Basic configuration



Basic configuration

### 1. Voting setting

You can select the settings such as sign in first, voting by name, effective for the first time, etc., and you can make multiple choices.

### 2. Voting mode

It is optional to start or end a vote, election or rating.

### 3. Microphone settings

The microphone mode and the maximum number of microphones turned-on can be set remotely.

### 4. Sign-in options

You can set the number of people who sign in and the way of sign-in. The ways of sign-in include ordinary sign in and IC card sign-in. The IC card sign-in needs optional NFC function.

### 5. Starting ID setting

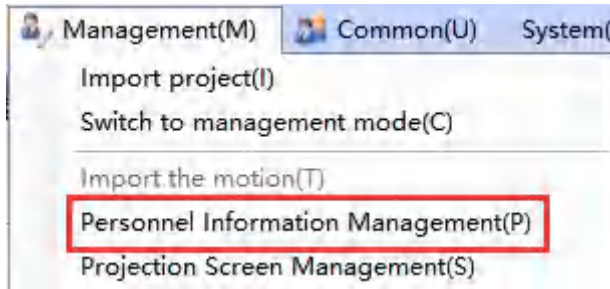
The ID of the microphone unit can be set, and it can be signed on behalf.

### 6. Language channel setting

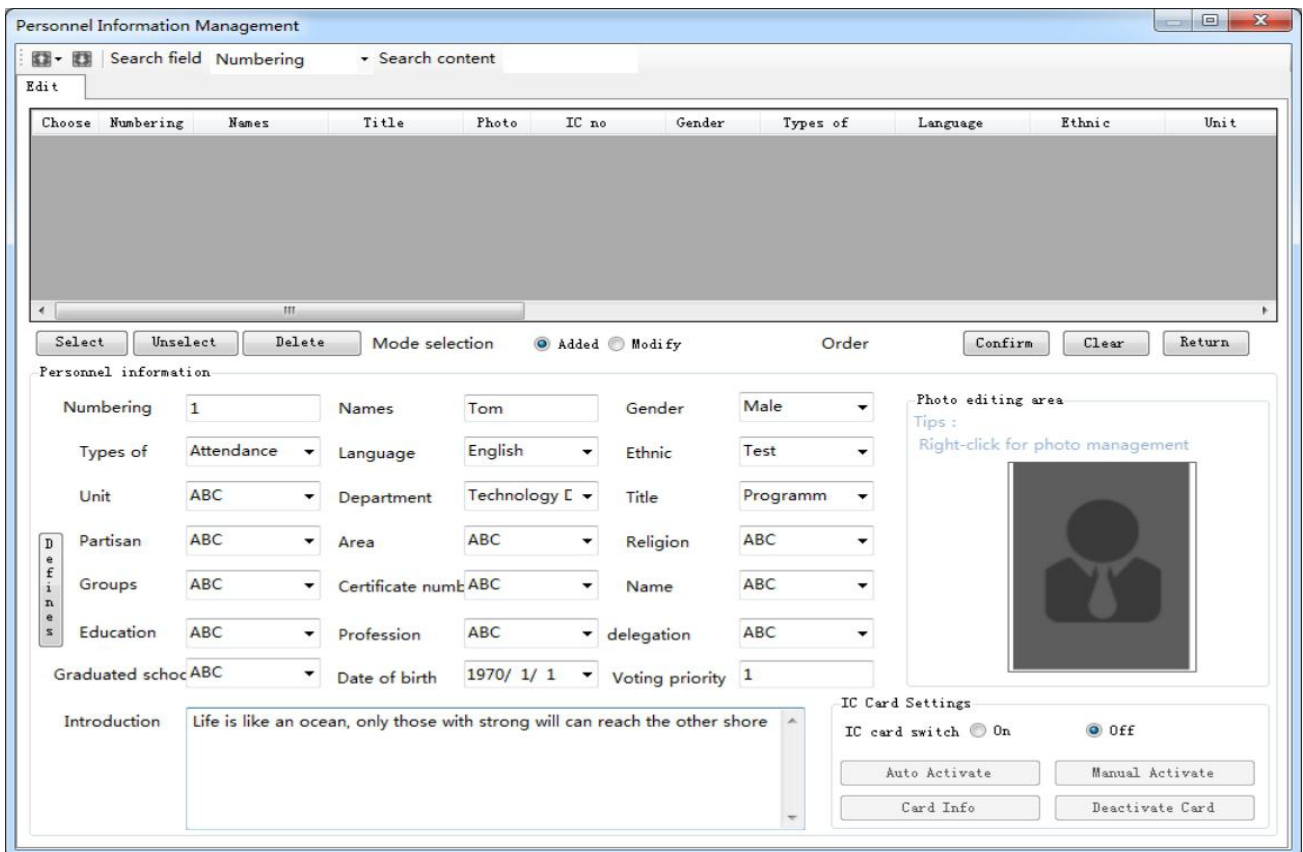
The channel number of microphone units and the corresponding language can be selected.

### 5.3 Information uploading

In the navigation bar management option, click personnel information management.

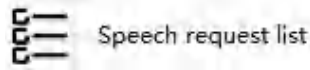


In the personnel information list, the information of each participant can be set, including the name, gender, nationality, language, unit, department, position, certificate number and image of the participant. This information can be uploaded to the microphone unit or electronic nameplate for display.

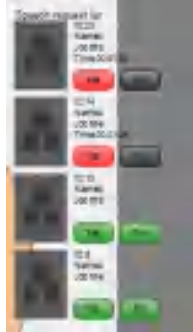


## 5.4 Display of request to speak

In engineering mode, click the Add Element Icon to add.

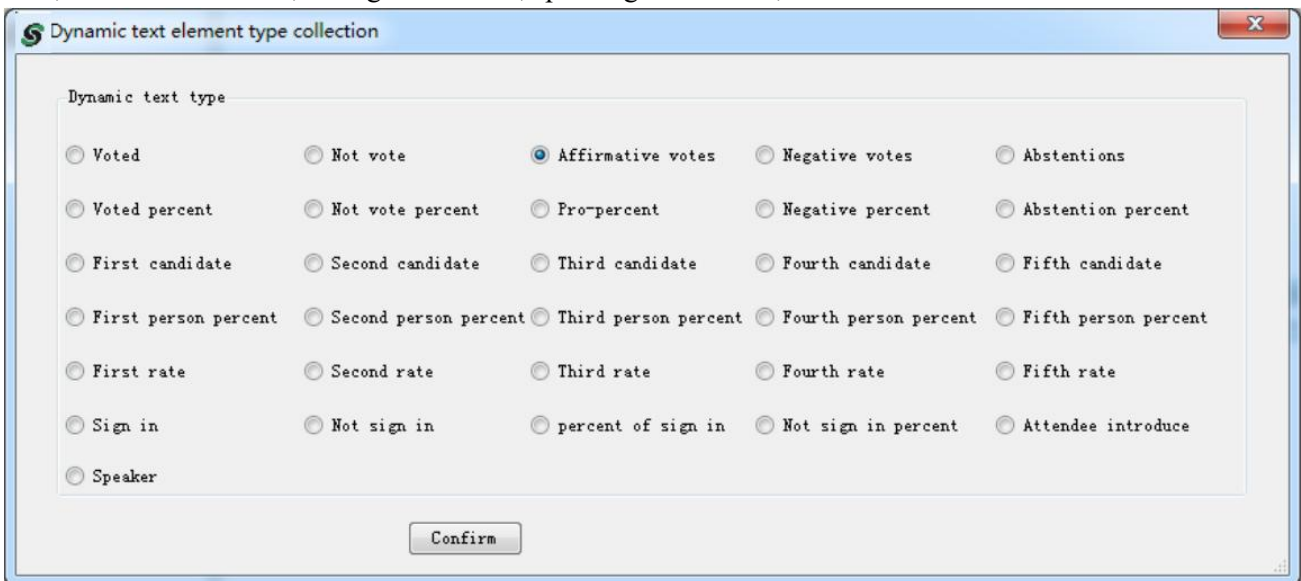


The information of the person requesting to speak can be displayed, and the administrator or chairman unit can approve or reject the request to speak.



## 5.5 Dynamic text

It mainly displays the number of votes, the number of people and the percentages used in the statistical results under the mode of ballot, voting, election and rating. After binding, it can dynamically display the binding value in the corresponding voting mode. For example: addresser in progress, conference name, conference time, conference content, voting countdown, speaking countdown, etc.



Dynamic text function is an important embodiment of conference statistical results. Dynamic text can bind related information in multiple modes. It dynamically displays the information change, and is an important conference element to reflect the change of relevant parameters in the conference process.

### 1) How to create

Similar to creating a new unit, you can select the **【dynamic text】** button in the conference element set.

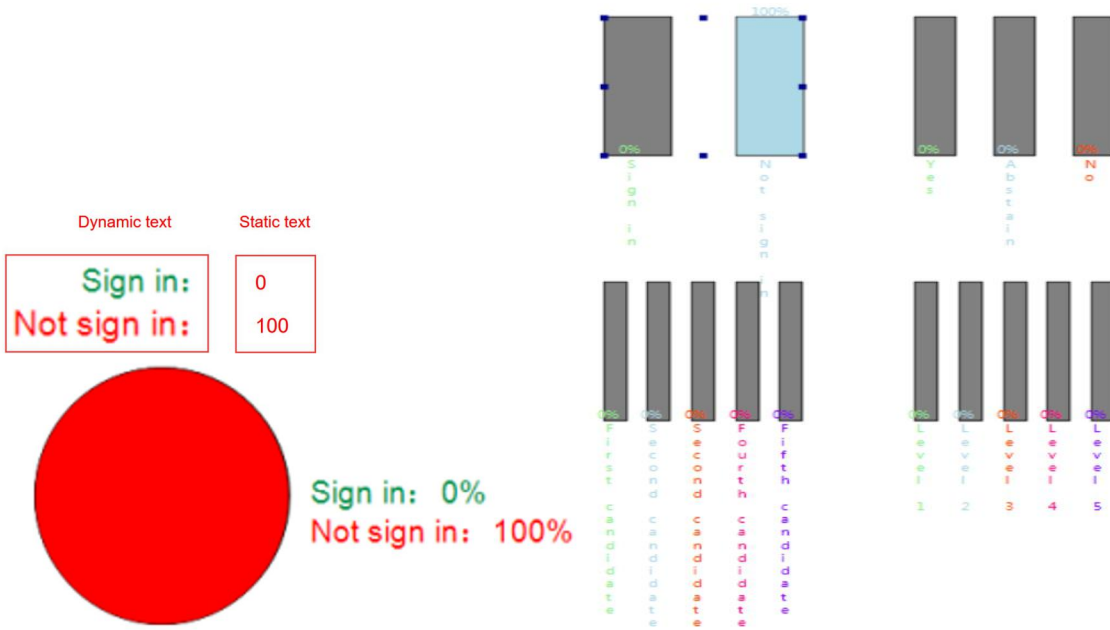
### 2) Dynamic text management



Right-click the dynamic text in the canvas to open its right-click menu.

Font design: modify the properties of the display font, including font size, font name, font color, etc.

Font type: The element type of dynamic text binding. As shown in Figure 1-14.



It can cooperate with static text and bar chart or pie chart to complete, and the dynamic statistical result of conference voting and sign-in is visually displayed in real time.

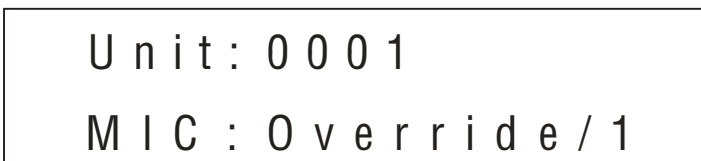
## 6. Debugging

Generally, we don't need to set the host and unit. After the system is connected, the conference system can be used. The current time can be displayed on the unit. After the host is connected to the audio system, there is sound output.

1. Adjust the main volume knob on the front panel of the conference host, control the output gain, cooperate with the peripheral equipment, and achieve the pickup distance required by the project on the premise of preventing howling.
2. Engineers can set the conference mode and the maximum number of microphones according to the needs of the venue. For other settings, please refer to the operation manual.

When we turn on the conference processor, the initialization information of "initializing..." will be displayed on the screen. After 3 seconds, the main screen menu will be displayed.

Main screen



The content displayed on the main screen is as shown in the figure above, including the number of conference

microphones connected online (0001~4000), the current conference discussion mode: Override first in first out, Voice, Open, Apply, the maximum number of addressers in the representative unit: 1, 2, 4, 6

One chairman unit can be turned on when 1 and 2, and two chairman units can be turned when 4 and 6.

Take setting the maximum number of microphones as an example. The conference mode setting is the same.

1. Press the "Enter" button from the main screen to get the following menu.

```

M e n u
- > M I C M o d e

```

2. Press '▽' button to select the maximum number of microphones on menu Active MIC

```

M e n u
- > A c t i v e M I C

```

3. Press the 'Enter' button to enter the menu

```

A c t i v e M I C : 1
- > 1   2   4   6

```

4. Press '▽' button to select the parameter '6'

```

A c t i v e M I C : 1
   1   2   4 - > 6

```

5. Press 'ENTER' to confirm the current parameter '6' and make the parameter take effect. It will be displayed as ActiveMIC:6

```

A c t i v e M I C : 6
   1   2   4 - > 6

```

6. Press "ESC" to return to the main screen.

```

U n i t : 0 0 0 1
M I C : O v e r r i d e / 1

```