CLEACON
Full Digital Network DSP Conference system

User Manual
V1.3.9 Version

VISSONIC ELECTRONICS LIMITED

The meaning of symbols

■   Safety instructions

For your safe and correct use of equipments, we use a lot of symbols on the equipments and in the manuals, demonstrating the risk of body hurt or possible damage to property for the user or others. Indications and their meanings are as follow. Please make sure to correctly understand these instructions before reading the manual.

⚠	This is A level product, which may cause radio interference in the living environment. In this case, users may need to take the feasible measures to get around the interference.
⚠	Remind users that the dangerous voltage without insulation occurring within the equipment may cause people suffer from shock
CE	CE certification means that the product has reached the directive safety requirements defined by the European Union. Users can be assured about the use of it
SGS	SGS certification means that the product has reached the quality inspection standards proposed by the world's largest SGS.
TÜV CERT ISO9001:2000	This product passed the ISO9001 international quality certification (certification body: TUV Rheinland, Germany).
⚠CAUTION⚠ DO NOT OPEN RISK OF ELECTRIC SHOCK	Warning: in order to avoid electrical shock, do not open the machine cover, nor is the useless part allowed to be placed in the box. Please contact the qualified service personnel.

■   General information instructions

💡	It lists the factors leading to the unsuccessful operation or set and the relevant information to pay attention to

Important note

⚠ **Warning**

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance:

The matters needing attention of installation

◆ Please do not use this product in the following places: the place of dust, soot and electric conductivity dust, corrosive gas, combustible gas; the place exposed to high temperature, condensation, wind and rain; the occasion of vibration and impact . Electric shock, fire, wrong operation can lead to damage and deterioration to the product, either;

◆In processing the screw holes and wiring, make sure that metal scraps and wire head will not fall into the shaft of controller, as it could cause a fire, fault, or incorrect operation;

◆When the installation work is over, it should be assured there is nothing on the ventilated face, including packaging items like dust paper. Otherwise this may cause a fire, fault, incorrect operation for the cooling is not free;

◆Should avoid wiring and inserting cable plug in charged state, otherwise it is easy to cause the shock, or electrical damage;

◆The installation and wiring should be strong and reliable, contact undesirable may lead to false action;

◆For a serious interference in applications, should choose shield cable as the high frequency signal input or output cable, so as to improve the anti-jamming ability of the system.

Attention in the wiring

◆Only after cutting down all external power source, can install, wiring operation begin, or it may cause electric shock or equipment damage;

◆This product grounds by the grounding wires .To avoid electric shocks, grounding wires and the earth must be linked together. Before the connection of input or output terminal, please make sure this product is correctly grounded;

◆ Immediately remove all other things after the wiring installation. Please cover the terminals of the products cover before electrification so as to avoid cause electric shock.

Matters needing attention during operation and maintenance

◆Please do not touch terminals in a current state, or it may cause a shock, incorrect operation;

◆Please do cleaning and terminal tighten work after turning off the power supply. These operations can lead to electric shock in a current state;

◆Please do the connection or dismantle work of the communication signal cable , the expansion module cable or control unit cable after turning off the power supply, or it may cause damage to the equipment, incorrect operation;

◆ Please do not dismantle the equipment, avoid damaging the internal electrical component;

◆Should be sure to read the manual, fully confirm the safety, only after that can do program changes, commissioning, start and stop operation;

Matters needing attention in discarding product

◆Electrolytic explosion: the burning of electrolytic capacitor on circuit boards may lead to explosion;

◆ Please collect and process according to the classification, do not put into life garbage;

◆Please process it as industrial waste, or according to the local environmental protection regulations.

Version

Version	Update	Date
1.3	2.2 Extension Main Unit VIS-EXM 9 2.4 Connection Box 10 5.7 CONTROL 19 6.1.5 Camera Setup&Example 28	2017.1.18
1.3.1	6.1.2 Zone Setup 25	2017.2.6
1.3.2	5.3 Audio outputs 18	2017.2.7
1.3.3	6.1.5 Camera Setup&Example 28(Change the flow diagram)	2017.3.11
1.3.4	Add WIFI model, flush model	2017.6.21
1.3.5	6.3Configure the AP 7.5 Default setting	2017.6.27
1.3.6	Update manual for AP	2020.4.8
1.3.7	COM port definition connection	2020.7.17
1.3.9	Adding menu and POE	2022.4.22

Content

1. About this manual

This manual introduce about the conference system family, how to use and install it in the common way and how to control it in commands. We insist you reading the **SAFETY INSTRUCTIONS** and **QUICK START** before using it. In most of our user manual, we are putting important note, instructions and hints in frames of different color, please pay attention to those symbols.

> **NOTE:** Those information is the supplementary explanation to the contents, usage or glossary

> **CAUTION**: Avoid improper operations to damage the product or third party devices

Safety Instructions

Avoid plug in power connector with power on, otherwise will lead to electric shock, or cause damage to the circuit

Installation and wiring must be solid and reliable, otherwise it may result in malfunction on device.

Make sure the device has been well connected to the ground before using

Do not touch the terminals while power on, or may cause electric shock, malfunctions

Do not disassemble the equipment without permission, to avoid damage to the internal electrical components and will void the warranty.

The user manual give the installers and operators the guide to install, configure and operate the CLEACON system.
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2. System Overview

The CLEACON system is based on the AUDIO-LINKTM audio distribution & processing technology and WiFi 2.4G/5G Hz technology. The system is combined with wired CAT5 and wireless units and can be used for voting and PC software control.
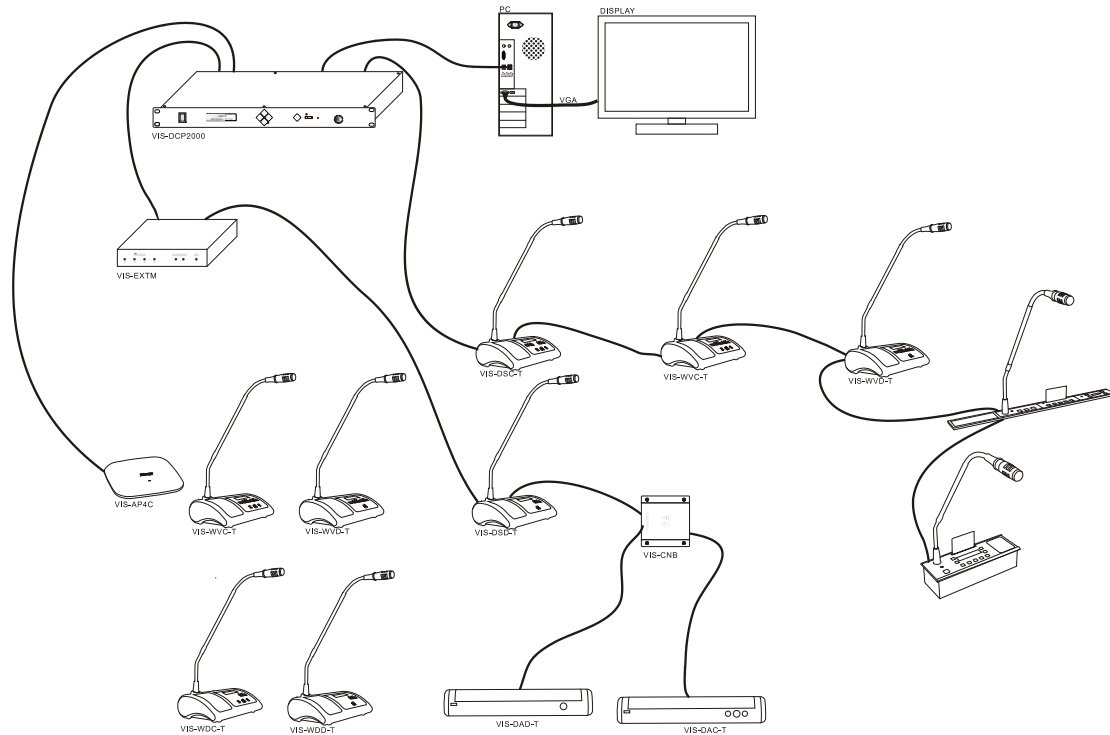
Figure 2.1 CLEACON system overview

The CLEACON system comprises:
- ✓ Full Digital Networked DSP Processor VIS-DCP2000
- ✓ Extension Main Unit VIS-EXM
- ✓ 2.4GHz/5GHz Conference Access Point VIS-AP4C
- ✓ Splitter Box VIS-CNB
- ✓ Digital Array Microphone with channels selector Chairman/Delegate Unit VIS-ACC-T/VIS-ACD-T
- ✓ Digital Array Microphone Chairman/Delegate Unit VIS-DAC-T/VIS-DAD-T
- ✓ CAT5 Digital Discussion Chairman/Delegate Unit VIS-DCC-T/VIS-DCD-T
- ✓ CAT5 Digital Voting Chairman/Delegate Unit with Channel Selector VIS-DVC-T/VIS-DVD-T
- ✓ CAT5 Dual Channels Chairman/Delegate Unit VIS-DSC-T/VIS-DSD-T
- ✓ CAT5 Digital Flush-mounting Discussion Chairman/Delegate Unit VIS-DCC-F/VIS-DCD-F and VIS-DCC"-FS"/VIS-DCD"-FS"
- ✓ CAT5 Digital Flush-mounting 64 Channels Selector Unit VIS-CSU-F
- ✓ CAT5 Digital Conference System Flush-mounting Voting Unit VIS-DVU"-FS"1and VIS-DVU"-FS"2

✓ Flush-mounting Speaker Unit VIS-SPK-F

✓ Flush-mounting Chairman/Delegate Unit with Voting and Channel Selector
VIS-FFC-F1/VIS-FFD-F1 and VIS-FFC-F2/VIS-FFD-F2

✓ Wireless Digital Discussion Chairman/Delegate Unit VIS-WDC-T/VIS-WDD-T

✓ Wireless Digital Voting Chairman/Delegate Unit VIS-WVC-T/VIS-WVD-T

2.1 Full Digital Networked DSP Processor VIS-DCP2000

This processor control all the units in the chain, and supply power to all. You can configure it by the button on front panel with screen information.

Figure 2.2 Front and rear view of VIS-DCP2000

On front panel, the processor unit contains:
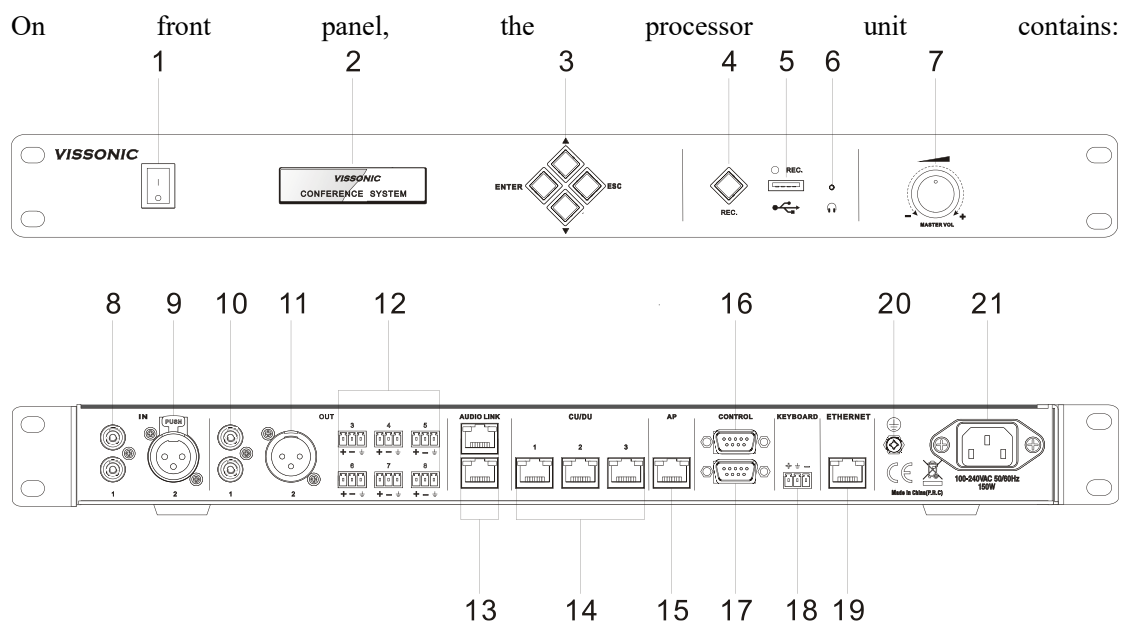
1. **Power Switch**- Power on or off the processor unit
2. **Display**- Show the current status or the result of your operation, menu list etc.
3. **Operate Buttons**- 4-direction buttons for menu operation, confirm and exit
4. **Audio Recording**- Press to start/stop recording the audio of whole conference content
5. **USB Slot**- To insert USB disk (Up to 32G) for recording, with status light indicator which is flashing during the recording.
6. **Headphone Socket**- Headphone connection
7. **Knob**- Control volume level of the system

On rear panel, the processor unit contains:

8. **Audio Inputs(IN 1)**- RCA audio input from external audio sources like MP3

9. **Audio Inputs(IN 2)**- XLR audio input from external audio sources like Microphone and remote audio input

10. **Audio Outputs(OUT 1)**- RCA audio output to external audio devices like PA system, loudspeakers etc and can be set as zone output.

11. **Audio Outputs**- XLR audio output to external audio devices like PA system, loudspeakers etc. and can be set as zone output.

12. **Audio Outputs(OUT3,OUT4,OUT5,OUT6,OUT7,OUT8)**- Phoenix audio output.OUT3,OUT4 can be set as zone output. OUT4 also can be set as echo cancellation remote audio output. OUT5,OUT6,OUT7,OUT8 is corresponding to the interpretation CH 1, CH2,CH3,CH4.

13. **Audio Link-**Extend to the next processor for conference room combination and audio exchange.

14.**CU/DU-** It is used to connect delegate unit, chairman unit, translation unit or POE speaker. Ring connection can be made between port 1 and port 2 or between port 2 and port 3..

15.**AP-** connect to 2.4GHz/5GHz Professional Conference Access PointVIS-AP4C

16.**Control**-Female DP9 connector is used to connect with camera auto-tracking processor or control system

17.**Control**-Male DP9 connector is used to connect with the camera chains.

18.**Keyboard-**Connect to the camera control keyboard

19.**Enthernet**-Connect to PC or switch for the software control

20.**Ground screw-**Connect the processor unit to the ground

21.**Power inlet**-Connect the processor unit to the main power supply with a power cable.

VISSONIC Conference Controller Compare Sheet

Model	VIS-DCP2000-D	VIS-DCP2000-W	VIS-DCP2000-R	VIS-DCP1000-D
Picture / Features				
DSP processor	●	●	●	
Wired mic	●	●		●
Wireless mic		●		
Array microphone			●	
Audio output	1*RCA, 1*XLR, 6*Phoenix			1*RCA, 1*XLR, 1*Phoenix
Discussion	●	●	●	●
Vote	●	●	●	
Interpretation	●	●	●	
USB record	●	●	●	●
Camera tracking	●	●	●	●
OLED screen	●	●	●	
Ethernet control	●	●	●	●

2.2 Extension Main Unit VIS-EXM

The extension main unit is used to extend the system to connect more delegate/chairman units.
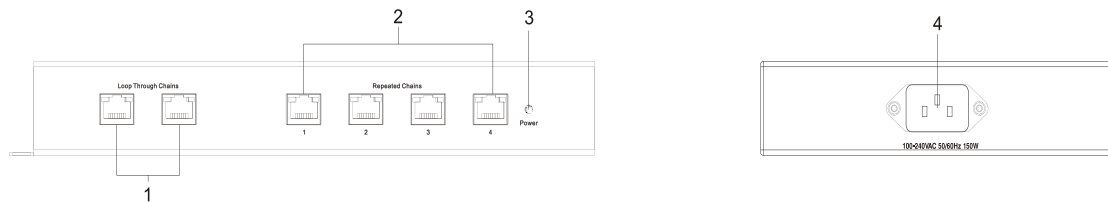
Figure 2.3 Front and side view of VIS-EXM

1. **Loop Through Chains**-Connect with processor unit/last extension unit and next extension unit.

2. **Repeated Chains**-Provide 4 channels for delegate/chairman units.

3 **Power indicator**--Indicate status of the power inlet connection.

4.**Power inlet**-- Connect the extension unit with power cable.

2.3 2.4/5GHz Conference Access Point VIS-AP4C
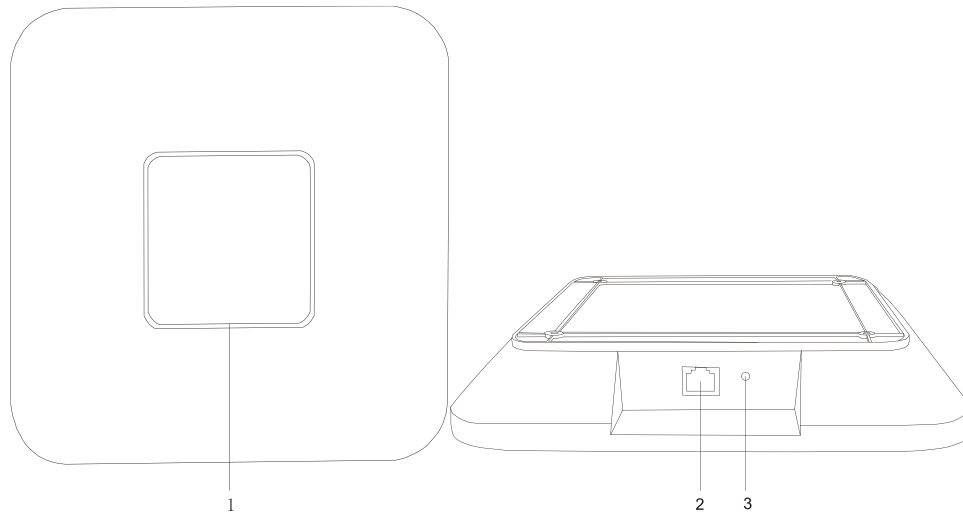
Figure 2.5 Top and front view of VIS-AP4C

1. Working signal indicator -- When the AP is connected with power, it will be static blue light. When AP is communicating, the indicator is flashing.

2. Network port --connect to the AP port of processor unit or POE switch.

3.Reset button

NOTE: The switch do **NOT** recommend to other devices, only connected with the main unit VIS-DCP2000 and max. 8 pieces of VIS-AP4C.

2.4 Splitter Box VIS-CNB
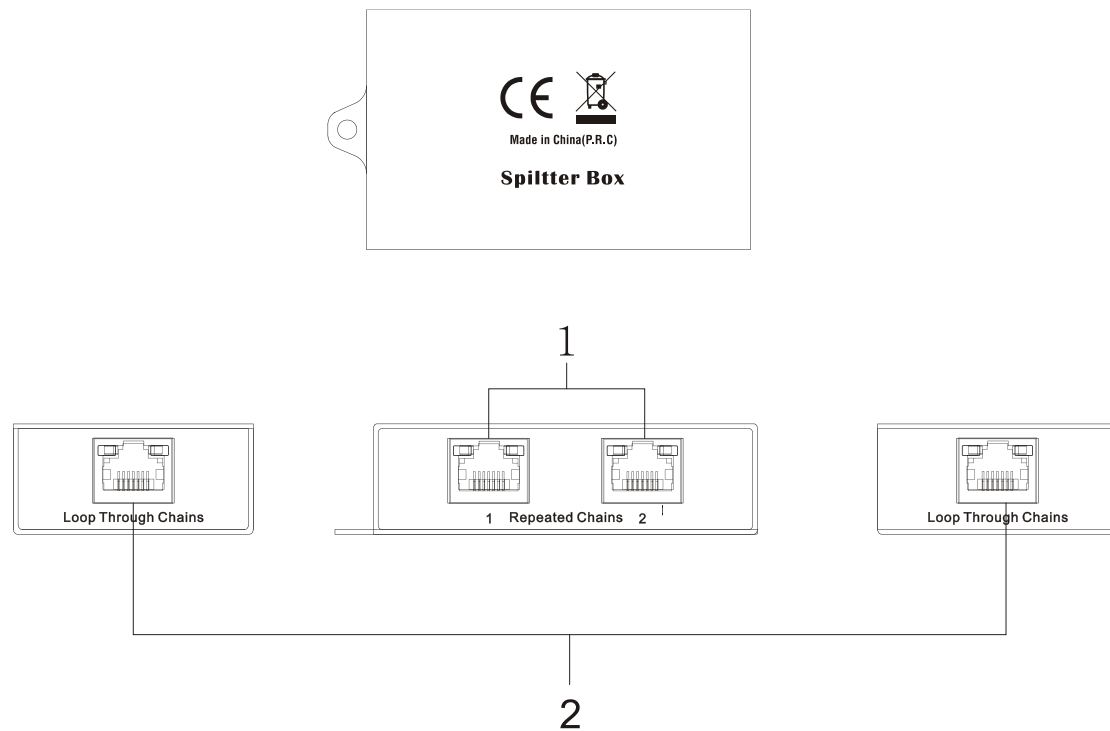
Figure 2.4 Front, rear and top view of VIS-CBN

1. Repeated Chains -- spilt two chains for delegate/chairman units

2. Loop Through Chains --connect to the processor unit, extension unit or loop to next connection box

2.5 CLEACON Digital Networked Delegate/Chairman Unit-Table models

With the discussion units(wired and wireless),the delegates can make contribution to a conference.

VIS-DCD-T / VIS-WDD-T

VIS-DCC-T / VIS-WDC-T

VIS-DVD-T

VIS-DVC-T
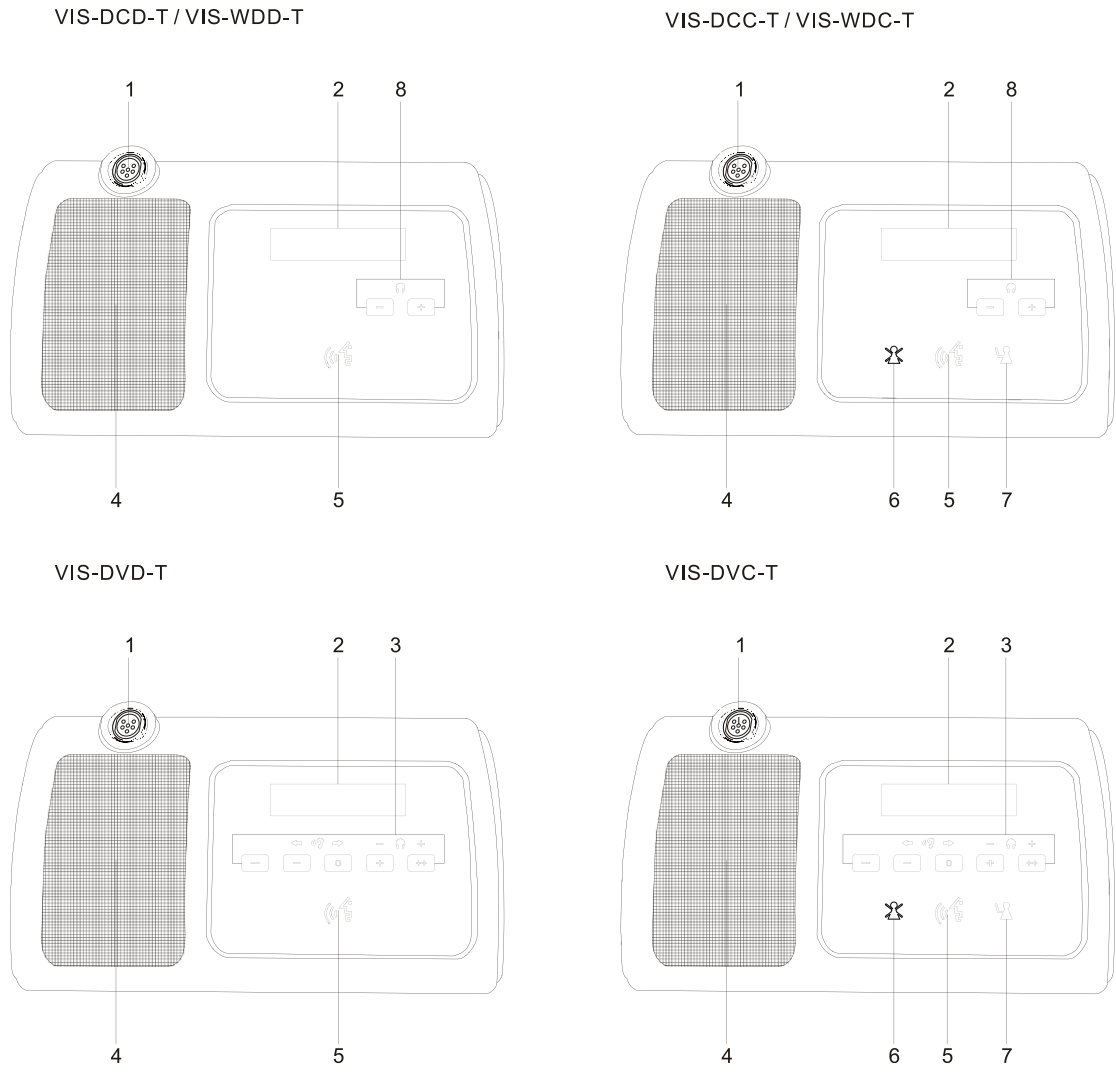
Figure 2.5   Top view of   wired and wireless unit (1)

VIS-DID-T

VIS-DIC-T

VIS-DSD-T

VIS-DSC-T

VIS-WVD-T

VIS-WVC-T
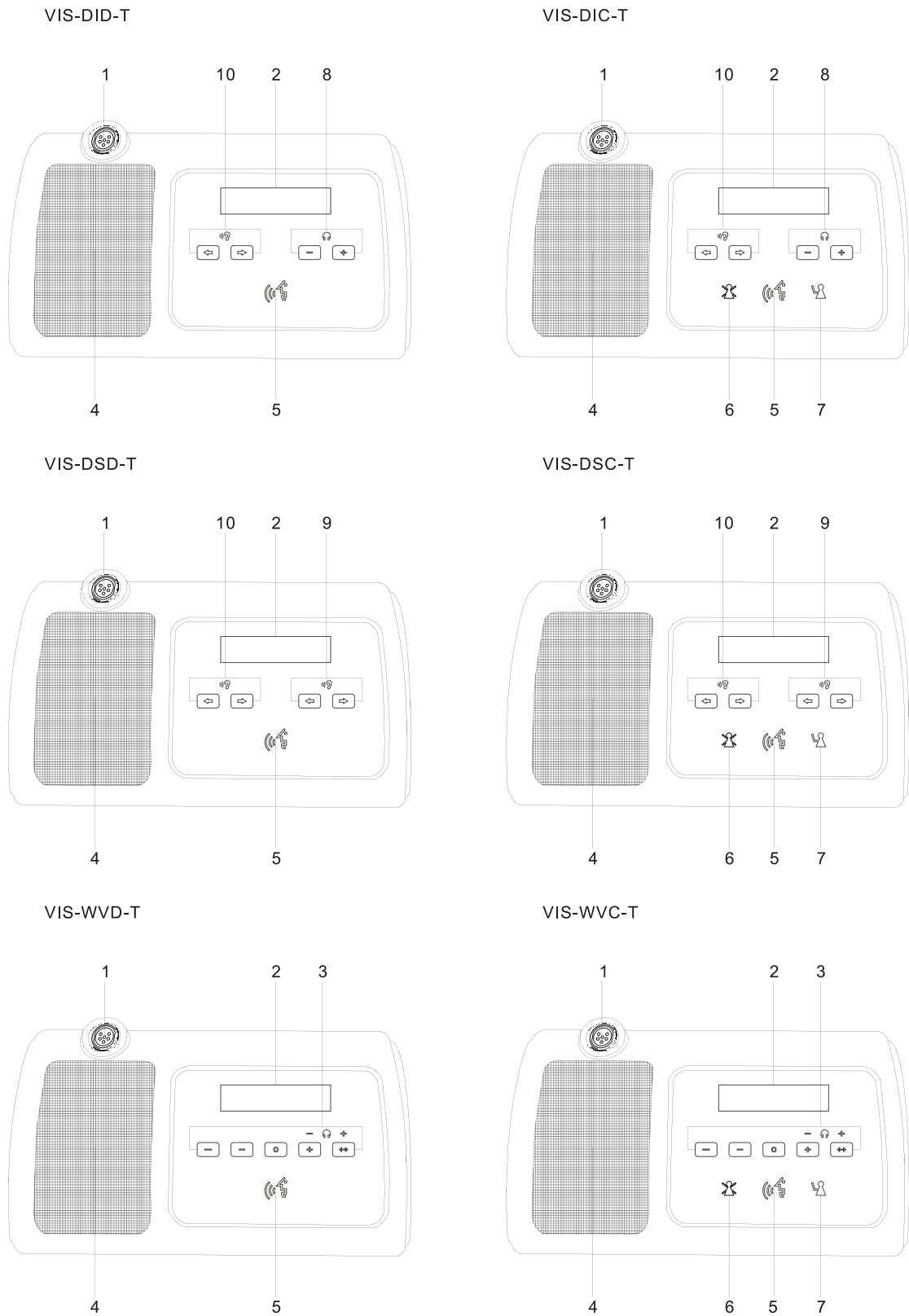
Figure 2.6　Top view of　wired and wireless unit (2)

11 12 13

12
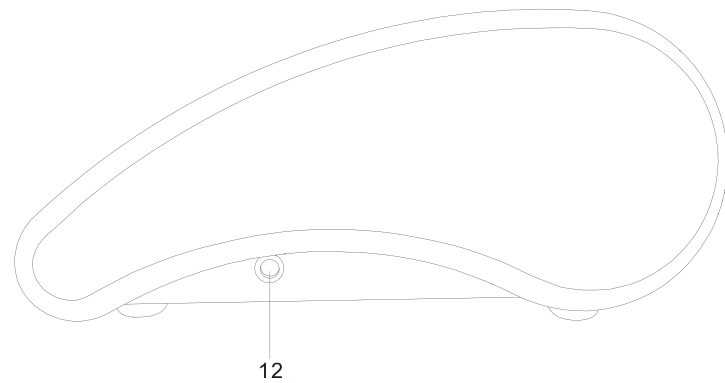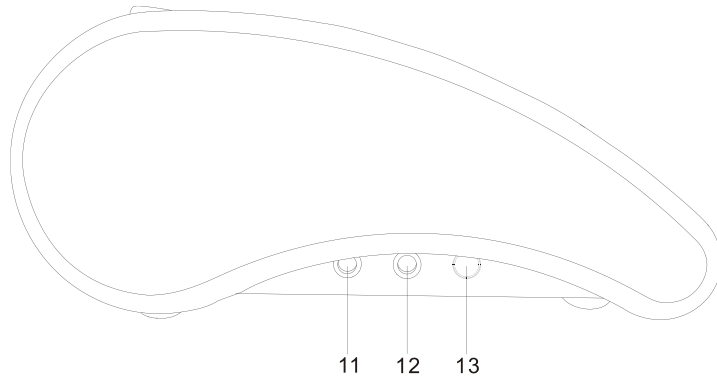
Figure 2.7   Side view of wired or wireless unit
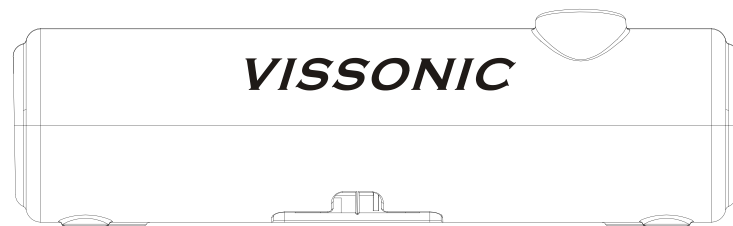
Figure 2.8   Side view of wired unit

Figure 2.9   Side view of wireless unit
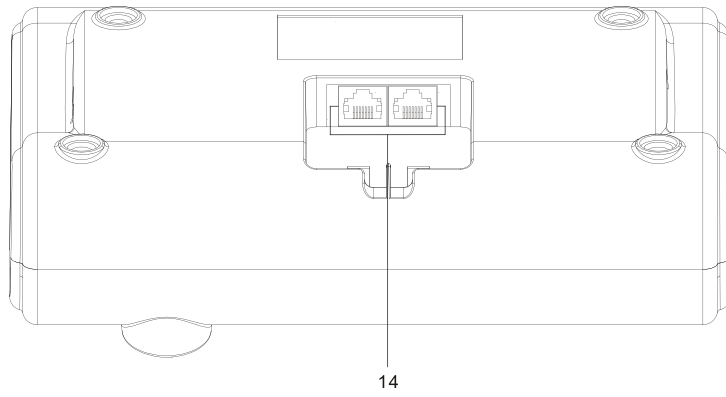
Figure 2.10   Bottom view of wired unit
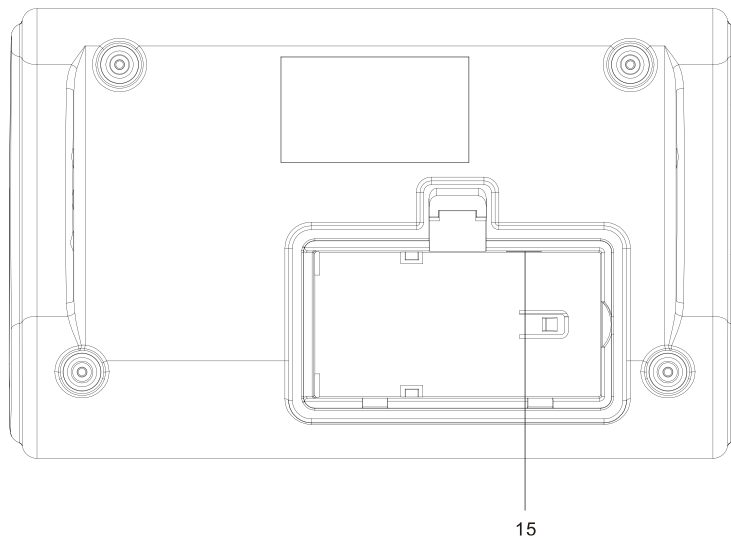
Figure 2.11   Bottom view of wireless unit (1)
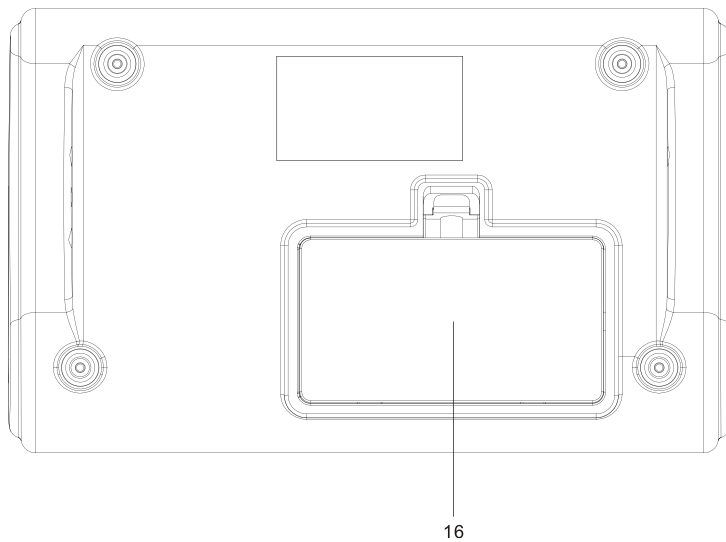
Figure 2.12   Bottom view of wireless unit (2)

1.**Microphone socket**-Connects a pluggable gooseneck microphone(VIS-M600,VIS-M410 or VIS-M330) to the discussion units.

2.**OLED display**-Display the MIC status, volume bar, interpretation channel, voting information, speaking time, clock and date.

3.**5 multi-function keys**- Apply the voting, volume adjustment for headphones, channel selector to select the channel that is sent to the headphone.

4.**Loudspeaker**-Gives the audio signal from the floor to the delegate,when the microphone is enabled, the signal of the loudspeaker is muted.

5.**Microphone button-**Enables or disables the microphone. The microphone button has a LED that shows the condition of the microphone.

6.**Clear button**-clear/deactivate all active delegate microphone or mute the system.

7.**Approval button**-Approve the applying microphone to be enabled under the apply mode and work as mute while pressed clear button.

8.**Volume button**-Adjust the earphone volume.

9.**Right channel selector**-Selects the channel that is sent to the right headphones.

10.**Left channels selector**-Selects the channel that is sent to the left headphones.

11.**Line-in socket-**Connect the microphone, mobile phone or other audio source to imput the audio from the contribution units.

12.**Headphone socket**-Headphone connection.

13.**Power switch**-Power switch for the wireless conference unit.

14.**CU/DU socket**-Makes a loop-through in the CEALCON system with the discussion unit.

15.**Power supply socket** - Connects a power supply adapter to the wireless discussion unit.

16.**Battery pack compartment** - Contains the battery pack (VIS-WBTY1) of the wireless discussion unit.

2.6 CLEACON Modular Flush-mounting models

VIS-DCC-F/VIS-DDC-FS

VIS-DCD-F/VIS-DCD-FS

VIS-CSU-F

VIS-DVU-FS1

VIS-SPK-F

VIS-DVU-FS2
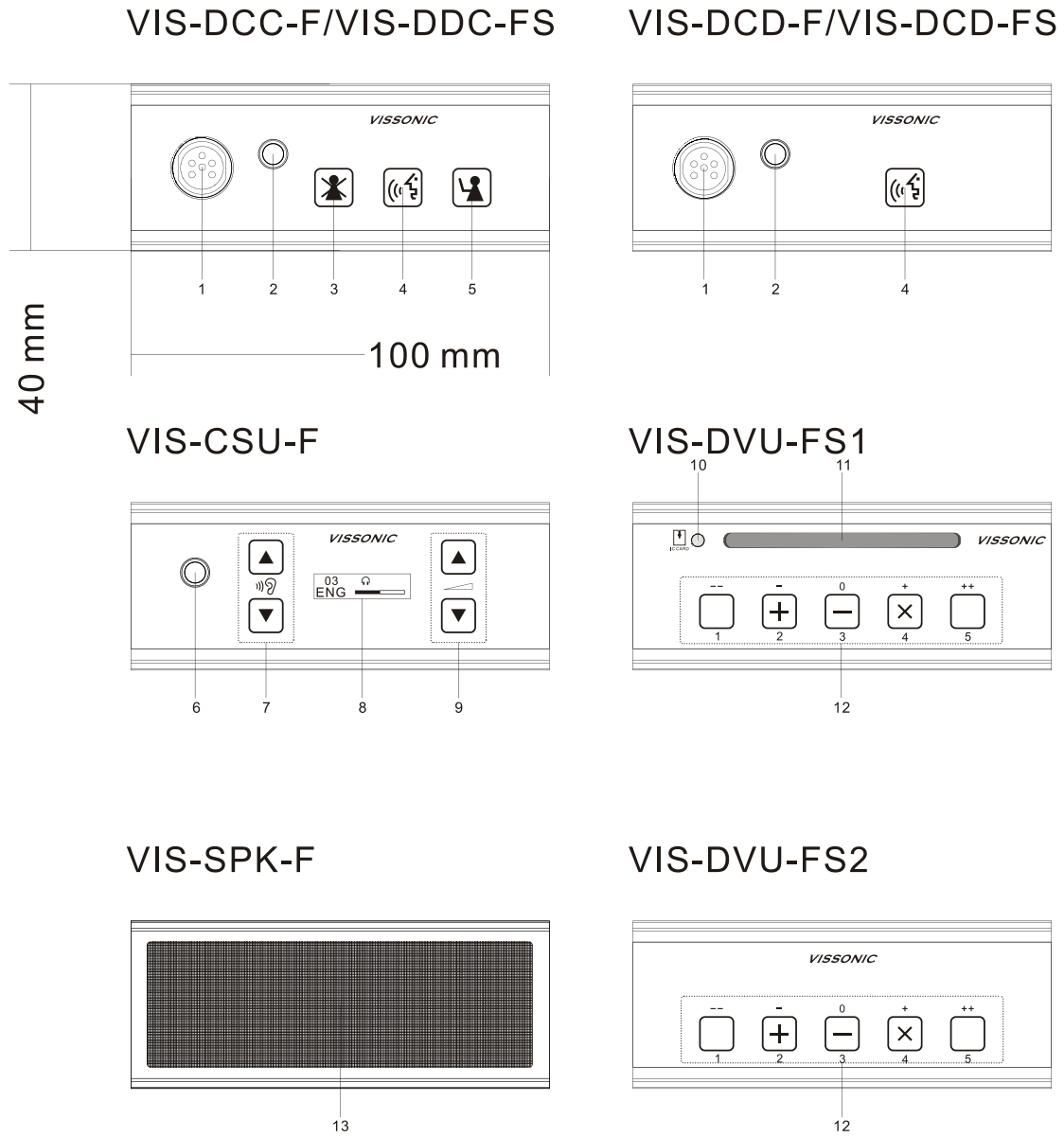
Figure 2.13   Top view of modular flush mounting units

VIS-DCC-F/VIS-DCD-F/VIS-CSU-F   VIS-DCC-FS/VIS-DCD-FS

VIS-SPK-F   VIS-DVU-FS1/VIS-DVU-FS2
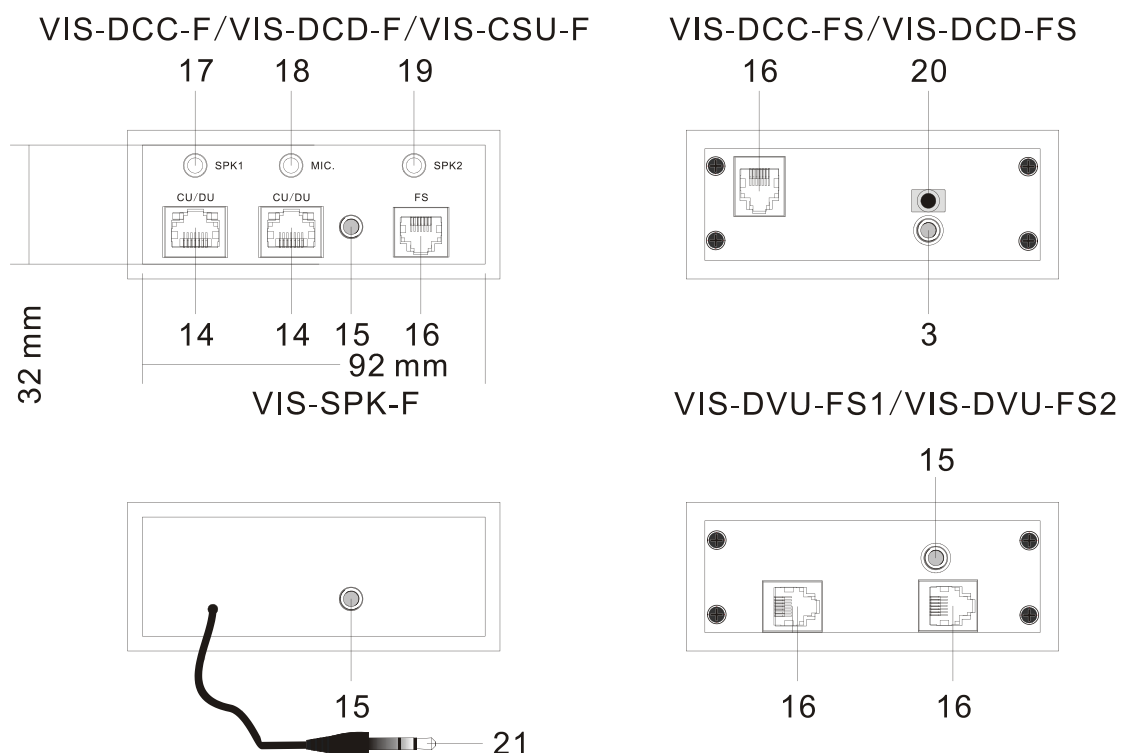
Figure 2.13   Rear view of modular flush mounting units

1. Gooseneck microphone socket

2. 3.5mm earphone socket

3. Priority button on chairman unit

4. Mic on/off button

5. Approval button

6. earphone for interpretation channel

7. Interpretation channel selecting button

8. Display for interpretation channel

9. Volume control button for interpretation

10 IC card sign-in indicator

11. IC card slot

12. key voting and multi function buttons

13. 2W high quality speaker

14. CU/DU port for connecting between model VIS-DCD-F,VIS-DDC-F,VIS-CSU-F and main unit, extension unit, connection box etc.

15. Screw hole for installation

16.FS bus for connecting model "-FS" unit

17. SPK1 port to connect the VIS-SPK-F for working with current unit.

18. MIC port --connect to the model VIS-DCC-FS or VIS-DCD-FS and get the MIC input from model VIS-DCC-FS or VIS-DCD-FS

19. SPK2 port to connect the VIS-SPK-F for working with the unit VIS-DCC-FS or VIS-DCD-FS which connecting to the current unit.

20. Connect to the MIC port on the model VIS-DCC-F, VIS-DCD-F or VIS-CSU-F unit

21.3.5mm audio cable on VIS-SPK-F speaker unit connect to the SPK1 or SPK2 port on the VIS-DCC-F, VIS-DCD-F or VIS-CSU-F unit

2.7 CLEACON Digital Networked Delegate/Chairman Unit- Array microphone
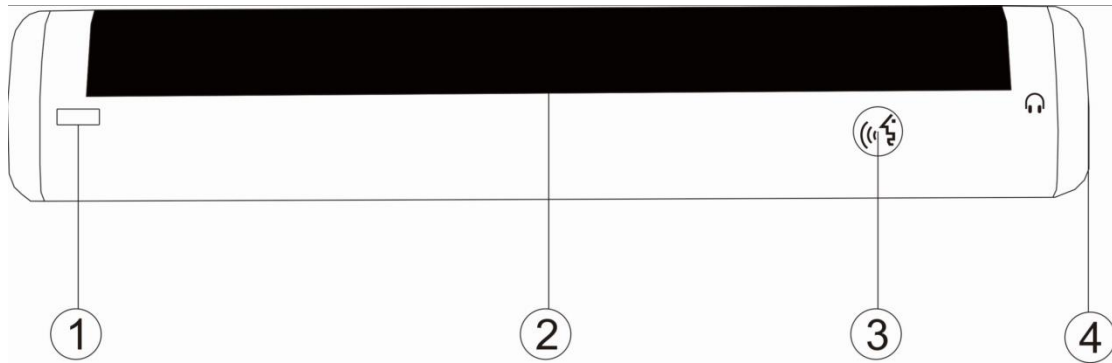
1. Power indicator, red represents working status
2. High hardness speaker net, built-in 17 high-pointing pickups
3. The switch button, the chairman unit long press to start the priority mode, you can turn off the representative unit
4. Headphone jack

5. Every two array units must be equipped with a VIS-CNB as a connection box, as shown in the following connection diagram
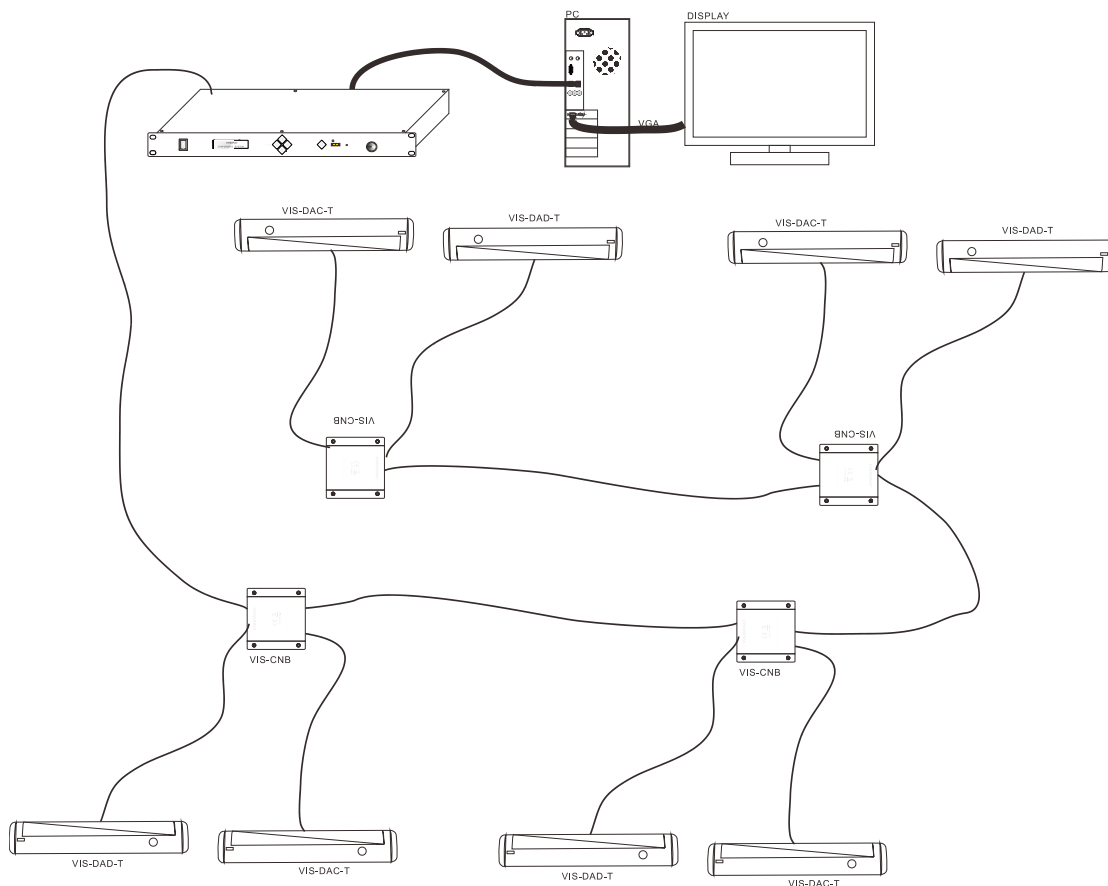
3.System Design and Plan

Before using our conference system, there are some basic points for you to plan/design a conference room.

The processor control unit is powered by 110V~220V wide range power supply, while it has a basic control capacity (with power relay devices it can load more devices). Here we list a basic capacity of active units for one processor control unit.

Model	Extension cable (m)	VIS-DCP2000				VIS-EXM				
		Port 1	Port 2	Port 3	Max. total	Port 1	Port 2	Port 3	Port 4	Max. total
VIS-DCC-T VIS-DCD-T	0m	30	30	30	90	30	30	30	30	120
VIS-DIC-T VIS-DID-T	05m	30	30	30	90	30	30	30	30	120
VIS-DVC-T	10m	28	28	28	84	28	28	28	28	112

VIS-DVD-T VIS-DSC-T VIS-DSD-T	20m	24	24	24	72	24	24	24	24	96
	50m	20	20	20	60	20	20	20	20	80
	100m	10	10	10	30	10	10	10	10	40

The capacity is decided by:

1. Number of active units in the system
2. Length of extension cable from the first delegate unit to VIS-DCP2000, or the first unit to the VIS-EXM

NOTE: Extension cable has direct effect on the control capacity. The longer and extension cable you use, the less power is available to drive the devices connected in the system. You must to choose the length of the extension cable exactly according to the practical situation.

4. Installation

4.1 Install in the 19'rack

The central unit can be installed in a standard 19-inch cabinet. The unit has standard accessories of a pair of installation supports. See the following diagram for installation:
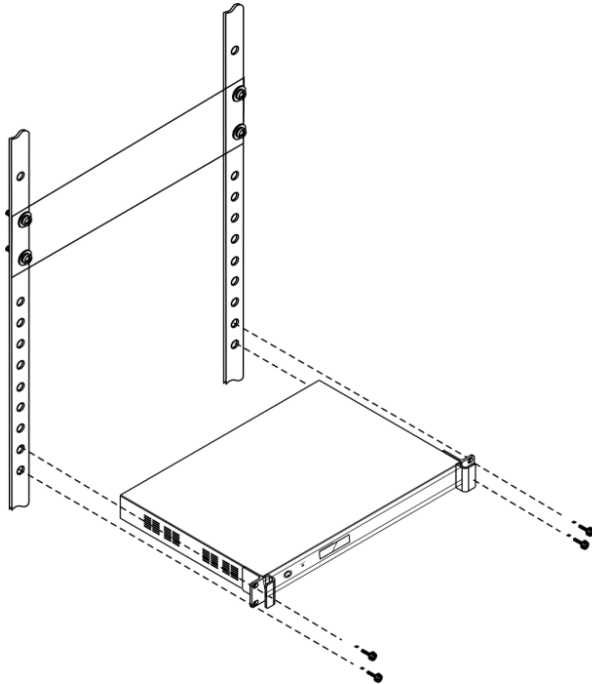
4.2 Install in the AP

The AP need to install in the same room as the MIC units. The AP can be wall-mounted or ceiling installation
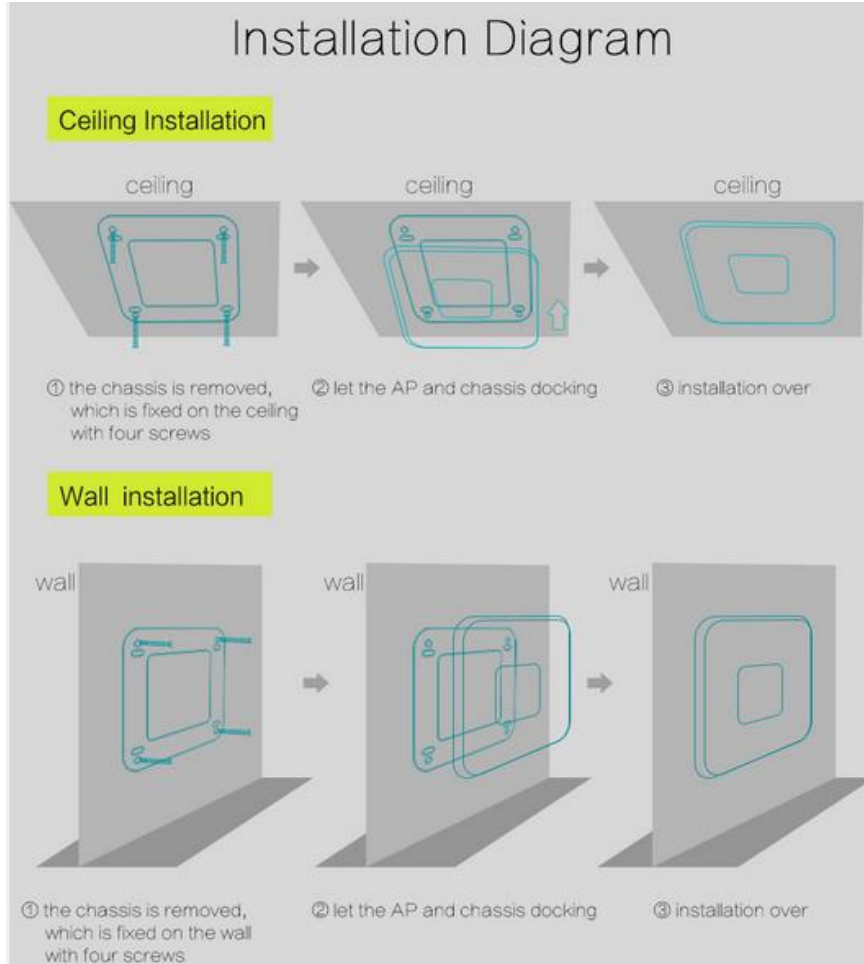
4.3 Install in the Flush unit

Installation steps:

1, open the desktop corresponding to the size;

2 install the embedded digital conference machine into the opened square hole of desktop;

3, install the fixing plate on pressure riveting screw under the machine;

4, fix the fixing plate with butterfly nut;

5, making M5X35 the butterfly screws go through   the fixing plate to lock with desktop, so as to fix the equipment. As below:
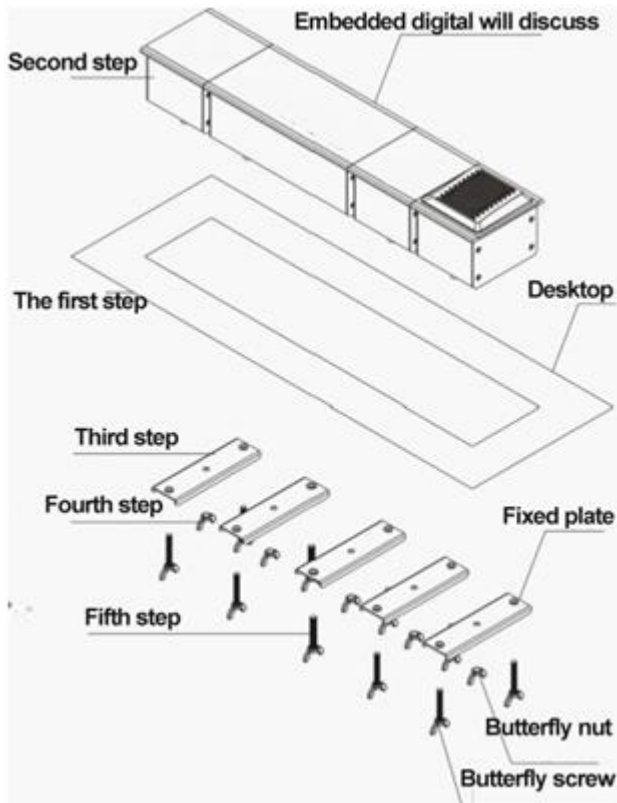
5. Connection

5.1 Power supply

To connect the processor control unit to main power firmly

100-240VAC 50/60Hz
150W
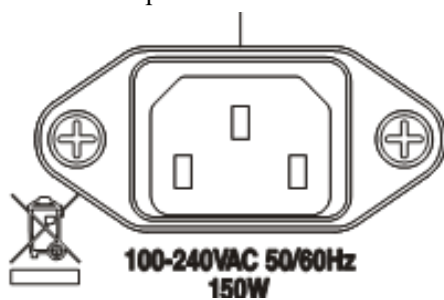
Figure 5.1

> **CAUTION**: Main power supply should well grounded, otherwise it may cause fatal incident

5.2 Audio inputs

The processor control unit provides RCA or XLR type audio input connector.
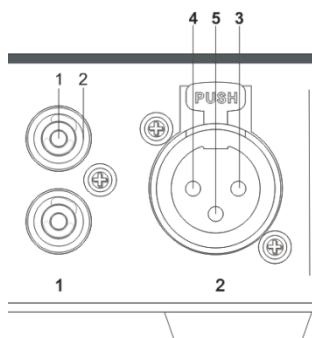
Figure 5.2 Audio input connection

Pin	Type	Signal	Description
1	Cinch	Live	Signal in
2		Return	Shield/Ground
3	XLR	Xternal	Shield/Ground
4		Live	Positive
5		Return	Negative

5.3 Audio outputs

The processor control unit provides RCA , XLR or phoenix type audio output connector
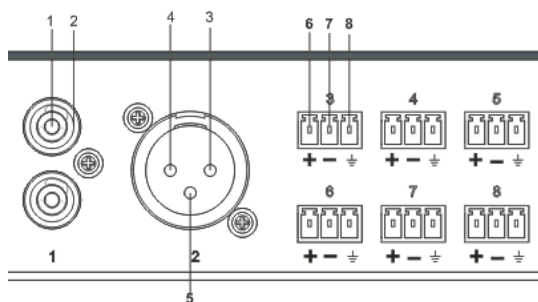
Figure 5.3 Audio output connection

Pin	Type	Signal	Description
1	Cinch	Live	Signal in
2		Return	Shield/Ground
3	XLR	Xternal	Positive
4		Live	Shield/Ground
5		Return	Negative
6	Phoenix	+	Positive
7		-	Negative
8		G	Shield/Ground

5.4 Audio Link
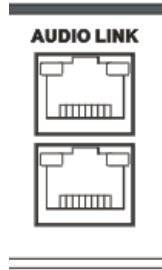
Use audio link socket to connect between the conference processor and use the VISSONIC tested CAT5E cable or better.

5.5 CU/DU
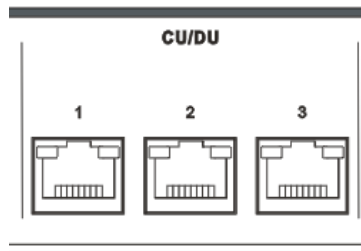
Use the CU/DU socket to connect to the chairman/delegate unit or extension main unit and use the VISSONIC tested CAT5E cable or better.

There are three connection ways available for CLEACON conference system.

1. Hand-in-Hand-Loop-Network is an important feature for CLEACON conference system. You can use this connection way to make the system more steady.
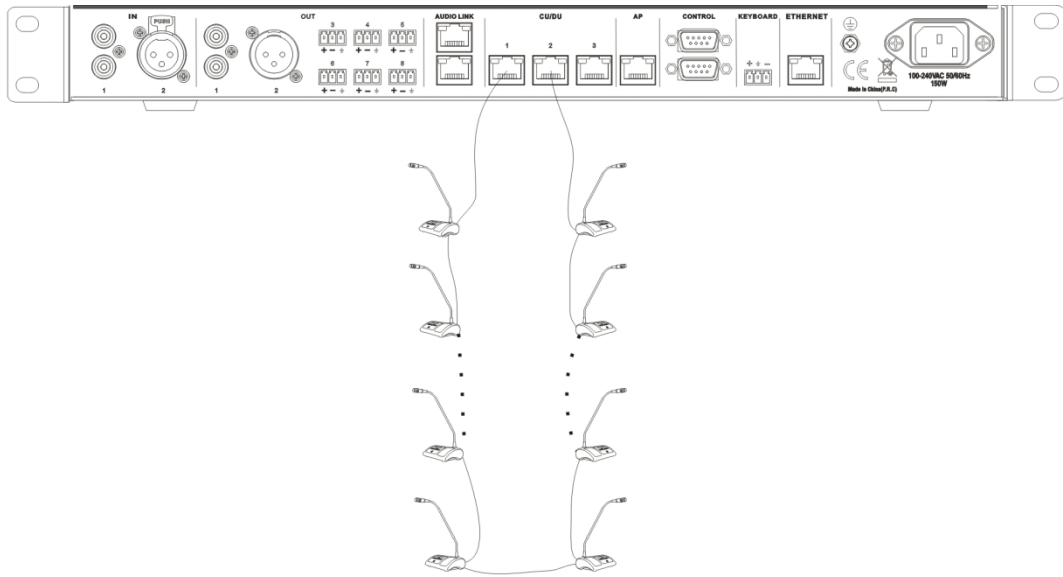
"Hand-in-Hand-Loop-Network" connection is only available between channel 1 and channel 2,or channel 2 and channel 3,but not valid between channel 1 and channel 3.

2.Hand in Hand Connection
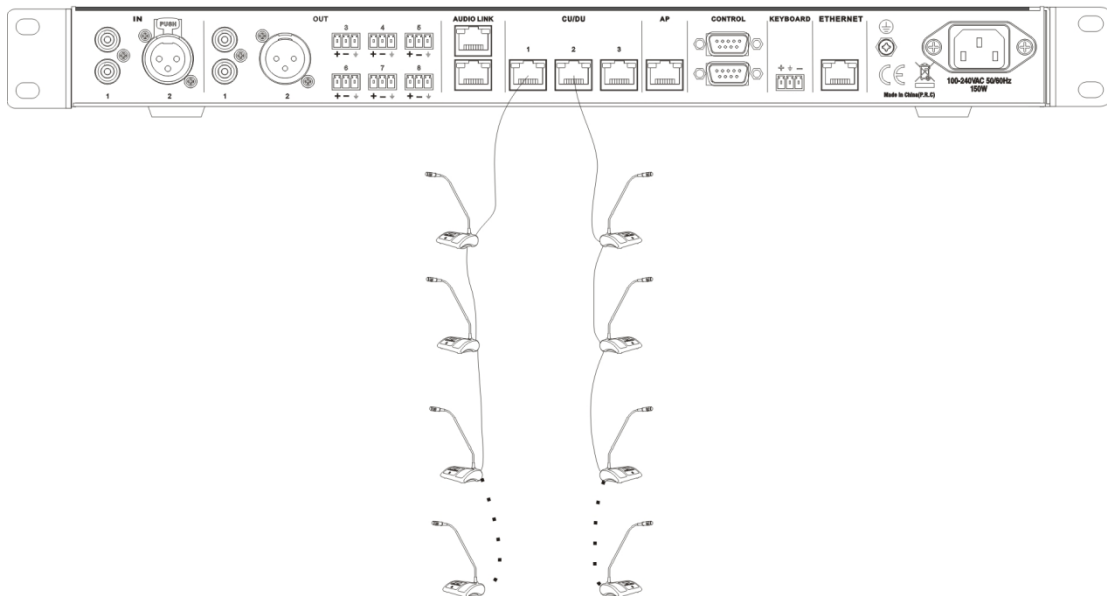
3.Hand in Hand Connection+ Hand-in-Hand-Loop connection
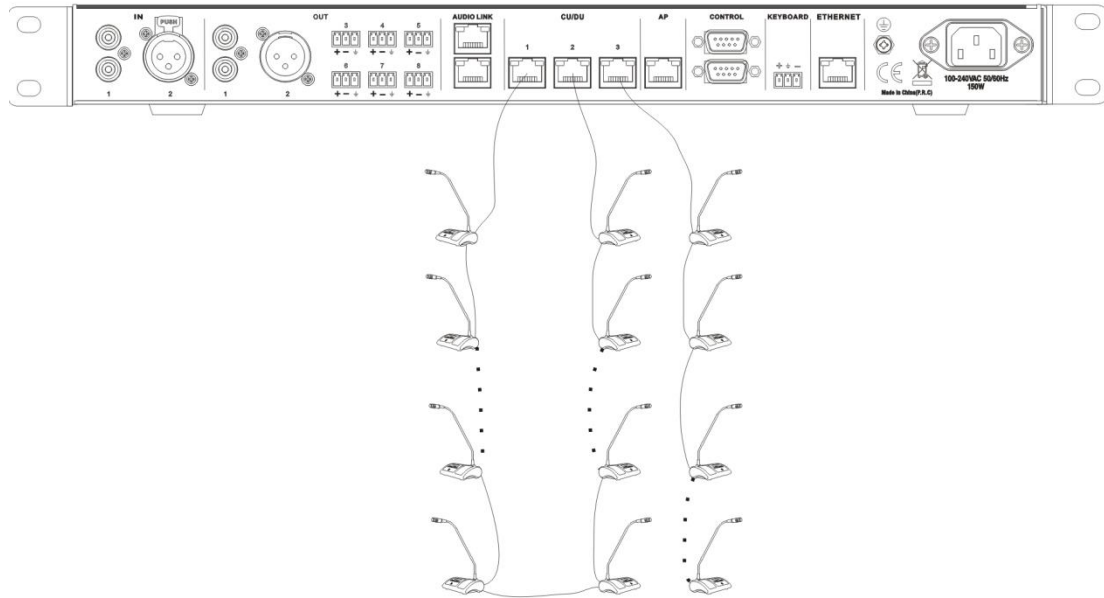
4.Connction box+ Hand-in-Hand-Loop connection
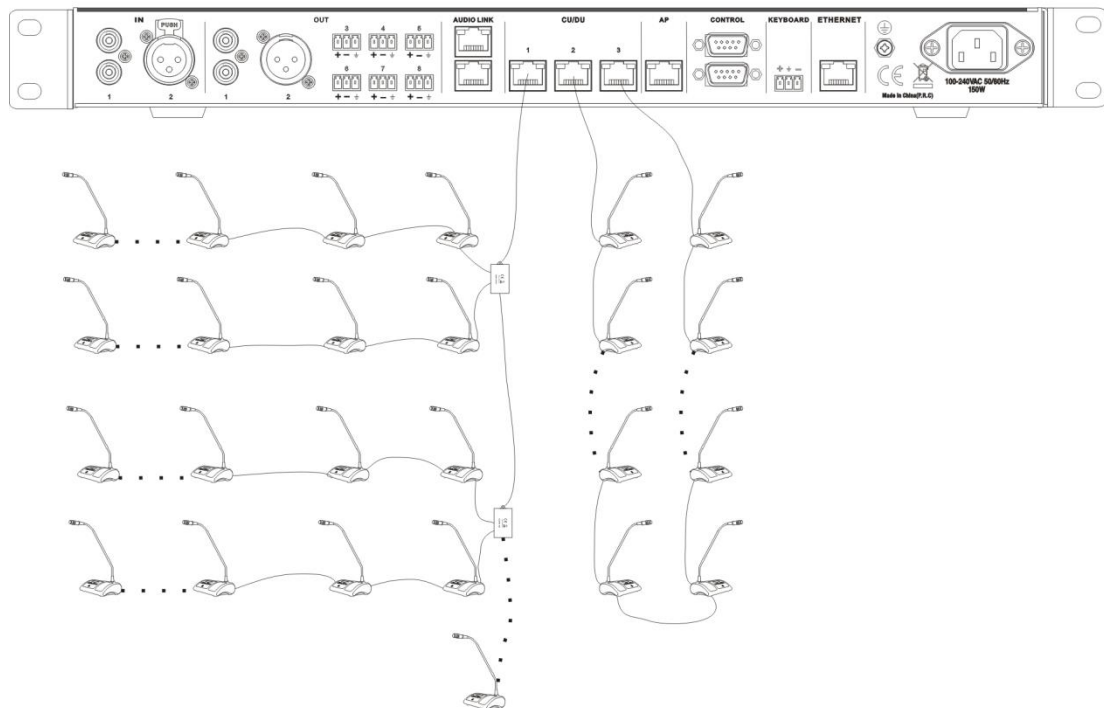
5.Extension Main Unit connection
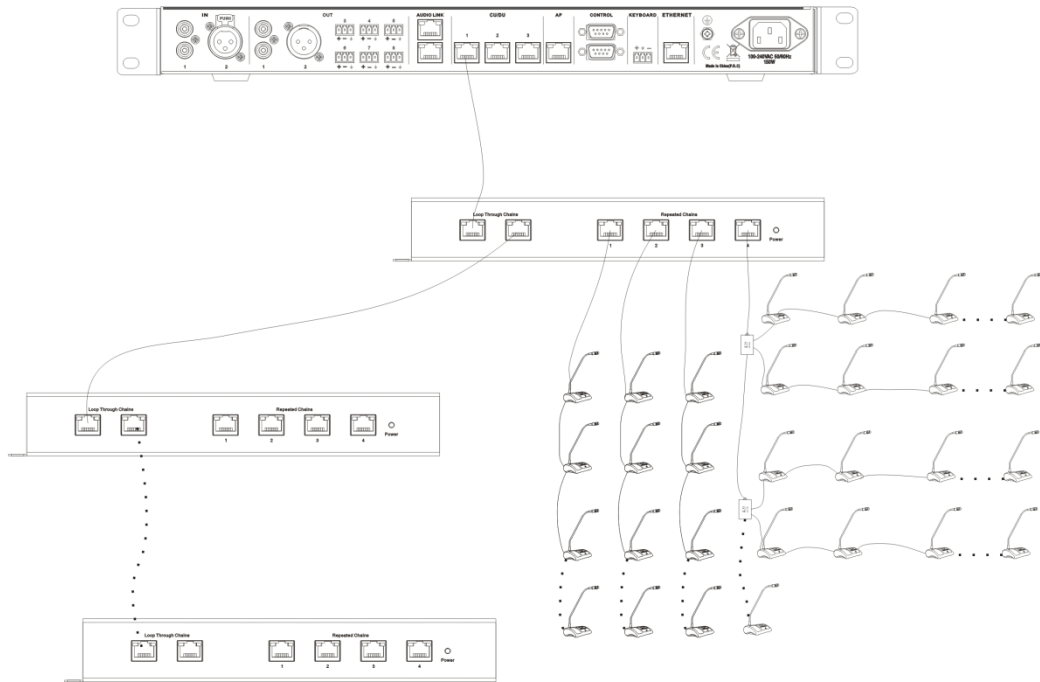
5.6 AP
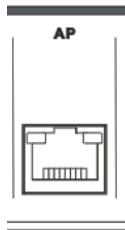
Use the AP socket to connect to the 2.4GHz/5GHz conference access point VIS-AP4C or switch(connected with VIS-AP4C)and use the CAT5 cable or better.

> **NOTE:** The switch do **NOT** recommend to other devices, only connected with the main unit VIS-DCP2000 and max. 8 pieces of VIS-AP4C.

5.7 CONTROL
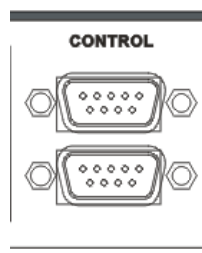
Full digital conference system can use a variety of control systems via RS-232 serial interface.

Upper COM connected to video switcher/matrix for camera tracking or connect to the central controller

The default switching command is

Baud rate：9600bps，parity：8，Stop：1

Command	Discription
1V1.	Switch the channel 1 to output
2V1.	Switch the channel 2to output
3V1.	Switch the channel 3 to output
4V1.	Switch the channel 4 to output
......	......
14V1.	Switch the channel 14 to output
15V1.	Switch the channel 15 to output
16V1.	Switch the channel 16 to output

If you need other commands is needed to tell us for update the firmware.

Bottom COM connected to cameras or HD camera auto tracking controller **VIS-MSDI**.

COM port pin is described as follows：
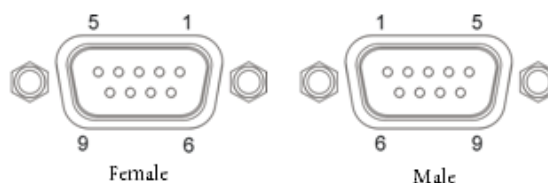
1. RS-232 (DB9 **female**/pin type) pin definition (upper port of controller)

Pin	Signal	Description
1	-	Null
2	TXD	sending data
3	RXD	Receiving data
4	-	Null
5	GND	Signal ground

6	-	Null
7	-	Null
8	-	Null
9	-	Null

2. RS-232 (DB9 **male**/pin type) pin definition (Lower port of controller)

Pin	Signal	Description
1	-	Null
2	RXD	Receiving data
3	TXD	sending data
4	-	Null
5	GND	Signal ground
6	-	Null
7	-	Null
8	-	Null
9	-	Null

5.8 KEYBOARD

KEYBOARD

Use the KEYBOARD socket to connect to the Camera controller with CAT5 cable.

5.9 ETHERNET

ETHERNET
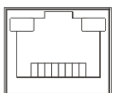
Use the ETHERNET socket to connect to the PC and use CAT5 cable or better.

6. Configuration

6.1 Configuration on the VIS-DCP2000-W

Use the configuration menu of the processor unit to configure the processor and the system.
Main screen

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

The screen will display as above picture, including the information of total unit quantity '0001' to '4000' , MIC mode 'Override, Voice, Open, Apply' and the maximum active number '1,2,4,6'.
Manu screen

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

The menu operation buttons '△' ,'▽','ENTER' and 'ESC' is used to browse the menu and set the parameter.
1. Press '△' ,'▽', 'ENTER' and 'ESC' to browse the menu(as the blue sign)
2. Browse to the green sign menu
3. Press '△' ,'▽' to adjust parameters and press the 'ENTER' to confirm the options.

The knob 'Master vol' is used to set the volume of master line out and the value directly display on the LCD. You can reference the bellowing menu structure to set the parameters

Meun	MIC Mode	Override,Open,Voice,Apply
	Active MIC	1,2,4,6

Volume	Line in	0 to -40 dB,Mute
	Line out	0 to -40 dB,Mute
	Remote in	0 to -40 dB,Mute

DSP	Enable	On/Off

DSP1	AFC-ANC	6dB,12dB,18dB,24dB,Off
	AFC Enable	On/Off
	AFC-Lever	1,2,3,4,5
	AEC Enable	On/Off
	AEC-ANC	3dB,5dB,7dB,9dB,11dB,13dB,Off

Zone	Out 1	ID zone	0 to 4000
		Zone 1 Gain	0 to -40dB,Mute
		Zone 2 Gain	0 to -40dB,Mute
		Zone 3 Gain	0 to -40dB,Mute
		Zone 4 Gain	0 to -40dB,Mute
	Out 2	ID zone	0 to 4000
		Zone 1 Gain	0 to -40dB,Mute
		Zone 2 Gain	0 to -40dB,Mute
		Zone 3 Gain	0 to -40dB,Mute
		Zone 4 Gain	0 to -40dB,Mute
	Out 3	ID zone	0 to 4000
		Zone 1 Gain	0 to -40dB,Mute
		Zone 2 Gain	0 to -40dB,Mute
		Zone 3 Gain	0 to -40dB,Mute
		Zone 4 Gain	0 to -40dB,Mute
	Out 4	ID zone	0 to 4000
		Zone 1 Gain	0 to -40dB,Mute
		Zone 2 Gain	0 to -40dB,Mute
		Zone 3 Gain	0 to -40dB,Mute
		Zone 4 Gain	0 to -40dB,Mute
	Zone Setup	Enable	On/Off

| | | DSP1 | → | Off,1,2,3,4 |

| | Remote Out | Off,1,2,3,4 |

| Recording | Set | Quality | → | 32,64,96,128kbps |

| | | ANC | On/Off |

| Delegate Setup | Unit Info. | Total Units:0000 to 4000 |

	Time	Enable	→	On/off
		Hour	00 to 23
		Minute	00 to 59
		Second	00 to 59
		Year	2016 to 2115
		Month	01 to 12
		Date	01 to 31
		Day	MON to SUN

	Volume	0 to -40dB,Mute
	Speaker	On/Off
	AGC enable	On/Off
	ANC enable	On/Off

	EQ	ID Select	→	All
		EQ Eneable	On/Off
		EQ1...EQ8	-12dB~12dB

| | Unit Type Set | Off,On,All delegate |

Interpretation	Max. channel	02 to 32
	Channel lang.	01(104 options)to 32(104 options)
	Auto floor	On/Off
	Channer lock	On/Off
	Booth setup	Max. booth	→	02 to 32
		Start set	On/Off

Camera	Protocol	SAMSUNG,PELCO-D,VISCA,CUSTOM,VCA-UDP
	Camera map	Camera select	→	01 to 16
		Camera addr	Off,001 to 255
		Video channel	Off,001 to 255
		UDP addr	001 to 255
	Freeze Time	00s to 30s

Video Mode	→	Normal/Recorder
Start Set	→	01 to 16
CamTrackSw	→	On/Off

Network — IP
Option 1	→	000 to 255
Option 2	→	000 to 255
Option 3	→	000 to 255
Option 4	→	000 to 255
Enter	→	Save/Exit

MAC
Option 1	→	000 to 255
Option 2	→	000 to 255
Option 3	→	000 to 255
Option 4	→	000 to 255
Option 5	→	000 to 255
Option 6	→	000 to 255
Enter	→	Save/Exit

POE Speaker
All Speaker	→	-50 to 24dB,Mute
Speaker 1 to 16	→	-50 to 24dB,Mute
Volume Select	→	All POE Speake
		Line out
		POE Speaker 1 to 16
ID Set	→	On/Off

Configuration
Language	→	CH,EN
Auto Mix	→	On/Off
Save power	→	On/Off
Voice Gate	→	-10 to -60dB
Auto offTime	→	03,06,12,24,35,70,140S,OFF
Noise Gate	→	-40 to -60 dB
Download	→	Run,Host,Unit
Scan Set	→	On/Off
Host	→	Master,Slave,Slave+Audio,Only
Lock	→	On/Off

Wifi
SSID	→	16bit SSID
Password	→	9bit Password
Start Set	→	On/Off

Default → Defauit/Exit

Version

For example, we want to set the active MIC as 6 and operate as bellowing,

1.From the main screen, press the button 'Enter' to get the menu screen as bellowing,

```
          M e n u
      – > M I C M o d e
```

2.Press the button '▽'

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

3.Press the button 'ENTER'

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

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

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

5.Press button 'ENTER' to confirm the option and the setting is done.

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

6. Press the button 'ESC' back to the main menu.

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

6.1.1 DSP Menu

Use the menu items in 'DSP' sub-menu to set to get the sound effect for the whole system.

Menu item	Parameter	Value	Description
Enable	--	On/Off	Turn on or off the DSP sound effect processor--If the customer needs to test the original sound effect of the conference system or the processing effect of external audio equipment, the DSP processor can be turned off here.
DSP1	AFC-ANC	6dB,12dB,18dB, 24dB,Off	1. When the audio partition function is turned off (select the menu 'Zone'-->'Zone Setup'-->'Enable'-->'off"), DSP1 processes the output audio of OUT1, OUT2, OUT3, OUT4 at the same time, this The four-way output audio is the same.
			2. When the audio partition function is turned on (select the menu 'Zone'-->'Zone Setup'-->'Enable'-->'on'), DSP1 can only choose to process one of OUT1, OUT2, OUT3 or OUT4.
	AFC Enable		ANC (Dynamic Noise Control) - adjustable noise cancellation, Off means no cancellation, 24dB is the highest noise cancellation.
	AFC-Lever	1,2,3,4,5,	AFC (Acoustic Feedback Cancellation) - used to prevent or suppress acoustic feedback, the feedback energy can be divided into 5 levels.
	AEC Enable	On/Off	AEC (Acoustic Echo Cancellation)--If the echo cancellation function is used, it needs to be set to on, and the input channel IN2 must be used to access the sound of the remote terminal, and the output channel OUT4 will be output to the remote terminal for the function to take effect.
	AEC-ANC	3dB,5dB,7dB,9dB, 11dB,13dB, Off	AEC (Echo Cancellation)--Noise suppression level, Off means no suppression.

6.1.2 Zone Setup

Use the menu to set the volume of the different audio zones in the 'Zone' submenu:
The default value of the zone function is 'off' (menu 'Zone Setup'-> 'Enable'->'off'), and the AEC echo cancellation under DSP1 is also 'off' by default (refer to the menu 'DSP'->' Description of DSP1'->'AEC').Audio output 'OUT1', OUT2', OUT3' and 'OUT4' output the same audio.
If you use the zone function, you need to open the audio zone function (menu 'Zone'-> 'Zone Setup'-> 'Enable'->'on'), and set other submenus under the 'Zone' menu, as shown in the table below.

Menu item	Parameter	Value	Description
Out **1**	ID zone	X1(1~4000)	Output 1 to audio zone zone 1.
	Zone 1 Gain	0 to -40dB,Mute	ID zone--that is, set in the zone1 area, the ID range of the microphone, the default ID starts from 1, and if the ID zone is set to X1 (between 1 and 4000), the microphone ID of zone 1 is 1 to X1.
	Zone 2 Gain	0 to -40dB,Mute	
	Zone 3 Gain	0 to -40dB,Mute	Zone 1 Gain--Set the gain of the microphone in the zone 1 to the output OUT1, mute.
	Zone 4 Gain	0 to -40dB,Mute	Zone 2 Gain--Set the gain of the microphone in the zone 2 to the output OUT1, mute.
			Zone 3 Gain--Set the gain of the microphone in the zone 3 to the output OUT1, mute.
			Zone 4 Gain--Set the gain of the microphone in the zone 4 to the output OUT1, mute.
OUT**2**	ID zone	X2(X1+1to 4000)	Out 2 output to audio zone zone 2.
	Zone 1 Gain	0 to -40dB,Mute	ID zone--that is, set in zone 2, the ID range of the microphone, the default ID starts from X1+1, set the ID zone to X2 (between X1+1~4000), then the microphone ID of zone 1 is X1+ 1 to X2.
	Zone 2 Gain	0 to -40dB,Mute	Zone 1 Gain--Set the gain of the microphone in Zone 1 to output OUT2, mute.
	Zone 3 Gain	0 to -40dB,Mute	Zone 2 Gain--Set the gain of the microphone in Zone 2 to output OUT2, mute.
	Zone 4 Gain	0 to -40dB,Mute	Zone 2 Gain--Set the gain of the microphone in Zone 3 to output OUT2, mute.
			Zone 4 Gain--Set the gain of the microphone in Zone 4 to output OUT2, mute.
OUT**3**	ID zone	X3(X2+1to 4000)	Output 3 to audio zone zone 3.
	Zone 1 Gain	0 to -40dB,Mute	ID zone--that is, set the ID range of the microphone in the Zone 3 area. The default ID starts from X2+1. If the ID zone is set to X3 (between X2+1 and 4000), the microphone ID of Zone 1 is X2+ 1 to X3.
	Zone 2 Gain	0 to -40dB,Mute	Zone 1 Gain--Set the gain of the microphone in Zone 1 to output OUT3, mute.
	Zone 3 Gain	0 to -40dB,Mute	Zone 2Gain--Set the gain of the microphone in Zone 2 to the output OUT3, mute.
	Zone 4 Gain	0 to -40dB,Mute	Zone 3 Gain--Set the gain of the microphone in Zone 3 to output OUT3, mute.
			Zone 4 Gain--Set the gain of the microphone in Zone 4 to output OUT3, mute.
OUT**4**	ID zone	X4(X3+1to 4000)	Output 4 to the audio zone Zone 4.
			ID Zone--that is, the ID range of the microphone set in Zone 4, the default ID starts from X3+1, and the ID zone is set to X4 (between X3+1~4000), then the microphone ID of Zone 4 is

			X3+ 1 to X3.
	Zone 1 Gain	0 to -40dB,Mute	Zone 1 Gain--Set the gain of the microphone in Zone 1 to output OUT4, mute.
	Zone 2 Gain	0 to -40dB,Mute	Zone 2Gain--Set the gain of the microphone in Zone 2 to the output OUT4, mute.
	Zone 3 Gain	0 to -40dB,Mute	Zone 3 Gain--Set the gain of the microphone in Zone 3 to output OUT4, mute.
	Zone 4 Gain	0 to -40dB,Mute	Zone 4 Gain--Set the gain of the microphone in Zone 4 to output OUT4, mute.
Zone Setup	Enable	On/off	Turn on or off the audio partition function.
	DSP1	Off,1,2,3,4	When the audio partition function is turned On, DSP1 can choose to process one output among OUT1, OUT2, OUT3, OUT4, or choose not to process 'Off'
Remote Out	--	Off,1,2,3,4	For remote audio output channel selection, it is necessary to set the Zone audio partition function to open (Menu 'Zone'--> 'Zone Setup'--> 'Enable'-->'on', the channel selected as the remote audio output, IN2 (Remote In) The audio of the remote input will not be mixed to this output, and multiple selections can be made. For example, if the selected values are '1' and '4', the output channels OUT1 and OUT4 will not be mixed with the input audio output of IN2. Note: DSP (menu DSP-->Enable) is turned on, and AEC (menu DSP-->DSP1-->AEC) is also turned on, the remote output of OUT4 channel has AEC echo cancellation processing (remote sound will also be processed by local amplification It is collected by the local microphone and needs to be processed before it is transmitted to the remote).

Application:

Application 1 :Change the sensitive of MICs. There are two MICs on the chairman desk, we need to reduce the gain of MICs on the chairman desk. Just change the gain of zone where are MICs on the chairman desk.

Application 2. Increase the sounding gain. There are only MICs on the rostrum, and then we increase the output gain on the auditorium.

USB Recording Setup

Use the menu items in 'Recording' sub-menu to set the recording parameters.

Menu item	Parameter	Value	Description
Set	Quality ANC	32,64,96,128kbps On/Off	Set the audio quality of MP3 for USB recording

```
Quality: 0032
 -> 0032
```

6.1.3 Delegate Setup

Use the menu items in 'Delegate Setup' sub-menu to set the delegate relative setting.

Menu item	Parameter	Value	Description
Unit Info.	Total Units	0000~4000	Show the quantity of delegates/chairman units that connected to the system and help to check the system fault.
Time	Enable Hour Minute Second Year Month Date Day	On/Off 00 to 23 00 to 59 00 to 59 2016 to 2115 01 to 12 01 to 31 MON to SUN	Set the time display on the whole system, including the OLED display in the delegate unit. If set the 'Enable' to off, the clock do not display on the delegate unit.
Volume	-	0 to -40 dB, mute	Set the volume for the speakers and headphone on the delegate units.
Speaker	-	On/Off	Turn on/off the speaker on the delegate units.(not include the interpreter unit)
AGC enable	-	On/Off	
ANC enable	-	On/Off	Reduce the noise for speaker and headphone on delegates.(Note: Any noise reduction technology will affect the audio quality, if customer pursue tone quality, please set off the ANC)
EQ	ID Select EQ Enable EQ1...EQ8	All On/Off 00dB/12dB/12dB	8 level of EQ adjustment
Unit Type Set	-	Off, On, All delegate	Reference to the 6.2.2

6.1.4 Interpretation Setup

Use the menu items in 'Interpretation' sub-menu to set the interpretation relative setting.

Menu item	Parameter	Value	Description
Max. channel	-	02 to 32	Limit the channel number according to the need and reduce the operation on delegate units.
Channel	00 01 ... 32	Chinese,English,...(10 4 languages) Chinese,English,...(10 4 languages)	Set each Channel to bind with a language.

		Chinese, English,...(104 languages)	
Auto floor	-	On/Off	On-The interpreter close the MIC on a channel, the audio in this channel is switched to floor audio. Off-The interpreter switch off the MIC and keep the same audio output on the channel.
Channel lock		On/Off	On-The interpreter unit cannot be changed the output channel. Off-The interpreter unit can be changed the output channel.
Booth setup	Max. booth Start set	02 to 64 On/Off	Max. booth--set the booth quantity. On--All interpreter units will show the booth number for options. Press the MIC on interpreter unit to select the booth no. The interpreter units in the same booth should be the same. Off--finish setting. Note: The speakers of the interpreters will be off, if turn on the MIC of interpreter in the same booth

6.1.5 Camera Auto-tracking Setup & Application

Use the menu items in 'Camera' sub-menu to set the Camera auto tracking relative setting.

Menu item	Parameter	Value	Description
Protocol	-	SAMSUNG,PELCO-D,VISCA,CUSTOM, VCA-UDP	Select the protocol according to the camera model, The value 'CUSTOM' mean the processor connect the camera tracking controller VIS-MSDI and the preset information is saved on the camera controller and don't need to set the sub-menu 'Camera map' and 'Start Set'
Camera map (Note: If you use the cameras using SAMSUNG or PELCO-D protocol need to set this menu. Use VISCA protocol, no need to set this menu)	Camera select Camera addr. Video channel UDP addr	001 to 016 Off,001to 255 Off,001 to 255 Off,001 to 255	**Camera select**--select the camera to setup, there totally support 16 cameras. **Camera addr.**--set the camera address for the camera selected on submenu 'Camera select'.(if SAMSUNG,PELCO-D need to set the address, VISCA is not need to set as Off) **Video channel**--Bind the camera(which set on submenu 'camera select') to the video channel number of video switcher, .(There are no video switcher connected to the main unit for camera tracking by RS232, just set as Off.) **Note:** To set next camera, we just repeat the same

			steps:
			'Camera Select->'Camera addr' ->'Video channel'
			The main unit will record every times of setup for each cameras.
			UDP addr--Bind the IP of the network camera, if you choose VCA-UDP protocol control, you need to set the camera IP.
Start Set	-	01 to 16	Select the camera no.1 to 16 to start the camera tracking setting.
			Step 1:Select "01" on main unit for no.1 camera
			Step 2: Adjust the camera to shoot the microphone.
			Step 3: Press ON and press Off the microphone that camera are shooting
			Step 4: Adjust the camera to shoot the **next** microphone.
			Step 5: Press ON and press Off the microphone that camera are shooting
			Step 6:Repeat the step 2 to step 5 until you preset all position for the camera '01'
			Step 7: Select "02" on main unit for no.2 camera
			Step 8: Repeat the step 2~step 6 to finish the camera '02'. More camera are set as the same way.
			Step 9:After setting the last microphone (on and off the MIC),we can adjust the camera to give a full view of the meeting and press 'ESC' to quit from the menu of 'Start Set'. The preset of full view will be active while there are no microphone on.
			Note: When exit the camera setting, the system will record the final camera position as the full view preset, so we finish the setting of last MICs covered by this camera, we need to adjust the camera to get the full view preset and next to exit the setting of the camera. (You can consider the chairman unit as the full view preset.)

Example

here we need to set up 2 cameras with VISCA, SAMSUNG/ PELCO-D or CUSTOM protocol and switch the video by a video switcher or camera auto-tracking controller VIS-MSDI

Step 1.Connect the main unit to the cameras or camera auto-tracking controller VIS-MSDI with the bottom CONTROL port.

1. Use the VISCA protocol camera

2. Use the SAMSUNG/ PELCO-D protocol camera

Step 2. Use CUTOM protocol and camera tracking controller to take charge of camera tracking.

We need to connect the 232 of the automatic tracking controller or the integrated computer to the upper control port of the CONTROL of the conference processing controller.
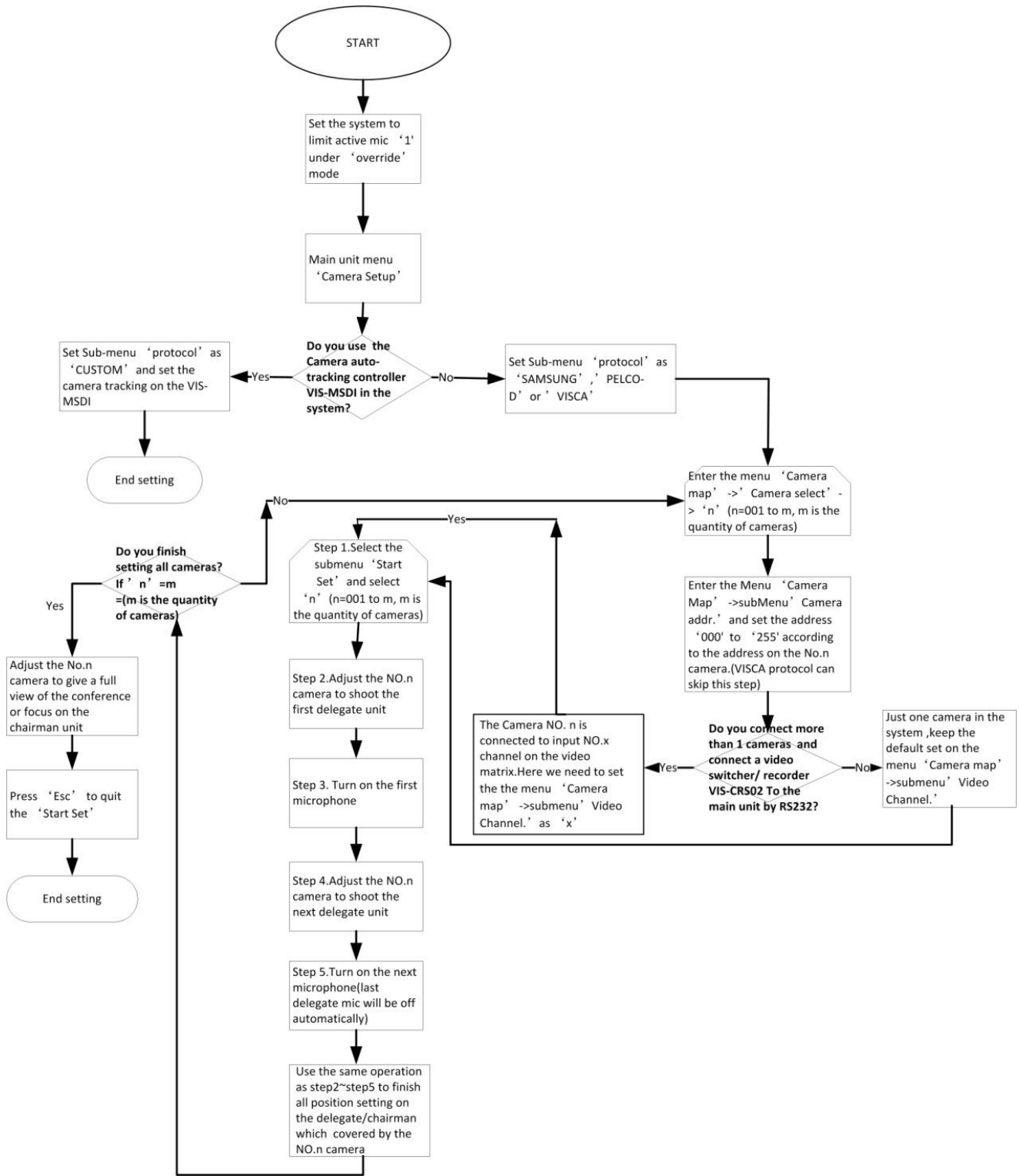
1. RS232 controls HD camera automatic tracking controller VIS-CATC-A.

2. RS232 control conference tracking and recording all-in-one machine VIS-CRS05-A.

Step 3 Set the camera information to the main unit by the front panel and adjust camera to shoot the position by remote controller ,keyboard controller or CLEACON conference software as the bellowing step flow.

6.1.6 Network Setup

Use the menu items in 'Network' sub-menu to set the IP address and MAC for processor unit.

Menu item	Parameter	Value	Description
IP	Option 1	000 to 255	Set the static IP for the processor.

	Option 2	000 to 255	Default IP
	Option 3	000 to 255	address:192.168.10.100
	Option 4	000 to 255	Port:10166
	Enter	Save/Exit	
MAC	Option 1	000 to 255	Set the MAC address for the
	Option 2	000 to 255	processor. Note: The MAC need
	Option 3	000 to 255	to be different in the same local
	Option 4	000 to 255	area network.
	Option 5	000 to 255	
	Option 6	000 to 255	
	Enter	Save/Exit	

6.17 POE Speaker

Enter the menu 'POE Speaker'

Menu	Parameter	Value	Description
ALL Speaker	---	-50 to 24dB,Mute	Set the volume of all POE speakers.
Speaker 1 to 16	---	-50 to 24dB,Mute	The volume of a speaker can be adjusted according to the ID of the POE speaker, and the volume of a maximum of 16 POE speakers can be adjusted.
Volume Select	All POE Speaker Line out POE Speaker 1 to 16	---	All POE Speaker: Select this item, the knob on the front panel of the main unit will adjust the volume of the POE speaker; Line out: select this item, the knob on the front panel of the controller will adjust the output volume of the controller POE Speaker 1 to 16: Select a POE speaker, and adjust the speaker volume through the knob on the front panel of the controller.
ID Set		On/Off	POE speaker ID mode, open or close.

6.18 Configuration Setup

Use the menu items in 'Configuration ' sub-menu to set the parameter for global system.

Menu item	Value	Description
Language	CN/EN	Change the language for main unit and delegate units (Note: We can

		change the language according to your need by updated the firmware)
Auto Mix	On/off	Auto MIX ON/OFF
Voice Gate	-10dB~ -60dB	In the voice control mode, the volume threshold required to trigger the microphone to automatically turn on can be set.
Auto off Time	3s,6s,12s,24s,35s,70s,140 s	In the voice control mode, you can set the time when the microphone is turned on and off automatically.
Delay time	10ms~30ms	The default setting is 15ms,other options are only for test
Save power	On/Off	Note: Not ready, plan for system power saving.
Download	Run/Host/Unit	The default setting is 'Run' to keep the system run faster. When we need to update the firmware for the processor, we select 'Host' .When we need to update the firmware for the delegate units, we select 'Unit' (Note: Don't change the default setting 'RUN', Only if you need to update the system.)
Scan Set	On/Off	Default is off, when scan set is on, the system will check the ID of delegate units when boot up, if there are ID conflict, those conflicting MICs will be flashing.
Host	Master,Slave,Slave+Audio,Only	When the conference system uses the connection structure of dual-machine backup, one conference processor can be selected as the master, the other one is the slave, and the slave audio output Slave+Audio can be selected. In normal connection mode, the default setting of the master Only.
Lock	On/Off	Panel lock, turn On or turn off Off; after opening, the panel button will be locked, at this time, you need to long press ENTER to unlock.

6.1.9 WIFI communication setup

Menu item	Value	Description
SSID	16 bits	16 bits SSID,Default setting is WIFI_CONFERENCE
PASSWORD	9 bits	9 bits password for communication between main unit to the delegate unit, default password is 88888888
Start Set	On/Off	The default setting is OFF. If set as "On", the main unit will send the new SSID and PASSWORD to the wireless delegate/chairman unit. After all delegate/chairman unit is received the new SSID and PASSWORD, please set the 'START SET 'menu as Off.

		Please reboot the wireless delegate/chairman unit and all wireless unit is not able to connect to the main unit after update the SSID and PASSWORD. Please visit the wireless AP VIS-AP4C by browser on PC, set the same SSID and PASSWORD on the VIS-AP4C. After corrective setting, wireless unit and main unit can communicate again.

6.1.10 'Default' setting

For urgent situation or wrong setting on the parameters, the 'Default' setting can set the main unit to the factory default setting.

6.2 Configuration on the contribution units

After connection all the units, we need to set the ID for every contribution units. If there are installed all VIS-DIC-T, and need to set them as chairman unit, delegate unit, interpreter unit or VIP, we need to set the unit type.

6.2.1 Set the ID for the delegate/chairman unit

The LCD display are working on the main screen.
Main screen

```
Unit: 0001
MIC : Override/1
```

Press the button 'ESC' around 2 seconds on processor unit, the display will show the ID setting interface.

```
Seting ID...
```

Just press the MIC button on every delegate/chairman units one by one and set the ID for them.
Press the button "ESC" around 2 seconds on the processor unit, the display exit from the 'Setting ID...' interface and back to main screen. The setting is saved and finished.

6.2.2 Set the unit type

Enter the menu of 'Delegate Setup' and set on the sub-menu 'Unit Type Set'.

```
Delegate Setup:
UnitTypeSet
```

VIS-DIC-T is default as the chairman unit and there are most of units are delegate units in a conference system, so we need to set all units as 'All delegates'.

```
Type:All del.
->All delegates
```

Set as the above screen, all the VIS-DIC-T are worked as the delegate units. Next set the as 'Type: ON.'

```
Type:On
->On
```

We can check on the contribution units and the display on all units show the bellow screen.

Delegate

We press the MIC button on the unitand the display will shift cyclically as Delegate-Chairman-interpreter-VIP.Let the them display as what you want to set as.

Chairman

Interpreter

VIP

Set on the processor unit to off the type setting as bellowing.

```
Type:Off
->Off
```

6.3 configure the AP channel

6.3.1 connection

The site changes the wiring as follows, AP is changed from the AP port to any interface of the CU/DU, The LAN/POE port of the AP is connected to the AP port of the conference processor, and the computer is connected to the LAN port of the AP, and the computer connects the network port of the upper layer of the AUDIO-LINK with the network cable.
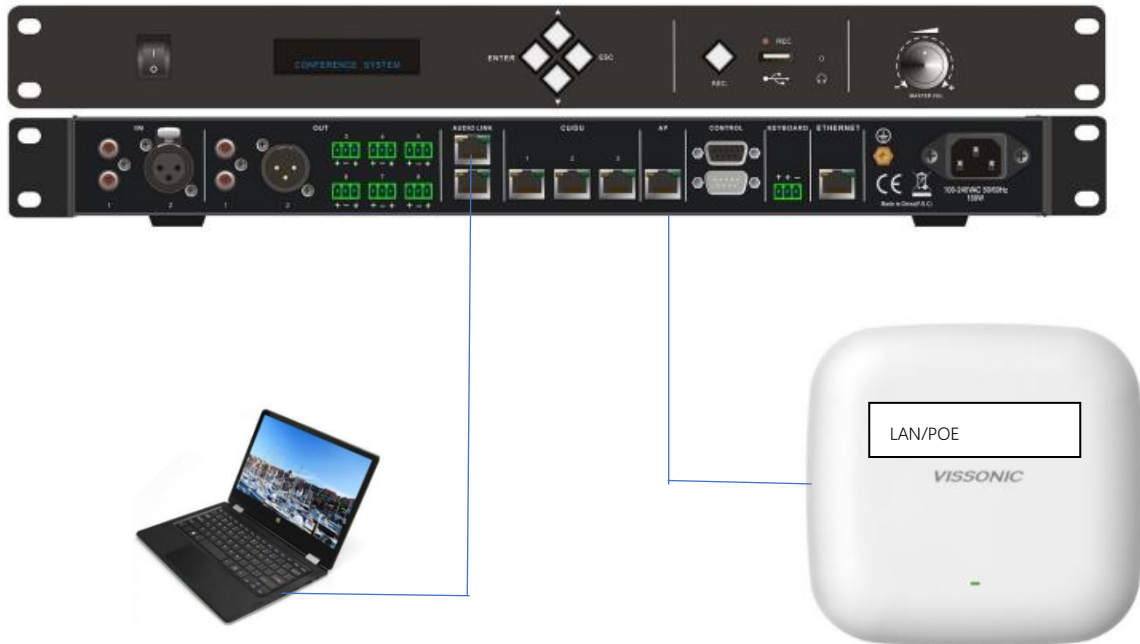
6.3.2 change the IP segment of the computer

Change the computer IP segment to 2, for example, 192.168.2.200

Open the computer's network and Internet settings to change the adapter options, Ethernet right-click properties click on Internet protocol version 4 (TCP/IPv4), click on the properties below, set the same IP segment address for PC and AP. The default IP address for the For example, the network properties of our PC are shown in the following figure:
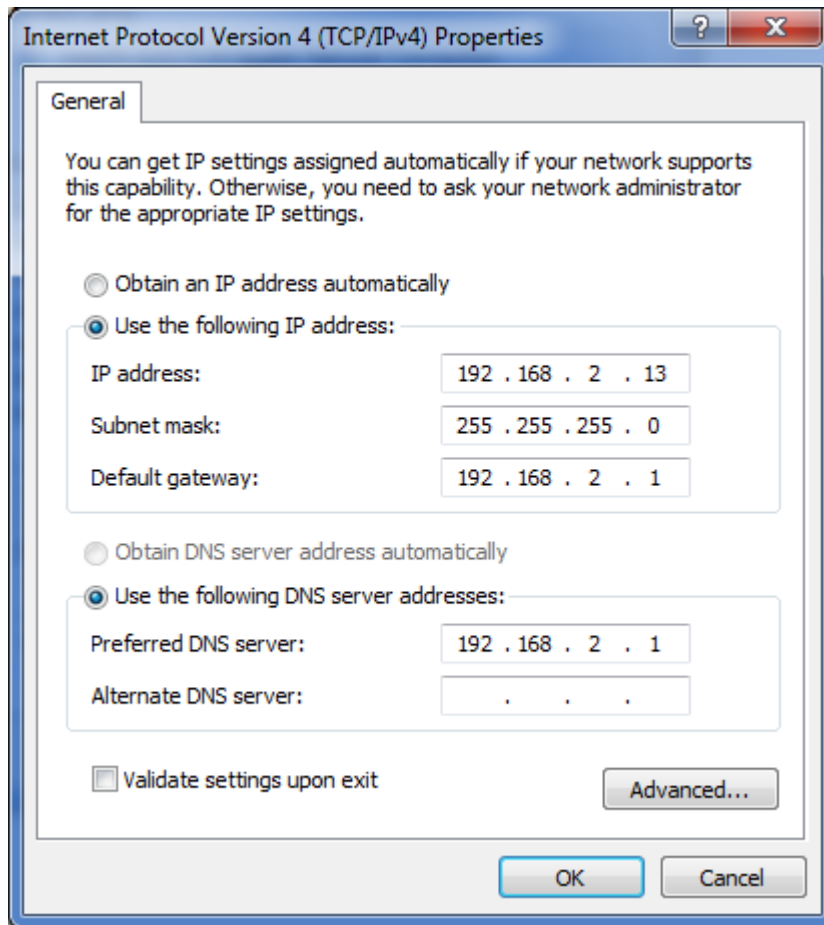
6.3.3 computer login to AP

1. 192.168.2.1, log on to AP through a computer browser to set up.

2. Enter user name admin, password admin.
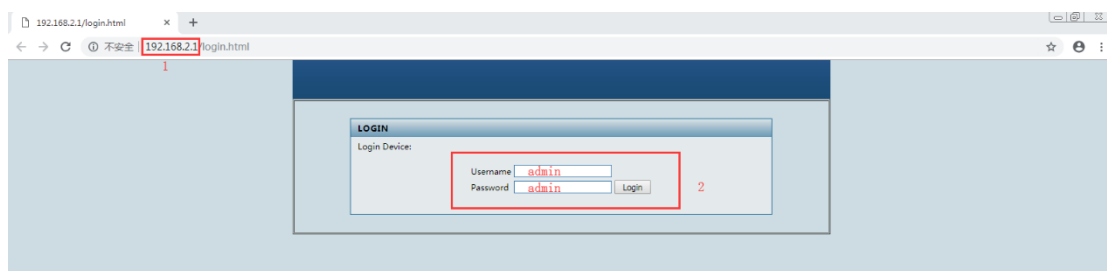
3. After logging in to the main interface,click 5.8G Configuration on the settings navigation menu on the left.

4. Click Setting

5. Click Scan

As shown below
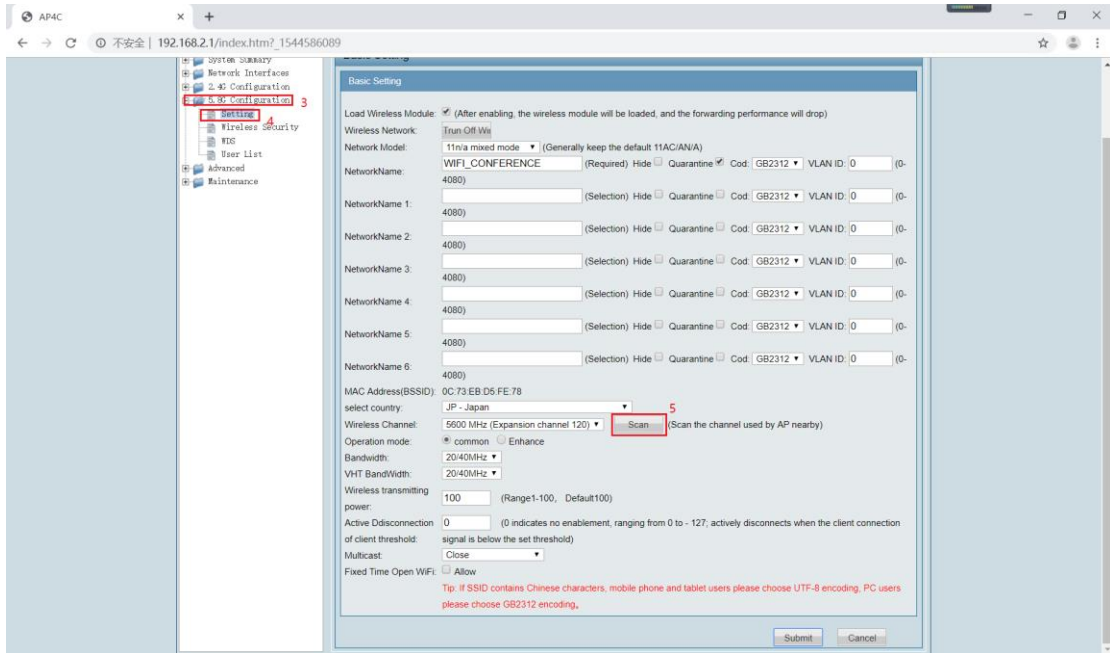
6. Click refresh multiple times to see the 5G signal usage in the field environment. Channel shows the current AP (WiFi_CONFERENCE) occupation channel 48 and other AP occupation 5G channels.
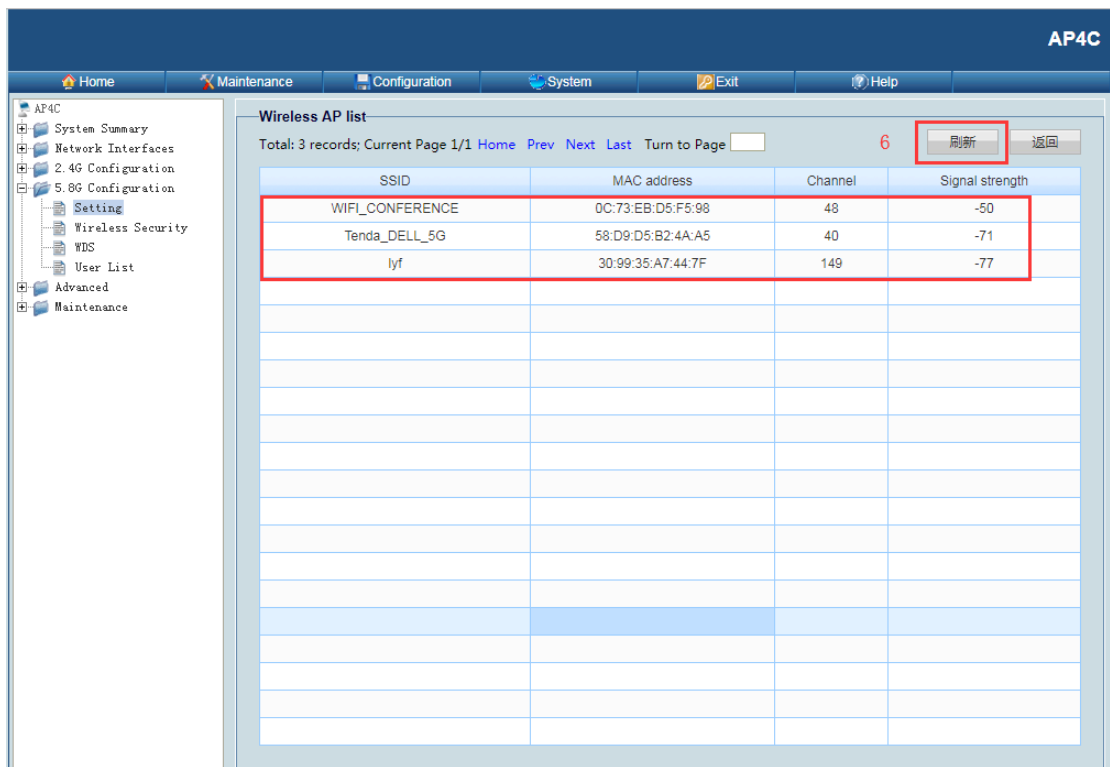
7. Click the return button to select the unused channel, which is currently available between 36 / 48149 / 165 to select the unoccupied channel.
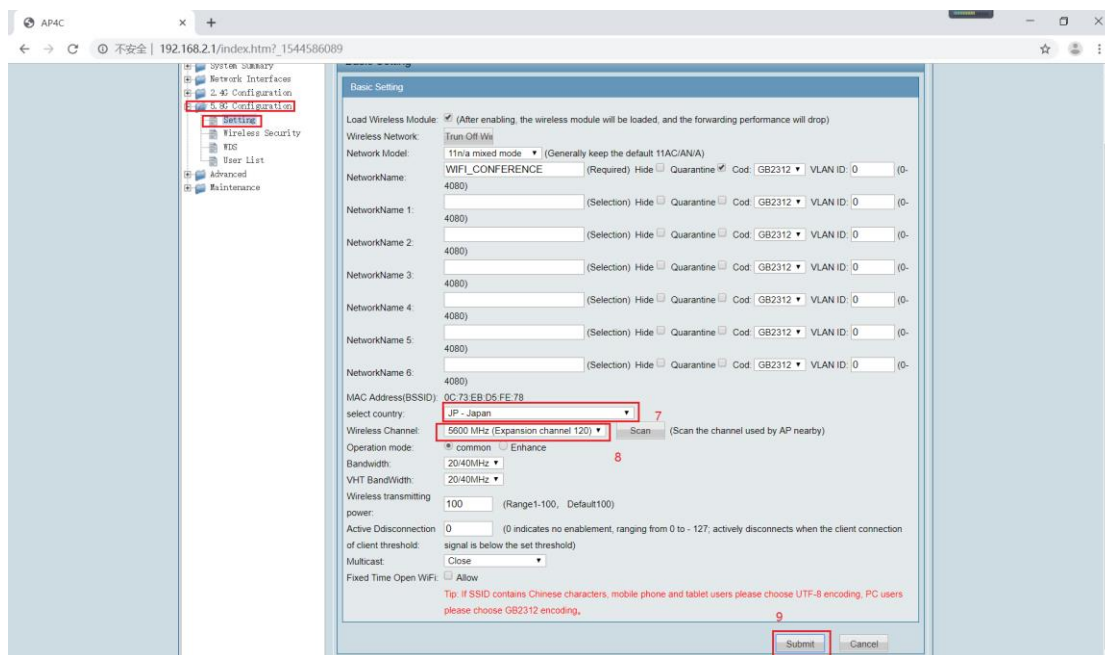
8. When you have selected it, click Submit, to save.

AP is connected back to the AP port of the controller and debugging is complete.

6.4 Configure the AP VIS-AP4C

When multiple wireless conference systems are used in the same building, we need to set up a different SSID. For each conference system.

1. First,change the SSID,through the conference controller menu and send it to all units.
2. Log in to the AP and change the SSID of the AP.

6.4.1 Set up controller SSID and Password

1.Enter the WIFI menu on the front panel of the conference controller **LCD, including the submenu SSID,PASSWOPD,Start Set:**

Menu item	Parameter/parameter	Describe
SSID	16 bits	16-bit SSID,default is WIFI_CONFERENCE
PASSWORD	9 bits	Communication password between 9-bit host and unit By default:88888888
Start Set	On/Off	Turn off OFF,by default and turn on on. If SSID and PASSWORD ,are changed,the SSID and PASSWORD set by the host will be sent to the WIFI wireless unit.

		When the unit receives the information ,it will be updated successfully,and all the units will be updated back to the default off.. Please restart the wireless unit manually, the unit will not be able to connect to the upper host after updating the SSID and PASSWORD ,and the corresponding SSID and PASSWORD,and the corresponding SSID and PASSWORD will need to be updated by logging in to the wireless AP VIS-AP4C,The unit and host meeting will only be re-communicated.

For example,we want to change the SSID to "WIFI_VISSONIC"and the Password to "88888888"

2.The operational steps are as follows:
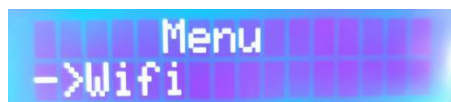
Step 1 Through the conference controller front panel LCD view and menu button operation, press ENTER key to enter the option setting when the WiFi option is displayed,turn down to display SSID,PASSWORD,Start set.

First set the SSID,key to enter the setting to see the network name ,press the ▲ or ▼ key to select each character, press the key to select each character,press the ENTER key to select the next character,To determine the name such as "WIFI_VISSONIC",press ESC to return Out, next set the PASSWORD,operation as above, change the password to "88888888" press ESC to exit.

Step 2 Ensure that all the wireless microphone units are in the starting working state ,then set the Start set, enter the setting with off and on two options,select the setting as Start set: on,then the main opportunity sends the SSID and PASSWORD set by the step 1to the wireless conference unit , and after the conference unit receives the information,The display displays the "Update succeeded".
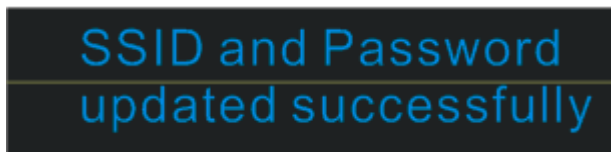
Step 3 Shows that after the update is successful,set up the Start set: off,and manually reschedule all microphone units,all units display unable to connect to the controller ,constantly status, at the AP needs to be updated.


Wireless Connection
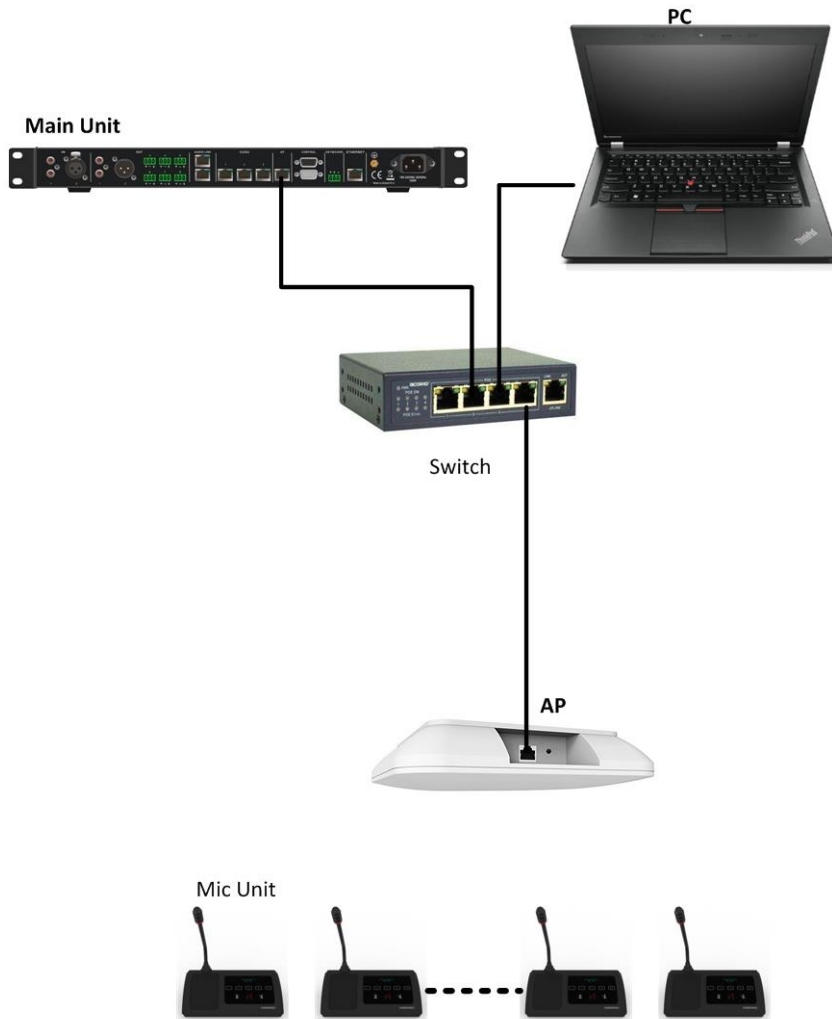
**Test and Installation Connection (Conference system is working)**

6.4.2 Set up AP SSID and Password

Step 1 Connect the PC to the AP by 2.4g wifi or LAN as one of above connections.

Step 2 Open the computer's network and Internet settings to change the adapter options, Ethernet right-click properties click on Internet protocol version 4 (TCP/IPv4), click on the properties below, set the same IP segment address for PC and AP. The default IP address for the For example, the network properties of our PC are as follows:
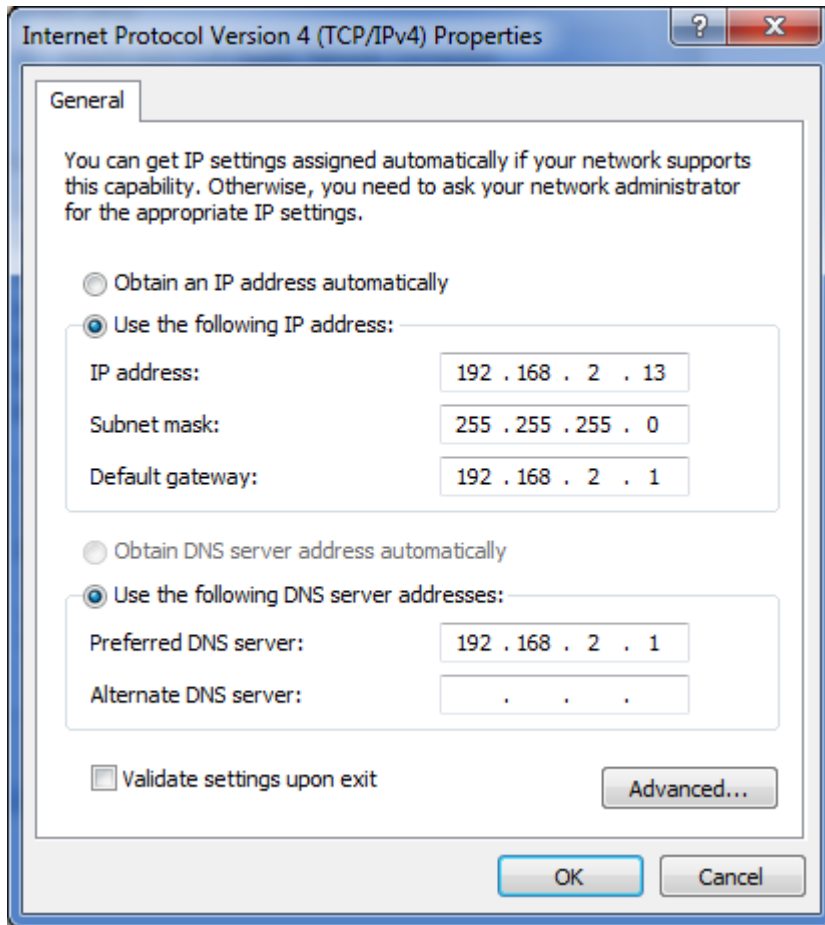
Step 3 We need to open the web browser, enter the default IP address 192.168.2.1 to get the following interface, enter the user name admin, password admin, click Login login.
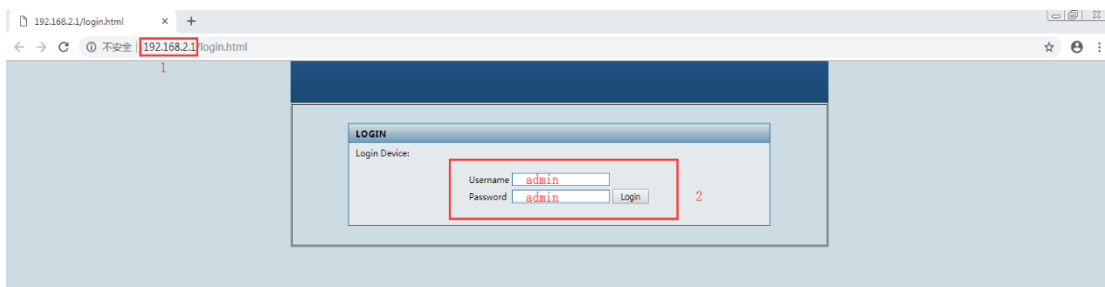
First click the Setting page under the navigation directory 5.8 G Configuration on the left side to set the wireless network name to be consistent with the SSID name set by the conference controller. As shown in the figure, multiple names can be set. For example, we add the name``WIFI_VISSONIC'' . After setting, click Submit at the bottom of the page for 15 seconds for upload and saving.
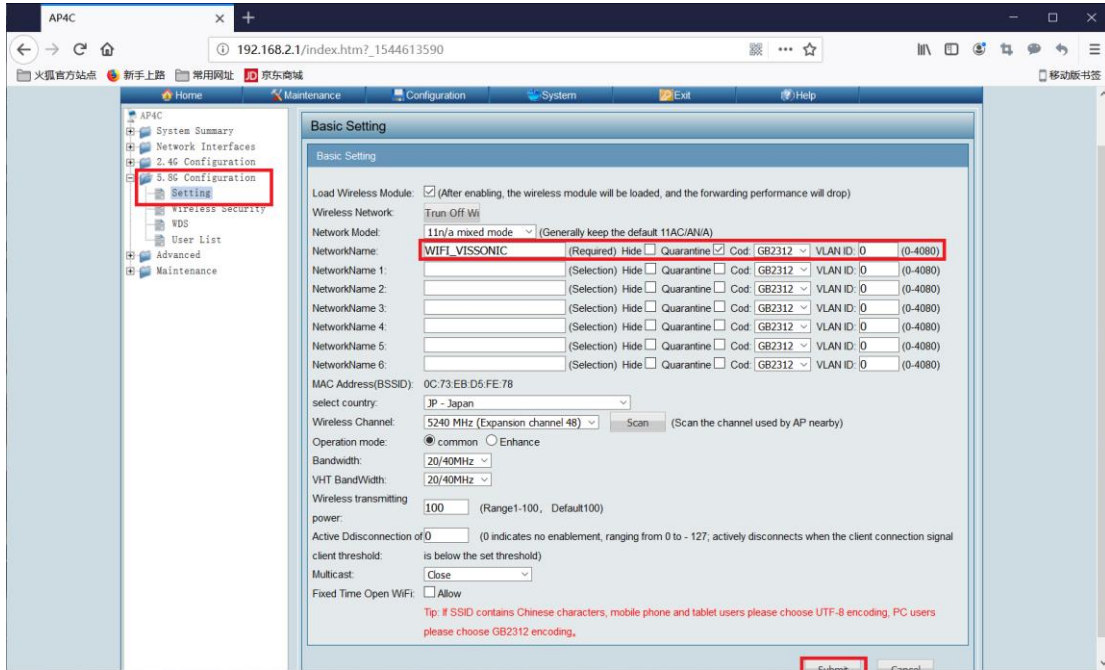
Then click on the Wireless Security settings in the navigation directory, select the wireless network name we uploaded before in the figure, set the wireless network password in the Share Key, and finally click the Submit upload below to save, the meeting unit has the display date and time, that is, the connection setting is successful.
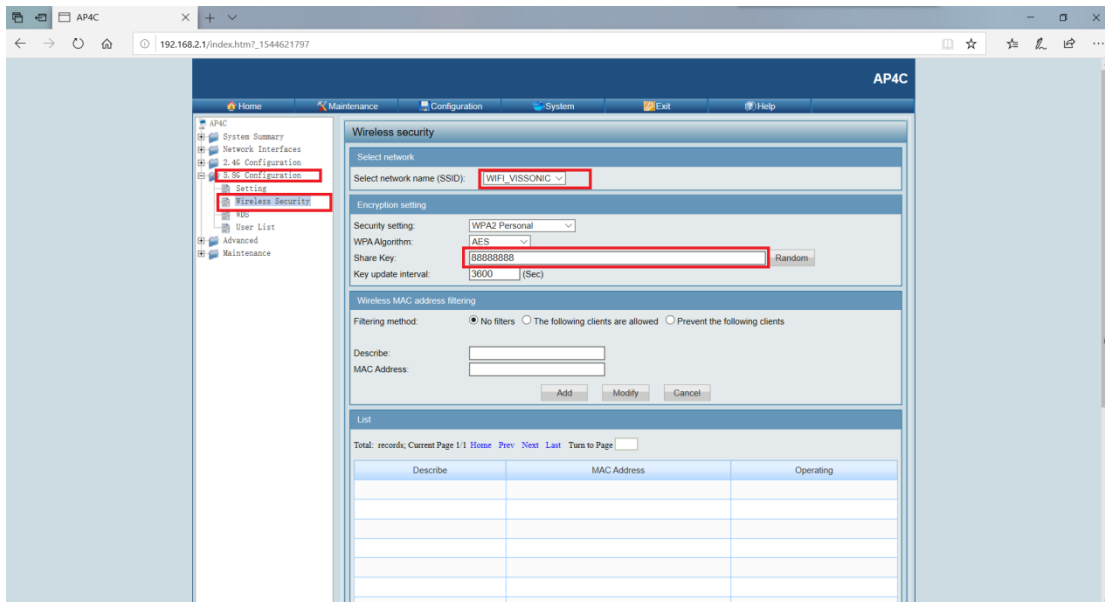
Notes :

Wireless system Troubleshooting

When there is noise from wireless unit internal speaker or external loudspeaker
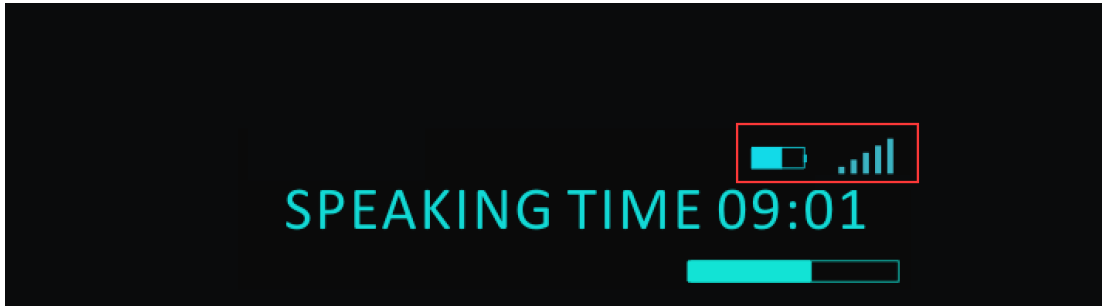
Please follow the steps to check:

Does all wireless unit has same issue or just few number of the units?

Does the noise only from internal speaker, only from external speaker or both?

1. Low power or weak signal on unit?

   Battery low power or signal indicator only has 1 or 2 level may have noise from internal speaker

2. ID conflict

   Check every unit ID, if there is two same ID, all units will has noise from internal speaker

3. Install the AP to right position，hang on the wall around 1.5~2 meters, or mount on the center of ceiling, **DO NOT** put the wireless unit too close to AP(in one meter) or too far away(check the signal strength indicator on unit), otherwise it will also cause noise because of the strong signal impact.

   Coverage area

   All Wireless Devices need to be in the Wi-Fi coverage area of the VIS-AP4C, we recommend AP install on ceiling of center of the room.

   – For a maximum Wi-Fi coverage area, the VIS-AP4C should be placed on a central location in the room.

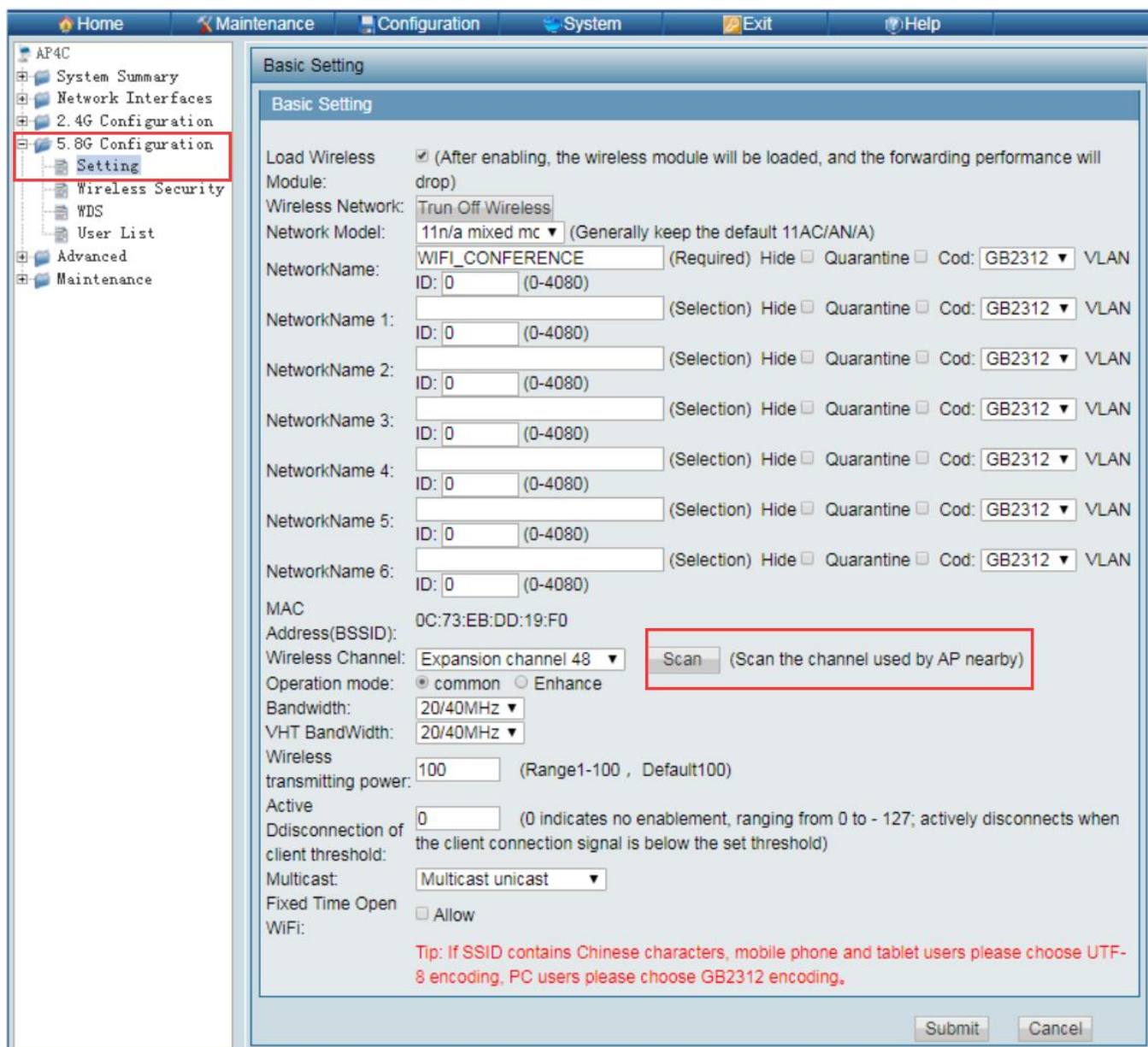   – The VIS-AP4C has a typical Wi-Fi coverage distance of **30 m**.
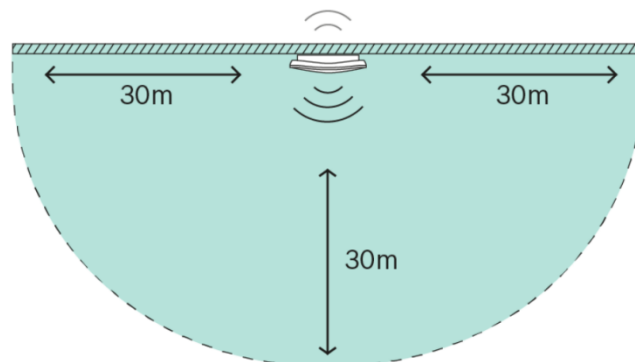
   Notice!
   30 meters is the maximum distance if there is a direct line of sight.
   Obstacles between the Wireless Access Point and the devices will reduce this distance.

4. If there is more than one VIS-AP4C, need to set the two AP with different channel.

5. **Press follow button to SCAN existing AP and their channels.** **（search 5G signal only）**

Scan result like below, there are 6 AP nearby, channel is 48,52,36,157,161

To set VIS-AP4C to different channel to prevent potential interference from other AP.

7. Operation

7.1 VIS-DCP2000 conference processor

When you start the conference processor, the display will show 'Initializing...'.The display then shows the main screen.

Main screen

```
Unit : 0001
MIC : Override/1
```

The screen will display as above picture, including the information of total contribution units are connected to the system '0001' to '4000' , MIC mode 'Override, Voice, Open, Apply' and the maximum active number '1,2,4,6'.

MIC mode

On the main screen, press the button '▽' and directly enter the sub-menu of MIC mode to set the microphone mode. When the conference processor is connected to the PC, you also can set the microphone mode from the PC software.

Menu item	Value	Description
MIC mode	Override	The microphone mode
	Open	of CLEACON

	Voice Apply	conference system

Mode	Description
Override	In the override mode, delegates can activate their microphones with the microphone button on their contribution device. When themaximum number of delegates speak, the next delegate that activates his or her microphone automatically deactivates the microphone that was activated for the longest time.
Open	In the open mode, delegates can enable their microphones with the microphone button on their contribution units. When the maximum number of delegates speaker, the next delegate that enables his or her microphone is added to a request-to-speak list. The microphone is not enable until another delegate disables his or her microphone.
Voice	In the voice mode, the unit will be activated by the voice and no need the press the MIC button.
Apply	In the apply mode, delegates can apply to enable their microphones with the microphone button on their contribution units and the green LED on MIC will be on. When the chairman unit press the APROVAL button to enable the applying delegate microphone according to the applying order. When the maximum number of delegates speaker, the system allowing the same maximum number of applying microphone on the waiting list.

Active MIC

On the main screen, press the button　'△'　and directly enter the sub-menu of Active MIC mode to set the active MIC number.

Menu item	Value	Description
Active MIC	1,2,4,6	Limited the max number of active microphone.

Monitoring -Unit information

Menu item	Value	Description
UNIT	0000~4000	Show the quantity of delegates/chairman units that connected to the system and help to check the system fault.

7.3 Simple interpreter desk VIS-DIC-T

Refer to the 6.2.2 and set the unit VIS-DIC-T as the interpreter unit. Please check the display and operation.

Screen	Description
Interpreter unit **Out:01 ENG**	Main screen, **'Interpreter unit'**-Unit type **'Out:01 ENG'** show the interpreter output to channel number and language name. Press the channel buttons ⇦ ⇨ to change the output channel. **Volume bar** to show the volume level to speaker and headphone and press the volume buttons ➕ ➖ to adjust it.
Mic on **Mic off**	Press the MIC button to turn on/off the microphone.
15:30 Speaking time **09:01:30**	Show the `**speaking time** **15:30** **Digital clock** show the current time.
Mute	Press the button and hold for mute for cough, release the button to unmute.

7.4 Chairman unit and delegate unit display and operation

Microphones

The colors of the LEDs of the microphone buttons, the LED ring of MICand display show the condition of the microphone that connected to the discussion unit.

MIC button color	LED ring color	Display character	Condition
Red(on)	Red(on)	Mic on	Microphone enabled

| White(off)	Green(on)	Applying to speak Please wait...	Request to speak

7.5 Default Setting On VIS-DCP2000-W, VIS-AP4C and VIS-WDC-T/VIS-WDD-T

Under the default setting on AP, main unit and delegate unit, the wireless conference system can work together automatically. If necessary, we set the whole system to default setting by following steps.
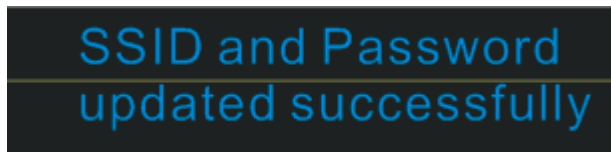
Step 1 Set the default setting on main unit VIS-DCP2000

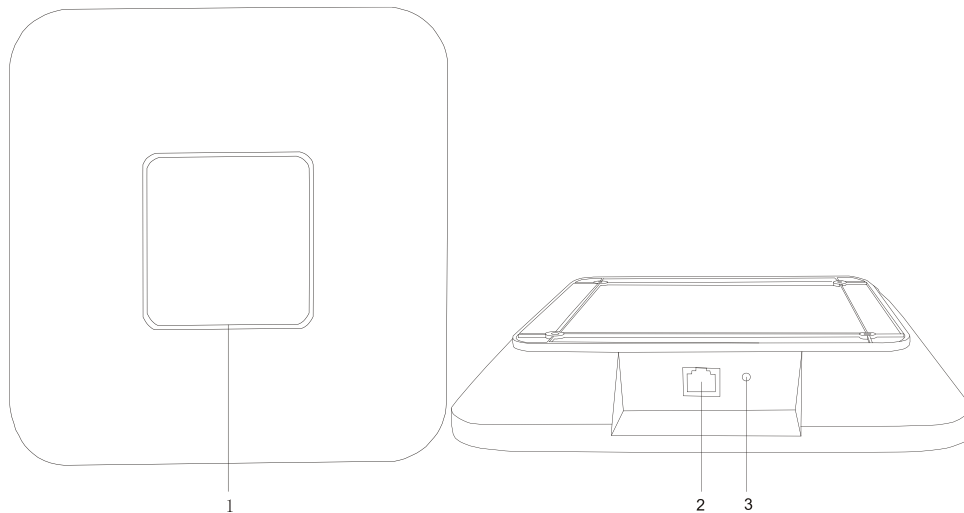Menu->Default->Enter(Default)

Step 2 Press the volume - and + button at the same time when the unit reboot enter the bellowing interface.
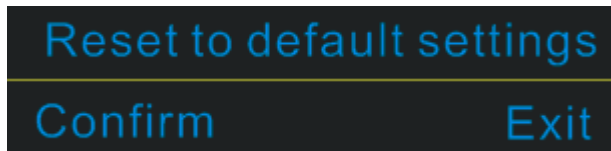
Press 'ENTER' button to confirm and set it successfully.

Step 3 Set the default setting on the AP VIS-AP4C

3. Reset button

Press the reset key on the back of the AP for about 10 seconds,The indicator is off,release the reset key .Press the reset key long again, the indicator light begins to flicker, and the AP has returned to the factory settings.

Note:
1. switches do not recommend connecting to other devices ,only controllers and up to 8xVIS-AP4C.
2. AP has been upgraded to the factory, in general, it is not recommended to restore the factory

8. Install and Test

Generally we do not need to configure the controller and unit, the wireless conference system can be used after the system is connected. The unit can display the current time, the host computer connected to the audio system, there is sound output.

1. Adjust the main volume knob of the front board of the conference host, control the output gain, cooperate with the peripheral equipment, and realize the picking distance required by the project under the premise of preventing whistling.

2. The engineer can set the meeting mode of the host computer and the maximum number of microphone switches according to the needs of the meeting factory, and refer to the instructions for other settings.

When we turn on the conference processor, the display displays "Initializing." After 3 seconds, the main screen menu is displayed.

Main screen

```
U n i t : 0 0 0 1
M I C : O v e r r i d e / 1
```
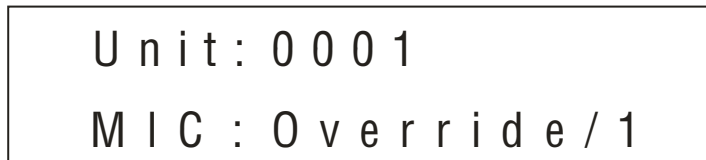
The main screen is shown in the figure above, including the number of conference microphones connected online (001 ≤ 4000), the current mode of discussion: Override first-in-first-out, Voice voice control, Open open, Apply application maximum number of delegates: 1, 2, 4, 6

At 1, 2, there can be 1 chairman's module and 4, 6 can open 2 chairman's module.
The following is an example of setting the maximum number of microphones turned on, and the meeting mode settings are the same.

1. From the main screen, press the 'Enter' button to get the following menu.

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

2. Press the 'button' to select the maximum number of microphones on menu ActiveMIC.

```
        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 the '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, 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 home screen.

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

3.Change the AP band according to the field wireless network environment.

For specific operations, see 6.3 AP band configuration.