

CLEACON Full Digital Network DSP Conference System User Manual V4.1



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.

\triangle	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.	
Â	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.	
	This product passed the ISO9001 international quality certification (certification body: TUV Rheinland, Germany).	
	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.

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.

Preface

This manual mainly describes the use, performance parameters and troubleshooting of VISSONIC Full Digital Network DSP Conference System - including desktop, embedded, array unit and 5G WiFi wireless conference system.

If the technical parameters and system usage in this manual are changed, the manufacturer will update the version of the manual. Please use the latest user manual.

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VISSONIC

Contents

1. System overview	8
1.1 System features	8
1.2 System composition	
2. Conference controller	13
2.1 VIS-DCP2000-D/W conference controller	13
2.1.1 Features and interfaces	
2.1.2 Installation	
2.1.3 Connection	
2.1.3.1 Connecting the power supply	
2.1.3.2 Connecting audio inputs	
2.1.3.3 Connecting audio outputs	16
2.1.3.4 Connecting the conference controller	17
2.1.3.5 Connecting conference units	17
2.1.3.6 Connecting an AP (only for VIS-DCP2000-W)	
2.1.3.7 Connecting for camera tracking	
2.1.3.8 Connecting the PC software	
2.1.4 Settings and usage	
2.1.4.1 Menu and operations	
2.1.4.2 Setting MIC mode	
2.1.4.3 Setting DSP	
2.1.4.4 Setting audio zones	
2.1.4.5 Setting recording	
2.1.4.6 Setting conference unit	
2.1.4.7 Setting interpreter unit	
2.1.4.8 Setting camera tracking	
2.1.4.9 Setting network address	41
2.1.4.10 Setting POE speaker	41
2.1.4.11 Setting system configuration	
2.1.4.12 Setting wireless communication (only for VIS-DCP2000-W)	44
2.1.4.13 Setting debug configuration	44
2.1.4.14 Restoring to factory settings	45
3. Conference units	
3.1 VIS-DCC/DCD/DVC/DVD/DVCIC/DVDIC/DIC/DID/DSC/DSD-T units	46
3.1.1 Features and interfaces	46
3.1.2 Connection	
3.1.3 Settings and usage	51
3.1.3.1 Setting unit ID	51
3.1.3.2 Setting unit types	
3.1.3.3 Usage	53
3.2 VIS-DMD-T unit	55
3.2.1 Features and interfaces	55
3.2.2 Connection	56

3.2.3 Settings and usage	57
3.2.3.1 Setting unit ID	57
3.2.3.2 Setting unit types and rights	58
3.2.3.3 Usage	58
3.3 VIS-MAU-T unit	62
3.3.1 Features and interfaces	62
3.3.2 Connection	63
3.3.3 Settings and usage	64
3.3.3.1 Setting unit ID	64
3.3.3.2 Setting unit types and rights	65
3.3.3 Usage	65
3.4 VIS-ACC/ACD/DAC/DAD-T units	68
3.4.1 Features and interfaces	68
3.4.2 Connection	69
3.4.3 Settings and usage	69
3.5 VIS-DCC/DCD/CSU/DVU/SPK/FFC/FFD-F/FS/FS1/FS2/F1/F2 units	70
3.5.1 Features and interfaces	70
3.5.2 Installation	74
3.5.2.1 Hole sizes	74
3.5.2.2 Installation steps	
3.5.3 Connection	75
3.5.4 Settings and usage	
3.6 VIS-WDC/WDD/WVC/WVD/WVCIC/WVDIC-T units	
3.6.1 Features and interfaces	77
3.6.2 Connection	
3.6.3 Settings and usage	
3.7 VIS-MAW-T unit	
3.7.1 Features and interfaces	
3.7.2 Connection	86
3.7.3 Settings and usage	
3.7.3.1 Setting unit ID	
3.7.3.2 Setting unit types and rights	
3.7.3.3 Usage	
3.7.4 Web page of charger	
3.7.4.1 Connection and login	
3.7.4.2 Web-based management	
4. VIS-INT64 interpreter unit	
4.1 Features and interfaces	
4.2 Connection	
4.2.1 Connected to controller	
4.2.2 Connected to infrared transmitter	
4.3 Settings and usage	
4.3.1 Setting unit ID (only for connected to controller)	
4.3.2 Setting interpretation channel	100

4.3.3 Usage	100
4.3.3.1 Setting operator	100
4.3.3.2 Screen contents	101
5. Extension devices	103
5.1 VIS-EXM extension main unit	103
5.2 VIS-CNB splitter box	103
5.3 VIS-HL network cable	104
6. AP	105
6.1 Features and interfaces	105
6.2 Installation	105
6.2.1 Installation diagram	105
6.2.2 Installation precautions	106
6.3 Connection	107
6.4 Settings and usage	107
6.4.1 Changing the AP channel	107
6.4.1.1 Connection	107
6.4.1.2 Configuration on Web page	109
6.4.2 Changing the SSID and password	111
6.4.2.1 Changing the SSID and password of wireless conference system	111
6.4.2.2 Changing the SSID and password of AP	113
6.4.3 Restoring to factory settings	114
7. System connection and use case	116
7.1 System planning	116
7.2 System connection	117
7.3 Use case	120
8. Technical specifications	122
8.1 Camera tracking protocol	122
8.2 Devices	123
8.2.1 VIS-DCP2000-D	123
8.2.2 VIS-DCP2000-W	
8.2.3 VIS-DCC/DCD/DVC/DVD/DVCIC/DVDIC/DIC/DID/DSC/DSD-T	125
8.2.4 VIS-DMD-T	125
8.2.5 VIS-MAU-T	126
8.2.6 VIS-DAC/DAD-T	127
8.2.7 VIS-DCC/DCD/CSU/DVU/SPK/FFC/FFD-F/FS/FS1/FS2/F1/F2	127
8.2.8 VIS-WDC/WDD/WVC/WVD/WVCIC/WVDIC-T	128
8.2.9 VIS-MAW-T	129
8.2.10 VIS-WBTY1	130
8.2.11 VIS-WCH1	130
8.2.12 VIS-WBTY2/VIS-WBTY2-H	130
8.2.13 VIS-WCH2	131
8.2.14 VIS-INT64	131
8.2.15 VIS-EXM/VIS-CNB/VIS-AP4C	132

1. System overview

1.1 System features

CLEACON series of full digital network DSP conference system, based on VISSONIC's selfdeveloped AUDIO-LINKTM voice distribution and processing technology, can offer the features of discussion, voting, interpretation, sign-in, and control by computer software. The system supports audio zoning, USB voice recording and monitoring, and camera tracking. With a highperformance DSP processor that provides the audio processing algorithm, equalization technology. In addition, the system supports hand in hand loop network and hot backup of the conference controller.

The VISSONIC wireless conference system has all the features of the wired conference system previously mentioned. Besides, the wireless system uses the standard 5G WiFi technology and the WPA2-PSK (AES) encryption technology to provide a broader bandwidth with less interference, higher security and confidentiality, and easier to install, use, transfer.





Figure 1.1.1 Wired conference system





Figure 1.1.2 Wireless conference system

1.2 System composition

A basic VISSONIC wired conference system consists of a conference controller, conference units, and CAT5e cables. An extension main unit VIS-EXM can be added for connecting more conference units or increasing the communication distance. A splitter box VIS-CNB can be added for connecting an array unit. A wireless conference system contains an additional Access Point (AP) VIS-AP4C.

The conference controller, as the core in the conference system, controls all conference units independently and supplies power to these units through POE. VISSONIC conference management software can also be used on demand of more control and management features.

In the conference system, conference units are basic device used by attendees in a conference. The features, permissions, and appearance vary with the model of the conference unit. For example, the features include discussion, voting, interpretation, and sign-in. The unit provides permissions for chairman, delegate, etc. The appearance varies with different installation modes, such as desktop, array, or flush-mounting.

This manual is applicable to:

- ✓ Full Digital Wireless DSP Conference Controller VIS-DCP2000-W
- ✓ Full Digital Networked DSP Conference Controller VIS-DCP2000-D
- ✓ CAT5 Wired Digital Discussion Chairman/Delegate Unit VIS-DCC-T/VIS-DCD-T
- ✓ CAT5 Wired Digital Voting Chairman/Delegate Unit with Channel Selector VIS-DVC-T/VIS-DVD-T
- ✓ CAT5 Wired Digital Discussion+Voting IC Card Chairman/Delegate Unit with Channel Selector VIS-DVCIC-T/VIS-DVDIC-T
- ✓ CAT5 Wired Digital Interpreter Chairman/Delegate Unit VIS-DIC-T/VIS-DID-T
- ✓ CAT5 Wired Dual Channels Chairman/Delegate Unit with Channel Selector VIS-DSC-T/VIS-DSD-T
- ✓ Multimedia Digital Conference Unit with Touch Screen VIS-DMD-T
- ✓ Multimedia Wired Touch Screen Unit VIS-MAU-T
- ✓ 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 Flush-mounting Discussion Chairman/Delegate Unit VIS-DCC-F/VIS-DCD-F (all-round type) and VIS-DCC-FS/VIS-DCD-FS (economic type)
- ✓ CAT5 Digital Flush-mounting 64 Channels Selector Unit VIS-CSU-F
- ✓ CAT5 Digital Flush-mounting Voting Unit VIS-DVU-FS1 (with IC Card Reader) and VIS-DVU-FS2
- ✓ Flush-mounting Speaker Unit VIS-SPK-F
- ✓ Flush-mounting All-in-one Discussion Chairman/Delegate Unit with Voting and Channel Selector VIS-FFC-F1/VIS-FFD-F1 (simple type) and VIS-FFC-F2/VIS-FFD-F2 (big screen type)

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- ✓ Wireless Digital Discussion Chairman/Delegate Unit VIS-WDC-T/VIS-WDD-T
- ✓ Wireless Digital Discussion+Voting Chairman/Delegate Unit VIS-WVC-T/VIS-WVD-T
- ✓ Wireless Digital Discussion+Voting IC Card Chairman/Delegate Unit VIS-WVCIC-T/ VIS-WVDIC-T
- ✓ 5G Wireless Multimedia Conference Unit VIS-MAW-T
- ✓ 64 Channels Interpreter Desk VIS-INT64
- ✓ Extension Main Unit VIS-EXM
- ✓ Splitter Box VIS-CNB
- ✓ 5.0 GHz Conference Access Point VIS-AP4C

2. Conference controller

2.1 VIS-DCP2000-D/W conference controller

2.1.1 Features and interfaces

VIS-DCP2000-D is a wired conference controller that supports wired Ethernet connection. This controller controls all connected conference units and supplies power to these units through POE.

VIS-DCP2000-W is a wireless conference controller that supports 5G WiFi wireless connection and wired Ethernet connection. This controller controls all connected conference units and supplies power to wired conference units through POE.

Configure whole conference system with the buttons on the front panel of the conference controller in the system.



Figure 2.1.1 VIS-DCP2000-D/W front and rear panels

Front panel:

No./Name	Description	
1. Power Switch	Power on or off the controller.	
2. Display	Show the current status or the result of 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.	



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5. USB Slot	To insert USB disk (Up to 32G, FAT32) 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.	

Rear panel:

Interface	Introduction			
	RCA audio input from external audio sources like MP3.			
8. Audio Inputs (IN 1)				
9. Audio Inputs (IN 2)	XLR audio input from external audio sources like Microphone and			
	remote audio input.			
	To use the AEC echo cancellation function of the controller, the			
	audio output of the video terminal must be connected to the IN2			
	input port.			
10. Audio Outputs	RCA audio output to external audio devices like PA system,			
(OUT 1)	loudspeakers etc. and can be set as zone 1 output.			
11. Audio Outputs	XLR audio output to external audio devices like Mixer, PA system			
(OUT 2)	etc. and can be set as zone 2 output.			
12. Audio Outputs	Phoenix audio output. OUT3 and OUT4 can be set respectively as			
(OUT 3, OUT 4,	zone 3 and zone4 output. OUT4 also can be set as echo cancellation			
OUT 5, OUT 6,	remote audio output. OUT5, OUT6, OUT7, OUT8 is corresponding			
OUT 7, OUT 8)	to the interpretation CH1, CH2, CH3, CH4.			
	OUT4 is used as audio output of the controller to the remote terminal when the AEC acoustic echo cancellation function is used.			
13. Audio Link	Extend to the next controller for conference room combination and			
	audio exchange.			
14. CU/DU	It is used to connect chairman unit, delegate unit, interpreter unit or			
1	POE speaker. Hand in hand loop connection can be made between			
	port 1 and port 2 or between port 2 and port 3.			
15. AP (Only available	Connect to 5GHz Professional Conference Access Point VIS-			
for VIS-DCP2000-W)	AP4C.			
16. Control	Female DP9 connector is used to connect with camera auto-tracking			
	controller.			
17. Control	Male DP9 connector is used to connect with the camera chains or			
	third-party central controller.			
18. Keyboard	Connect to the camera control keyboard.			
19. Ethernet	Connect to PC or switch for the software control.			
20. Ground jumper	Connect the controller to the ground.			
21. Power inlet	Connect the controller to the main power supply with a power cable.			
	100-240V AC.			
	1			

2.1.2 Installation

The conference controller can be installed in a standard 19-inch cabinet. On both sides of the front panel are standard screw holes for mounting the conference controller in the cabinet. The installation diagram is as follows.



Figure 2.1.2 Mounting the conference controller

2.1.3 Connection

2.1.3.1 Connecting the power supply

Use the attached power cable to connect the conference controller to an external power socket.



Figure 2.1.3.1 Power interface of the conference controller

Warning: The controller power supply needs to be well grounded to avoid accidents that endanger personal safety.

2.1.3.2 Connecting audio inputs

The conference controller provides two types of audio input ports, RCA and XLR. The port diagram and pin descriptions are as follows.



Figure 2.1.3.2 Audio input ports

Туре	Pin	Signal	Description
RCA	1	Live	Signal input
KCA	2	Return	Shield/ground
	3	External	Shield/ground
XLR	4	Live	Positive
	5	Return	Negative

2.1.3.3 Connecting audio outputs

The conference controller provides three types of audio output ports, RCA, XLR, and Phoenix. The port diagram and pin descriptions are as follows.



Figure 2.1.3.3 Audio output ports

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Туре	Pin	Signal	Description
RCA	1	Live	Signal input
	2	Return	Shield/Ground
XLR	3	External	Positive
	4	Live	Shield/Ground
	5	Return	Negative
Phoenix	6	+	Positive
	7	-	Negative
	8	G	Shield/Ground

2.1.3.4 Connecting the conference controller

The Audio Link ports of the conference controller are used for connecting other conference controllers. Conference systems can be integrated by connecting their controllers with CAT5e cable.



Figure 2.1.3.4 Audio link ports

2.1.3.5 Connecting conference units

The CU/DU ports of the conference controller are used to connect conference units, VIS-CNB splitter boxes, VIS-EXM extension main units, or POE speakers. VIS-CNB can be used to connect more units. VIS-EXM can be connected to increase the capacity and transmission distance. VISSONIC offers dedicated CAT5e cables for connection. You can also purchase qualified CAT5e cables.



Figure 2.1.3.5 CU/DU conference unit ports

2.1.3.6 Connecting an AP (only for VIS-DCP2000-W)



Figure 2.1.3.6 AP port

The AP port of wireless conference controller is used for connecting to VIS-AP4C 5.0 GHz AP. If multiple VIS-AP4C APs are used, connect the AP port of the conference controller to a POE switch or a VIS-CNB splitter box, through which the controller connects to the VIS-AP4C APs. Use a CAT5e cable for the connection.

Note: It's **NOT** recommended to connect other devices to the POE switch. It should connect the controller VIS-DCP2000-W and up to 8 pieces of VIS-AP4C.

2.1.3.7 Connecting for camera tracking

The CONTROL and KEYBOARD interfaces of the conference controller are used for the camera tracking feature.

1. The CONTROL interface consists of two RS232 COM ports, as shown in the following figure.



Figure 2.1.3.7.1 CONTROL interface

• The upper COM port is a female connector for connecting a VIS-CATC-A/B camera tracking controller, which is used to switch channels during camera tracking. The following table lists the default commands for channel switching. If want to customize the commands, contact us for online firmware update.

Command	Description
1V1.	Switch the channel 1 to output
2V1.	Switch the channel 2 to 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

Baud rate: 9600bps, parity: 8, Stop: 1.

- The lower COM port is a male connector for connecting a camera or a third-party central controller.
- The pin descriptions of the upper and lower COM ports are as follows:



Figure 2.1.3.7.2 Pin descriptions of the CONTROL interface

Pin description of the upper COM port (DB9 female/hole)

Pin	Signal	Description
1	-	Null
2	TXD	Transmit data
3	RXD	Receive data
4	-	Null
5	GND	Signal ground



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

Pin descriptions of the lower COM port (DB9 male/pin)

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

2. The KEYBOARD interface is used for connecting a camera control keyboard. Use a CAT5 cable to connect this interface.

KEYBOARD



Figure 2.1.3.7.3 KEYBOARD interface

2.1.3.8 Connecting the PC software

The ETHERNET port of the conference controller can be connected to a PC directly for using the VISSONIC conference management software, or connected to a switch through which the conference controller communicates with the PC. Use a standard network cable to connect this port.

ETHERNET

_			
 ~			×.
 	 	-	

Figure 2.1.3.8 ETHERNET port

2.1.4 Settings and usage

2.1.4.1 Menu and operations

After completing the installation and connection of a conference system, use the buttons on the front panel of the conference controller to operate the menu and complete related settings on the display screen before starting a conference.

Turn on the conference controller. The screen displays "Initializing...". Wait for three seconds. The home screen is displayed, as shown in the following figure. The home screen shows the number of online conference units (0001-4000) connected in the system, the MIC mode (Override, Voice, Open, or Apply) of the current conference, and the maximum number of simultaneously active microphones of delegate units (For VIS-DCP2000-D, the number can be 1/2/4/6; for VIS-DCP2000-W, the number can be 1/2/4).



Press "ENTER" to enter the top-level menu, as shown in the following figure. Use the "▲",
"▼", "ENTER", and "ESC" buttons to browse and operate the menus on different levels.



- a) Press "ENTER" to enter the next-level submenu. Press "ESC" to return to the previouslevel submenu. Press "▲" or "▼" to browse submenus on the same level.
- b) After a bottom-level parameter is displayed (as an item highlighted in green in Figure 2.1.4.1 or Figure 2.1.4.2), press "▲" or "▼" to adjust the parameter that is pointed to by the arrow, and then press "ENTER" to confirm the parameter setting.
- 3. The volume knob "MASTER VOL" is used to adjust the output volume. The screen displays the volume value directly. For the description of related operations, see Section 2.1.4.10.

Figure 2.1.4.1 shows the menu of VIS-DCP2000-D. Figure 2.1.4.2 shows the menu of VIS-DCP2000-W. The menu version is B4.98W.













Figure 2.1.4.1 Menu of the wired conference controller



Active MIC Active MIC I.2.4 Volume Line in Oto -40dB,Mute Oto -40dB,Mute	
Line out 0 to -40dB,Mute	
Remote in 0 to -40dB,Mute	
DSP Enable On/Off	
DSP1 APC-ANC 6dB,12dB,18	dB,24dB,Off
AFC Enable On Off	
→ AFC-Lever → 1.2,3,4,5	
AEC Enable On/Off	
AEC-ANC	3,11dB,13dB,Off
Zone Out 1 D 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 D zone 0 to 4000	
zone 1 Gain b 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 D 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	
DSP 1 Off,1,2,3,4	
Remote Out Off, 1, 2, 3, 4	









Figure 2.1.4.2 Menu of the wireless conference controller

2.1.4.2 Setting MIC mode

Enter the top-level menu on the home screen, press " $\mathbf{\nabla}$ " or " $\mathbf{\Delta}$ " to enter the setting screen of the MIC mode or the maximum number of simultaneously active microphones of delegate units. If the conference controller is connected to a PC, also can use the VISSONIC conference management software for setting.

Menu item	Parameter	Description	
MIC mode	Override	In the override mode, delegates can activate their microphones	
		with the microphone button on their units. When the maximum	
		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 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 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	Wired	Maximum number of simultaneously active microphones of	
	controller:	delegate units.	
	1, 2, 4, 6	Note: (1) In Voice mode, the parameter value is 6, which cannot	
	Wireless	be adjusted. (2) If the parameter is set to 6 for a wired conference	
	controller:	controller or 4 for a wireless conference controller, two chairman	
	1,2,4.	microphones are allowed to be activated simultaneously.	

For example, to set the "Active MIC" parameter to 6, the operation is as follows:

1. From the home screen, press the "ENTER" button to enter the top-level menu;



2. Press the "▼" button to select the menu option "Active MIC";

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3. Press the "ENTER" button to enter the menu;

Acti	ve M	IC :	1	
- > 1	2	4	6	

4. Press the " $\mathbf{\nabla}$ " button to select the value "6";



5. Press "ENTER" to make the current value "6" take effect and display it on the first line of the current screen;

6. The setting is successful, press "ESC" to return to the home screen.

2.1.4.3 Setting DSP

The "DSP" menu allows to set parameters of the audio processing algorithm. Set the parameters in the "DSP" menu to adjust the sound effect of the conference system.

Menu item	Parameter	Parameter value	Description
			Turn on or off the DSP sound effect processor.
			If the customer needs to test the original sound
Enable -	On/Off	effect of the conference system or the	
			processing effect of external audio equipment,
		the DSP processor can be turned off here.	



			Active Noise Cancellation (ANC) up to 24dB.
			ANC is disabled when the parameter is set to
			Off. Note:
			1. When audio zoning is disabled (select
			"Zone" \rightarrow "Zone Setup" \rightarrow "Enable" \rightarrow "Off"),
		6dB, 12dB, 18dB,	DSP1 processes the output audios of OUT1,
	AFC-ANC	24dB, Off	OUT2, OUT3, and OUT4 at the same time
			with the same effect.
			2. When audio zoning is enabled (select
			"Zone" \rightarrow "Zone Setup" \rightarrow "Enable" \rightarrow "On"),
			DSP1 can only process one output audio
			among OUT1, OUT2, OUT3, and OUT4.
		On/Off	Adaptive Feedforward Cancellation (AFC) is
DCD1	AFC Enable		used for howling suppression. AFC is enabled
DSP1			when the parameter is set to On. AFC is
			disabled when the parameter is set to Off.
	AFC-Lever	1, 2, 3, 4, 5	AFC level, a total of 5 adjustable levels.
		On/Off	Acoustic Echo Cancellation (AEC). AEC is
			enabled when the parameter is set to On. AEC
			is disabled when the parameter is set to Off.
	AEC Enable		After being enabled, the AEC feature works
	ALC Ellable	011/011	only when the input channel IN2 is used to
			receive audio input from a remote terminal and
			the output channel OUT4 is used to send audio
			output to the remote terminal.
		3dB, 5dB, 7dB,	AEC degree. No acoustic echo is canceled
	AEC-ANC	9dB, 11dB, 13dB, Off	when this parameter is set to Off.
			when this parameter is set to Off.

For example, when the DSP is turned on or off, the screen is as follows:

• Turn on DSP

Enable: On -> On

• Turn off DSP

Enable:Off -> Off

2.1.4.4 Setting audio zones

The "Zone" menu is used to set the audio zone and its output volume, and to select the audio channel output to the remote terminal.

The zone is off by default, and AEC of "DSP1" is also off by default (menu "DSP" \rightarrow "DSP1" \rightarrow "AEC Enable" \rightarrow "Off"), and the OUT1, OUT2, OUT3 and OUT4 ports output the same audio. Before use the zone function, please open it (menu "Zone" \rightarrow "Zone Setup" \rightarrow "Enable" \rightarrow "On"), and set other parameters as shown in the table below.

Menu item	Parameter	Parameter value	Description
Out 1	ID zone	X1 (1-4000)	Audios from Zone 1 are output to OUT1.
			ID zone : Set the ID range of units in Zone
			1. The range starts from 1 by default. If set
			ID zone to X1 (1-4000), the unit ID in
			Zone 1 starts from 1 to X1.
	Zone 1 Gain	0 to -40 dB, Mute	Zone 1 Gain: Set the audio gain of unit
			microphones in Zone 1 to OUT1. If set
			Mute, no audio is sent to OUT1.
	Zone 2 Gain	0 to -40 dB, Mute	Zone 2 Gain: Set the audio gain of unit
			microphones in Zone 1 to OUT2. If set
			Mute, no audio is sent to OUT2. Default is
			Mute.
	Zone 3 Gain	0 to -40 dB, Mute	Zone 3 Gain: Set the audio gain of unit
			microphones in Zone 1 to OUT3. If set
			Mute, no audio is sent to OUT3. Default is
			Mute.
	Zone 4 Gain	0 to -40 dB, Mute	Zone 4 Gain: Set the audio gain of unit
			microphones in Zone 1 to OUT4. If set
			Mute, no audio is sent to OUT4. Default is
			Mute.
OUT 2	ID zone	X2 (X1+1 to 4000)	Audios from Zone 2 are output to OUT2.
			ID zone : Set the ID range of units in Zone
			2. The range starts from X1+1 by default.
			If set ID zone to X2 (X1+1-4000), the unit
			ID in Zone 2 starts from X1+1 to X2.
	Zone 1 Gain	0 to -40 dB, Mute	Zone 1 Gain: Set the audio gain of unit
			microphones in Zone 2 to OUT1. If set
			Mute, no audio is sent to OUT1. Default is
			Mute.
	Zone 2 Gain	0 to -40 dB, Mute	Zone 2 Gain: Set the audio gain of unit
			microphones in Zone 2 to OUT2. If set
			Mute, no audio is sent to OUT2.
	Zone 3 Gain	0 to -40 dB, Mute	Zone 3 Gain: Set the audio gain of unit



			minut in Zana 2 to OUT2 If and
			microphones in Zone 2 to OUT3. If set
			Mute, no audio is sent to OUT3. Default is
			Mute.
	Zone 4 Gain	0 to -40 dB, Mute	Zone 4 Gain: Set the audio gain of unit
			microphones in Zone 2 to OUT4. If set
			Mute, no audio is sent to OUT4. Default is
			Mute.
OUT 3	ID zone	X3 (X2+1 to 4000)	Audios from Zone 3 are output to OUT3.
			ID zone : Set the ID range of units in Zone
			3. The range starts from X2+1 by default.
			If set ID zone to X3 (X2+1-4000), the unit
			ID in Zone 3 starts from X2+1 to X3.
	Zone 1 Gain	0 to -40 dB, Mute	Zone 1 Gain: Set the audio gain of unit
			microphones in Zone 3 to OUT1. If set
			Mute, no audio is sent to OUT1. Default is
			Mute.
	Zone 2 Gain	0 to -40 dB, Mute	Zone 2 Gain: Set the audio gain of unit
			microphones in Zone 3 to OUT2. If set
			Mute, no audio is sent to OUT2. Default is
			Mute.
	Zone 3 Gain	0 to -40 dB, Mute	Zone 3 Gain: Set the audio gain of unit
			microphones in Zone 3 to OUT3. If set
			Mute, no audio is sent to OUT3.
	Zone 4 Gain	0 to -40 dB, Mute	Zone 4 Gain: Set the audio gain of unit
			microphones in Zone 3 to OUT4. If set
			Mute, no audio is sent to OUT4. Default is
			Mute.
OUT 4	ID zone	X4 (X3+1 to 4000)	Audios from Zone 4 are output to OUT4.
0011			ID zone : Set the ID range of units in Zone
			4. The range starts from X3+1 by default.
			If set ID zone to $X4$ (X3+1-4000), the unit
			ID in Zone 4 starts from $X3+1$ to $X4$.
	Zone 1 Gain	0 to -40 dB, Mute	Zone 1 Gain : Set the audio gain of unit
	Zone i Gani	0 to -40 db, Mute	, i i i i i i i i i i i i i i i i i i i
			microphones in Zone 4 to OUT1. If set
			Mute, no audio is sent to OUT1. Default is
	7 201		Mute.
	Zone 2 Gain	0 to -40 dB, Mute	Zone 2 Gain: Set the audio gain of unit
			microphones in Zone 4 to OUT2. If set
			Mute, no audio is sent to OUT2. Default is
			Mute.
	Zone 3 Gain	0 to -40 dB, Mute	Zone 3 Gain: Set the audio gain of unit
			microphones in Zone 4 to OUT3. If set
			Mute, no audio is sent to OUT3. Default is
			Mute.



	Zone 4 Gain	0 to -40 dB, Mute	Zone 4 Gain: Set the audio gain of unit
			microphones in Zone 4 to OUT4. If set
			Mute, no audio is sent to OUT4.
Zone Setup	Enable	On/Off	Turn on or off the audio zone function.
	DSP1	Off, 1, 2, 3, 4	When the audio zone 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 zone
			function to open (Menu "Zone"→"Zone
			Setup" \rightarrow "Enable" \rightarrow "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" \rightarrow "Enable") is
			turned on, and AEC (menu
			"DSP" \rightarrow "DSP1" \rightarrow "AEC") is also turned
			on, the remote output of OUT4 channel has
			AEC echo cancellation processing (The
			remote audio will also be collected by the
			local microphone when it is amplified
			locally, and needs to be processed before
			being transmitted to the remote terminal).

Application:

- Application 1: Change the sensitive of MICs. There are two MICs on the chairman desk, 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 increase the output gain on the auditorium.

Turn on or off is displayed as follows (menu "Zone" \rightarrow "Zone Setup" \rightarrow "Enable"):

• Turn on zone

Enable: On -> On



• Turn off zone

The following is an example of zone settings:

Unit IDs are used to determine the range of microphones in a zone. The range of Zone 1 starts from 1 to the configured maximum ID by default. For example, if the maximum ID in Zone 1 is set to 15, the units with IDs in the range from 1 to 15 are in Zone 1 and audios from the zone are output from OUT1 by default.



- After entering the "ID zone" menu, set the first digit to 0. The up or down button can be used to adjust the digit (0-9). Press "ENTER" to activate the second digit. A underscore cursor appears under the second digit, indicating that the digit can be set. Set the second digit to 0. Then follow the same procedure to set the third digit to 1 and the fourth to 5. After setting all digits, press "ENTER" to confirm the ID zone and then press "ESC" to exit. The range of Zone 1 is successfully set to 1-15.
- 2. Set a sound gain (sound volume) from Zone 1 to OUT1. The range is 0 to -40dB. If the parameter value is set to Mute, the sound from Zone 1 to OUT1 is muted.



3. The operations for Zone 2 are similar to those previously described. For example, if the ID zone of Zone 2 is set to 40, the range of microphones in Zone 2 is 16 to 40. Audios from Zone 2 are output to OUT2 by default.

2.1.4.5 Setting recording

The conference controller supports audio recording up to 32GB on a USB flash drive in FAT32 format. Use the submenu under the "Recording" menu to set the parameters related to recording.

Menu item	Parameter	Parameter value	Description
Set	Quality	32, 64, 96, 128 kbps	Sets the quality of sound recorded in
			MP3 format.
	ANC	On/Off	Enables or disables ANC for noise
			suppression during recording.

For example, to set 32kbps quality. Enter the menu "Recording" \rightarrow "Set" \rightarrow "Quality", and refer to the example in Section 2.1.4.4 for setting the value.



2.1.4.6 Setting conference unit

Enter the "Delegate Setup" menu to set related parameters of a conference unit.

Menu item	Parameter	Parameter value	Description
Unit Info.	Total Units	0000-4000	Show the quantity of delegate/chairman
			units that connected to the system and
			help to check the system fault.
Time	Enable	On/Off	Set the time display on the whole
	Hour	00 to 23	system, including the OLED display in
	Minute	00 to 59	the delegate unit. If set the "Enable" to off, the clock do not display on the delegate unit.
	Second	00 to 59	
	Year	2016 to 2115	
	Month	01 to 12	
	Date	01 to 31	
	Day	MON. to SUN.	
Volume	-	0 to -40 dB, Mute	Set the volume for the speaker 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	Automatic Gain Control (AGC) function
			switch.
ANC enable	-	On/Off	ANC function switch. Reduce the noise
			for speaker and headphone on delegate
			unit. (Note: Any noise reduction
			technology will affect the audio quality,


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		[
			if customer pursue tone quality, please
			set off the ANC)
EQ	EQ Select	All, Host, XXXX	Devices for which EQ needs to be set.
			"All" indicates all devices. "Host"
			indicates the conference controller.
			"XXXX" indicates a working conference
			unit with the ID XXXX (such as ID
			0001 or ID 0002).
	EQ Enable	On/Off	EQ switch
	EQ1EQ8	+12dB to -12dB	8-band EQ settings. The adjustable range
			of each band is from +12dB to -12dB.
			The default value is 00dB.
Unit Type Set	-	Off, On, All delegate	Refer to Section 3.1.3.2
Time Speech	-	01 to XX (minute),	Speech time of the conference unit. A
		Off	countdown timer is displayed for the
			conference unit during the speech.
Speech mode	-	Manual off, Auto off	Method used to turn off the microphone
			when the speech countdown of the
			conference unit ends. (Custom)
			If the value is set to "Manual off", the
			microphone is automatically turned off
			when the speech ends. If the value is set
			to "Auto off", a message is displayed,
			prompting the conference unit to turn off
			the microphone manually when the
			speech ends.
Sound Effect	-	On/Off	Enables or disables the sound effect.
			(Custom)

For example, set the hour of the unit display time to 22. Enter the menu "Delegate Setup" \rightarrow "Time" \rightarrow "Hour", and refer to the example in Section 2.1.4.4 for setting the value.

Hour:	22
-> 2 <u>2</u>	

For another example, in the menu "Delegate Setup" \rightarrow "Speaker", turn on/off the speaker of the delegate unit.

● Turn on the speaker of delegate unit (menu "Delegate Setup"→"Speaker"→"On"):

● Turn off the speaker of delegate unit (menu "Delegate Setup"→"Speaker"→"Off"):

Enable:Off -> Off

2.1.4.7 Setting interpreter unit

Enter the "Interpretation" menu to set related parameters of an interpreter unit.

Menu item	Parameter	Parameter value	Description
Max. channel	-	02 to 32	Limit the channel number according
			to the need and reduce the operation
			on unit.
Channel lang.	00;	Chinese, English,	Binds a language to each channel.
	01;	(104 languages);	"floor" indicates the channel of
		Chinese, English,	original sound.
	32;	(104 languages);	
	floor		
		Chinese, English,	
		(104 languages);	
		floor	
Auto floor	-	On/Off	"On" indicates that auto floor is
			enabled. When the microphone of the
			interpreter unit is turned off
			(interpretation stopped), the
			interpreter unit automatically
			switches the original sound to the
			interpretation channels for output.
			"Off" indicates that auto floor is
			disabled. When the microphone of
			the interpreter unit is turned off
			(interpretation stopped), no audio is
			output from the interpretation
			channels.



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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	02 to 32	Max. boothset the booth quantity.
	Start set	On/Off	OnAll 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.
			Offfinish setting.
			Turn on the microphone of any
			interpreter unit, and the loudspeakers
			of all interpreter units in the same
			booth will be automatically turned
			off.

2.1.4.8 Setting camera tracking

Enter the "CAMERA" menu to set the camera tracking feature.

Menu item	Parameter	Parameter value	Description
Protocol	-	SAMSUNG,	Select a protocol for the
		PELCO-D,	communication between the conference
		VISCA,	controller and a camera according to
		CUSTOM,	the camera in use.
		VCA-UDP	If a third-party central controller is
			used, select "CUSTOM" and no longer
			need to set "Camera map" and "Start
			Set".
Camera map	Camera select	001 to 016	Camera select: Select a camera. Up to
	Camera addr	Off, 001 to 255	16 cameras are supported.
	Video channel	Off, 001 to 255	Camera addr: Set the address of the
			camera selected in "Camera select".
			Need to set a camera address for the
			SAMSUNG and PELCO-D protocols.
			If the selected protocol is VISCA, set
			the parameter to Off.
			Video channel: Bind the current
			camera address. If no video matrix
			switch is connected to the conference



			controller, set the parameter to Off.
			Note: Repeat the following operations
			to set the next camera:
			"Camera Select"→"Camera addr"
			\rightarrow "Video channel".
			The conference controller records the
			parameter settings of each camera.
	UDP addr	Off, 001 to 255	UDP addr : Bind the IP address of a
			network camera. If the selected
			protocol is VCA-UDP, the camera IP
			address is required.
Start Set	-	01 to 16	Select the current camera (No. 01 to
			16), and then set the microphone
			position of each unit for tracking. The
			steps are as follows:
			Step 1: Set the parameter to "01",
			which corresponds to camera 01.
			Step 2: Use the remote control to adjust
			the camera to track the microphone of
			the first unit in the camera coverage.
			Step 3: Press the on/off button of the
			photographed microphone.
			Step 4: Use the remote control to adjust
			the camera to track the microphone of
			the next unit in the camera coverage.
			Step 5: Press the on/off button of the
			photographed microphone.
			Step 6: Repeat Step 4 and Step 5 to set
			all microphones in the coverage of
			camera 01.
			Step 7: Set the parameter to "02",
			which corresponds to camera 02.
			Step 8: Repeat Step 2 to 6 to complete
			the setting of camera 02. Complete the
			tracking settings for all the other
			cameras in the same way.
			Step 9: After setting the last camera for
			the microphone of the last unit, adjust
			the camera to get a panoramic view of
			the conference and then press "ESC" to
			exit the "Start Set" menu. The
			panoramic view is called when the
E		00- +- 20	microphones of all units are turned off.
Freeze Time	-	00s to 30s	Delay time needed for the camera



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			tracking controller to switch the camera view. The delay time ranges from 0 to 30 seconds.
Video Mode	-	Normal/Recorder	Two video modes are optional. Select "Recorder" when VIS- CRS02/03/04/05B or VIS- CRS02/03/05A is used.
Camera Track	-	On/Off	Enables or disables the camera tracking feature.

The following example shows how to set two cameras when the protocol VISCA, SAMSUNG/PELCO-D, or CUSTOM is used.

- 1. Connect the camera (or a third-party central controller) to the lower COM port of the CONTROL interface on the conference controller.
 - Cameras using the VISCA protocol.



• Cameras using the SAMSUNG/PELCO-D protocol.



- 2. Connect the RS232 port of the camera tracking controller to the upper COM port of the CONTROL interface on the conference controller.
 - Connect to the VIS-CATC-A camera tracking controller through RS232.



3. If the CUSTOM protocol is used (that is, a third-party central controller is used), no longer need to set "Camera map" and "Start Set".

- 4. If the VISCA or SAMSUNG/PELCO-D protocol is used:
 - a) Enter the "Camera map" submenu, select a camera, set the camera address, and bind the address. For the operation details, see the description of menu parameters in this section.
 - b) Enter the "Start Set" submenu, and then use the camera remote control, keyboard, or CLEACON software to set the tracking position for each camera one by one. For the operation details, see the description of menu parameters in this section.

2.1.4.9 Setting network address

Menu	Parameter	Parameter	Description
item		value	
IP	Option 1	000 to 255	Set the static IP for the conference controller.
	Option 2	000 to 255	Default IP address:192.168.10.100
	Option 3	000 to 255	Port:10166
	Option 4	000 to 255	
	Enter	Save/Exit	
MAC	Option 1	000 to 255	Set the MAC address for the conference controller.
	Option 2	000 to 255	Note: Under the same local area network, multiple
	Option 3	000 to 255	conference controllers should be set with different
	Option 4	000 to 255	MAC.
	Option 5	000 to 255	
	Option 6	000 to 255	
	Enter	Save/Exit	

Enter the "Network" menu to set the IP address and physical address of the conference controller.

2.1.4.10 Setting POE speaker

Enter the "POE Speaker" menu to set the output volume of the conference controller and the volumes of POE speakers connected to the controller.

Menu item	Parameter	Parameter	Description
		value	
ALL Speaker	-	-50 to 24dB,	Set the volume of all POE speakers.
		Mute	
Speaker 1 to 16	-	-50 to 24dB,	The volume of a speaker can be
		Mute	adjusted according to the ID of the
			POE speaker, and the volume of a



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			maximum of 16 POE speakers can
			be adjusted.
Volume Select	All POE Speaker	-	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	-	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	-	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	Switch used to enable or disable the
			editing of POE speaker IDs. See the
			ID editing steps following this
			table.

The steps of editing a POE speaker ID are as follows:

1. Enter the "POE Speaker" submenu, set " ID Set" to "On", and then press "ESC" to return to the home screen, as shown in the following figure:



2. Long press "ESC" for about two seconds. The system enters the ID editing status. The display on the LCD screen is as follows:



- 3. Connect one end of a network cable to the CU/DU port of the conference controller and connect the other end to the first POE speaker. If the speaker is already connected, unplug the network cable and replug it back to the speaker. The ID of the POE speaker is successfully set to 1. Use the same method to edit the IDs of the other POE speakers one by one.
- 4. After editing the IDs of all POE speakers, long press "ESC" for about two seconds to return to the home screen. The setting of POE speaker IDs is complete.

2.1.4.11 Setting system configuration

Enter the "Configuration" menu to set the configuration of the conference system.

Menu item	Parameter/Value	Description
Language	CH/EN	Change the language for delegate/chairman unit
		(Note: We can change the language according to
		your need by updated the firmware).
Auto Mix	On/off	Auto MIX ON/OFF
Save power	On/Off	In the voice control mode, the volume threshold
		required to trigger the microphone to automatically
		turn on can be set.
Voice Gate	-10dB to -60dB	In the voice control mode, can set the time when the
		microphone is turned on and off automatically.
Auto offTime	3s, 6s, 12s, 24s, 35s,	In the noise control mode, the volume threshold
	70s, 140s	required to trigger the microphone to automatically
		turn on can be set.
Noise Gate	-40dB to -60dB	Note: Not ready, plan for system power saving.
Download	Run/Host/Unit	The default setting is "Run" to keep the system run
		faster. When need to update the firmware for the
		controller, select "Host" .When need to update the
		firmware for the conference units, select "Unit"
		(Note: Don't change the default setting "RUN", only
		if 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,	If the conference system has a dual-controller hot
	Slave+Audio, Only	backup architecture, select one conference controller
		as the primary controller (Master) and the other as
		the secondary controller (Slave). Allows select
		"Slave+Audio" to output audio from the secondary
		controller. For a conference system without hot
		backup, the parameter is set to "Only" for the
		conference controller by default.
Lock	On/Off	Panel lock, turn On or turn off Off; after opening,
		the panel button will be locked, at this time, need to
		long press ENTER to unlock.
Speaker	Host/Unit	Switches speakers between the controller and unit
Keyboard	Keyboard/Touch	Switches the setting method of the conference
		controller: by keyboard on the panel or by touch
		screen (custom).

2.1.4.12 Setting wireless communication (only for VIS-DCP2000-W)

Enter the "WiFi" menu to set the wireless network.

Menu	Parameter/Value	Description	
item			
SSID	16 bits	16 bits SSID, Default setting is WIFI_CONFERENCE.	
Password	8 bits	8 bits password for communication between controller to the	
		wireless conference unit, default password is 888888888.	
Start Set	On/Off	Command used to start the setting, which is set to Off by	
		default.	
		If change SSID and Password on the conference controller,	
		need to set this command to On so as to send the new SSID	
		and Password information to APs. An update success message	
		is displayed when an AP receives the information. Be sure to	
		set this parameter to Off after all APs are successfully updated	
		with the new SSID and password.	
		Note: After an AP updates the SSID and password, need to	
		restart the AP manually. The AP cannot connect to the	
		conference controller only after log in to the VIS-AP4C AP	
		and change the SSID and Password accordingly.	

2.1.4.13 Setting debug configuration

Enter the "Debug" menu to check microphones of conference units by turning on or off their microphones from the conference controller.

Menu item	Parameter/Value	Description	
Manual	On/Off	Turns on or off microphones of conference units	
		manually to check whether the microphones are	
		functioning properly.	
		Set this parameter to "On" to enable the manual	
		mode. The ID of the first conference unit is	
		displayed on the LCD of the conference controller.	
		The microphone of the unit is turned on. Press " $\mathbf{\nabla}$ "	
		to switch to the second conference unit. The ID of	
		the second unit is displayed and the second	
		microphone is turned on. The microphone of the first	



		unit is turned off at the same time. Press "▼" to check all connected conference units one by one until "End Of Test" is displayed. All microphones are turned off at the end of the test. Press "ESC" to exit the manual mode. The parameter turns back into "Off" automatically.
Auto	On/Off	Turns on or off microphones of conference units automatically to check whether the microphones are functioning properly. The automatic mode is similar to the manual mode. The difference is that in the automatic mode, the conference controller automatically switches to the microphone of the next conference unit every four seconds until "End Of Test" is displayed. Press "ESC" to exit the automatic mode. The parameter turns back into "Off" automatically.
Green Led	On/Off	Turns on or off the green LED ring on the microphone of a conference unit.
Red Led	On/Off	Turns on or off the red LED ring on the microphone of a conference unit.

2.1.4.14 Restoring to factory settings

If an emergency occurs or parameters are improperly configured, you can enter the "Default" menu to restore the conference controller to factory settings.

Menu item	Parameter/Value	Description
Default	Default/Exit	Restores to factory settings or exits.

3. Conference units

3.1 VIS-DCC/DCD/DVC/DVD/DVCIC/DVDIC/DIC/DID

/DSC/DSD-T units

3.1.1 Features and interfaces

The conference units in this series are desktop wired digital units that use CAT5e cables for communication. The product models and features are as follows:

- ✓ CAT5 Wired Digital Discussion Chairman/Delegate Unit VIS-DCC-T/VIS-DCD-T
- ✓ CAT5 Wired Digital Voting Chairman/Delegate Unit with Channel Selector VIS-DVC-T/VIS-DVD-T
- ✓ CAT5 Wired Digital Discussion+Voting IC Card Chairman/Delegate Unit with Channel Selector VIS-DVCIC-T/VIS-DVDIC-T
- ✓ CAT5 Wired Digital Interpreter Chairman/Delegate Unit VIS-DIC-T/VIS-DID-T
- ✓ CAT5 Wired Dual Channels Chairman/Delegate Unit with Channel Selector VIS-DSC-T/VIS-DSD-T







Figure 3.1.1.1 Top view of wired units VIS-DCC/DCD/DVC/DVD/DVCIC/DVDIC-T



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Figure 3.1.1.2 Top view of wired units VIS-DIC/DID/DSC/DSD-T



Figure 3.1.1.3 Left view and right view of wired units



Figure 3.1.1.4 Rear view of wired units



Figure 3.1.1.5 Interfaces on the bottom of a wired unit

No./Name	Description	
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600,	
	VIS-M410 or VIS-M330).	
2. OLED display	Display the MIC status, volume bar, interpretation channel,	
	voting information, speaking time, clock and date.	

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3. 5 multi-function buttons	Apply the voting, volume adjustment for headphones, channel		
	selector to select the channel that is sent to the headphone.		
4. Loudspeaker	When the microphone is enabled, the signal of the loudspeaker		
	is muted.		
5. Microphone button	Turn on or off 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 headphone 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. Reserved custom	This interface can be customized for connecting a mobile		
interface	phone or handheld microphone, or inputting another sound		
	source from the conference unit to the conference system.		
12. Headphone socket	Standard 3.5mm headphone connector.		
13. Power switch	Power switch for the conference unit.		
14. CU/DU socket	Makes a loop-through in the CEALCON system with the		
	conference unit.		

3.1.2 Connection

CU/DU ports on the bottom of the conference unit are used for connecting another conference unit, a conference controller, an extension main unit, or a splitter box. The ports support the hand-in-hand-loop-network connection of units.



VIS-DCP2000-D

Hand-in-Hand-Loop-Network

3.1.3 Settings and usage

After the connection of all units, need to set the ID of each conference unit before using the conference system for the first time. (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.)

If a VIS-DIC-T unit is installed, need to configure the unit as a chairman unit, delegate unit, interpreter unit, or VIP unit as required by the conference.

VIS-DVCIC/DVDIC-T has IC card sign-in function more than unit VIS-DVC/DVD-T (need to be set on PC software).

3.1.3.1 Setting unit ID

1. When the home screen is displayed on the LCD of the conference controller, as shown in the following figure:

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2. Long press "ESC" on the front panel of the conference controller for about two seconds. The system enters the ID editing status. The display on the LCD screen is as follows:



- 3. Press the MIC button of each conference unit one by one. (The button turns into red.) Each unit is assigned with an ID.number. (The ID number starts from 1 by default and increases by one every time the MIC button of a unit is pressed.) During the ID setting of a unit, a local ID (ID before setting) and a current ID (ID after setting) are displayed.
- 4. After pressing the MIC buttons of all units, long press "ESC" on the front panel of the conference controller for about two seconds to return to the home screen. The ID setting is complete.

Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.

3.1.3.2 Setting unit types

The VIS-DIC-T unit can set the unit type as required.

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

Delegate	Setup:
UnitTyp	e Set

2. VIS-DIC-T is default as the chairman unit and there are most of units are delegate units in a conference system, so need to set all units as "All delegates".

Туре:	AII del.
- > A	delegates

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3. Set as the above screen, all the VIS-DIC-T are worked as the delegate units. Next set the as "Type: ON".



4. Check all VIS-DIC-T conference units, the display shows "delegate" unit;



5. Press the MIC button on the unit and the display will shift cyclically as Delegate-Chairman-Interpreter-VIP. The unit type can be set according to the needs of the meeting;

Chairman
Interpreter
VIP

6. After setting the unit type for all units, close the manual setting state as shown in the figure below, and then restart the controller to complete the setting.



3.1.3.3 Usage

1. Chairman/delegate unit

The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference unit. See Section 3.1.1 for other buttons.

MIC button color	LED ring color	Display character	Condition
Red (on)	Red (on)	Mic on	Microphone enabled
White (off)	Green (on)	Applying to speak	Request to speak



Please wait...

2. VIS-DIC-T

Screen	Description
Interpreter unit	Main screen.
Interpreter unit	"Interpreter unit": Unit type.
Out:01 ENG	"Out:01 ENG": show the interpreter
	unit 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	Press the MIC button 60% to turn
	on/off the microphone.
Mic off	
	Show the speaking time.
15:30 Speaking time	
	15:30 Digital clock show the
09:01:30	current time.
Mute	Press the button and hold for mute
	for cough, release the button to
	unmute.

3.2 VIS-DMD-T unit

3.2.1 Features and interfaces

VIS-DMD-T is a wired multimedia digital conference unit with a 5.0-inch (800×480) touch screen. This unit uses CAT5e cables for communication. The unit can be set as a chairman unit, delegate unit, VIP unit, or a dual-user unit according to the actual requirements of a conference. By updating the unit software, the unit can offer more features with the same hardware.





Figure 3.2.1.2 Left view of VIS-DMD-T



Figure 3.2.1.3 Right view of VIS-DMD-T



Figure 3.2.1.4 Rear view of VIS-DMD-T

No./Name	Description	
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600, VIS-	
	M410 or VIS-M330).	
2. OLED display	Display the MIC status, volume bar, interpretation channel, voting	
	information, speaking time, clock and date.	
3. Headphone socket	Standard 3.5mm headphone connector.	

3.2.2 Connection

CU/DU ports on the bottom of the conference unit are used for connecting another conference unit, a conference controller, an extension main unit, or a splitter box. The ports support the hand-in-hand-loop-network connection of units.





Hand-in-Hand-Loop-Network

3.2.3 Settings and usage

3.2.3.1 Setting unit ID

After the connection of all units, need to set the ID of each conference unit before first time using the conference system (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.), refer to Section 3.1.3.1.

During the setting process, the unit will display the local ID (ID before setting) and the current ID (ID after setting) as shown in the figure below.

Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.

57



3.2.3.2 Setting unit types and rights

- Please refer to Section 3.1.3.2 for unit type setting. The unit type is displayed in the menu[™]
 →"About"→"Type".
- Use VISSONIC conference management software to set unit rights. In the management mode, right-click the unit icon and select personnel rights. Then set the unit rights, such as ID, speaking, voting, and sign-in.



3.2.3.3 Usage

• The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show



MIC button color	LED ring color	Display character	Condition
Red (on)	Red (on)	Mic on	Microphone enabled
White (off)	Green (on)	Applying to speak	Request to speak
		Please wait	

the condition of the microphone that connected to the conference unit.

• The unit has a concise and attractive appearance with a home screen displaying the following information: dual channel selectors that can be used by two users, both digital time and dial time, as well as the date. Tap the left setting button is to enter the unit feature setting screen or tap the right interpretation button is to enter the interpretation channel setting screen.



• Tap the setting button to enter the settings menu. Then can set the unit language, screen brightness, sound effect, unit information, voting feature, and call service.

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Ø About	>
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* 65	4

• Speech time and request to speak: After touch the microphone turn-on button, the screen displays the speech time of attendees in real time. After turn off the microphone, the screen

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displays the addresser information and the information of addressers in the request list. A chairman unit has the right to turn off the microphone of the addresser's delegate unit and the right to accept or reject the request to speak from a delegate unit. Need to set corresponding user information of conference units in the VISSONIC conference management software.



• Language and brightness: In the unit settings, the system allows to switch the unit language between Chinese and English. Language customization is available if a third language is required. You can also adjust the screen brightness as needed.



The "Sound effect" setting provides 8-band EQ adjustment, EQ switch, EQ reset; and provides ±12dB microphone sensitivity adjustment (although increasing the microphone sensitivity makes it easier to pick up small voices, it also makes it easier to pick up small noises and overload distortion, so please adjust carefully). In "About" settings, can view the unit authority and status information, including the unit type, current ID number, vote authority, speaking authority, and software version.

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• Call service: The system provides a call service that can be customized for paper, pen, or tea service with one tap. The VISSONIC conference management software can receive calls from conference units. The call service feature provides comfortable and fast services during conference.



- The optional features are as follows. For more details, see *VISSONIC Multimedia Digital Conference Unit VIS-DMD-T User Manual V2.0.*
 - ► IC card sign-in and information display function (software license model: VIS-LIDEN)
 - ► Voting function (software license model: VIS-LVOTE)
 - ► Dual 64-channel selector software module (software license model: VIS-LLGE)
 - Dual-user software (software license model: VIS-LDUAL)

3.3 VIS-MAU-T unit

3.3.1 Features and interfaces

VIS-MAU-T is a wired multimedia conference unit with a 4.3-inch (800×480) touch screen. This conference unit supports wired network communication through a CAT5e cable.







Figure 3.3.1.2 Left view and right view of VIS-MAU-T



Figure 3.3.1.3 Rear view of VIS-MAU-T

No./Name	Description
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600, VIS-
	M410 or VIS-M330).
2. OLED display	Display the MIC status, volume bar, interpretation channel, voting
	information, speaking time, clock and date.
3. Loudspeaker	When the microphone is enabled, the signal of the loudspeaker is
	muted.
4. Microphone button	Turn on or off the microphone. The microphone button has a LED
	that shows the condition of the microphone.
5. Clear button	Clear/deactivate all active delegate microphone or mute the system.
6. Approval button	Approve the applying microphone to be enabled under the apply
	mode and work as mute while pressed clear button.
7. Power switch	Power switch for the conference unit.
8. Headphone Volume	Adjust the headphone volume.
Knob	
9. Headphone socket	Standard 3.5mm headphone connector.

3.3.2 Connection

CU/DU ports on the bottom of the conference unit are used for connecting another conference unit, a conference controller, an extension main unit, or a splitter box. The ports support the hand-in-hand-loop-network connection of units.



Hand-in-Hand-Loop-Network

3.3.3 Settings and usage

3.3.3.1 Setting unit ID

After the connection of all units, need to set the ID of each conference unit before first time using the conference system (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.), refer to Section 3.1.3.1.

During the setting process, the unit will display the local ID (ID before setting) and the current ID (ID after setting) as shown in the figure below.

Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.

64



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3.3.3.2 Setting unit types and rights

- Please refer to Section 3.1.3.2 for unit type setting. The unit type is displayed in the menu[™]
 →"About"→"Type".
- Use VISSONIC conference management software to set unit rights. In the management mode, right-click the unit icon and select personnel rights. Then set the unit rights, such as ID, speaking, voting, and sign-in.



3.3.3.3 Usage

• The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference 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	Request to speak

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	Please wait	

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• The unit has a concise and attractive appearance with a home screen displaying the following information: dual channel selectors that can be used by two users, both digital time and dial time, as well as the date. Tap the left setting button is to enter the unit feature setting screen or tap the right interpretation button is to enter the interpretation channel setting screen.



• Tap the setting button is to enter the settings menu. Then can set the unit language, screen brightness, sound effect, unit information, voting feature, and call service.

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• Speech time and request to speak: After touch the microphone turn-on button, the screen displays the speech time of attendees in real time. After turn off the microphone, the screen displays the addresser information and the information of addressers in the request list. A chairman unit has the right to turn off the microphone of the addresser's delegate unit and the right to accept or reject the request to speak from a delegate unit. Need to set corresponding user information of conference units in the VISSONIC conference management software.



• Language and brightness: In the unit settings, the system allows to switch the unit language between Chinese and English. Language customization is available if a third language is



required. You can also adjust the screen brightness as needed.



• The "Sound effect" setting provides 8-band EQ adjustment, EQ switch, EQ reset; and provides ±12dB microphone sensitivity adjustment (although increasing the microphone sensitivity makes it easier to pick up small voices, it also makes it easier to pick up small noises and overload distortion, so please adjust carefully).



• In "About" settings, can view the unit authority and status information, including the unit type, current ID number, vote authority, speaking authority, and software version.

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• Call service: The system provides a call service that can be customized for paper, pen, or tea service with one tap. The VISSONIC conference management software can receive calls



from conference units. The call service feature provides comfortable and fast services during conference.



- The optional features are as follows. For more details, see *VISSONIC VIS-MAU-T Wired Touch screen Multimedia Conference Unit User Manual V1.0.*
 - ► IC card sign-in and information display function (software license model: VIS-LIDEN)
 - Voting function (software license model: VIS-LVOTE)
 - ► Dual 64-channel selector software module (software license model: VIS-LLGE)
 - Dual-user software (software license model: VIS-LDUAL)

3.4 VIS-ACC/ACD/DAC/DAD-T units

3.4.1 Features and interfaces

All units in this series are full-digital wired array conference units that use CAT5e cables for network communication. The product models and features are as follows:

- ✓ 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



Figure 3.4.1 VIS-DAD/DAC-T array unit

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No./Name	Description	
1. Power Indicator	Red light represents working status.	
2. High hardness speaker net	et Built-in 17 high-pointing pickups.	
3. Switch button Hold down the switch button of chairman units		
	seconds to start the priority mode, it will turn off all the	
	delegate units that are speaking.	
4. Headphone jack	Standard 3.5mm headphone connector.	

3.4.2 Connection

A VIS-CNB splitter box is required for every two array units. The following figure shows the connection of units in this series:



3.4.3 Settings and usage

• After the connection of all units, need to set the ID of each conference unit before first time using the conference system (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.), refer to Section 3.1.3.1.

Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.

• The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference 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

3.5 VIS-DCC/DCD/CSU/DVU/SPK/FFC/FFD-

F/FS/FS1/FS2/F1/F2 units

3.5.1 Features and interfaces

The units in this series are flush-mounting full-digital wired conference units that use CAT5e cables for network communication. This series can be used with different flush-mounting modules together to implement various features according to the actual needs. The product models and features are as follows:

- ✓ CAT5 Digital Flush-mounting Discussion Chairman/Delegate Unit VIS-DCC-F/VIS-DCD-F (all-round type) and VIS-DCC-FS/VIS-DCD-FS (economic type)
- ✓ CAT5 Digital Flush-mounting 64 Channels Selector Unit VIS-CSU-F
- ✓ CAT5 Digital Flush-mounting Voting Unit VIS-DVU-FS1 (with IC Card Reader) and VIS-DVU-FS2
- ✓ Flush-mounting Speaker Unit VIS-SPK-F
- ✓ Flush-mounting All-in-one Discussion Chairman/Delegate Unit with Voting and Channel Selector VIS-FFC-F1/VIS-FFD-F1 (simple type) and VIS-FFC-F2/VIS-FFD-F2 (big screen type)

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Figure 3.5.1.1 Front view of VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2




Figure 3.5.1.2 Rear view of VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2



图 3.5.1.3 VIS-FFC/FFD-F1/F2 flush-mounting unit

No./Name	Description
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600,
	VIS-M410 or VIS-M330).



2. headphone jack	Standard 3.5mm headphone connector.			
3. Clear button	Clear/deactivate all active delegate microphone or mute the			
	system.			
4. Microphone button	Turn on or off the microphone. The microphone button has a			
_	LED that shows the condition of the microphone.			
5. Approval button	Approve the applying microphone to be enabled under the			
	apply mode and work as mute while pressed clear button.			
6. Interpretation channel	Standard 3.5mm headphone connector.			
headphone jack				
7. Interpretation channel	It is used to switch the channel of interpretation for listening.			
selecting button				
8. Display for interpretation	Displays the selected channel. VIS-FFC/FFD-F1 screen also			
channel	displays time, microphone on/off, etc., and VIS-FFC/FFD-F2			
	screen displays time, microphone on/off, voting information,			
	etc.			
9. Volume control button for	Used to adjust the headphone volume.			
interpretation				
10. IC card sign-in indicator	Used for IC card sign-in instructions.			
11. IC card slot	Used to insert IC card to sign in.			
12. Key voting and multi	Realize functions such as button sign-in, initiating voting,			
function buttons	voting selection, stop sign-in, etc.			
13. Speaker unit	2W high quality speaker			
14. CU/DU port	CU/DU port for connecting between model VIS-DCD-F, VIS-			
	DCC-F, VIS-CSU-F and controller, extension main unit,			
	splitter box, etc.			
15. Screw hole	Screw hole for installation			
16. FS bus	FS bus for connecting model "-FS" unit			
17. SPK1 port	SPK1 port is used to connect the VIS-SPK-F for working with			
	current unit.			
18. MIC port	connects 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	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. MIC port	Connect to the MIC port on the model VIS-DCC-F, VIS-			
	DCD-F or VIS-CSU-F unit.			
21. Speaker cable	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.			

3.5.2 Installation

3.5.2.1 Hole sizes



Figure 3.5.2.1.1 Sizes of mounting holes for VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2



VIS-FFC-F1 Size(mm): 265(L)x85(W)x74(H)

Figure 3.5.2.1.2 Sizes of VIS-FFC/FFD-F1/F2

3.5.2.2 Installation steps

Installation steps:

- 1. Drill the square hole of the corresponding size on the desktop;
- 2. Put the flush mounting unit into the desktop with a square hole;
- 3. Install the fixed plate on the pressure riveting screw under the device;
- 4. Fix the fixed plate with the butterfly nut;
- 5. Install the M5 \times 35mm wing/ butterfly screw to hold the fixed plate to the desktop, so as to fix the device.
- 6. Please see the Installation Diagram as below:



Figure 3.5.2.2 Installation steps of VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2

3.5.3 Connection

The connection of VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2 is shown in the figure below.

The connection of VIS-FFC/FFD-F1/F2 is the same as VIS-DCC/DCD-T, please refer to Section 3.1.2.



Figure 3.5.3 Connection of VIS-DCC/DCD/CSU/DVU/SPK-F/FS/FS1/FS2

3.5.4 Settings and usage

- After the connection of all units, need to set the ID of each flush-mounting unit before first time using the conference system (VIS-DVU-FS1/FS2 no need to set ID), VIS-CSU-F uses the "▲" button to select the ID number, refer to Section 3.1.3.1.
 Note:
 - Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.
 - If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.
- The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference 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	Request to speak
		Please wait	

3.6 VIS-WDC/WDD/WVC/WVD/WVCIC/WVDIC-T units

3.6.1 Features and interfaces

The units in this series are desktop wireless digital units that support wireless communication through 5G WiFi. Dedicated battery pack and charger are used for the unit. The product models and features are as follows:

- ✓ Wireless Digital Discussion Chairman/Delegate Unit VIS-WDC-T/VIS-WDD-T
- ✓ Wireless Digital Discussion+Voting Chairman/Delegate Unit VIS-WVC-T/VIS-WVD-T
- ✓ Wireless Digital Discussion+Voting IC Card Chairman/Delegate Unit VIS-WVCIC-T/VIS-WVDIC-T
- ✓ Rechargeable battery pack VIS-WBTY1 and Charger for battery VIS-WCH1



Figure 3.6.1.1 Top view of VIS-WDC/WDD-T

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Figure 3.6.1.2 Top view of VIS-WVC/WVD/WVCIC/WVDIC-T



Figure 3.6.1.3 Left view and right view of wireless units



Figure 3.6.1.4 Rear view of wireless units



Figure 3.6.1.5 Bottom view of wireless units -without battery compartment cover



Figure 3.6.1.6 Bottom view of wireless units - with battery compartment cover

No./Name	Description			
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600, VIS			
	M410 or VIS-M330).			
2. OLED display	Display the MIC status, volume bar, interpretation channel,			
	voting information, speaking time, clock and date.			
3. 5 multi-function buttons	Apply the voting, volume adjustment for headphones, channel			
	selector to select the channel that is sent to the headphone.			
4. Loudspeaker	When the microphone is enabled, the signal of the loudspeaker			
	is muted.			
5. Microphone button	Turn on or off 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 headphone volume.			



11. Reserved custom	This interface can be customized for connecting a mobile		
interface	phone or handheld microphone, or inputting another sound		
	source from the conference unit to the conference system.		
12. Headphone socket	Standard 3.5mm headphone connector.		
13. Power switch	Power switch for the conference unit.		
15. Battery socket	Used to install the VIS-WBTY1 battery pack to power the		
	wireless unit.		
16. Battery cover	For VIS-WBTY1 battery pack reinforcement.		

The dedicated VIS-WBTY1 battery pack has a pogo connector for charging. The enclosure with a fastener prevents battery drop or poor contact during charging. The battery pack contains high-efficiency lithium-ion battery cells. A built-in microprocessor controls fast charging and trickle charging.



VIS-WBTY1 Size(mm): 39(L)x70(W)x39(H)

Figure 3.6.1.7 Dedicated VIS-WBTY1 battery pack

The VIS-WCH1 charger for battery can be used to charge eight batteries at the same time. Empty batteries can be fully charged in four hours. The bi-color LEDs on the charger indicate the charging status. Up to four chargers can be cascaded for battery charging.



VIS-WCH1 Size(mm): 320(L)x200(W)x62.8(H)



To remove the battery pack from a conference unit:

- 1. Turn the conference unit upside down.
- 2. Press the clip on the battery compartment cover (see Figure 3.6.1.6) with a thumb to loose the cover and then pull the cover outwards to remove it.
- 3. Slightly press on the middle of the battery pack (see Figure 3.6.1.5) and push the battery pack toward the left to loose the battery pack from the pogo pins.
- 4. Hold the battery pack and turn the conference unit upright to remove the battery pack.

3.6.2 Connection

A VIS-DCP2000-W wireless conference controller and VIS-AP4C APs are required to work with the wireless conference unit together, as shown in the following figure.



VIS-DCP2000-W

3.6.3 Settings and usage

- After the connection of all units, need to set the ID of each conference unit before first time using the conference system (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.), refer to Section 3.1.3.1. Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.
- VIS-WVCIC/WVDIC-T has IC card sign-in function more than unit VIS-WVC/WVD-T (need to be set on PC software).
- If you need to change the AP frequency band or change the SSID and password of the wireless system, please refer to Section 6.4.
- The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference unit.

MIC button color LED ring color Display character Condition



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Red (on)	Red (on)	Mic on	Microphone enabled
White (off)	Green (on)	Applying to speak	Request to speak
		Please wait	

• **Restore to factory settings.** When "Connecting..." is displayed on the screen after the conference unit is turned on, press the volume - and + buttons at the same time. The screen is displayed as follows:

Reset to default	settings
Confirm	Exit

Select the "Confirm", then the conference unit is restored to factory settings.

3.7 VIS-MAW-T unit

3.7.1 Features and interfaces

VIS-MAW-T is a wireless multimedia conference unit with a 4.3-inch (800×480) touch screen. This unit supports network communication through CAT5e cable and 5G WiFi. The unit uses the dedicated VIS-WBTY2 battery pack and the VIS-WCH2 charger.



Figure 3.7.1.1 Top view of VIS-MAW-T



Figure 3.7.1.2 Left view and right view of VIS-MAW-T



Figure 3.7.1.3 Rear view of VIS-MAW-T

No./Name	Description			
1. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600, VIS-			
	M410 or VIS-M330).			
2. OLED display	Display the MIC status, volume bar, interpretation channel, voting			
	information, speaking time, clock and date.			
3. Loudspeaker	When the microphone is enabled, the signal of the loudspeaker is			
	muted.			
4. Microphone button	Turn on or off the microphone. The microphone button has a LED			
	that shows the condition of the microphone.			
5. Clear button	Clear/deactivate all active delegate microphone or mute the system.			
6. Approval button	Approve the applying microphone to be enabled under the apply			
	mode and work as mute while pressed clear button.			
7. Power switch	Power switch for the conference unit.			
8. Headphone Volume	Adjust the headphone volume.			

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Knob	
9. Headphone socket	Standard 3.5mm headphone connector.



VIS-WBTY2 Size(mm): 83(L)x80(W)x24.2(H)





VIS-WCH2 Size(mm): 530(L)x200(W)x53.3(H)

Figure 3.7.1.5 VIS-WCH2 charger for battery

3.7.2 Connection

A VIS-DCP2000-W wireless conference controller and VIS-AP4C APs are required to work with the wireless conference unit together. VIS-MAW-T supports both wired and wireless connection, as shown in the following figure.



3.7.3 Settings and usage

3.7.3.1 Setting unit ID

After the connection of all units, need to set the ID of each conference unit before first time using the conference system (If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.), refer to Section 3.1.3.1.

During the setting process, the unit will display the local ID (ID before setting) and the current ID (ID after setting) as shown in the figure below.

Note: Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.

CH02 🔛	ф	11:30	л	E) 20%	CH63
Local ID:		Access	point	1	
0001		Access	point	2	~
		Access	point	3	
Current ID		Access	point	4	
0001		Default	settin	9	

3.7.3.2 Setting unit types and rights

- Please refer to Section 3.1.3.2 for unit type setting. The unit type is displayed in the menu[™]
 →"About"→"Type".
- Use VISSONIC conference management software to set unit rights. In the management mode, right-click the unit icon and select personnel rights. Then set the unit rights, such as ID, speaking, voting, and sign-in.



3.7.3.3 Usage

• The colors of the LEDs of the microphone buttons, the LED ring of MIC and display show the condition of the microphone that connected to the conference 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	Request to speak
		Please wait	

• The unit has a concise and attractive appearance with a home screen displaying the following information: dual channel selectors that can be used by two users, both digital time and dial time, as well as the date. Tap the left setting button is to enter the unit feature setting screen or tap the right interpretation button is to enter the interpretation channel setting screen.



• Tap the setting button to enter the settings menu. Then can set the unit language, screen brightness, sound effect, unit information, voting feature, and call service.

CH02	ę	ďb	11:30	4	E) 22%	CH63
@ L	anguag	je 🛛				>
÷ 8	rightne	55				A
484 E	Q					>
() A	bout					>
. v	ote					>
÷ 5	ervice					>
Ø			÷.			6

• Speech time and request to speak: After touch the microphone turn-on button, the screen displays the speech time of attendees in real time. After turn off the microphone, the screen displays the addresser information and the information of addressers in the request list. A chairman unit has the right to turn off the microphone of the addresser's delegate unit and the right to accept or reject the request to speak from a delegate unit. Need to set corresponding user information of conference units in the VISSONIC conference management software.



• Language and brightness: In the unit settings, the system allows to switch the unit language between Chinese and English. Language customization is available if a third language is required. You can also adjust the screen brightness as needed.



• The "Sound effect" setting provides 8-band EQ adjustment, EQ switch, EQ reset; and provides ±12dB microphone sensitivity adjustment (although increasing the microphone sensitivity makes it easier to pick up small voices, it also makes it easier to pick up small noises and overload distortion, so please adjust carefully).



• In "About" settings, can view the unit authority and status information, including the unit type, current ID number, vote authority, speaking authority, and software version.



• Call service: The system provides a call service that can be customized for paper, pen, or tea service with one tap. The VISSONIC conference management software can receive calls from conference units. The call service feature provides comfortable and fast services during conference.



- You can turn off the conference controller directly when conference units are connected through WiFi. The conference units automatically shuts down in five minutes when they are not connected to an AP.
- When the wired mode is in use, if the unit connection cable is faulty or the unit needs to be moved, connect the AP to the conference controller. The connection cable can be removed when the unit is working, and the unit automatically connects to the AP without interrupting the speech.
- Restore to factory settings. In the wireless mode, open "About" settings and click the bottomright corner of the version repeatedly.



When the "Restore to factory settings" option is displayed on the screen, select this option. In addition, select the access point is also in this menu:



Then tap the microphone on/off button (1) and wait for reconnection.

- The conference unit supports three types of power supply: battery, unit base, and POE. Note: If want to charge a unit over POE, need to connect the unit to a VIS-EXM directly, which is connected to the conference controller. In addition, be sure that the unit is not in communication state or connected to an AP.
- The battery capacity can be viewed on the unit screen, VISSONIC conference management software, and the Web page of the charger for battery. For the Web-based management of the charger, see Section 3.7.4.



Figure 3.7.3.3 Battery capacity displayed on the Web page of the charger

- The optional features are as follows. For more details, see *VISSONIC VIS-MAW-T WiFi Wireless Multimedia Conference Unit User Manual V1.0.*
 - ► IC card sign-in and information display function (software license model: VIS-AIDEN)
 - Voting function (software license model: VIS-AVOTE)
 - ► Dual 64-channel selector software module (software license model: VIS-ALGE)
 - Dual-user software (software license model: VIS-ADUAL)

3.7.4 Web page of charger

3.7.4.1 Connection and login

- 1. A PC can be directly connected to a charger for battery or through a switch.
 - Connect the ETHERNET port to the network port of the PC. The connection is as follows.





• The connection of a switch is shown in the following figure.



2. Open "Windows Settings" on the PC, select "Network & Internet", click "Change adapter options", right-click the Ethernet icon, and then click "Properties". In the "Ethernet Properties" dialog box, select "Internet Protocol Version 4(TCP/IPv4)", and then click the "Properties" button. Because the default IP address of the charger is 192.168.10.188, set an IP address in the same network segment as the charger for the PC, for example, 192.168.10.13, as shown in the following figure:

neral	
	ed automatically if your network supports need to ask your network administrator .
Obtain an IP address auto	matically
Use the following IP address	HSS:
IP address:	192.168.10.13
Subnet mask:	255 .255 .255 . 0
Default gateway:	192.168.10.1
Obtain DNS server addres	n automatically
Use the following DNS ser	ver addresses:
Preferred DNS server:	192 . 168 . 10 . 1
Alternate DNS server:	() · · · · · · · · · · · · · · · · · ·
Validate settings upon ex	dt Advanced

3. Enter the IP address 192.168.10.188 in the browser on the PC to log in to the Web page of the charger.



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VISSONIC	Power	Derting	Abrut	VIS-WCH2
				••
				VISSONIC
	Charging Frame BPS			••

3.7.4.2 Web-based management

• Power page

VISSONIC	Power	Detting	Apost		VIS-WOR2
	- Julion			-	••
					VISSONIC
	Draging. Trave BP5				•••

No battery is charged:



Batteries are being charged:

	• • • • •
Charging Power:98%	Charging Power:67%

"Charging..." indicates that a battery is being charged. "Power:98%" indicates the current capacity of a battery. Five indicators represent the capacity percentage of the corresponding battery. Each indicator represents 20% battery capacity. One indicator lit in green means that the capacity percentage reaches 20%. When all five indicators are lit in green, the battery is fully charged.

• Setting page





The page shows the IP address and gateway of the charger. You can change the IP address and gateway. Restart the charger to make the new settings take effect.

IP:	192.168.10.188	Gateway:	192.168.10.1	
Subnet:	255.255.255.0	MAC:	00.08 dc 50.30 20	

• About page

			Denne + (#)
74 0 0 8 5 -			C A NUMBER
VIS-WCH2	Adout		VISSONIC
		1000 C 10	10.000000000
	Stort A	VERSION	
	V011.4	VERGION	

4. VIS-INT64 interpreter unit

The all-digital network interpreter unit VIS-INT64 is used by interpreter, which has 64 interpretation channels (include floor channel). Direct and relay interpretation are available. It has an LCD screen (resolution 320×64, white characters on a blue background), uses CAT5e wired network communication, and can be powered by POE or external 48V DC power supply.

VIS-INT64 can be connected to the conference controller, and also can be connected to the infrared transmitter.

4.1 Features and interfaces



Figure 4.1 VIS-INT64

No./Name	Description
1. Speaker Volume	Adjust speaker volume
Knob	
2. Headphone Volume	Adjust headphone volume
Knob	
3. Built-in speaker	Realize the speaker function
4. IN SELECT knob	Select input channel
5. OUT SELECT knob	Select output channel
6. FLOOR-RELAY	Used to switch between the floor channel and the relay
button	interpretation channel.
7. Microphone button	Turn on or off the microphone. The microphone button has a LED
	that shows the condition of the microphone.
8. COUGH button	When the MIC is turned on, press and hold this button to mute the
	MIC for avoiding the cough voice output; release the button and the
	MIC resumes picking up voice.
9. Input channel	Press and hold the A or B button for 3 seconds, then the button is
shortcuts (A, B)	the shortcut of the current input channel.

10. Output channel	Press and hold the a or b button for 3 seconds, then the button is the
shortcuts (a, b)	shortcut of the current output channel.
11. LCD	320×64 . The left half of the screen displays the input channel
	number and language, and the right half displays the output channel
	number and language.
12. Microphone socket	Connects a pluggable gooseneck microphone (VIS-M600, VIS-
	M410 or VIS-M330).
13. CALL button	Multi-function button. Used to switch the unit type to interpreter
	unit or operator unit, and to enter the service menu, see Section
	4.3.2 and 4.3.3 for details.
14. Microphone jack	For connecting headphone with mic
15. Headphone jack	For connecting headphone with mic
16. CU/DU socket	2×RJ45, support POE, used to connect controller or interpreter unit.
17. power socket	48V DC power input

4.2 Connection

4.2.1 Connected to controller

Use a CAT5e cable to connect the CU/DU port of the VIS-INT64 to the CU/DU port of the conference controller, as shown in the figure below. Note that the delegate unit must be equipped with channel selector to listen.

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Figure 4.2.1 VIS-INT64 connected to controller

4.2.2 Connected to infrared transmitter

It is also possible to connect the CU/DU port of VIS-INT64 to the AUDIOLINK port of the infrared transmitter VIS-VLI1700A, as shown in the figure below (note that the first interpreter unit directly connected to the infrared transmitter needs to use a power adapter). Attendees use infrared receiver VIS-VLI703A to listen.



Figure 4.2.2 VIS-INT64 directly connected to infrared transmitter

4.3 Settings and usage

4.3.1 Setting unit ID (only for connected to controller)

Before first time using the conference system, need to set the ID of each VIS-INT64 in the same way as the conference unit, and also use the MIC button to select the ID, refer to Section 3.1.3.1.

During the setting process, the interpreter unit will display the local ID (ID before setting) and the current ID (ID after setting).

Including all interpreter units and conference units:

- Unit IDs must be different. Units with the same ID may be turned on and off at the same time due to ID conflict. In addition, the corresponding microphones may buzz after being turned on or fail to output audio. If such issues occur, need to reset the units with different IDs.
- If replace a unit with a new one or add a new unit, be sure to reset the new unit ID to prevent ID conflicts.

4.3.2 Setting interpretation channel

If VIS-INT64 is connected to the conference controller, set the number of interpretation channels and bind the channel language on the controller; if it is connected to the infrared transmitter, set and bind on VIS-INT64.

• It is connected to the controller

After setting the unit ID, need to set the relevant parameters in the "Interpretation" menu of the controller. For details, please refer to Section 2.1.4.7.

• It is connected to the infrared transmitter

- When the VIS-INT64 is turned on, press the CALL button to enter the password input screen. The password is 2468. Use the CALL button to switch digits, use the OUT SELECT knob to select the value of the digit, and select "Enter" after input the password to enter the setting screen.
- Use the OUT SELECT knob to select "CH MAP", press the CALL button to enter the screen for setting the maximum number of interpretation channels, use the OUT SELECT knob to select the maximum number (for example, if select 6, the screen will display "CH Total: 06"), press the CALL button to enter the binding channel language screen.
- 3. Because channel 00 is used for the floor, only 63 channels (01-63) can be set at most. Use the OUT SELECT knob to select the language, press the CALL button to enter the next channel. After setting the last channel, press the CALL button to return to the setting screen.
- 4. Use the OUT SELECT knob to select "EXIT" and press the CALL button to exit the setting screen, and then you can use it normally. For more information about infrared system, please refer to "VISSONIC IR Language Distribution System User Manual 1.0".

4.3.3 Usage

4.3.3.1 Setting operator

VIS-INT64 can be configured as operator unit. The method of setting the operator unit is as follows:

- ① When the VIS-INT64 is turn off, press and hold the "CALL" button;
- ⁽²⁾ Then turn on the VIS-INT64, release the button until displays the operator screen, and the setting is completed.

③ Use the same method to set the operator unit back to the interpreter unit.

The operator unit is usually installed in the equipment room. It can monitor the interpretation channel and the floor channel, and call with other interpreter units. The "IN SELECT" knob is used to select the channel to be monitored.

The display of the operator unit LCD is as follows:

NO	00	Operator
Floo	or	NO Apply

When there is a call request, the display as follows:

	1	
	Applying you call	
Agree		Disagro

Select "Agree", the call starts, and the displays as follows:

0.11		1.4
Callpres	s to Ex	11

After the call, select "Exit" to end.

4.3.3.2 Screen contents

The display content of the interpreter unit LCD is as follows:



- ① Input channel number.
- ② Output channel number.
- ③ Input channel and language corresponding to the input channel shortcut A.

- ④ Input channel and language corresponding to the input channel shortcut B.
- ⑤ Output channel and language corresponding to the output channel shortcut a.
- (6) Output channel and language corresponding to the output channel shortcut b.
- ⑦ Current input channel language.
- 8 Current output channel language.
- (9) Interpretation timing, the maximum timing is 99 minutes and 59 seconds.

In the conference mode, press the "CALL" button to enter the service screen as shown in the figure below, where can make internal calls, apply for tea, and view short message services.



Press the "A" button to enter the intercom; press the "B" button to enter the tea application; press the "a" button to view the SMS; press the "b" button to exit the service screen.

5. Extension devices

5.1 VIS-EXM extension main unit

The extension main unit VIS-EXM is used for connecting more conference units in a conference system and increasing the communication distance of the conference system.



Figure 5.1 Front and side panels of VIS-EXM

No./Name	Description
1. Loop Through	One is used to connect the controller/the previous extension main
Chains	unit, and one is used to connect the next extension main unit.
2. Repeated Chains	Provide 4 channels for delegate/chairman units or 2 POE
	loudspeakers.
3. Power indicator	Indicate status of the power inlet connection.
4. Power inlet	Connect the extension main unit with power cable, supports 100V to
	240V 50/60Hz power input.

5.2 VIS-CNB splitter box

The splitter box is used for split connections and array units.





Figure 4.2 Front and rear panels of VIS-CNB and top cover

No	./Name	Description
1.	Repeated Chains	Spilt two chains for delegate/chairman units
2.	Loop Through Chains	Connect to the controller, extension main unit or loop to next
		splitter box.

5.3 VIS-HL network cable

The series network cable includes VIS-HL002 2-meter network cable, VIS-HL005 5-meter network cable, VIS-HL010 10-meter network cable, VIS-HL020 20-meter network cable, VIS-HL050 50-meter network cable, VIS-HL100 100-meter network cable in various specifications.

6. AP

6.1 Features and interfaces

The dedicated APs VIS-AP4C is used to communication between a wireless conference controller and wireless conference units.



Figure 5.1 Top panel and side interfaces of VIS-AP4C

No./Name	Description
1. Working signal	When the AP is connected with power, it will be static blue light.
indicator	When AP is communicating, the indicator is flashing.
2. LAN port	Connect to PC or POE switch.
3. Reset button	Restore the device to the original factory settings.
4. WAN/POE port	Connects to the AP port of conference controller, POE switch, or VIS-
	CNB splitter box.
5. LED indicator	Indicates the network connection status.
6. Power socket	It can be powered by an external DC 12V power adapter.

Note: It is not recommended to connect other devices to the POE switch. It should connect the VIS-DCP2000-W and up to 8 VIS-AP4C.

6.2 Installation

6.2.1 Installation diagram

The AP need to install in the same room as the conference units. The AP can be wall-mounted or ceiling installation, as shown below.



6.2.2 Installation precautions

Ensure that the signal intensity displayed on the conference unit is 3 bars or higher, and the system signal is in the ideal state, if low in grid 3, it is necessary to change the installation position or add AP to strengthen the signal coverage.



6.3 Connection

Connect the WAN/POE port (No.4 in Figure 6.3.1) of the AP to the AP port of the conference controller. If want to change SSID of the AP, connect a PC to the LAN port (No.2 in Figure 6.3.1) of the AP.



Figure 6.3.1 Network ports of the AP

Í		P		I
E	_	-	_	
	6			

Figure 6.3.2 Network port of the conference controller

6.4 Settings and usage

6.4.1 Changing the AP channel

6.4.1.1 Connection

1. Connect the WAN/POE port of the AP to the AP port of the conference controller. Connect the LAN port of the AP to the network port of the PC.
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VIS-DCP2000-W



2. Open "Windows Settings" on the PC, select "Network & Internet", click "Change adapter options", right-click the Ethernet icon, and then click "Properties". In the "Ethernet Properties" dialog box, select "Internet Protocol Version 4 (TCP/IPv4)", and then click the "Properties" button. Because the default IP address of the AP is 192.168.2.1, set an IP address in the same network segment as the AP for the PC, for example, 192.168.2.13, as shown in the following figure:

eneral	d automatically if your network supports
	need to ask your network administrator
💮 Obtain an IP address auto	matically
Use the following IP addre	55;
IP address:	192.168.2.13
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 2 . 1
Obtain DNS server addres	s automatically
Use the following DNS ser	ver addresses:
Preferred DNS server:	192 . 168 . 2 . 1
Alternate DNS server:	3 V 3
Validate settings upon ex	Advanced

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6.4.1.2 Configuration on Web page

- 1. Open the browser on the PC, enter the IP address 192.168.2.1 in the address bar, press Enter to log in to the AP.
- 2. On the login page, enter the password "admin" and click "Login".

• · · · · · · · · · · · · · · · · · · ·	

- 3. After login to the home page, click "WIFI" in the left navigation pane.
- 4. On the "WIFI" page, click "5G WIFI". The "Channel" field shows that the current AP (WIFI_CONFERENCE) occupies channel 48.

a 🔳	w. max			
_	-			
2	1		Trade (eff.) and the control of the	
mune .	/ -			
6	4	10a (101 102)	1	
hater -	Concentration in call	100,000	1	
	Card	· · · ·		
	10.00	and service research		
_ \	Transact.		5	
s ;	the later	#		
and the second se	To Cause			
	-			

5. Click WIFI Analyzer, as shown in the following figure.

6. Click the "Refresh" 🔄 button multiple times. Check the usage of 5G signals on site, including channel 48 occupied by the current AP and the other 5G channels occupied by other APs.





- 7. Click the "Close" 🗵 button. Click "Advanced" and then select an unused channel. An unused channel from channels 36 to 64 or channels 149 to 165 can be used in the system.
- 8. After selecting a channel, click "Apply".

2					
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100	7				
13	Figure Transme	216			
No.	(11) - Frankrike				
FB	Mathanti Visso				
			-		
			/		

9. Click "5G WIFI" to return to the "5G WIFI" page, select the channel from "Channel", and then click "Apply".



WIFICO	DNFERENCE	- 0

10. Disconnect the AP from the PC. The channel of the AP is changed.

6.4.2 Changing the SSID and password

When multiple wireless conference systems are used in the same building, need to set different SSIDs for these conference systems.

- 1. Set the "WiFi" menu on the conference controller to change the SSID and password and send the new SSID and password to all conference units.
- 2. Log in to the AP and change the SSID and password of the AP. The connection method is similar to that for changing the AP channel. For details, see Section 6.4.1.1.

Note: When a VIS-MAW-T wireless unit is connected in the wireless conference system, add a number (1, 2, or 3) after the new name if change the SSID. For example, WIFI_ROOM, WIFI_ROOM1, WIFI_ROOM2, and WIFI_ROOM3 correspond to conference room 1, 2, 3, and 4 in the menu of the VIS-MAW-T unit respectively.

6.4.2.1 Changing the SSID and password of wireless conference system

The SSID and password of the wireless conference system are modified in the "WiFi" menu of the conference controller, which includes the submenus "SSID", "PASSWORD", and "Start Set", as described in the following table.

Menu item	Parameter/Value	Description

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SSID	16 bits	16 bit SSID. Default is WIFI_CONFERENCE.
PASSWORD	8 bits	8 bit password of SSID. Default is 888888888.
Start Set	On/Off	Command used to start the setting, which is set to Off by
		default.
		If change SSID and Password on the conference controller,
		need to set this command to On so as to send the new SSID
		and Password information to wireless conference units. An
		update success message is displayed when units receives the
		information. Be sure to set this parameter to Off after all
		units are successfully updated with the new SSID and
		password.
		Note: After wireless conference units updates the SSID and
		password, need to restart the units manually. The units
		cannot connect to the conference controller only after log in
		to the VIS-AP4C AP and change the SSID and Password
		accordingly.

For example, to change the SSID to "WIFI_VISSONIC" and password to "888888888", perform the following steps:

1. Press "ENTER" to enter the "Menu" screen from the home screen. Then press "▼" to scroll down and locate the "Wifi" submenu.



2. Press "ENTER" to enter the "Wifi" submenu. Then press "▼" to scroll down. The "SSID", "PASSWORD", and "Start Set" submenus are displayed in order.



3. Set the SSID first. Press "ENTER" to enter the "SSID" submenu. Press "▼" or "▲" to set the current character and then press "ENTER" to activate the next character. Repeat this operation until the SSID is modified to "WIFI_VISSONIC". Then press "ESC" to exit the setting.



 Set the PASSWORD. Press "ENTER" to enter the "PASSWORD" submenu. Perform the operations similar to those for changing the SSID until the password is modified to "88888888". The press "ESC" to exit the setting.



5. Make sure that all wireless conference units are turned on and in operating state. Press "ENTER" to enter the "Start Set" submenu. Press "▼" to locate "On" and then press "ENTER". The screen displays "Start set:On", as shown in the following figure. The conference controller sends the SSID and PASSWORD set in Step 3 and Step 4 to the wireless conference units. A "updated successfully" message is displayed when a wireless conference unit receives the information successfully.



6. After all wireless conference units shows update success, press "▲" in the "Start Set" submenu to locate "Off" and then press "ENTER". The screen displays "Start set:Off", as shown in the following figure. Then restart all wireless conference units manually. These wireless conference units will prompt a connection failure and attempt to reconnect to the controller continuously. Need to update the SSID and PASSWORD of the AP for successful reconnection. For operation details, see Section 6.4.2.2.



6.4.2.2 Changing the SSID and password of AP

1. Connect a PC to the AP and then change the IP network segment of the PC to the same segment as the AP. For operation details, see Section 6.4.1.1. Open the browser on the PC and

VISSONIC

enter the default IP address 192.168.2.1 of the AP. The following page is displayed.

2. Enter the password "admin" and click "Login".



3. Click "WIFI" in the left navigation pane and then click "5G WIFI" to enter the "5G WIFI" page. The default SSID "WIFI_CONFERENCE" is displayed, as shown in the following figure. Change the SSID to the same one set on the controller, for example, "WIFI_VISSONIC". You can select "Hide WiFi SSID?" to hide the SSID. Set the wireless network password in "Password" and click "Apply" at bottom of the page. Wait for 15 seconds until the new settings are uploaded and saved. The setting is complete.

WIFICO	INFERENCE	- 5

6.4.3 Restoring to factory settings

Press the Reset button on the rear panel of the AP for about 10 seconds and then release the button. Then press the Reset button again and release the button until the indicator lights off. The AP is restored to factory settings.



Figure 6.4.3 Ports on the side of VIS-AP4C

Note: It is not recommended to connect other devices to the POE switch. It should connect the VIS-DCP2000-W and up to 8 VIS-AP4C.

7. System connection and use case

7.1 System planning

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

The conference controller is powered by 110V-220V wide range power supply, while it has a basic control capacity (with VIS-EXM it can load more units). Here list a basic capacity of active units for one conference controller.

CLEANCON series conference system capacity table										
	Extension	VIS-DCP2000-D/W				VIS-EXM				
Model	cable (m)	CU/ DU1	CU/ DU2	CU/ DU3	Max. total	CU/ DU1	CU/ DU2	CU/ DU3	CU/ DU4	Max. total
VIS-DCC-T VIS-DCD-T	2m	30	30	30	90	30	30	30	30	120
VIS-DIC-T VIS-DID-T VIS-DVC-T	5m	29	29	29	87	29	29	29	29	116
VIS-DVD-T VIS-DSC-T VIS-DSD-T	10m	28	28	28	84	28	28	28	28	112
VIS-DCC-F VIS-DCD-F	20m	24	24	24	72	24	24	24	24	96
VIS-FFC-F1 VIS-FFD-F1 VIS-FFC-F2	50m	20	20	20	60	20	20	20	20	80
VIS-FFD-F2	100m	15	15	15	45	15	15	15	15	60
	2m	25	25	25	75	25	25	25	25	100
VIS-MAU-T VIS-MAW-T	5m	24	24	24	72	24	24	24	24	96
VIS-MAW-1 VIS-DMD-T	10m	23	23	23	69	23	23	23	23	92
	20m	19	19	19	57	19	19	19	19	76



50m	15	15	15	45	15	15	15	15	60
100m	10	10	10	30	10	10	10	10	40

The capacity is decided by:

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

Note: Extension cable has direct effect on the control capacity. The longer extension cable is used, the less power is available to drive the devices connected in the system. The length of the cable needs to be selected according to the practical situation.

7.2 System connection

The CLEACON conference system has five connection modes:

• Hand-in-Hand-Loop-Network. This connection mode is an important feature of the CLEAON series conference system, making the system more stable and reliable. The failure of any unit or disconnection of a cable does not affect the other units. Both CU/DU ports communicate and supply power to the unit.



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"Hand-in-Hand-Loop-Network" connection is only available between CU/DU socket 1 and CU/DU socket 2, or CU/DU socket 2 and CU/DU socket 3. But it is not valid between CU/DU socket 1 and CU/DU socket 3.

• Hand in Hand Connection



• Hand-in-Hand connection Hand-in-Hand-Loop connection



• Extension main unit VIS-EXM + Hand-in-Hand-Loop connection



• Extension main unit connection



7.3 Use case

Under the default settings of the conference controller, unit and AP, generally there is no need to configure. After the system is connected, the conference system can already be used. The current time can be displayed on the unit. After the controller is connected to the audio system, there will be sound output.

The following is an example of a simple wired conference system that consists of a VIS-DCP2000-D conference controller, eight VIS-DCD-T delegate units, and two VIS-DCC-T chairman units. The connection diagram is as follows:



- 1. Turn the volume knob of the conference controller, control the output gain, and cooperate with the peripherals to get the required sound pickup distance on the premise of avoiding howling.
- 2. Set the "MIC mode" to "Open" and set the "Active MIC" to "1" of the controller menu. For the other settings, see the corresponding sections in this manual.

Note:

VISSONIC

- If replace or add a conference unit, the new unit needs to reset the ID. See Section 3.1.3.
- For a wireless conference system, determine whether to change the AP channel according to the wireless network environment on site. See Section 6.4.1.
- If multiple wireless conference systems are used in the same building, need to set a unique SSID for each system. See Section 6.4.2.

8. Technical specifications

8.1 Camera tracking protocol

Format: A0 [XX] 10 00 07 [YY] FF FF FF AF [ZZ]

- 1. Explain: [XX], [YY], [ZZ] are all hexadecimal, where [YY] represents ID code.
- 2. Algorithm: [ZZ] = 0xFFFF-([xx]+10+00+07+[YY]+FF+FF+FF), result low.
- 3. The conference unit ID starts from 1 and increases progressively.
- 4. Use the "256 base system", for example ID 256, [YY] = 00, [XX] plus 1.

As shown in the table below:

Conference unit ID (in decimal); Serial port code (conference controller serial port common, protocol set to "CUSTOM", in hexadecimal)

0 A0 10 10 00 07 00 FF FF FF AF DB (Panorama code, all microphones are off)

- 1 A0 10 10 00 07 01 FF FF FF AF DA
- 2 A0 10 10 00 07 02 FF FF FF AF D9
- 3 A0 10 10 00 07 03 FF FF FF AF D8
- 4 A0 10 10 00 07 04 FF FF FF AF D7

•••

127 A0 10 10 00 07 7F FF FF FF AF 5C
128 A0 10 10 00 07 80 FF FF FF AF 5B
256 A0 11 10 00 07 00 FF FF FF AF DA
257 A0 11 10 00 07 01 FF FF FF AF D9
258 A0 11 10 00 07 02 FF FF FF AF D8
259 A0 11 10 00 07 03 FF FF FF AF D7
260 A0 11 10 00 07 04 FF FF FF AF D6

••••

512 A0 12 10 00 07 00 FF FF FF AF D9
513 A0 12 10 00 07 01 FF FF FF AF D8
514 A0 12 10 00 07 02 FF FF FF AF D7
515 A0 12 10 00 07 03 FF FF FF AF D6
516 A0 12 10 00 07 04 FF FF FF AF D5

•••

768 A0 13 10 00 07 00 FF FF FF AF D8769 A0 13 10 00 07 01 FF FF FF AF D7

770 A0 13 10 00 07 02 FF FF FF AF D6
771 A0 13 10 00 07 03 FF FF FF AF D5
772 A0 13 10 00 07 04 FF FF FF AF D4

8.2 Devices

8.2.1 VIS-DCP2000-D

Power	AC 100V-240V
Static power consumption	12W
Maximum power consumption	150W
Frequency Response	20Hz-20KHz
Noise ratio (S/N)	> 96dBA
Total harmonic distortion	< 0.05%
Channel Crosstalk	> 85dB
Dynamic range	> 94dB
RS232 control	1×9 -pole Sub-D female socket 1×9 -pole Sub-D male socket
Ethernet control	RJ45 connected to PC
Mounting	19" standard rack
Dimensions (mm)	$483L \times 260W \times 43.6H$
Weight	3kg
Max. audio inputs	LINE IN 1: +10dBu
	LINE IN 2: +10dBu
Max. audio outputs	LINE OUT 1: +12dBu BAL
	LINE OUT 2: +12dBu BAL
	LINE OUT 3: +12dBu BAL
	LINE OUT 4: +12dBu BAL
Output impedance	$> 1 k\Omega$
PC communication method	TCP/IP
Camera control method	RS232/UDP
Network Interface	RJ45
Display	LCD1602
Limit on the number of active	1/2/4/6
MIC	
Camera Tracking Protocol	PELCO-P/PELCO-D/VISCA
Operating temperature	0°C-45°C
Storage temperature	20°C-50°C

8.2.2 VIS-DCP2000-W

Power	AC 100V-240V
Static power consumption	12W
Maximum power consumption	150W
Frequency Response	20Hz-20KHz
Noise ratio (S/N)	> 96dBA
Total harmonic distortion	< 0.05%
Channel Crosstalk	> 85dB
Dynamic range	> 94dB
RS232 control	1×9-pole Sub-D female socket 1×9-pole Sub-D male socket
Ethernet control	RJ45 connected to PC
Mounting	19" standard rack
Dimensions (mm)	$483L\times260W\times43.6H$
Weight	3kg
Max. audio inputs	LINE IN 1: +10dBu
	LINE IN 2: +10dBu
Max. audio outputs	LINE OUT 1: +12dBu BAL
	LINE OUT 2: +12dBu BAL
	LINE OUT 3: +12dBu BAL
	LINE OUT 4: +12dBu BAL
Transmission technology	WIFI 802.1n
Encryption technology	WPA2-PSK AES
Working frequency	5.2-5.8GHz
Output impedance	$> 1 k\Omega$
PC communication method	TCP/IP
Camera control method	RS-232/UDP
Network Interface	RJ45
Display	LCD1602
Limit on the number of active	1/2/4
MIC	
Camera Tracking Protocol	PELCO-P/PELCO-D/VISCA
Operating temperature	0°C-45°C
Storage temperature	20°C-50°C

8.2.3 VIS-

DCC/DCD/DVC/DVD/DVCIC/DVDIC/DIC/DID/DSC/DSD-T

Button	Touchable interface
Sound Pickup	heart type capacitance
Display	OLED display 128 × 32
Sensitivity	-46 dBV/Pa
Maximum power	2.0W
consumption	
Directivity	0°/180°> 20 dB (1 KHz)
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	70dB
Frequency response	20-20KHz
Connection	CAT5/CAT6 cable + snap
Equivalent noise	20dBA (SPL)
Main material	ABS
The maximum sound	125dB (THD<3%)
pressure	
Weight	1.1kg (with microphone)
Dimension	$195L \times 120W \times 60H \text{ mm}$ (without microphone)
Operating temperature	0° C to + 55°C
Color	Black

8.2.4 VIS-DMD-T

Screen size	109.22 mm (5.0 inches)	
Resolution	800 imes 480	
Screen type	Capacitive multi-touch	
Contactless NFC cards in following	ISO/IEC14443 Type A	
standards		
Connection method	CAT5/CAT6 cable + buckle	
Electrical parameters		
Power	48V DC	
Supply consumption	5 W	
Frequency response	20Hz-20KHz	



0.10/		
< 0.1%		
> 90 dB		
> 90 dB		
Audio input		
80 dB SPL in accordance with IEC60914		
125dB (THD $<$ 3%), in line with IEC60914		
-46 dBV/Pa		
Audio output		
16Ω		
10mW		
3.5mm stereo socket. Input impedance $2k\Omega$		
Desktop		
$160L \times 100W \times 65H$		
Black		
0.7KG (base)		
Environmental parameters		
5°C to +55°C		
< 90%		

8.2.5 VIS-MAU-T

Screen size	109.22 mm (4.3 inches)	
Resolution	800 × 480	
Screen type	Capacitive and color multi-touch	
Contactless NFC cards in following standards	ISO/IEC14443 Type A	
Connection method	CAT5 / CAT6 cable	
Sound Pickup	Heart type capacitance	
Power	DC 48V	
Power consumption	3.4W	
Frequency response	20Hz-20KHz	
THD at rated level	<0.1%	
Dynamic range	>90dB	
SNR	≥96dB	
Audio input		
Nominal microphone input	80 dB SPL in accordance with IEC60914	
Maximum sound pressure	125dB (THD <3%), in line with IEC60914	
Sensitivity	-46 dBV/Pa	
Audio output		



Headphone load	16Ω	
Headphone volume	10mW	
Headphone jack	3.5mm stereo	
Input impedance	2kΩ	
Mechanical parameter		
Installation	Desktop	
Dimensions (mm, without microphone)	$217.5L \times 138.5W \times 69H$	
Color	Black	
Main material	ABS	
Weight (without microphone)	1.0 KG	
Environmental parameters		
Operating temperature	5°C to +55°C	
Relative humidity	<90%	

8.2.6 VIS-DAC/DAD-T

Button	Touchable interface
Sound Pickup	Up to 120CM
Maximum power consumption	1.0W
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	70dB
Frequency response	20Hz–20KHz
Connection	CAT5/CAT6 cable + RJ45
Equivalent noise	20dBA (SPL)
Main material	Aluminum
Weight	0.7kg
Dimension	$305L \times 45W \times 42H \text{ (mm)}$
Operating temperature	0° C to + 55°C
Color	Silver or Black

8.2.7 VIS-DCC/DCD/CSU/DVU/SPK/FFC/FFD-F/FS/FS1/FS2/F1/F2

Button	Touchable interface
Sound Pickup	Heart type capacitance
Sensitivity	-46 dBV/Pa

VIS-FFD/FFC-	OLED 128 × 32	
F1/F2 display		
Maximum power	VIS-DCD/DCC/FFD/FFC-F/F1/F2: 2.0W;	
consumption	VIS-CSU-F: 1.8W;	
	VIS-SPK-F: 3W.	
Directivity	0°/180°> 20dB (1 KHz)	
Headphone load	16Ω	
Headphone	10mW	
volume		
Headphone jack	3.5mm stereo	
Input impedance	2kΩ	
SNR	70dB	
Frequency	20Hz-20KHz	
response		
Equivalent noise	20dBA (SPL)	
Connection	CAT5/CAT6 cable + RJ45	
Main material	Aluminum	
The maximum	125dB (THD<3%)	
sound pressure		
Weight	VIS-DCD/DCC-F: 0.6kg (with microphone);	
	VIS-CSU/DVU-F/FS1/FS2: 0.2kg;	
	VIS-FFD/FFC-F1/F2: 1.1kg (with microphone).	
Dimension(mm)	VIS-DCD/DCC/CSU/DVU-F/FS1/FS2: 100L × 40W× 65H (without	
	microphone);	
	VIS-SPK-F: $100L \times 40W \times 30H$;	
	VIS-FFD/FFC-F1/F2: $265L \times 85W \times 72H$ (without microphone).	
Operating	$0^{\circ}C$ to $+ 55^{\circ}C$	
temperature		
Color	Black	
Drill hole size	VIS-DCD/DCC/CSU/DVU/SPK-F/FS1/FS2: 93×33 mm (One Unit);	
	193×33 mm/93×33 mm+middle distance 41 mm (Two Combined Unit);	
	293×33 mm (Three Combined Unit).	
	VIS-FFD/FFC-F1/F2: 248×76 mm.	

8.2.8 VIS-WDC/WDD/WVC/WVD/WVCIC/WVDIC-T

Button	Touchable interface
Sound Pickup	Heart type capacitance
Display	OLED 128 × 32
Sensitivity	-46 dBV/Pa
Maximum power consumption	2.0W



Directivity	0 °/180 °> 20dB (1 KHz)
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	70dB
Frequency response	20Hz-20KHz
Equivalent noise	20dBA (SPL)
Main material	ABS
Operating temperature	$0^{\circ}C$ to $+ 55^{\circ}C$
Color	Black
The maximum sound pressure	125dB (THD <3%)
Weight	1.1kg (with microphone)
Dimension	$195L \times 120W \times 60H \text{ mm}$ (without microphone)

8.2.9 VIS-MAW-T

Screen size	109.22 mm (4.3 inches)	
Resolution	800×480	
Screen type	Capacitive and color multi-touch	
Contactless NFC cards in following standards	ISO/IEC14443 Type A	
Connection method	CAT5/CAT6 cable + WiFi wireless + buckle	
Sound Pickup	Heart type capacitance	
Power	DC 48V	
Power saving mode consumption	1.4W	
Maximum power consumption	3.8W (connection with wireless and wired	
	together)	
Frequency response	20Hz-20KHz	
THD at rated level	< 0.1%	
Dynamic range	> 90dB	
SNR	≥ 96dB	
Audio input		
Nominal microphone input	80 dB SPL in accordance with IEC60914	
Maximum sound pressure	125dB (THD $<$ 3%), in line with IEC60914	
Sensitivity	-46 dBV/Pa	
Audio output		
Headphone load	16Ω	
Headphone volume	10mW	
Headphone jack	3.5mm stereo	
Input impedance	2kΩ	



Mechanical parameter		
Installation	Desktop	
Dimensions (mm, without microphone)	$217.5L\times138.5W\times69H$	
Color	Black	
Main material	ABS	
Weight (without microphone)	1.0 KG	
Environmental parameters		
Operating temperature	5°C to +55°C	
Relative humidity	< 90%	

8.2.10 VIS-WBTY1

Battery capacity	4900mA
Output voltage	7.2V DC
Weight	285g
Operation temperature	-20°C-60°C
Full charge time	Four hours needed to fully charge
Battery life	24 hours (MIC on continuously)

8.2.11 VIS-WCH1

Input	100-240V, AC, 50-60Hz
Output	7.2V, 1000mA
Power consumption	20W
Dimension	$320L \times 200W \times 50H \text{ (mm)}$
Weight	2KG
Full charge time	Four hours needed to fully charge
The number of batteries	8 pcs VIS-WBTY1 at one time
charged at one time	

8.2.12 VIS-WBTY2/VIS-WBTY2-H

Battery capacity	VIS-WBTY2: 5000mAh; VIS-WBTY2-H: 6500mAh.
Output voltage	DC 7.2V
Weight	240g

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Operation temperature	-20°C-60°C
Full charge time	Four hours needed to fully charge
Battery life	20 hours (with power save mode);
	14 hours (MIC on and screen is highlighted continuously).

8.2.13 VIS-WCH2

Input	100-240V, AC, 50-60Hz
Output	7.2V, 1000mA
Power consumption	20W
Dimension	530L×200W×52H (mm)
Weight	2kg
Full charge time	Four hours needed to fully charge
The number of batteries	10 pcs VIS-WBTY2 at one time
charged at one time	

8.2.14 VIS-INT64

Power	DC 48V from controller or adaptor
Power consumption	3W
LCD	320×64 dot (blue white)
Microphone	
Transducer	Electret-condenser
Polar pattern	Uni-directional
Sensitivity	-46dBV/pa
Frequency response	20Hz-20KHz
Input impedance	2.2kOhm
Headphone	
Frequency Response	30-20KHz
Headphone load	> 80hm
Headphone volume	10mW
Directivity 0°/180°	> 20 dB (1KHz)
Equivalent noise	20 dBA (SPL)
Maximum sound pressure level	125 dB (THD<3%)
Mechanical	
Dimension (mm)	$280H\times 128W\times 55D$
Weight	1.5kg

8.2.15 VIS-EXM/VIS-CNB/VIS-AP4C

• VIS-EXM

Power	48V, DC, 3A
Dimension (mm)	$223W \times 37H \times 92D$
Weigth	0.5KG

• VIS-CNB

Interface	2×RJ45 loop ports; 2×RJ45 for repeated chains ports.
Dimension (mm)	$80L \times 50W \times 23H$
Weigth	0.1KG

• VIS-AP4C

IEEE802.11ac, IEEE802.11a, IEEE802.11g, IEEE802.11b
5GHz UNII
27dBm
Four built-in 5dBi antennas
Power Over Ethernet, 802.3at, DC 12V 1.5A
≤13W
1×Gigabit WAN/POE Port, 1×Gigabit LAN Port
1200Mbps
DHCP or Manual IP address
100m (max)
\geq Cat5e (shielded/unshielded)
$1 \times RJ45$
WAN/POE Port (UP LED), LAN Port (Down LED)
220L×220W×45H
White
0.3KG
Ceiling, Wall or Stand Rack