



INSTALLATION AND OPERATING MANUAL

ICS Wireless

Intrend wireless digital conference system



PART 1 Safety Operation

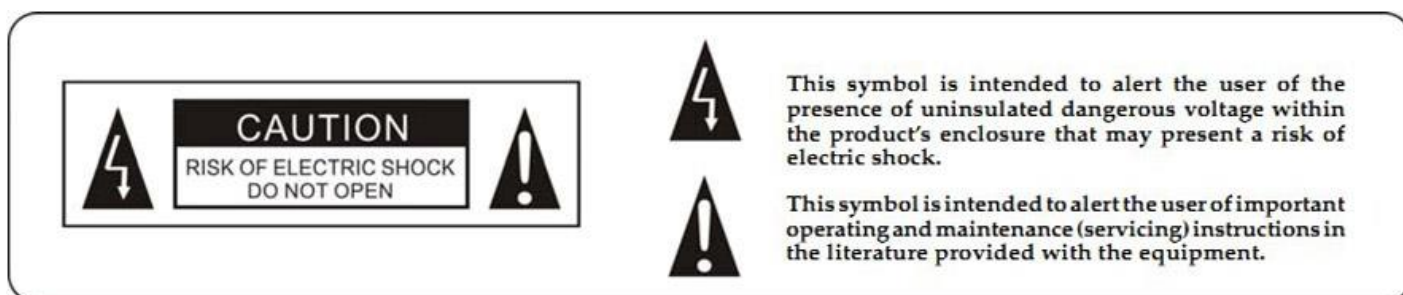
1.1 Safety Operation

Firstly, thank you very much for using our conference system. To make sure safety of equipments and user, please read this safety instruction carefully before installing and using, and operate seriously according to this manual. Also please keep this safety instruction for future reference. Notices are as below:

1. Read this manual carefully before installing and using. And keep it for further reference.
2. Wiring during installation must follow national electric safety standards, national fireproofing regulations and all related local regulations.
3. Protect the power cord from being walked on and do not stack things on the power cord, particularly at plugs.
4. To make sure earth wire connecting well. Do not use 2- pin plugs. Power supply: 220V 50Hz.
5. Power supply cords:

AC 220 V~240 V 50 Hz
6. The packaging of equipment is designed for protecting 1.5 meters dropping, but please prevent from stress and shocking during transportation, installation and storing.
7. Do not place the system equipments on too cold or too hot room.
8. The power supply of the equipment will generate heat during operation. Therefore, to maintain good ventilation in the working environment, there should be a minimum of 20cm or more around the equipment; the ventilation holes should not cover items such as newspapers, tablecloths and curtains to prevent ventilation, so as to avoid temperature.
9. Unplug the system during wet weather or when unused for long periods of time.
10. Do not touch the power plug with wet hands, which may cause the danger of potential electric shock.
11. Hold the power cord plug when unplugging from the power outlet. Do not pull the power cord. The damaged power cord may cause a potential fire or electric shock.
12. Do not scratch, bend, twist, pull the power cord or heat it; do not hang or rotate heavy objects (including the unit) on the power cord. The damaged power cord may cause fire or electric shock.
13. If the power supply is damaged (such as cutting or bare wires), please ask your dealer to replace it. If you use a damaged power cord for this unit, it may cause fire or electric shock.

14. In the event of a drop or damage to the unit, turn off the power switch, unplug the power cord from the AC outlet, and contact your dealer. If you continue to use the unit without paying attention to it, it may cause a fire or electric shock.
15. Must unplug the equipment before below operations:
 - Taking down or resetting any part on machine
 - Reconnecting any plug in system
16. Do not disassemble or maintain the product by non-authorized personnel to avoid accident or damage. Warning label is as below:



Note: This product is applicable to the altitude of 2000m and below!

17. Do not spill any chemicals or liquids on or near the equipment; The equipment should not be subjected to water drops or splashing; Items filled with liquid, such as vases, should not be placed on equipment
18. Be sure to keep the unit away from the following locations:
 - Suffering from oil splashes or vapors, such as near kitchen stoves, humidifiers, etc.
 - Unstable surfaces, such as a shaking tabletop, beveled surface.
 - Locations subject to excessive heat, such as in a car with a closed window, or in a location subject to direct sunlight.
 - Locations subject to excessive moisture or dust.
19. If the equipment is not used for a long time, please turn off the power. And it is best to unplug the power.
20. If the power plug and appliance couplers are used as disconnection devices, the disconnection device should be easy to operate.

21. Please thoroughly check the connection of the system before turning on the host power.
Before using the host, check whether the host settings are correct and meet the conference usage requirements.
22. This equipment is a Class I equipment, which shall be connected to the power grid output socket with protective ground connection device.

PART 2 System introduction

2.1 Brief introduction

System uses wireless digital audio transmission technology , digital technology and 2.4G wireless technology into the conference system.

Conference units are connected by 2.4G wireless technology, which is easy to install and maintain. ICS wireless digital conference system is composed of conference controller , wireless conference unit, wireless transceiver , high-speed camera, cable and software. The wireless conference unit includes chairman unit, delegate unit, etc; The software consists of multiple software modules.

ICS WL wireless digital conference system		
All Digital System Controller		
System controller	ICS-WL-CU	
Wireless System Unit		
Chairman unit	ICS-WL-MC	

Delegate unit	ICS-WL-MD	
RF transceiver	ICS-WL-AP	

PART 3 Main Controller ICS-WL-CU

3.1 Introduction

The system controller is the core component of conference system, which is the important intercommunication factor between units and PC management software modules. It controls all the conference functions via the navigation keyboard and 2.8 inch LCD screen on the front panel.



3.2 Function and Feature

- Full digital conference technology, compliant to IEC60914 international standard
- 4 MIC manage mode (support MIC turn on 1-3)
- The controller has a five-in-one function, which can be set as a system controller, a backup controller, an extension controller, a combined controller and a distribution controller.
- Support double machines back-up function to keep the system's safety and stability.
- The system supports max 8 conference rooms splitting/combined function (optional function)
- Built-in noise gate
- Can setup the microphone unit to linear gain adjustment or automatic gain adjustment

- The microphone has bass cut function.
- The microphone has a 5-band EQ balance adjustment. And each microphone can be set with a specific EQ and volume adjustment
- Line 1 input interface can be setup as microphone input or linear input.
- Each channel input and output has independent volume adjustment function
- The controller can connect computer, central controller and HD video matrix.
- The controller support 8 cameras
- Support max 100 delegates to apply for speaking sequence; It can display real-time application sequence on PC software.
- VIP units can be designated arbitrarily, supporting 150 chairman units
- Working with conference management software to achieve “One click backup and restore” function.

3.3 Technical Parameter of Main Controller

Mode	ICS-WL-CU
Working power	AC100—240V, 50/60Hz, 4A
Working consumption	Depends on QTY of units: Single 6W, max 320W
Display	2.8 inch screen
Menu	Chinese/English or custom made
Capacity of each way	Conference units: 20pcs
System capacity	120 multi-function units; Can be expanded to 4095 units
Transmission distance	Max 100M
Voltage of unit output port	24V
Audio input	RCA x 1 11dBV ; XLR x 1 11dBV
Audio output	RCA x 1 10dBV ; XLR x 1 16dBV
Output impedance	RCA : 650Ω ; XLR : 460Ω
Frequency response	20~20KHz
SNR	> 90dB
Dynamic range	> 90dB
Total harmonic distortion	< 0.05%
External microphone port	1 port
Unit ID number	User defined
Quantity of possible chairman units	150pcs
Special function	Support 1 backup controller; In meeting room combine mode, it supports 8 combined controllers; It supports max 99 controllers
Serial port control	RS-232 x 2
Network port control	RJ45 x 2
Working modes	4modes
Quantity of speaking microphones	1-3
Speaking limit function	Yes

Video control type	RS-422 / RX-485
Unit connector	wireless
Camera	8PCS
Quantity of panorama	Can setup 8X4 Panorama points; Can setup switching time & order
Color	Dark grey
Net weight	8KG
Dimension	432×90×350 mm
Installation	Suitable for 19 inch standard stand

3.4 Schematic diagram of front panel

3.4.1 ICS-WL-CU Systematic Diagram of Front Panel

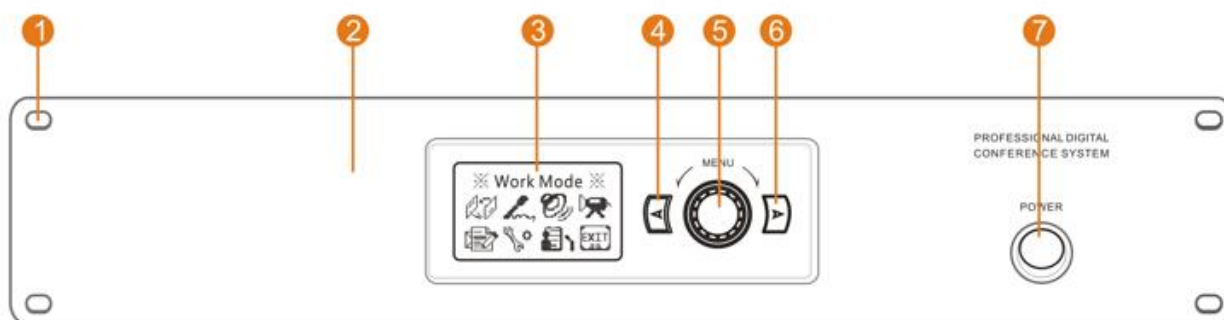


Figure 3.2 Front Panel

1. Mounting hole for 19 inch stand
2. Front panel of main controller. Aluminum Alloy
3. LCD screen, can adjust the brightness and contrast.
4. DOWN KEY
5. Rotary knob: Turn left or turn right to move cursor , press down to confirm
6. UP KEY
7. Power switch, with electrifying indicator.

3.4.2 ICS-WL-CU Systematic Diagram of Back Panel Ports

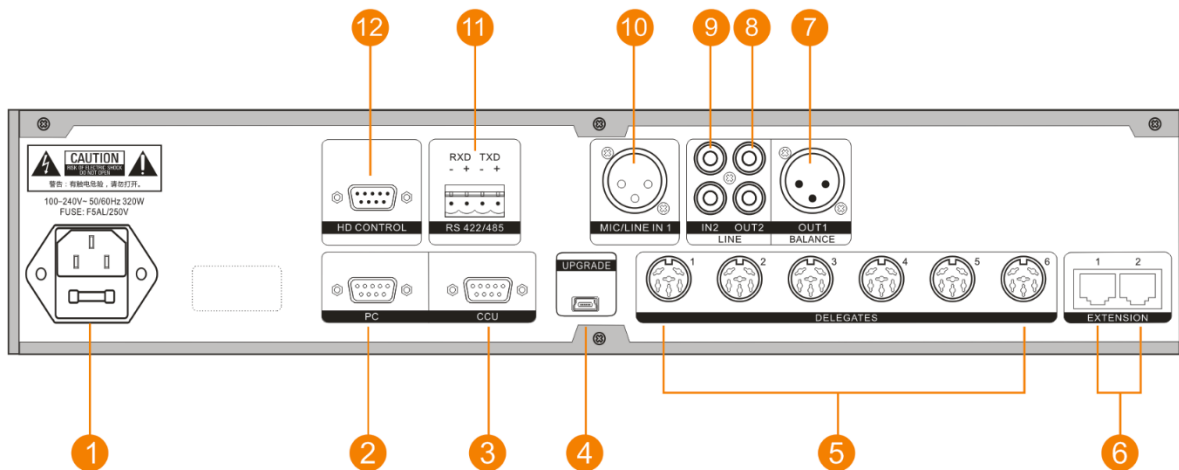
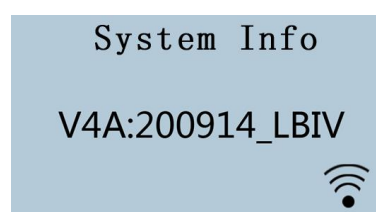


Figure 3.3 Back Panel

1. Power interface : INPUT 100-240V~ 50/60Hz 320W
2. PC : RS232 connector
3. CCU : RS232 central controller connector
4. UPGRADE
5. DELEGATES : 6 line conference unit connector
6. EXTENSION : RJ45 extension connector
7. BALANCE OUT1 : balance audio output connector
8. LINE OUT2 : RCA audio output connector
9. LINE IN2 : RCA audio output connector
10. MIC/LINE IN1 : balance connector, could as external microphone input or balance input
11. RXD/TXD : RS422/RS485connector, connect to camera
12. HD CONTROL : HD video matrix control connector

3.5 Controller frequency setup

Press MENU enter system main menu, Turn the knob to the right to select [ System Info], enter system information interface, as shown in the picture :



After entering the system information interface, press the left and right buttons at the same time to display the frequency interface, as shown in the left figure below.

Turn the knob key to select the frequency , press the menu knob key or right key to enter the frequency setting interface, as shown in the right figure below. Turn the knob key to set the frequency value, then press the knob key to confirm, press the left key to exit, and then press this method to set other frequency

```
1 Frequency1 001
2 Frequency2
3 Frequency3
```

```
Frequency1
008
Ver:21304
0000 0000
```

PART 4 Wireless system unit ICS-WL-MC

4.1 Introduction



Figure 4.1 Wireless system unit ICS-WL-MC & ICS-WL-MD

4.2 Function and feature

- Original full digital conference technique, compliant to IEC60914.
- Elegence desktop design, according with clay engineering.
- Each unit has arbitrary distribution ID address, convenience for installation and avioding ID address repeating.
- 2.4G PHSS technique, strong anti-jamming and secrecy

- 4861/03 adopts 14mm diameter gold-plated capacitive microphone core; The pickup distance is up to 80cm (Should work with audio processor)
- Intelligently check signal, and display batteries power.
- Wireless design, more convenient to setup
- All digital audio technique, close to CD sound quality
- Uni-directional electret condenser MIC with indicator light.
- Strong anti-mobile phone interference capacity.
- Has four microphone working modes
 - Quantity limit mode: 1 to 3 units allowed to be opened at the same time
 - FIFO mode: After reaching the limit quantity, the last open unit covers the earliest open unit
 - Application mode: All delegates speakings are rejected or approved by the Executive Chairman
- Except all the functions of the delegate unit, the chairman unit has the following conference control functions:
 - Priority speaking function
 - Turn off or mute the speaking delegate microphone
 - In approve mode, it can approve or reject the delegate's application to speak
- System support 3 chairman units, could specify one as executive chairman.
- Working with camera to implement auto-video tracking.
- In combination with the corresponding software modules to achieve more functions.

4.3 Technical parameter

Model Parameter	ICS-WL-MC / ICS-WL-MD
Unit type	Tabletop Chairman/Delegate unit
Capacity	Depends on system controller, ≤4095
Frequency respond	30Hz–20KHz
MIC type	Cardioid directional microphone
SNR	> 90dB
Dynamic range	> 92dB
Harmonic distortion	< 0.05%
ID Edit	Assigned by system controller
Auto video tracking function	YES
Modulation	GMSK
Carrier frequency	2400-2517MHz
Receive/transmit angle	Comprehensive 360°

Work power	3.6V lithium battery
Power consumption	500mW-650mW
Working hours	13-16hours
Connection mode	Wireless
Color	Silver, Black (Custom-made)
Installation	Desktop

4.4 Schematic diagram of function key on units

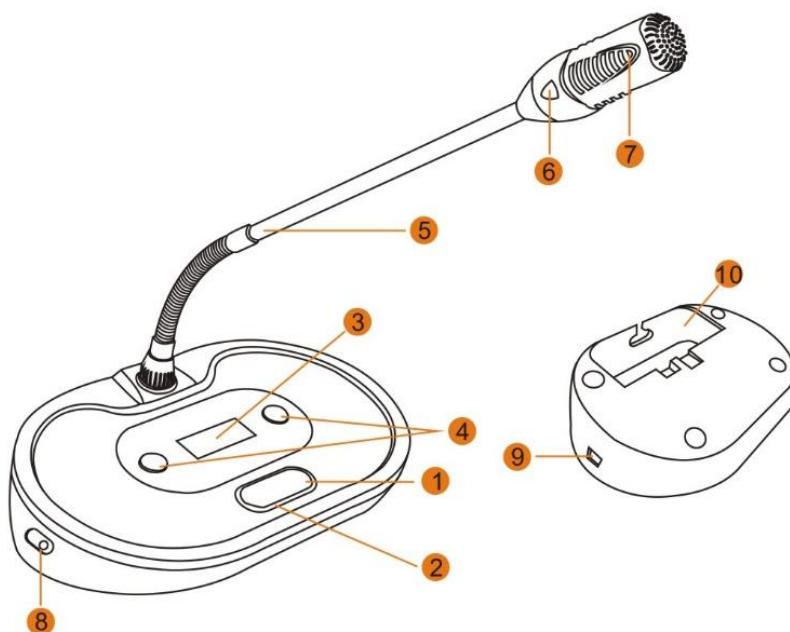


Figure 4.2 Schematic diagram of function key

1. POWER, MUTE, silent mode on/off
2. MIC : ON/OFF, chairman unit has speaking priority ; POWER light
3. LED
4. Volume control for earphone or built-in speaker.
5. Gooseneck pole: gooseneck pole with electret MIC and red indicator light.
6. MIC: high sensitivity, red indicator light which lights during MIC opening.
7. Microphone
8. Phones
9. Battery holder

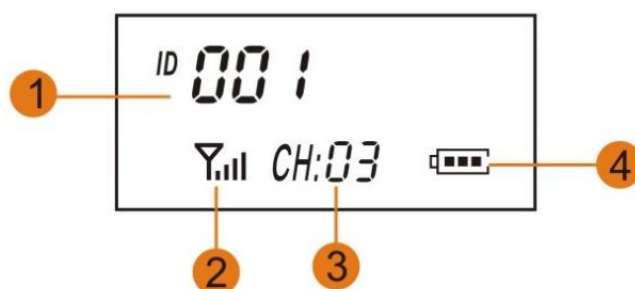
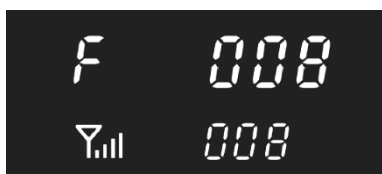


Figure 4.3 Unit operation interface

1. Delegate unit ID No 001.
2. Display signal intensity
3. Display local channel
4. Display unit battery

4.5 Conference Unit Frequency Setup

When the conference unit is powered off, press the left, right and Mic keys at the same time to enter the frequency setting interface, as shown in the following figure.



Press the left or right key to adjust the frequency to be consistent with the frequency of the conference controller, then press the mic key to confirm and exit the frequency setting interface. The frequency of the conference unit is set, and then set the frequency of other conference units



The frequency of the conference unit must be consistent with the frequency of the conference host.

PART 5 RF TRANSCEIVER ICS-WL-AP

5.1 Introduction



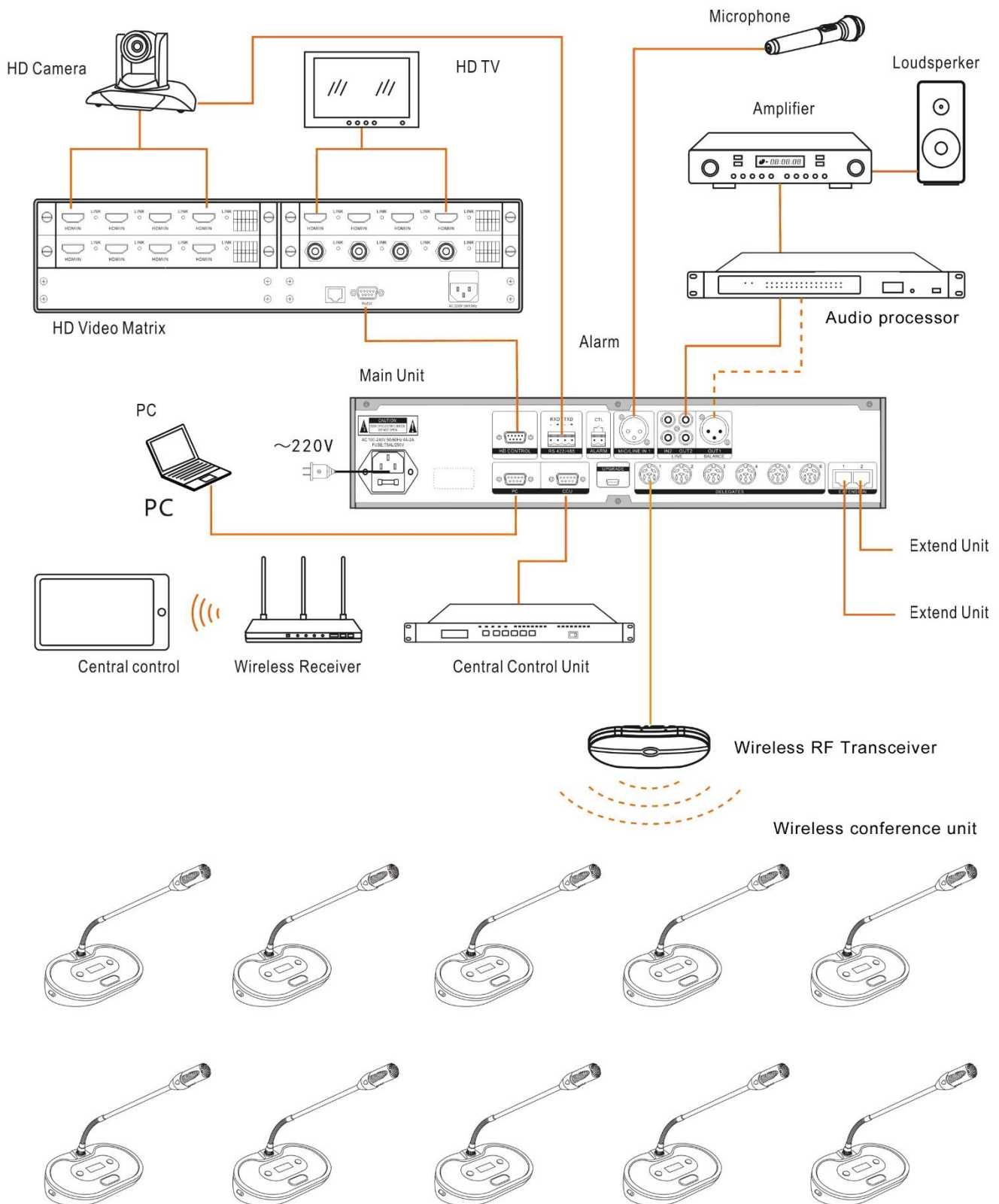
 Figure 5.1 RF transceiver ICS-WL-AP

5.2 Function and Feature

- Exquisite design, accord with engineering.
- Wireless receiving & transmission function.
- Wireless signal area is 60M.
- Adopt of 485 communication protocol.
- Adopt of 6 Pin cable.
- Built in LED indicator light.
- Wall-mounted and embedded installation.
- Adopt of 2.4G technique.
- Strange signal, 360 degree all-directional communication.

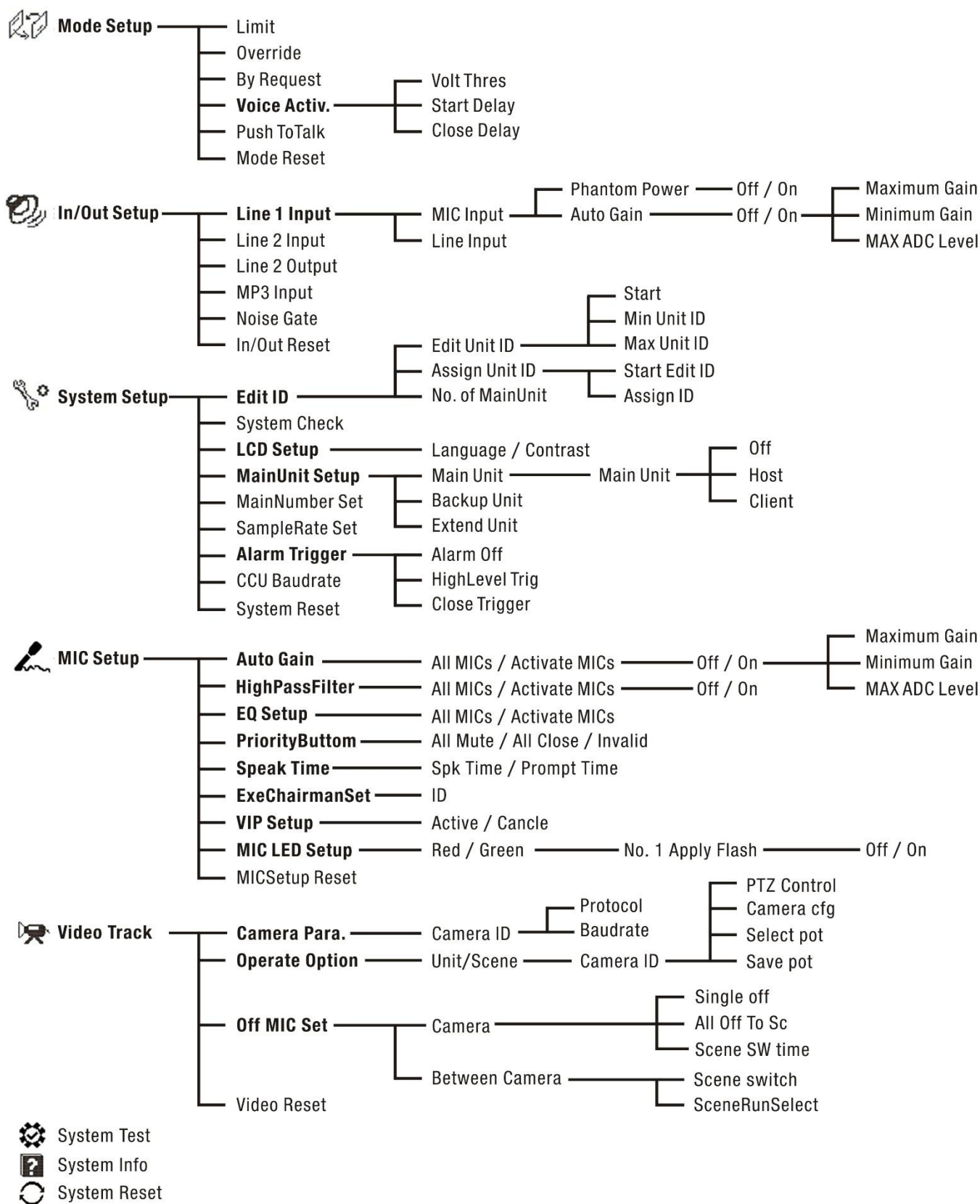
PART 6 Installation and Connection

6.1 System Connection Figure

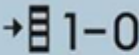


PART 7 Setting and Operation of Digital Conference Main Unit

7.1 Menu structure



7.2 Machine debugging

No.	Operation steps	Description	Remarks
1	Connect all conference equipment with cables		According to the system connection diagram
2	Turn on the host power switch		
3	The host automatically checks the whole conference system	A: unit checklist: ☒ executive chairman, ☒ chairman unit, ☒ delegate unit and ☒ VIP unit. B: host checklist: video module, voting host, backup host, extended host and distribution host.	When the system host is set to "host", the distribution host can be detected by the system host; when the system host is set to "off", the distribution host cannot be detected by the system host.
4	The host enters into standby interface		In the standby interface, the  icon indicates the working mode of the current host, the "front number" represents the total number of conference units, and the "back number" represents the number of conference units that have been turned on. The  icon indicates which input line of the host is currently muted, 1 indicates line 1 input, 2 indicates line 2 input, and M indicates MP3 input. When the  icon is displayed, all inputs are muted, including line 1, line 2 and MP3 inputs.
5	Define host properties	Set the host as 1. system host; 2. backup host; 3. extended host	The following steps are not required for setting the host as a backup host or an extended host
6	Set the ID number of the host	Define the system host ID number	
7	Set the number of units	Set the minimum unit number and maximum unit number	
8	Unit No.	Start Numbering	For each unit, press MIC to obtain the ID number
		End Numbering	
9	Setup working mode	Set the working mode of the unit. A total of five modes are available	

10	Adjust the input and output volume	Set input volume and gain, and output noise gate	
11	Microphone settings	Set microphone gain, EQ, speech duration, unit attributes, etc.	
12	Video tracking setting	Set the related functions such as panorama/unit video tracking	

7.3 Interface icons

No.	Icon	Meaning	No.	Icon	Meaning
1		Executive president	9		Mode setup
2		Chairman unit	10		In/Out setup
3		Delegate unit	11		System setup
4		VIP unit	12		Mic setup
5		Quantity limit	13		Video track
6		First-in-first-out	14		System test
7		Speech application	15		System test
8		Voice control mode	16		System reset

7.4 Operating instruction

Parameters		Description	Value range	Remarks
 Mode Setup	Quantity Limit	Set quantity limit	1~3	Set the number of microphones turned on at the same time. The number of conference units allowed to be turned on at the same time is 1~3. When the number of turned-on conference units reaches the preset number of startups, other conference units will enter the speech application state. When the turned-on conference unit is turned off, the conference unit that enters the application state first will be turned on

	Override		Set the number of first-in-first-out units	1~3	Set the number of conference units turned on at the same time. It is allowed to turn on 1~3 conference units at the same time. When the limited number is reached, the last conference unit will cover the earliest conference unit. (The chairman unit and VIP unit with microphone turned on are not subject to first-in-first-out restrictions)
	By Request		Set the number of units applying for speech	1~3	The delegate presses the microphone on/off button to apply for giving speech, and the chairman unit with control function in the system approves or rejects the speech application. It is allowed to turn on 1~3 conference units at the same time. After the approval of the executive chairman conference unit, the delegate conference unit can give speech.
	Voice Activ.	Volt Thres	Set the starting voltage value	4~480mV	It is allowed to turn on 1~3 units at the same time, and the microphone of the conference unit will be turned on automatically when the delegate gives speech. The higher the starting voltage, the higher the starting sound pressure
		Start Delay	Set the startup delay value	4~480mS	The longer the startup delay, the longer the required startup sound pressure holding time
		Close Delay	Set the off-microphone delay value	2~20S	The off-microphone delay indicates how long it takes to turn off the microphone after it is detected that the starting voltage has not been reached
	Mode Reset		Restore the factory default	Yes, No	

				parameters at this level		
 In/Out Setup	Line 1 Input	MIC Input	Phantom Power	Set phantom power on or off	Off / On	
			Auto Gain	Set automatic gain on or off	Off / On	
			Maximum Gain	Set the maximum gain value	-6~35dB	Activated when automatic gain is on
			Minimum Gain	Set the minimum gain value	-12~30dB	Activated when automatic gain is on
			MAX ADC Level	Set the maximum ADC level	-22~-1dB	Activated when automatic gain is on
		Line Input			None	
	Line 2 Input			Set the line 2 input volume	Mute~6dB	
	Line 2 Output			Set the line 2 output volume	Mute~6dB	
	Noise Gate			Set the output noise gate value	-54dB~off	Non-off: the system will automatically mute when the output signal amplitude is less than the set value; Off: turn off this function
	In/Out Reset			Restore the factory default parameters at this level	Yes, No	
Line In 1 Vol			Set the line 1 input volume	Mute~12dB	In the host standby interface state, press the left button to switch to the input volume interface of line 1	
Line 1 Output			Set the line 1 output volume	-57~0	In the host standby interface state, press the right button to switch to the output interface of line 1	
 System Setup	Edit ID	Edit Unit ID	Start	Assign ID number to unit: start number/end number	Unit ID	1. Set the minimum and maximum unit numbers first, activate the start number, and then the indicator of

						conference unit flashes intermittently. Press any button of conference unit in turn to confirm the numbers, and after the numbers are confirmed, the LED light of conference unit turns red. After all conference units are confirmed by pressing any button, end the numbering 2. The system needs numbering in the following situations: a. Install a new conference system b. Replace and provide additional unit equipment c. The system has the same unit number d. Unit prompts no numbering e. Unit quantity exceeds the max quantity set by the system 3. Suggested renumbering situation: change the system line connection or move the unit equipment or reduce the number of unit equipment
			Min Unit ID	Set the minimum unit number	0~(Max Unit ID-1)	
			Max Unit ID	Set the maximum unit number	1~4095	
		Assign Unit ID	Start Edit ID	Start number/end number	None	
			Assign ID	Assign an ID number to a specific unit	0~4095	Unnumbered units will flash after power on; you can

						only press one unit with the same number, otherwise the unit number will be duplicated, and duplicate numbers or abnormal communication will lead to "!" in the main interface Prompt
		No. of MainUnit			0~99	The maximum number of hosts must be greater than the host ID number
	System Check		System Check	None		Detect the number of conference units and hosts and their operation
	LCD Setup	Language	Set the interface display language	Chinese, English		
		Contrast	Set the contrast of the host LCD screen	0~9		
	MainUnit Setup	Main Unit	Set this host as the Main Unit	Off, Host, Client		1. "Off" is to turn off the host consolidation function (there is only one "off" for the entire system)
		Backup Unit	Set this host as the Backup Unit	None		2. "Host" represents the host control. When being
		Extend Unit	Set this host as the Extend Unit	None		connected, the client host is used as the extended host (there is only one "host" for the entire system). 3. "Client" represents client control, and when the host is set to be "client", the host is used as the client host 4. Priority level "off" > "Host"
	MainNumber Set		Define the host ID number	1~99		Different ID numbers need to be set for each host. It is recommended that such numbers be consecutive numbers. For example, if there are 20 hosts, the ID

						numbers of these hosts should be set to No.1-No.20
	SampleRate Set			Set the sampling frequency value	48K, 32K	
	Alarm Trigger	Alarm Off		Disable the alarm	None	Disable the alarm
		HighLevel Trig		When high power is detected, the alarm is triggered	None	All units are unavailable after the alarm is triggered
		Close Trigger		When low power is detected, the alarm is triggered	None	All units are unavailable after the alarm is triggered
	CCU Baudrate			Set the central control baud rate	2400~115200	Optional baud rate: 2400/4800/9600/14400 / 19200/38400/57600/115200
System Reset			Restore the factory default parameters at this level	Yes, No		
 MIC Setup	Auto Gain					
	All MICs	Off	Unit Input Vol	Set the input volume for all units	-12~12dB	Adjust the fixed gain for unit input volume
		On	Maximum Gain	Set the maximum gain for all microphones	-6~+35dB	The maximum gain that the system allows for automatic adjustment
			Minimum Gain	Set the minimum gain for all microphones	-12~30dB	The minimum gain that the system allows for automatic adjustment
			MAX ADC Level	Set the maximum ADC level for all microphones	-22~-1dB	The maximum level value that the system allows to enter the ADC
	Activate MICs	Off	Unit Input Vol	Set the input volume for turned-on unit	-12~12dB	Ditto
		On	Maximum Gain	Set the maximum gain for turned-on microphones	-6~+35dB	
			Minimum Gain	Set the minimum gain for turned-on microphones	-12~30dB	
			MAX ADC Level	Set the maximum ADC level for turned-on microphones	-22~-1dB	

	Bass cut		All MICs	Set the low cut for all microphones	Off, On	
			Activate MICs	Set the low cut for the turned-on microphone	Off, On	
	EQ Setup		All MICs	Set EQs for all microphones	-12~ +12dB	Group I EQ frequency 80Hz/105Hz/135Hz/175Hz Group II EQ frequency 230Hz/300Hz/385Hz/500Hz Group III EQ frequency 650Hz/850Hz/1K1Hz/1K4Hz Group IV EQ frequency 1K8Hz/2K4Hz/3K2Hz/4K1Hz Group V EQ frequency 5K3Hz/6K9Hz/9KHz/11KHz
			Activate MICs	Set the EQs for the turned-on microphones	-12~ +12dB	Ditto
	PriorityButton			Set the chairman priority button function	All Mute All Close Invalid	All Mute: press the chairman priority button to turn off all the turned-on delegate unit microphones;All Close: press the chairman priority button to mute all the turned-on delegate unit microphones;Invalid: The chairman priority button is invalid
	Speak Time			No limit on speech duration	Off	
		Off	Spk Time	Set the speech duration	0~99分	Start the countdown when the conference unit speech is in progress, and turn off the conference unit when the countdown is 0
		On	Prompt Time	Set the ending prompt	0~59 second	When the countdown reaches the ending prompt time, the conference unit indicator is on
	ExeChairmanSet			Set a chairman as executive chairman	Chairman ID	There can only be one executive chairman
	VIP Setup			Set the delegate unit as VIP	Active, Cancele	After the activation is set, press the conference unit speech button to set the

							unit as VIP. The yellow light of the VIP unit is always on.
	MIC LED Setup		MIC LED Setup	Set the color of microphone light when the microphone is turned on	Red, Green	The light refers to the indicator lights on the microphone rod of unit and on the base	
			No.1 Apply Flash	Set the first applicant's light flashing on or off	On, Off	Working mode is valid when quantity is limited	
	MIC Setup Reset			Restore the factory default parameters at this level		Yes, No	
 Video Track	Camera Para.	Camera ID		Protocol	Camera protocol	RX-V PELCO-D PELCO-P Sony VISCA	1. Camera protocol: RX-V, PELCO-D, PELCO-P, Sony VISCA 2. Camera baud rate: 2400, 4800, 9600, 19200 3. Camera ID: 1~8(optional)
				Baudrate	Camera baud rate	2400, 4800 9600, 19200	
	Operate Option	Unit (1~max)	Camera ID (1~8)	PTZ Control	Set the direction of camera lens movement	Top, bottom, left, right	Press the left button for turning left and right button for turning right, and rotate the button to the left for up and to the right for down
				Camera cfg	Set the parameters of camera zoom, aperture, focal length variation and speed	Zoom, Aperture, Focus, Speed	1. Set the parameters of zoom, aperture and focal length variation 2. Speed represents the moving speed of camera: High speed, medium speed, low speed
				Select pot	Select the preset point location for video tracking of conference unit	1~64	Select the preset point location for unit video tracking, and each camera corresponds to 64 preset points at maximum
				Save pot	Saving of preset points	None	
		Scene (1~4)	Camera ID (1~8)	PTZ Control	Set the direction of camera lens movement	Top, bottom, left, right	Press the left button for turning left and right button for turning right, and rotate the button to

							the left for up and to the right for down
				Camera cfg	Set the parameters of camera zoom, aperture, focal length variation and speed	Zoom, Aperture, Focus, Speed	1. Set the parameters of zoom, aperture and focal length variation 2. Speed represents the moving speed of camera: high speed, medium speed and low speed
				Select pot	Select the preset point location for panorama video tracking	1~64	Select the preset point location for unit video tracking, and each camera corresponds to 64 preset points at maximum
				Save pot	Saving of preset points	None	
	Off MIC Set	Camera (1~8)		Single off	Set the action of the camera after the conference unit corresponding to the camera is turned off	Previous Unit No Move ID	1. "Previous unit" represents display of the previous unit screen 2. "No action" represents no action of camera 3. "ID" represents switching to the conference unit screen for this ID
				All Off To Sc	After all units are turned off, the camera switches to the panorama point	Scene1~4	4 preset panorama points can be selected for each camera
				Scene SW time	Set the switching time of each presetpanorama point	0~20 Min.	0 represents no switching
		Between Camera		Scene switch	Set panorama switching mode	Direct, Each	1. "In order" represents switching of the panorama point in order of camera number 1-8
				Scene Run Select	Set the panorama enable selection	All MIC Closed, Each All Shut	2. "Independent respectively" represents each camera switching to the panorama point independently

						3. “When all microphones are turned off”: Panorama will not be enabled until all microphones are turned off 4. “Camera's respective microphones are all off”: When the corresponding microphones of the camera are all turned off, the camera enables panorama
	Video Reset			Restore the factory default parameters at this level	Yes, No	
 System Test				Test whether the buttons, lighting and microphone of unit are normal	None	
 System Info				View the system version number	None	
 System Reset				Reset the system to the delivery status	Yes, No	

7.5 Video tracking setting

Press MENU knob button to enter the main MENU of system and select [ Video Track], press MENU button or right button to enter the video tracking interface, as shown in Figure 7.1.



Figure 7.1

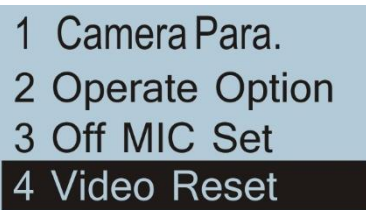


Figure 7.2

This menu includes camera parameters, operation options, off-microphone settings and video reset, which are described below.

7.5.1 Camera parameters

Camera parameters: set the protocol and baud rate of the host and camera respectively. The camera has 8 ways. The protocol and baud rate of 8-way camera can be set respectively, corresponding to the camera. Set the protocol for host and camera, as shown in Figure 7.5.

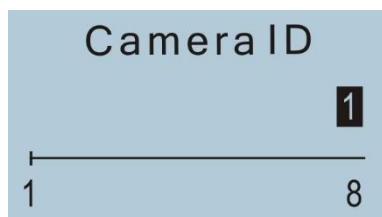
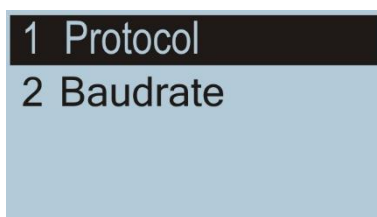
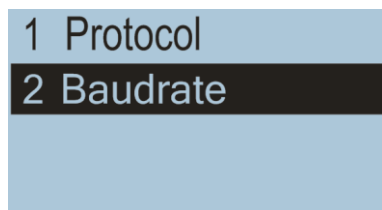
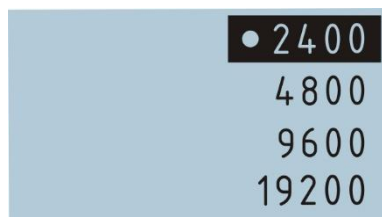

Figure 7.3

Figure 7.4

Figure 7.5

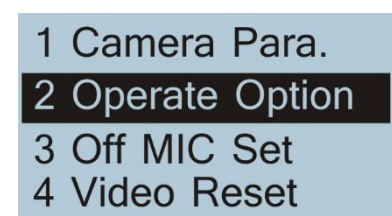
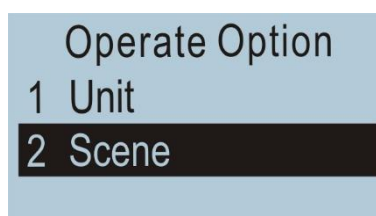
Set the baud rate for host and camera, as shown in Figure 7.7.


Figure 7.6

Figure 7.7

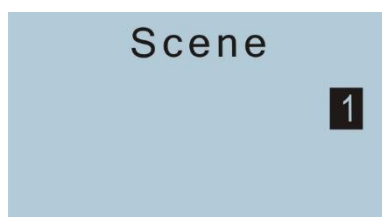
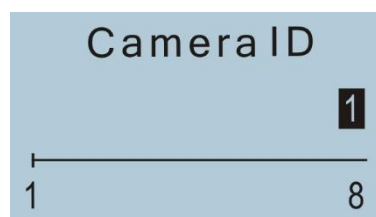
7.5.2 Operation options

Operation options: set the preset point locations of panorama and unit video tracking. Setting the panorama tracking preset point location is similar to setting the unit video tracking preset point location, so the following only describes the setting of panorama tracking preset point location.

1. Select the panorama according to the menu sequence in Figure 7.8 and 7.9.


Figure 7.8

Figure 7.9

2. Select the panorama number (1 ~ 4 panoramas are optional) and camera ID number (1 ~ 8 cameras are optional) according to the menu sequence in Figure 7.10 and 7.11.


Figure 7.10

Figure 7.11

3. Enter the PTZ control interface according to Figure 7.12, and set the camera lens moving direction. Press the left button for turning left and right button for turning right, and rotate the button to the left for up and to the right for down, as shown in Figure 7.13.

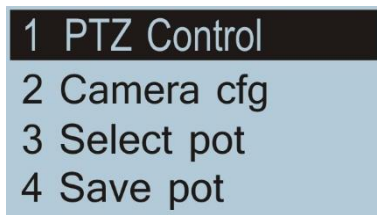


Figure 7.12

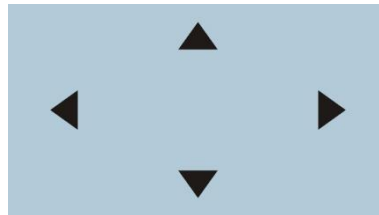


Figure 7.13

4. Enter the lens parameter interface according to Figure 7.14, and set camera zoom, aperture, focal length variation and speed parameters respectively, as shown in Figure 7.15.

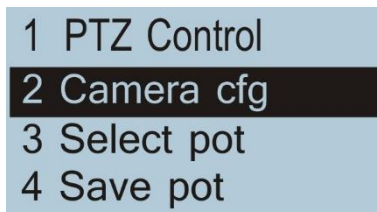


Figure 7.14

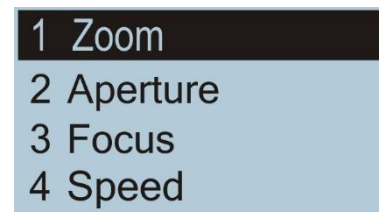


Figure 7.15

5. Enter the "Select pot" interface according to Figure 7.16, and select the preset point corresponding to the panoramic camera.

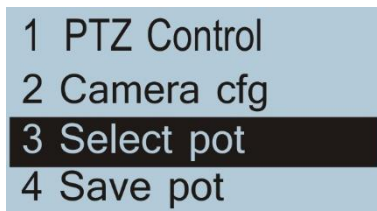


Figure 7.16

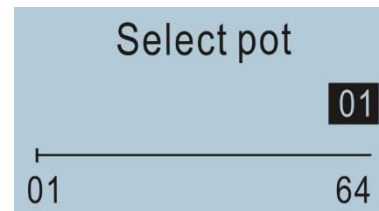


Figure 7.17

6. Save the preset points.

7. In turn, all the preset points for panorama video tracking can be set.

Attention: 4 panorama point locations can be set for one camera. After setting up the last camera, the panorama point for next camera is set. The preset point is set to be non-repeatable.

Attention: The difference between the setting unit and the preset point location for panorama video tracking is that the panorama number is selected for panorama, while the unit ID number is selected for the unit.

7.5.3 Off-microphone setting

Off-microphone setting: set the action of camera after the microphone is turned off. As shown in Figure 7.18.

I. The action of camera is set after the microphone is turned off.

1. Select the camera ID number (1 ~ 8 cameras are optional) according to the menu sequence in Figure 7.19.

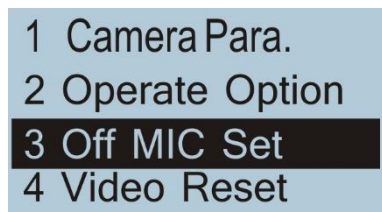


Figure 7.18

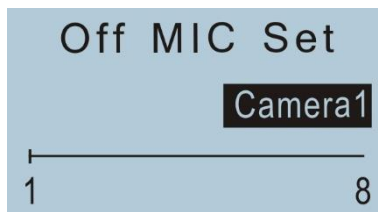


Figure 7.19

2. According to the menu in Figure 7.20, select the camera switching action after the single microphone is turned off. The following options can be chosen: "ID number", "Previous unit" and "No action ID number", which respectively mean switching to the conference unit screen, switching to the previous unit screen and no camera action.

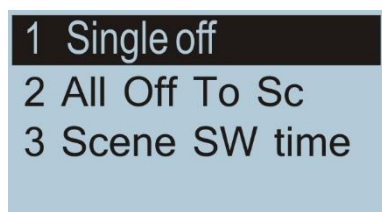


Figure 7.20



Figure 7.21

3. Set the action of camera switching to panorama after turning off all microphones according to menu in Figure 7.22. The preset points 1 ~ 4 of panorama are called by the camera.

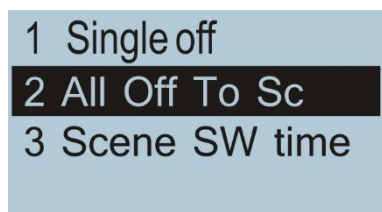


Figure 7.22

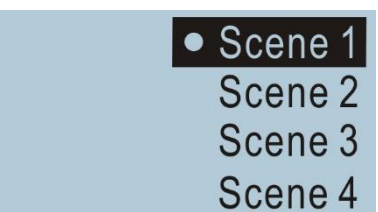


Figure 7.23

4. After all microphones are turned off, the switching time of each panorama preset point is set. The minimum switching time of panorama preset point can be set to 5 s and to 20 min. at maximum, and the time must be a multiple of 5 s. When the switching time is set to 5 s, the

panorama preset point screen is switched every 5 s, and when the switching time is set to 10 min., the panorama preset point screen is switched every 10 min., as shown in Figure 7.25.

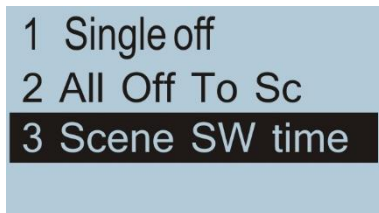


Figure 7.24

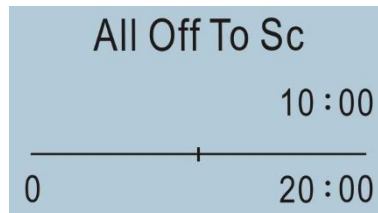


Figure 7.25

II. The action between cameras is set after the microphone is turned off.

1. Select "between ballhead cameras" according to the menu sequence in Figure 7.26 and 7.27.

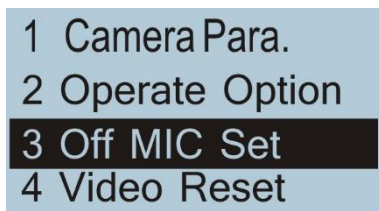


Figure 7.26

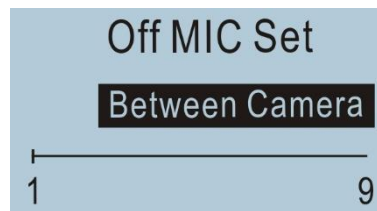


Figure 7.27

2. Select the panorama switch mode, "in order" and "independent respectively" according to menu in Figure 7.28 and 7.29.

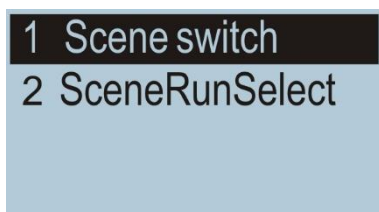


Figure 7.28

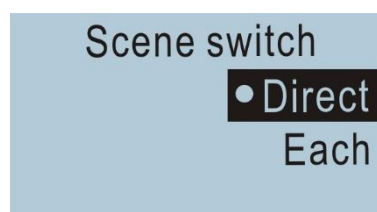


Figure 7.29

3. Select the selection conditions for panorama activation ("when all microphones are turned off" and "when each microphone of ballhead camera is turned off") according to menu in Figure 7.30 and 7.31.

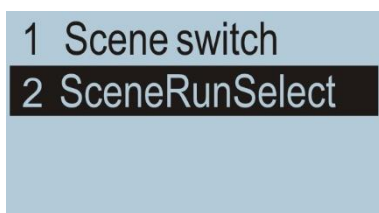


Figure 7.30



Figure 7.31

! *Attention: The meanings of "in order" and "independent respectively" for panorama switching are as follows:*

Camera 1, 2 and 3 are set with outputs, and are also set with four panoramic points respectively, which are 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c and 3d.

"In order": Panorama switching means that all cameras are switched cyclically in order, respectively 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 1a.....in order.

"Independent respectively": Panorama switching means that each camera switches cyclically according to their respective panoramic points,

The sequence is: 1a/1b/1c/1d, 2a/2b/2c/2d, 3a/3b/3c/3d, 1a/1b/1c/1d.....

PART 8 Batteries & Charger



Batteries



Charger



Adapter

8.1 Batteries (ICS-WL-Bat) & Charger (ICS-WL-CHRG) Use Requirement

The rechargeable battery must be charged before using it for the first time;

Charge current is 650mA, batteries(2400mA/H) charge time is about 4 hours.

If stop using batteries, it'll discharge automatically. When you use these batteries after one month, please recharge.

New batteries and batteries which stop use in a long time(more than one month), at the first time of charge, charge time will be short than usually time, the reason is new nickel-hydrogen batteries feature. After 2-3 times, charge time will get right.

Dirty batteries or the point or cathode and anode, will influence on charge and use. Please clear batteries and the point or cathode and anode with dry fabric.

Please take out fully discharge batteries from receiver in time or recharge receiver.

In generally, batteries could be used about 500 times. If batteries use time get shortly evident, may be that's batteries life is over.

Please keep charger clearly, it can't have any other thing.

8.2 Charger lamp

Red lamp turn on: green lamp turn off --- charging

Red lamp turn off: green lamp turn on --- no batteries

Red lamp turn on: green lamp turn on --- charge finish

8.3 Operation steps

Insert recharge batteries to Charger.

Connect power supply adapter.

Turn on charger power supply, Red lamp turn on.

After several hours, green lamp turn on, it meant charge is finished.

Turn off power supply, take out charger power plug.

PART 9 FAQ

In this part, a simple troubleshooting guide is listed to compensate for the results caused by improper use or installation. If there are more serious faults or problems, please contact the technician.

Failure	Reason	Solution
No respond when turn on system controller(Power light is dark)	Power Supply trouble	clear
	plug is not stable	clear
	AC fuse is broken (F5A250V)	replacing
system controller can't edit ID number automatically	need edit No for units	Please press unit "MIC" key, editing ID Number for every unit.
The wireless conference unit screen does not display	The battery is exhausted	Charge the battery of the unit in time or replace the battery. When the power is low, it will be displayed on the screen.
	The conference unit is OFF	Press the "MIC" key on unit long time or press the "switch" key to turn on the conference unit
There is no signal after the wireless conference unit is turned on	Is the data transceiver connected correctly?	Reconnect the data transceiver correctly and turn on the host
	Is the wireless conference host powered on?	After turning on the wireless conference host, the unit will search for the signal automatically.
	Out of signal range	Ensure that the wireless conference unit is used within the range of receiving signals
	The frequency of the unit does not match the frequency of the host	Reset the corresponding frequency and restart the system detection
The wireless conference unit cannot be turned off	The power of the wireless conference host is turned off	The conference unit will be turned off in 2 minutes automatically, if there is no signal.
Cannot input the name of the elector when initiating an election on the host	The host does not support it, you should install the corresponding software	You can not edit the name on the host, and it needs to install the corresponding software.
Remarks: The causes and solutions of some common faults are listed above, which are only for reference. If you encounter other faults, please negotiate with the dealer and request technical support.		