

Audio Conference System

Professional provider of AI audio and video solutions



Chartu Technologies Co.,Ltd.

Company Profile



Who Are We

CHARTU is a leading technology company specializing in digital intelligence information systems and providing centralized control for global audio and video solutions.



Main Business

Turing AV Smart Multifunctional Controller, CVS AV-OVER-IP system, video wall processor, matrix switcher, central control system, 5G WiFi conference system, simultaneous interpretation system, All IN ONE recorder.



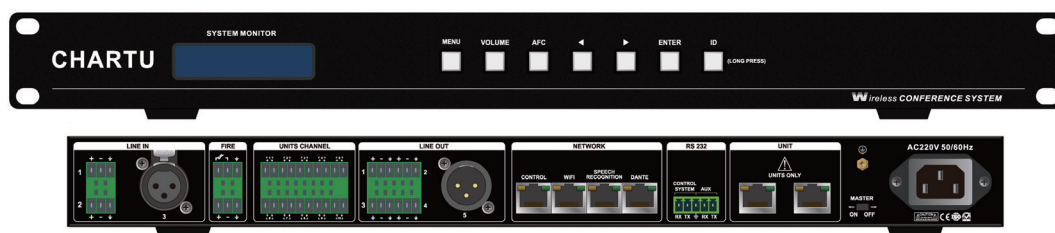
Company Strength

Our company has independent research and development capabilities with a team of 78 highly educated technical employees. 2,000 square meter factory and 37 branches and offices worldwide, serving more than 3800 customers.



Product Introduction

5G CONFERENCE SYSTEM CONTROLLER



CH-CS4000

CH-CS4000 digital conference controller is the core part of the digital conference system. It can support both wire and wireless conference units. It integrates discussion, attendance, voting, microphone management into one unit. It adopts 32bit high speed floating point and DSP processing technology.

Features

1. Support WPA/WPA2 wireless security technology to ensure conference privacy and avoid eavesdropping and malicious interference.
2. Provides 2-way network port interface compatible with a full range of units for wired conference systems, support daisy-chain connection.
3. Can open up to 10 microphones at the same time.
4. Wireless wired non-compressed audio transmission, 48K sampling rate, bandwidth 20HZ~20KZ perfect sound quality.
5. Compatible with IEC 60914, GBT15381-94.
6. CAT5E, 100M network full digital audio and control signal transmission, long distance transmission sound quality non- loss.
7. Built-in high-performance CPU, integrating discussion, sign-in, voting all in one, provide high-speed voting, information transmission, support up to 4000 conference units (240 wireless conference unit).

Product Introduction

Features

8. 32 bit high speed DSP floating-point processing, supports 2 audio acoustic feedback suppression at the same time, noise elimination.
9. Support PC software management, TCP/IP control, provide reliable security management control.
10. Supports various camera control protocols such as VISCA, PELCO-D, and SAMSUNG, and cooperates with Matrix, Central Control or Turing Systems to realize automatic tracking of camera preset positions.
11. PC software unified management and intelligent fault analysis, can analyze the type, quantity, distribution, fault, etc.
12. Connect to AP, Support simultaneous use of wired and wireless conference units.
13. With RCA, phoenix head, cannon three different audio output interface, support balanced output, non-balanced output, support conference unit partition, support 4 speaker partition output, can effectively improve microphone gain without noise, can configure any one way output interface connected to the remote video conference system.
14. Can independently adjust the line in, remote video meeting input, 4 audio output interface, meeting unit volume size, adjustable range mute, -40db to 0dB.
15. Support DANTE protocol audio transmission, providing a low-latency, high-precision and low-cost solution for point-to-point audio connections.
16. Support web recording function, which can realize the whole recording of conference audio.
17. Support cooperation with voice recognition manufacturers (such as iFLYTEK) to realize the voice recognition function and make it convenient to make meeting records.
18. Support the fire alarm function to provide escort for the safety of the meeting.

Product Introduction

Features

19. It has 10-way unit analog audio output, which can be output to the audio processor for better anti-howling processing.

20. Line input, remote video conference input, 4-way audio speaker output, volume of conference unit can be adjusted independently, and the adjustment range is mute, -40dB to 0dB.

Specification Parameter

Specification Parameter	
CH-CS4000	
Power Supply	110V/220VAC
Max.Power Consumption	150W
Frequency Response	20Hz-20KHz
SNR	> 80dB
Total Harmonic Distortion	< 0.05%
Serial Port	RS-232
Ethernet	RJ45,TCP/IP
Colour	Black
Weight	3.5 KG
Packing Size	483*260*44 (mm)

Product Introduction

5G WIFI CONFERENCE CHAIRMAN/DELEGATE UNIT



CH-WAP3100A

Chairman Unit



CH-WAP3200A

Delegate Unit

CH-WAP3100A/CH-WAP3200A is a desktop WIFI conference unit with a touch LCD display, which integrates discussion speeches, voting sign-in, and tea service etc.

Features

1. 5G WIFI connection, stable, anti-wiretap and anti-interfere.
2. Non compressed audio transmission, 48K sampling rate, 20Hz~20KHz bandwidth.
3. Support FIFO,VOICE, APPLY and NORMAL conference mode.
4. Using low-latency technology, the microphone sound to the power amplifier output is at least 10ms.
5. Support 10 hours of continuous speaking.
- 6.The conference controller and preset camera can cooperate to achieve automatic tracking .
7. It adopts 4.3-inch wide viewing angle IPS capacitive screen with a resolution of 800*480, providing clear display of check-in results, voting results, volume, microphone status, tea service and other information.

Product Introduction

Features

8. Three voting methods are supported:

- a) Voting method: yes/abstain/no;
- b) Election method/investigation method: 1/2/3/4/5;
- c) Response mode/Comment mode: --, -, 0, +, ++.

Specification Parameter

Specification Parameter	
CH-WAP3100A/CH-WAP3200A	
Touch Screen	4.3 inches
Earphone Jacket	1* 3.5mm (0.14 inch) stereo earphone jacket
Frequency Response	20Hz~20KHz
Earphone Load Impedance	>320hm <1K Ohm
Loudspeaker Output Power	2×15mW/32 Ohm
Wireless Standard	IEEE Draft 2.0 802.11n
Wireless Frequency Range	4.900-5.850GHz
Radiation Power	15dBm
Wireless Gain	2dBi
Batter Output Voltage	7.2V
Battery Capacity	5000mAH
Continuous Speaking Time	10 Hours
Max. Standby Time	12 Hours
Color	Black
Max. Power Consumption	3W
Weight	0.7 kg
Dimension (mm)	200*94*250 (mm)

Product Introduction

CONFERENCE WIRELESS ACCESS POINT



CH-WAP2

CH-WAP2 wireless access point is a router for wireless network. The wireless access point is used for communication connection between the wireless conference units and controller, providing convenient, flexible and reliable conference environment based on wireless network.

Features

1. support 2.4 and 5Ghz frequency bands to work at the same time.
2. Configure AR9558 CPU (720MHz) to ensure that the device perfectly meets enterprise-level applications, with 2.4 Ghz up to 450 Mbps and 5 Ghz up to 1300 Mbps.
3. One RJ45 port used to connect CH-2000 or network switch.
4. Suggest to use high quality crossed CAT5 cable.
5. Wireless signal coverage can be up to 25m in radius.

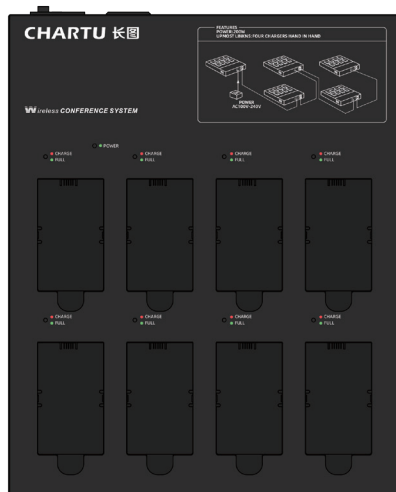
Product Introduction

Specification Parameter

Specification Parameter	
CH-WAP2	
Network Standard	IEEE 802.11 a/b/g/n/ac
Network Interface	2 x 10/100/1000 Base-T, RJ-45
Wireless Frequency Range	2.4GHz ,5GHz
Data Transmission Speed	Max 1300 Mbps
Radiation Power	2.4 GHz: 22 dBm @ MCS23 5 GHz: 22 dBm @ MCS23
Antenna	6 x built-in omnidirectional antenna
Connected Units Quantity	Within the AP's effective range, one AP can be connected with at most 50 units
Signal Coverage	The coverage is 50 meters radius in spacious area with little interference; common coverage area is 30 radius circle.
Power Supply	100-240 VAC to 48 VDC POE (standard)
Working Temperature	-10°C ~ +55°C
Max. Power Consumption	19W
Dimensions	192.5L×192.5W×36.5H(mm)

Product Introduction

CHARGER / BATTERY



CH-WFDS08



CH-BAT5000

WiFi conference system unit battery charging box can be used for charging function. It can charge 8 batteries at the same time, and the power input has the function of serial connection. Quick charging, up to 3 hours.

Features

1. It can charge 8 batteries at the same time.
2. The charging box supports cascading.

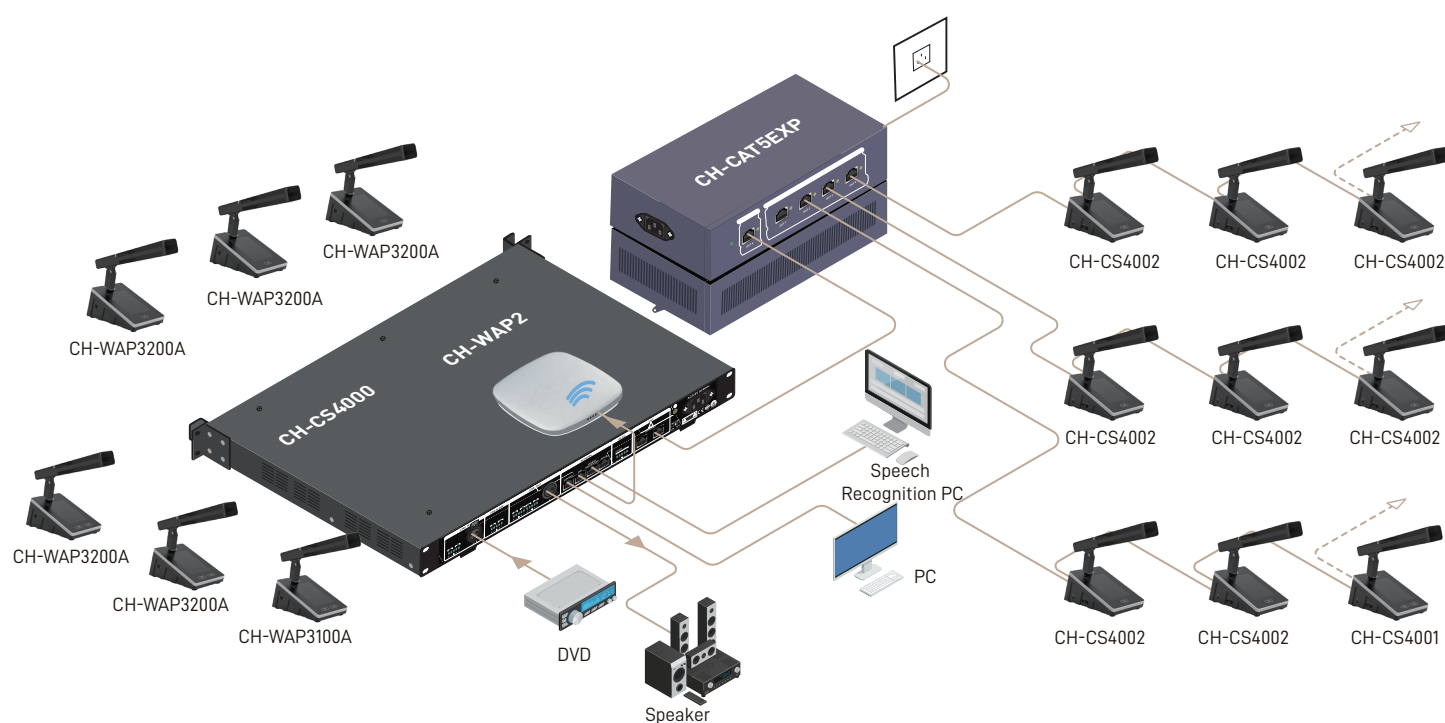
Product Introduction

Specification Parameter

Specification Parameter	
CH-WFDS08	
Power consumption	200 W
Power consumption (standby)	3 W
Weight	4 KG

Specification Parameter	
CH-BAT5000	
Battery Capacity	5000mAh
Voltage	7.4V
Weight	100 g

Connection Diagram



Product Introduction

CAT5 WIRED CONFERENCE CHAIRMAN/DELEGATE UNIT



CH-CS4001

Chairman Unit



CH-CS4002

Delegate Unit

CH-CS4001 /CH-CS4002 is a CAT5 wired desktop speech and voting conference unit with touch screen.

Features

1. Non compressed audio transmission, 48K sampling rate, 20Hz~20KHz bandwidth.
2. Support FIFO, APPLY ,VOICE and NORMAL conference mode.
3. Chairman unit can close delegate speaking, initiate and end attendance/voting.
4. Support ordinary cat5e network cable daisy-chain connect.
5. The conference controller and preset camera can cooperate to achieve automatic tracking.
6. It adopts 4.3-inch wide viewing angle IPS capacitive screen with a resolution of 800*480, providing clear display of check-in results, voting results, volume, microphone status, tea service and other information.
7. Support functions such as tea service, and provide services for participants more conveniently.

Product Introduction

Features

8. Support display brightness adjustment.
9. Three voting methods are supported:
 - a) Voting method: yes/abstain/no;
 - b) Election method/investigation method: 1/2/3/4/5;
 - c) Response mode/Comment mode: --, -, 0, +, ++.

Specification Parameter

Specification Parameter	
CH-CS4001 /CH-CS4002	
Power Supply	From Controller /CAT5 Extender
Frequency Response	20Hz~20KHz
S/N Ratio	>80dB
Channel crosstalk	<80dB
Total Harmonic Distortion	<0.05%
Max. Power Consumption	3W
Control Display	4.3 inches touch screen
Connection Interface	2*RJ45
Color	Black
Weight	0.6 kg
Dimension	200*94*250 (mm)

Product Introduction

CAT5 EXTENDER



CH-CAT5EXP

The full digital conference system has the source to extend the connection box is a conference unit power supply and enhancement signal connection box.

Features

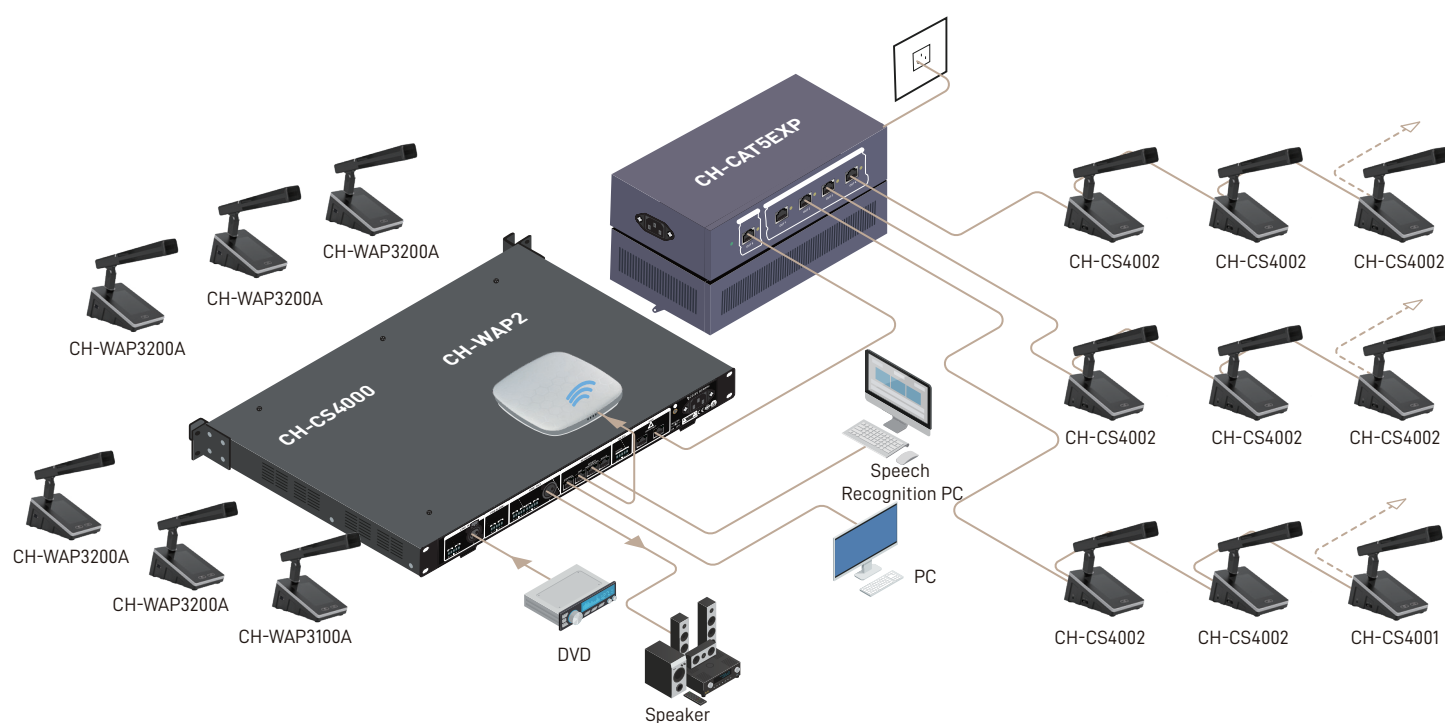
1. With communication status indicator light, provide failure warning.
2. Can be connected to a 4-way unit, providing a maximum of 350W power.
3. Used to connect conference system controller and chairman/delegate unit.
4. Support 4 chairman/delegate unit in one extender.
5. Standard RJ45 interface, available with normal network connection.
6. Powering and enhancing the signal to the conference unit.

Product Introduction

Specification Parameter

Specification Parameter	
CH-CAT5EXP	
Power	110/220V AC
Maximum output power	350 W
Input interface	1*RJ45
Output Interface	2*RJ45
Size(mm)	280L *180W*53H (mm)
Colour	Black

Connection Diagram



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