



FS-FHSS Wireless Congress System

◆ FS-FHSS Wireless Congress System DCS-3024

◆ Congress Terminal DCS-3024C-W/DCS-3024D-W

◆ Basic Functions

- ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions; support intelligent hopping of carrier frequency, and can automatically select a clean frequency point when speaking every time
- ◆ Adopt fully-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
- ◆ Each terminal has unique unit ID; support assign unit ID automatically or manually to ensure that multiple terminals in the same environment do not interfere with each other
- ◆ Adopt internal CRC check, audio and data are transmitted with 32-bit encrypted words to ensure the privacy of communication and avoid eavesdropping and malicious interference
- ◆ It can adjust the sensitivity of the conference terminal (0~3 levels), and adjust the best effect according to the on-site situation
- ◆ Microphone modes: AUTO , FIFO and VOX
- ◆ VOX function: in VOX mode, the microphone will be activated automatically when the user speaks; VOX sensitivity can be adjusted (L0~L2),and can be set auto-off time
- ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4 (including 1 chairman terminal + 3 delegate terminals). The server supports two WAP cascading, which can achieve a maximum number of speakers of 8, and supports multi-chairman and vice-chairman settings
- ◆ The conference terminals support one-key shutdown, one-key sleep, and one-key wake-up functions, effectively reducing conference workload
- ◆ Optional HD video camera tracking matrix, switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ Microphone with on status indicator light ring, pluggable dual flexible gooseneck microphone, standard length 410mm, various lengths available
- ◆ use ϕ 14mm large diaphragm PDM digital microphone core, with thick and full sound, high sound reduction and high sensitivity
- ◆ It adopts 48K sampling, uncompressed pi / 4 DQPSK + GFSK digital modulation and mediation technology, all digital transmission and strong anti-interference ability
- ◆ With multiplexed terminal speech button, short press to turn on/off the microphone, long press to turn on/off the terminal, with indicator light ring



Wireless discussion delegate terminal
DCS-3024D-W

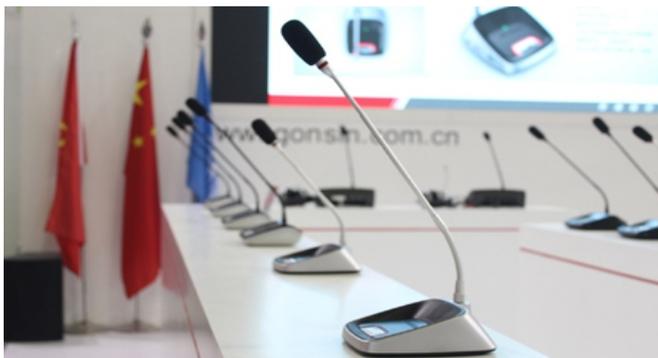
- ◆ With three color LED indicator, it indicates the communication status of microphone and battery power status
- ◆ Removable rechargeable lithium battery, continuous on time of 10 hours, support micro USB charging and charging box centralized charging
- ◆ With 3.5mm earphone socket and recording interface, built-in high fidelity speaker (depending on version), volume adjustable

The chairman terminal has the exclusive functions:

- ◆ The chairman terminal can be free to turn on, and is not limited by the number of terminals turned on
- ◆ The chairman terminal has the priority button to turn off the speaking delegate terminal

◆ Technical Indicators

Color	Silvery
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
Working frequency	ISM International Licensed Frequency Band
Audio frequency response	20Hz~20kHz
Sensitivity	-24 ±3 dBFs/Pa
Equivalent noise level	-87.6 dBFs
Maximum sound pressure level	120dB (THD<3%)
Total harmonic distortion	<0.05%
Signal to noise ratio	>96dBA
Microphone type	φ14mm cardioid directivity PDM digital microphone core
Directional	0°/180°
Pole length	410mm (standard, with 310mm / 510mm length options)
Earphone Output interface	3.5 mm jack
Recording output interface	3.5 mm jack
Headset load	>16Ω
Headphone volume	10mW
Built in speaker (version dependent)	2W/8Ω
Rated voltage	3.7V
Maximum power consumption	<1.2W
Battery capacity	2600mAH
Consecutive battery use time	10 hours (depend on the different versions of the microphone)
Dimension (L×W×H)	141×161×53mm
Weight	0.58kg (overall unit)
working temperature	0~45°C
Storage temperature	-20~50°C



Wireless discussion chairman terminal
DCS-3024C-W

◆ Congress Server **GONSIN3000S**



◆ Basic Functions

- ◆ Based on LINUX operating system platform, built-in DSP digital audio processor, with howling suppression function
 - ◆ High-contrast OLED screen to display the current status of the system and provide a multi-language setting menu such as Chinese/English
 - ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions; support intelligent hopping of carrier frequency, and can automatically select a clean frequency point when speaking every time
 - ◆ Adopt fully-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
 - ◆ Adopt low-distortion, low-latency transmission technology, support 48KHz audio sampling frequency
 - ◆ It can adjust the sensitivity of the conference terminal (0~3 levels), and adjust the best effect according to the on-site situation
 - ◆ It supports the setting of Host ID and automatically or manually assigning ID to the conference terminals
 - ◆ Microphone modes: AUTO , FIFO and VOX
 - ◆ VOX function: in VOX mode, the microphone will be activated automatically when the user speaks; VOX sensitivity can be adjusted (L0~L2),and can be set auto-off time
 - ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4 (including 1 chairman terminal + 3 delegate terminals). The server supports two WAP cascading, which can achieve a maximum number of speakers of 8, and supports multi-chairman and vice-chairman settings
 - ◆ The server supports one-key shutdown, one-key sleep, and one-key wake-up functions, effectively reducing conference workload
 - ◆ The server provides a USB interface, which can realize the recording function
 - ◆ Optional HD video camera tracking matrix, switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
 - ◆ With the intelligent speech recognition system, the voice transcription function can be realized
- TCP / IP connection control mode is adopted between server and control computer, supporting web management function:
- ◆ It can monitor the status of the server in real time, including the number of speakers, speaking mode, connection status, internal core voltage, fault warning and other information of the server
 - ◆ Support web settings for speaker number, speaking mode, microphone sensitivity, volume control and other system settings
 - ◆ Support viewing version information, support network update and local update
 - ◆ It can monitor the status of the microphone in real time, including online status, signal strength, frequency status, remaining battery power and other information
 - ◆ Support microphone wake-up, sleep, shutdown and other operations through the Web
 - ◆ Support the system operation of unit ID number writing and HD camera tracking setting through Web
 - ◆ Support media playing management through Web, built-in MP3 recording and MP3 / FLAC / WAV / AAC playing function, can play recording files and stored audio files

◆ Technical Indicators

Max Capacity	500
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
working frequency	ISM International Licensed Frequency Band
Audio frequency response	20Hz~20kHz

Total harmonic distortion	<0.05%
Signal-to-noise ratio	>96dBA
Channel isolation	>85dB
Dynamic range	>94dB
Power supply	AC100~240V, 50/60Hz
Communication interface	1 serial RS232 interface, 1 group of Phoenix RS485 interface
Mp3 recording and playing interface	1 USB interface
network interface	4 RJ45 interfaces, support standard POE power supply
Antenna interface	1 BNC interface, support broadcast monitoring
Audio interface	1 balanced audio output (XLR), 1 unbalanced audio output (RCA), 1 line unbalanced audio (RCA) input
Max audio output	LINE OUT: +20 dBu unbalanced, BLANCE OUT: +20 dBu balanced
Output impedance	600Ω
PC communication mode	TCP/IP
Camera control mode	RS-485 /RS-232
Max power consumption	100W
Display	OLED, size: 35mm×18mm
Limitation on the number of speakers	1/2/3+1 chairman terminal, two WAP cascading maximum number of speakers is 8
Video tracking protocol	PELCO-P/PELCO-D/VISCA
Installation	Desktop or 19' cabinet installation
Size	340×420×45mm (1U)
Weight	4.5kg
Working temperature	0~45°C
Storage temperature	-20~50°C

◆ Charging Case CHG-16

◆ Main Features

- ◆ Battery capacity and charging current management in real time.
- ◆ Charging LED indicator;
- ◆ Reverse polarity protection;
- ◆ Short-circuit protection;

◆ Basic Functions

- ◆ Smart management ensures a safe and reliable battery charging; The real-time management for battery capacity and charging current prolongs battery life;
- ◆ Independent modularized charging circuit provides a battery detection; this circuit does not work if there is no battery inserted;
- ◆ Charging up to 16 batteries at the same time; charging time: 3.5 hours;
- ◆ Red/green charging LED indicator.

◆ Technical Indicators

Power supply	AC100~240V, 50~60Hz
Max. charging voltage	4.2V
Power	106W
Charging time	3.5hours
Weight	6.7kg (net weight), 7.4kg (full load)
Dimensions	490×320×67.5mm
Working temperature	0~45°C
Storage temperature	-20~50°C



Wireless Access Point WAP-30C



Basic Functions

- ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions, support for intelligent hopping of carrier frequency, and automatically select a clean frequency point when speaking every time
- ◆ Adopt full-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
- ◆ Adopt internal CRC check, audio and data are transmitted with 32-bit encrypted words to ensure the privacy of communication and avoid eavesdropping and malicious interference
- ◆ Built-in high-performance communication antenna, stable wireless signal coverage: 30 meters
- ◆ Support two WAP cascading, which can achieve a maximum number of speakers of 8, or expand the coverage area of wireless signals
- ◆ Network port connection, support standard POE and DC power supply
- ◆ With intuitive working status indicator
- ◆ Support wall-mounted / bracket / ceiling / desktop placement of a variety of installation methods, can adapt to the installation environment of various types of venues

Technical Indicators

Color	White
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
Working frequency	ISM International Licensed Frequency Band
Network interface	1 RJ45 interface, support standard POE power supply
Power interface	1 DC interface, support 24V DC power supply
Wireless signal coverage	30 meters (stable communication distance)
size	260×260×68mm
Weight	1.2kg
Working temperature	0~45°C
Storage temperature	-20~50°C

◆ Transport Case DCS-16



DCS-16 utilizes all-in-one design, is the multi-function package equipment which is applied in the storage and transport of the DCS-3024 system. It is designed as a flight case with universal wheels. The material of the case is solid, shockproof and crash-proof. It is convenient for users to store, remove and transport the products so that it is suited to the temporary conference and rental market.

◆ One transport case can contain

- ◆ One congress server
- ◆ 16 congress terminals
- ◆ 16 microphone stems
- ◆ 2 wireless AP
- ◆ One charging case

◆ Technical Indicators

Universal wheel	4 wheels
Dimensions(L×W×H)	750×500×800mm(including universal wheels)
Empty weight	29kg

◆ Tripod Stand **GX-315**



◆ Technical Indicators

Specifications	Floor installation
Height	60~150cm
Angle	Horizontal
Remarks: optional accessories, suitable for floor installation of IR radiator and wireless voting control unit	

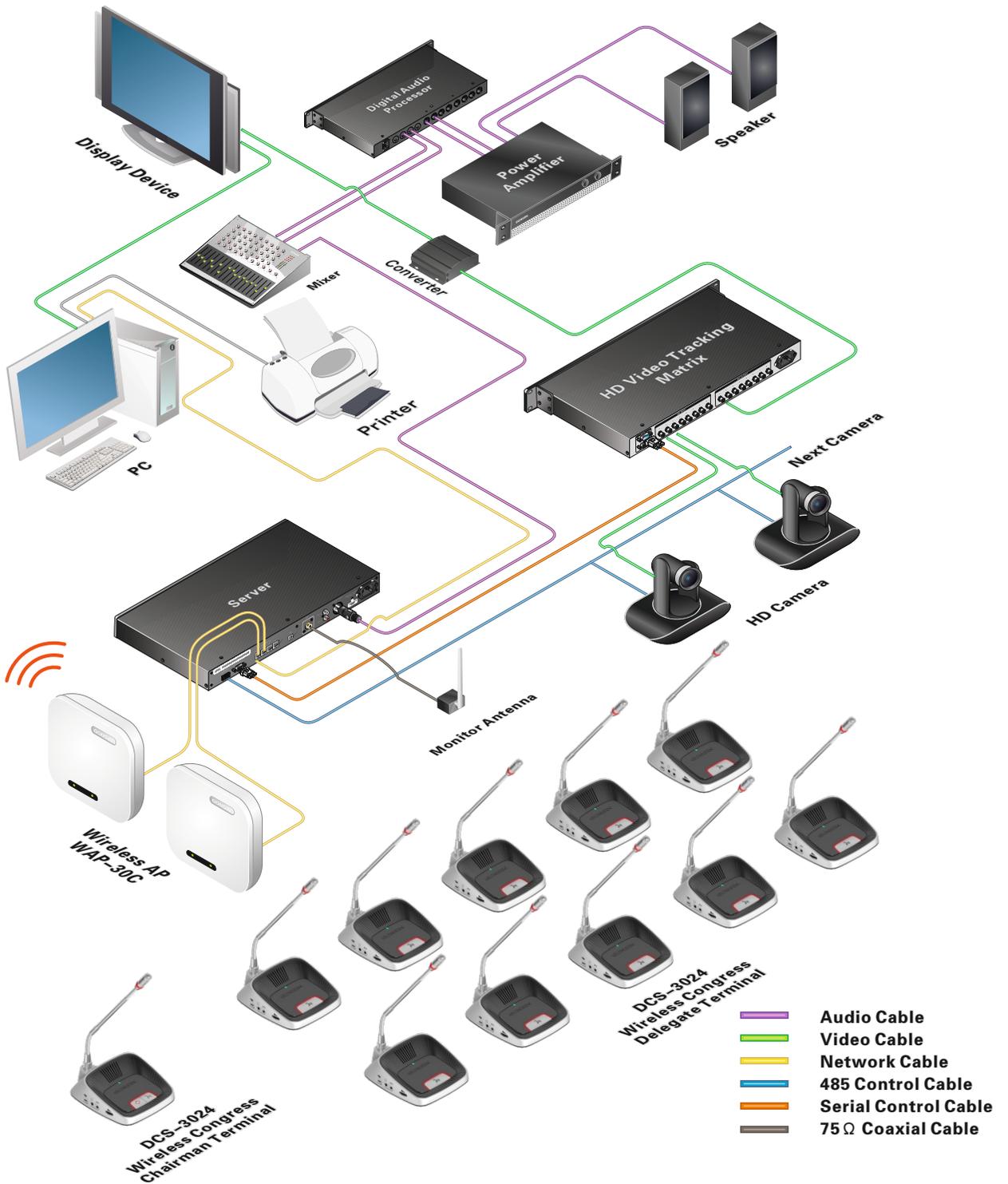
◆ Wall-mounted Stand **N3N1-S-21**

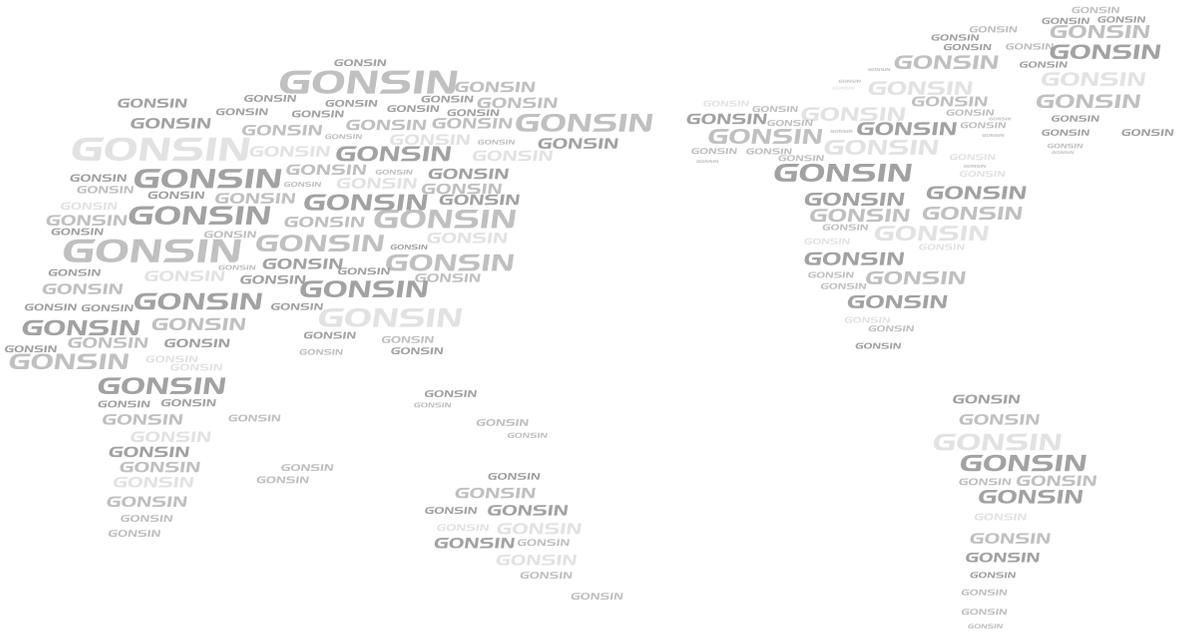


◆ Technical Indicators

Specifications	wall mounted
Angle	Horizontal 15°, Vertical 15°
Weight	Below 13.6kg
Remarks: Suitable for WAP-30C/WAP-30I wall-mounted	

System diagram





GONSIN CONFERENCE EQUIPMENT CO.,LTD.
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English WeChat



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