



# FS-FHSS Wireless Congress System

# 30000S FS-FHSS Wireless Congress System

## Ø14mm large diaphragm PDM digital microphone

- ◆ Timbre round and full
- ◆ High sound reproduction and high sensitivity



## Support synchronous switching of terminals and servers

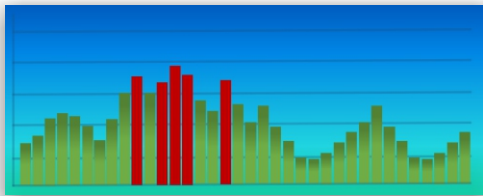
- ◆ Automatically turn on the conference terminal when the server is started
- ◆ Automatically turn off the conference terminal when the server is shut down
- ◆ Effectively reduce conference workload

## Support IoT Web Management Smarter interoperability

- ◆ Communication and control with the server through the tablet PC
- ◆ View server and terminal status information through Web browser, and support device function setting and operation



## Automatic frequency detect and selection technology Effectively avoid co-channel interference



The invention patent number: 201510679078.5

- ◆ FS-FHSS frequency selecting-and-hopping technology
- ◆ Full digital wireless communication, less consumption of wireless resources
- ◆ Multiple systems used simultaneously without interfering with each other

## Easily set up for large conferences

- ◆ Support multi-WAP cascade to achieve a maximum number of speakers of 8
- ◆ Support the expansion of wireless signal coverage area in large-scale conferences



## Support extension of voice transcription function

- ◆ Cooperate with ASR system to realize voice transcription
- ◆ Efficiently achieve meeting minutes

# ◆ 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 the system is working
- ◆ 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
- ◆ Discussion function: support LIMIT, FIFO, VOX, Operator and Sequence
- ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4. 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 terminal supports functions such as one-key shutdown, one-key sleep, one-key wake-up, and one-key tuning. Support synchronous switching of terminals and servers, effectively reducing the workload of conferences
- ◆ Cooperate with video matrix or switcher, high-definition 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  $\phi$  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
- ◆ short press to turn on/off the microphone, with an indicator ring; 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



Wireless discussion delegate terminal  
DCS-3024D-W

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
- ◆ The number of chairman and vice-chair terminals in the system is not limited

## ◆ 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, support menu lock function
- ◆ 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 the system is working
- ◆ The system adopts advanced frequency hopping technology to suppress co-channel interference, and supports automatic mode and manual mode. When there is co-channel interference in automatic mode, the system automatically assigns and switches to a clean working frequency; in manual mode, when co-channel interference occurs, the conference terminal needs to turn on the microphone again, and the system will re-assign a clean working frequency
- ◆ 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: LIMIT, FIFO, VOX, Operator and Sequence
- ◆ 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 (6~180 seconds)
- ◆ FIFO function: When the number of open microphones is greater than the system limit, press the speak button to turn on and automatically turn off the earliest open microphone
- ◆ LIMIT function: Only the number of microphones limited by the system can be activated. When the number of open microphones is greater than the system limit, press the speaking button, the microphone cannot be turned on, you need to turn off the microphones that have been turned on, and then the microphone can be turned on by pressing the button.

- ◆ Operator function: It needs to be operated with a web browser. The conference terminal sends a speaking request through the speaking key, and can speak only after the webpage is approved. The speaking time and the number of speakers are controlled by the web page
- ◆ Sequence function: It needs to be operated with a web browser. When the number of open microphones is greater than the set number of speakers, press the speaking button to enter the queued state, and the queued microphones will be automatically turned on after the microphones in the open state are turned off or the speaking time ends. The speaking time and the number of speakers are controlled by the web page
- ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4. 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 terminal supports functions such as one-key shutdown, one-key sleep, one-key wake-up, and one-key tuning. Support synchronous switching of terminals and servers, effectively reducing the workload of conferences
- ◆ One-key shutdown: The server initiates a shutdown command with one key, and all conference terminals enter the shutdown state after receiving the command
- ◆ One-key sleep: The server initiates a sleep command with one key, and all conference terminals enter the sleep state after receiving the command
- ◆ One-key wake-up: The server initiates a wake-up command with one key, and all conference terminals enter the normal working state after receiving the command
- ◆ One-key tuning: The server initiates a tuning command with one key, and all conference terminals automatically connect to the wireless conference access point with the best signal after receiving the command
- ◆ The server supports fixed frequency use of wireless microphones. Handheld microphones or other wireless microphones can use infrared frequency pairing, occupying a fixed communication frequency point to achieve integrated use, and the system can synchronize the number of speakers to update information
- ◆ The server provides a USB interface, which can realize the recording function
- ◆ Cooperate with video matrix or switcher, high-definition camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ With the intelligent speech recognition system, the voice transcription function can be realized
- ◆ The server can be controlled by the tablet terminal, the status information of the server and terminal can be viewed through the web browser, and the device function setting and operation can be supported

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 intelligent hopping of carrier frequency, and can automatically select a clean frequency point when the system is working
- ◆ 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



Suitable for temporary event venues and rental venues. Flight case design, with universal wheels, convenient for users to store and transport equipment. The case is made of solid material, shockproof and drop-proof. Designed according to the needs of regular conferences, a set of DCS-3024 series can be placed in a charging case.

### ◆ One transport case can contain

- ◆ 1 conference server GONSIN30000S
- ◆ 16 sets of wireless basic discussion terminals DCS-3024C-W/DCS-3024D-W
- ◆ 2 wireless conference access points WAP-30C
- ◆ 1 charging case CHG-16

### ◆ Technical Indicators

Color	Black Case, Silver Frame
Universal wheels	4 wheels
Handle	4
Dimension (L×W×H)	750×500×800 mm (including wheels)
Empty weight	29kg

## ◆ Tripod Stand **GX-315**



### ◆ Technical Indicators

Specifications	Floor installation
Height	60~150cm
Angle	Horizontal
Remarks: Suitable for floor installation of WAP-30C and WAP-30I	

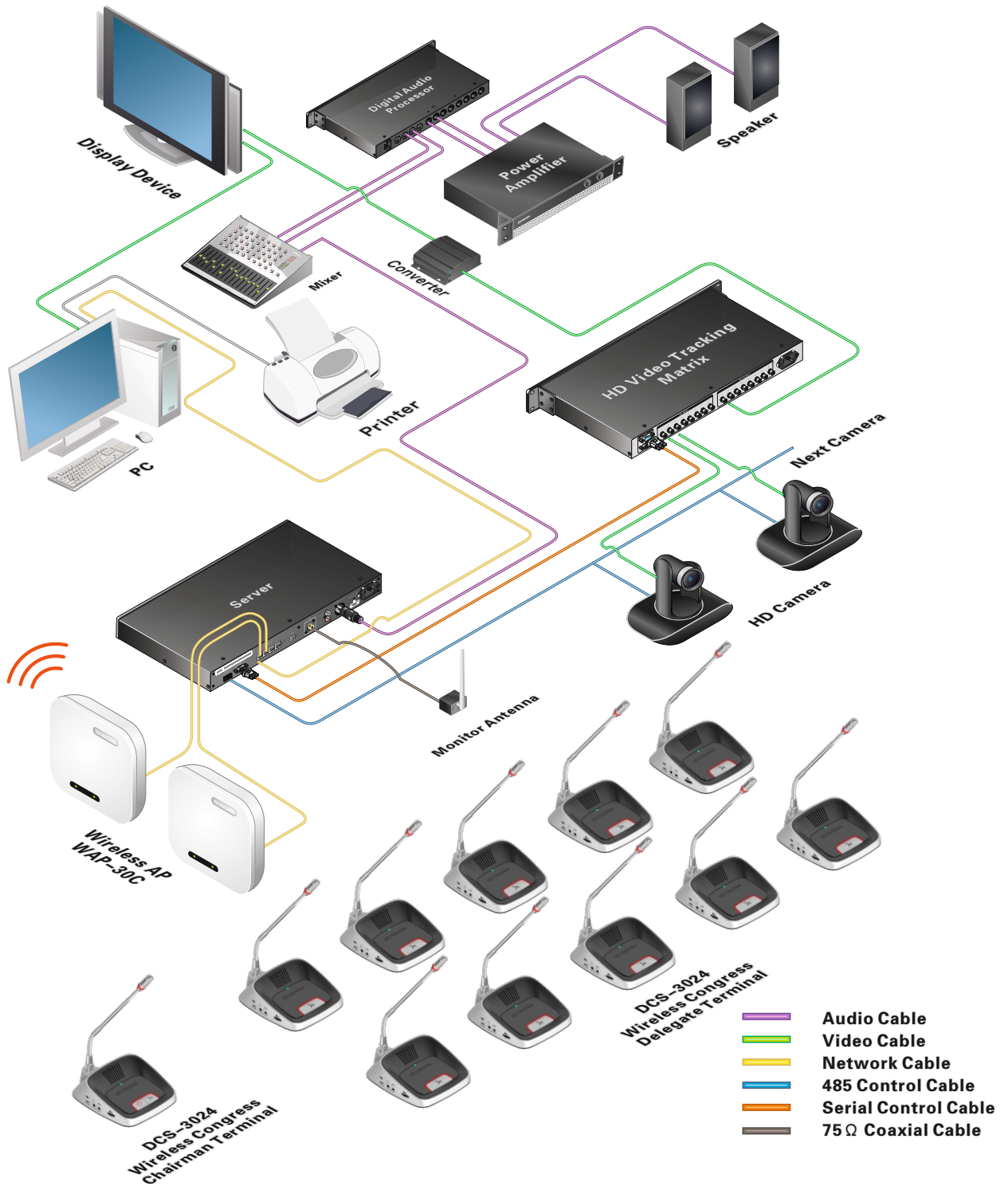
## ◆ Wall-mounted Stand **N3N1-S-21**

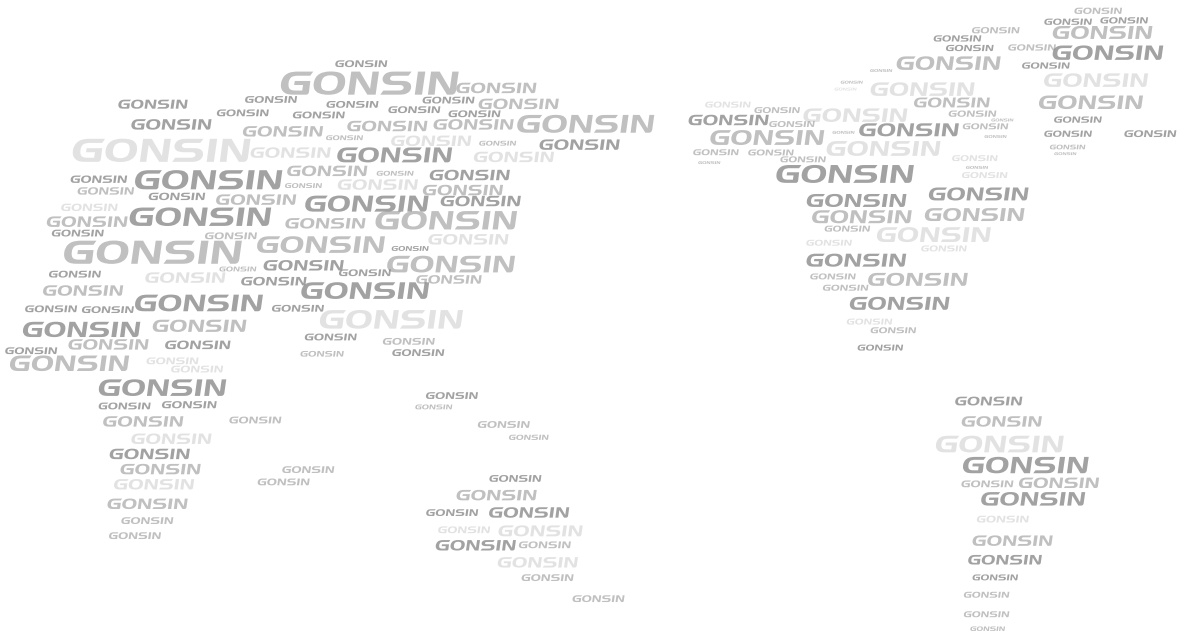


### ◆ Technical Indicators

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.  
[www.gonsin.com](http://www.gonsin.com)



English WeChat



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