

# Dual Chain Backups Conference System

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# 20000S Series Fully Digital Congress System

## Three mechanisms for backups, escorting important conferences

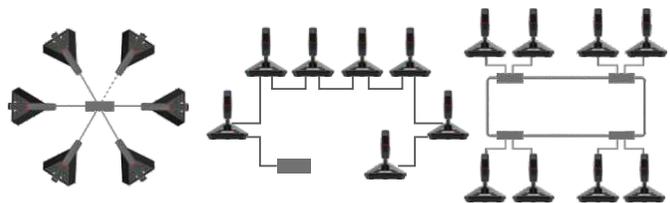


- Conference terminal obtains dual chain backups, including separated microphone digital signal output and analog signal output; when the main chain fails, the standby chain is available.
- Daisy-chain connection: apart from the main communication line, the end devices are in daisy-chain connection; when the main communication line malfunctions, the daisy-chain connection will be automatically activated.
- Hot stand-by function for the server: two servers with one working and the other standing by; when the main server doesn't work, it will automatically switch to the stand-by server, securing the continuous work.
- Only the combination of DCS-2043 and rectangular columnar short microphone series is with conference terminal dual chain backups function

## Connected by network cable, stable and convenient



The system adopts all digital communication technology and network cable connection, and supports star connection, hand-in-hand connection and mixed connection, making it convenient to wire. Its resistance of inference secures stable communication.



## Distributed management, supporting audio partition

- It adopts distributed and server cluster network architecture, decentralization design, and superior capacity expansibility, avoiding the block caused by large scale of conference data and improving the processing efficiency of the server.
- Utilizing the panel point layout of the conference terminal and the function of audio partition, splitting and merging of different conferences can be reached, flexibly adjusting the composition of the conference system.

# Dual Chain Backups Conference System

## ◆ Basic Discussion Terminal

DCS-2043C/DCS-2043D



### ◆ Basic Functions

- ◆ In compliance with IEC60914 international standard, utilize digital audio processing and transmission technology.
- ◆ Stable and fixed rectangular columnar short microphone stem connected with solid metal base.
- ◆ Conference terminal dual-link backup: With independent microphone digital signal output and analog signal output, when the main link fails, it can be switched to the backup link to ensure the system's normal operation.
- ◆ With full digital audio technology, built-in high-speed CPU and high-performance DSP digital audio processor.
- ◆ Congress terminal, power HUB and Congress server are all connected by cable. Flexible cabling reduces project workload, makes large-scale construction easier.
- ◆ It supports daisy-chain connection, star connection and mixed connection. The system is highly stable and reliable. The break down of one extension won't influence the other extensions, and the malfunction of one attachment among the extensions won't influence the system work.
- ◆ The terminal is bottom mounted, which supports hidden or open installation, to make the desktop clearer and tidier.
- ◆ Automatic restoration function: supports hot plug.
- ◆ Supports 48KHz audio sample freq, acoustic frequency response can be up to 20Hz~20KHz.
- ◆ AF sensitivity of each terminal (7 levels) can be adjusted separately or uniformly
- ◆ Built-in high-performance DSP digital audio processor, which helps remove the useless low-frequency and avoids low-frequency acoustical shock, improving the sharpness of sound.
- ◆ Power Status Indicator for terminal
- ◆ The sever comes with built-in OLED panel and navigation button to display speaking mode, system status, terminal setting and management. Language supports Chinese/ English. With rotation knob, the server can manage terminals.
- ◆ Physical Mic button utilizes touch design, with concise appearance, convenient operation, accurate response and long service life.

- ◆ With headphone jack (Ø 3.5 mm) and adjustable volume(9 levels).
- ◆ Built-in MIC (Ø 3.5 mm) to connect with external MIC, which meets the requirements of different usage scenarios
- ◆ Built-in left and right loudspeakers (2W) and adjustable volume(9 levels). Reasonable tune trope design, output clear and loud sound. Adjusting volume through screen touch is available.
- ◆ Speaker mode: VOX, Auto, FIFO, Operator.
- ◆ VOX function: in VOX mode, the unit will be activated when user speaks; VOX sensitivity can be adjust by the server ( high, middle, low); microphone time-out is adjustable ( 20-250 seconds).
- ◆ 1-4 delegate unit can be used at the same time
- ◆ Attendance registration function: key to register, plug-in card to register(according number),plug-in card to register(non-according number),supplementary register or revocatory register.
- ◆ Optional HD video camera tracking matrix ,switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ 8\*1+3 video matrix is built in the server, and standard definition video conference camera is selected, which can realize automatic camera tracking function of standard definition and support preset overall view
- ◆ Appoint any terminal as the chairman or delegate terminal

**The chairman terminal has exclusive functions below:**

- ◆ Chairman terminal can be activated at any time
- ◆ Chairman priority button to cut off all active delegate terminals

## ◆ Discussion and Interpretation Terminal **DCS-2043DI**



### ◆ Basic Functions

**Based on functions of DCS-2043D, DCS-2043D unit has functions as below:**

- ◆ Language interpretation: 32(1+31) channels.
- ◆ Built-in language channel selector (with headphone plugged in)
- ◆ Acoustic frequency response can be up to 20Hz~20KHz.

# Discussion and Voting Terminal

## DCS-2043DV



## Basic Functions

Based on functions of DCS-2043D, DCS-2043DV unit has functions as below:

- ◆ Voting: delegate can vote for Yes, No, or Abstain . Vote counting and result display are enabled automatically by PC
  - Single-choice and multiple-choice voting
  - First key-press and final key-press voting
- ◆ Election: elect one or more out of N candidates, with 'competitive election', 'equal number election' and 'quick election'
- ◆ Evaluation: four buttons to evaluate. It comes with four choices "Good", "Fair", "Poor", "Abstain", or the customized evaluation way by software.
- ◆ Utilize data encryption and anti-restoration technique to ensure information security.
- ◆ Customized voting options and voting methods, support customized language mode or display screen



# ◆ Discussion, Voting and Interpretation Terminal

DCS-2043CF/DCS-2043DF



## ◆ Basic Functions

Based on functions of DCS-2043D, DCS-2043D unit has functions as below:

- ◆ Voting: delegate can vote for Yes, No, or Abstain . Vote counting and result display are enabled automatically by PC
  - Single-choice and multiple-choice voting
  - First key-press and final key-press voting
- ◆ Election: elect one or more out of N candidates, with 'competitive election', 'equal number election' and 'quick election'
- ◆ Evaluation: four buttons to evaluate. It comes with four choices "Good", "Fair", "Poor", "Abstain", or the customized evaluation way by software.
- ◆ Utilize data encryption and anti-restoration technique to ensure information security.
- ◆ Customized voting options and voting methods, support customized language mode or display screen
- ◆ Language interpretation:32 (1+31) channels.
- ◆ Built-in language channel selector (with headphone plugged in)
- ◆ Acoustic frequency response can be up to 20Hz~20KHz.



## ◆ Technical Parameters

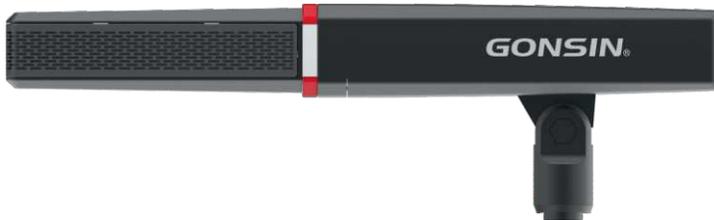
Installation	Desktop
Connection Method	Cable
Color	black
Display Parameter	OLED; size: 35mm×18mm
Frequency Range	20Hz~20KHz
Sensitivity	-46 dBV/Pa
VOX Sensitivity	H/M/L(76dB/80dB/82dB)
Equivalent Noise Level	20dBA(SPL)
Max SPL	139dB(THD<3%)
THD	<0.05%
SNR	≥96dB
Headphone/Mic Port	3.5 mm stereo jack×2
Headphone Load	>16Ω
Headphone Volume	10mW
Built-in Loudspeaker	2×2W/8Ω
Channel	32 channels
Dimension (L*W*H)	145mm×170mm×71mm((without Mic stem)
Weight	0.6Kg
Power Supply	24V
Max Power Consumption	7W
Operating Temperature	0~45°C
Storage Temperature	-20~50°C

## ◆ Congress Terminal Feature Chart

Terminal Type	Description	Keypress/Card Registration	Speaking	Voting	Simultaneous Interpretation	Language	OLED screen	Installation
DCS-2043C	Chairman	√	√			Chinese/English	√	Desktop
DCS-2043D	Delegate	√	√			Chinese/English	√	Desktop
DCS-2043DV	Delegate	√	√	√		Chinese/English	√	Desktop
DCS-2043DI	Delegate	√	√		√	Chinese/English	√	Desktop
DCS-2043CF	Chairman	√	√	√	√	Chinese/English	√	Desktop
DCS-2043DF	Delegate	√	√	√	√	Chinese/English	√	Desktop

# Conference Microphone

MIC-240DB



## Basic functions

- ◆ Full metal microphone shell, with drop resistance, durable quality
- ◆ Adjustable pitch angle for best sound receiving effect
- ◆ Hypercardioid microphone with multiple head and three-color status indicators
- ◆ Built-in isolated leading microphone and backup microphone. The leading microphone co-works with digital system audio and the backup one co-works with phantom power audio. The breakdown of leading microphone has no influence on the backup microphone and its output.
- ◆ Highly resistant to mobile phone interference

## Technical Parameters

Radio Head	Multiple
Polar Pattern	Hypercardioid
Acoustic Frequency Response	20Hz~20KHz
Sensitivity	-46 dBV/Pa
Input impedance	2KΩ
Directivity	0°/135°: > 20 dB (1 kHz) 0°/180°: > 15 dB (1 kHz)
Equivalent Noise Level	20dBA (SPL))
Max SPL	139dB (THD<3%)
Output Impedance	200Ω
Power Supply	Leading Microphone: Terminal Backup Microphone: 48V DC phantom power
Output Impedance	3 Pin aviation female head and XLR Male
Dimensions (L*W*H)	240mm×35.5mm×31.5mm
Weight	0.4Kg

# ◆ Congress Server GONSIN20000S



## ◆ Basic functions

- ◆ In compliance with IEC60914 standard and adoption of digital audio processing and transmission techniques to implement a digitized server
- ◆ Black tempered glass panel design, clear and high-grade. All the function divisions are distinct and easy to operate.
- ◆ Based on digital control framework and high-speed CPU, the system has more stable performance and higher processing speed
- ◆ Developed on Linux-based OS platform, the server has robust stability and thus applies to large-sized convention centers with strict running conditions
- ◆ Support up to 4 channel grouping audio output
- ◆ Support USB auto recording , audio recording after plugging an USB flash disk
- ◆ AF sensitivity of each terminal (7 levels) can be adjusted separately or uniformly.
- ◆ Congress terminal, power HUB and congress server are all connected by cable. Flexible cabling reduces project workload, makes large-scale construction easier.
- ◆ It supports daisy-chain connection, star connection and mixed connection. The system is highly stable and reliable. The break down of one extension won't influence the other extensions, and the malfunction of one attachment among the extensions won't influence the system work
- ◆ Automatic restoration function: supports hot plug.
- ◆ Supports 48KHz audio sample freq, acoustic frequency response can up to 20Hz~20KHz.
- ◆ Support 32 (1+31) channels simultaneous interpretation
- ◆ The serial-number is one and only, the congress system supports automatically or manually assign ID to the corresponding equipment.
- ◆ Appoint any terminal as the chairman or delegate terminal
- ◆ System capacity: unlimited
- ◆ The sever comes with built-in OLED panel and navigation button to display speaking mode, system status, terminal setting and management. Language supports Chinese/ English, by rotation knob, the server can manage terminals.
- ◆ Navigation knob for more convenient operation and management
- ◆ 4 congress terminal connection interfaces
- ◆ Adopt distributed power supply management, single server can connect to up to 56 terminals(turn off built-in speaker) or 8 desktop paperless all-in-one terminals; it can form a super-large system with 65,025 terminals, by adding power hubs, which are controlled and managed by the server

- ◆ Congress server can be separately or integrally
- ◆ Support hot stand-by function for server and management software, ensure data security and reliable backup
- ◆ Co-work with 8 digital simulation audio converters, for infrared simultaneous interpretation system or recording
- ◆ Optional HD video camera tracking matrix ,switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ 8\*1+3 video matrix is built in the server, and standard definition video conference camera is selected, which can realize automatic camera tracking function of standard definition and support preset overall view
- ◆ Support Dante extension port
- ◆ Built-in clock and calendar
- ◆ Built-in Congress terminal auto-detect mechanism
- ◆ Universal voltage switching power supply for wider usable range and sufficient power supply.

**Offline functions without PC/software control**

- ◆ Loud speaker: VOX, Auto, FIFO, Operator.
- ◆ VOX function: in VOX mode, the unit will be activated for user speaks; VOX sensitivity can be adjust by the server ( high, middle, low); microphone time-out is adjustable ( 20-250 seconds).
- ◆ 1-4 delegate unit can be used except the chairman unit

**Extended functions with PC/software control**

- ◆ Can be integrated with paperless conference system to realize paperless conference voting, election, voting function
- ◆ Operator can click terminal icons for terminal management such as allow or reject the delegate to speak
- ◆ Speaking time limit can be preset to turn off terminal
- ◆ Real-time monitor for system operation, to find out system error in time
- ◆ Support hot stand-by function for server and management software, ensure data security and reliable backup
- ◆ Conference managements can be adjusted in accordance with user's original management software



## Technical Parameters

System Capacity	65,025
Standard Capacity	56 Terminals(turn off built-in speaker)/28 Terminals(turn on built-in speaker)/8 Desktop Paperless All-in-one Terminals
Frequency Range	20Hz~20KHz
SNR	>96dBA
Isolation	>85dB
Dynamic Range	>94dB
THD	<0.05%
Power	AC100~240V , 50/60Hz
Audio Port	1 balanced (XLR) ; 4 unbalanced (PHOENIX)
Max Audio Output	MIXER OUT : +20 dBu balanced ; AUDIO OUT 1~4: +20 dBu balanced
Output Impedance	>1KΩ
Central Control Method	RS-232
PC Connection Method	TCP/IP
Camera Control Method	RS-485
Max Power Consumption	300W
Terminal Connection Port	Rj45×4 (power supply)
Display Screen	OLED (61mm×37mm)
Audio Recorder Interface	USB (FAT32)
Digital Voice File Size	0.8M/m
Active Delegate	1/2/3/4
VOX sensitivity	H/M/L (76dB/80dB/82dB)
Support Camera Number	8(SD) or 4(HD)
Video Input Port	RCA×8(1Vp-p 75Ω)or SDI×4(SD/HD/3G)
Video Output Port	RCA×4(1Vp-p 75Ω)or SDI×1(SD/HD/3G)
Camera Tracking Protocol	PELCO-P/PELCO-D/VISCA
Operating Temperature	0~45°C
Storage Temperature	-20~50°C
Dimensions (W×H×D)	485mm×325mm×90mm
Installation	Desktop or 19" Cabinet installation
Weight	14Kg



## Power Hub HUB-P150S



### Basic functions

- ◆ In compliance with IEC60914 international standard, utilize digital audio processing and transmission technology
- ◆ Based on digital control framework and high-speed CPU, the system has more stable performance and higher processing speed
- ◆ Developed on Linux-based OS platform, the server has robust stability and thus applies to large-sized convention centers with strict running conditions
- ◆ Power Status Indicator, support detection for voltage, current, temperature, overload, overheat
- ◆ Distributed management function, controlled by the server automatically, the operation data is uploaded by network
- ◆ Adopt distributed power supply management, single power HUB can connect to up to 65 terminals(turn off built-in speaker) or 5 desktop paperless all-in-one terminals (according to terminal model and the length of cable); it can form a super-large system with 65,025 terminals, by adding power hubs and servers. Power HUB are controlled and managed by the server
- ◆ All the equipment are connected by cable. Flexible cabling reduces project workload, makes large-scale construction easier.
- ◆ It supports daisy-chain connection, star connection and mixed connection. The system is highly stable and reliable. The break down of one extension won't influence the other extensions, and the malfunction of one attachment among the extensions won't influence the system work.
- ◆ Automatic restoration function: supports hot plug.
- ◆ The serial-number is one and only, the congress system supports automatically or manually assign ID to the corresponding equipment.
- ◆ Built-in congress terminal auto-detect mechanism
- ◆ Real-time monitor for system operation, to find out system error in time
- ◆ Co-work with congress server to expand congress terminal connection and designed to meet the power requirement for larger congress system.
- ◆ 5 terminal connection ports and 2 extended connection ports for HUB
- ◆ Synchronously start up and shut down with server
- ◆ More functions when cooperates with system control software

### Technical Parameters

System Capacity	65,025
Standard Capacity	65 Terminals(turn off built-in speaker)/25 Terminals(turn on built-in speaker)/5 Desktop Paperless All-in-one Terminals
Status Indication	LED
Power	AC 100~240V,50/60Hz
Max Power Consumption	150W
Terminal Connection Port	RJ45×7
Operating Temperature	0~45°C
Storage Temperature	-20~50°C
Dimensions(L×W×H)	238mm×165mm×45mm
Installation	Concealed or Rack
Weight	2Kg

# ◆ Interpreter Terminal

IC-2016/2032



## ◆ Basic functions

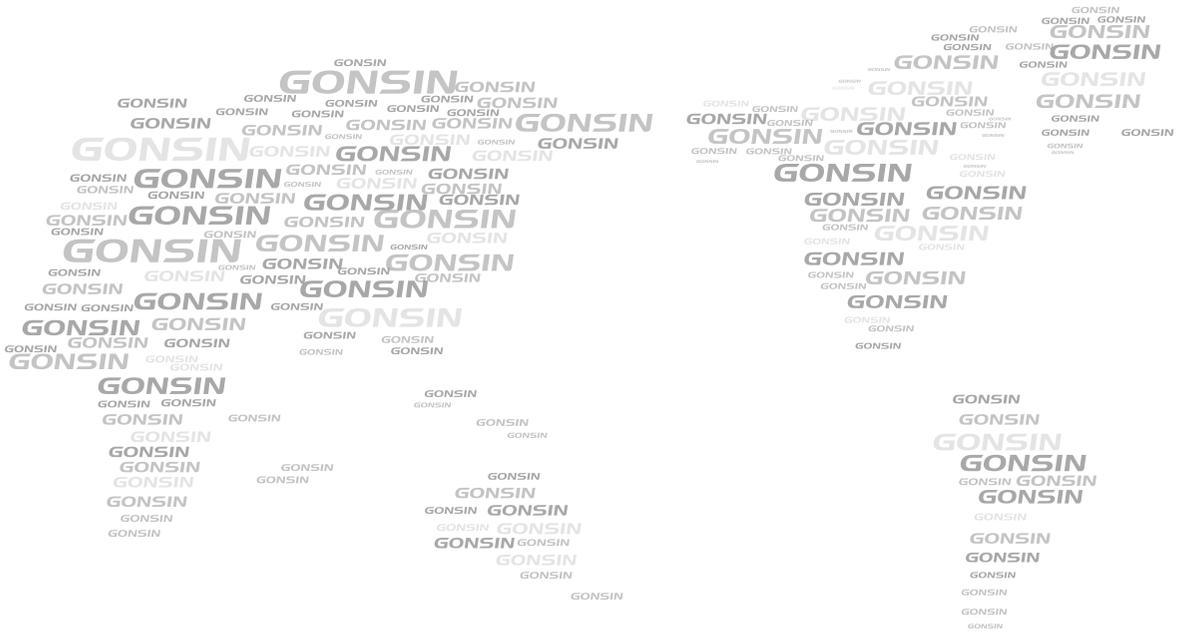
- ◆ In compliance with IEEE 802.11n network standard, adopt WIFI wireless communication technology.
- ◆ Physical Mic button utilizes touch design, with concise appearance, convenient operation, accurate response and long service life.
- ◆ With full digital audio technology, built-in high-speed CPU and high-performance DSP digital audio processor.
- ◆ Congress terminal, power HUB and congress server are all connected by cable. Flexible cabling reduces project workload, makes large-scale construction easier.
- ◆ It supports daisy-chain connection, star connection and mixed connection. The system is highly stable and reliable. The break down of one extension won't influence the other extensions, and the malfunction of one attachment among the extensions won't influence the system work.
- ◆ Automatic restoration function: supports hot plug.
- ◆ Supports 48KHz audio sample freq, acoustic frequency response can up to 20Hz~20KHz.
- ◆ Built-in high-performance DSP digital audio processor, helps remove the useless low-frequency and avoid low-frequency acoustical shock, which better improve the sharpness of sound.
- ◆ Highly resistant to mobile phone interference
- ◆ The serial-number is one and only, the congress system supports automatically or manually assign ID to the corresponding equipment.
- ◆ Direct interpretation or indirect interpretation
- ◆ Accommodates up to 16/32 channels interpretation
- ◆ By the software setting, one language could be directly connected to 6 interpreter consoles, when the interpreter turns on the microphone, the system would automatically turn off the microphone of the last interpreter console
- ◆ A, B input channels presetting. When presetting the input channel, the occupied channel will be automatically skipped. It is quick to switch A/B input channel which works in both interlocking mode(interlock between interpreter consoles) and free mode.
- ◆ SLOW key to remind the speaker to slow down; the active mic ring or LCD will blink.

- ◆ MUTE key to temporarily mute unwanted noise.
- ◆ Interpretation operating time display: hour: minute
- ◆ Standard electret cardioid pickup pattern microphone with lamp bezel (On or Off) , rich timbre. Three kinds of soft gooseneck microphone stems for various conferences (standard: 410mm, optional: 310mm/510mm).
- ◆ Pluggable gooseneck microphone stem, convenient for equipment maintenance.
- ◆ Built-in left and right loudspeakers (2W) and adjustable volume(9 levels). Reasonable tune trope design, output clear and loud sound. Adjusting volume through screen touch is available. language channel can be chosen.
- ◆ Support interpreter booth function and no interpreter terminal quantity limit
- ◆ Left/Right MIC jack for headset boom microphone
- ◆ Left/Right headphone jack for headphone monitoring
- ◆ Left/Right REC OUT jack ( 3.5 mm) for interpreted audio recording
- ◆ Supports dual microphone inputs
- ◆ Microphone is selectable
- ◆ A/B/C incoming channels can be pre-selected.
- ◆ A/B outgoing channels can be pre-selected.
- ◆ LCD shows channel numbers and operating information
- ◆ Could be freely connected with any congress terminal

## ◆ Technical Parameters

Installation	Desktop
Connection Method	Cable
Display Parameter	Size:65mm×32mm; Dot matrix:128×64; Backlit with white-on-blue
Acoustic Frequency Response	20Hz~20KHz
Sensitivity	-46 dBV/Pa
Equivalent Noise Level	20dBA(SPL)
Max SPL	125dB(THD<3%)
THD	<0.05%
SNR	≥96dB
MIC Type	Cardioid; 0°/180°:>20 dB (1 kHz)
Polar Pattern	410mm (standard); 310mm/510mm (optional))
Input Impedance	2KΩ
Headphone Jack	3.5 mm stereo jack×2
MIC Port	3.5 mm stereo jack×2
REC Out Port	3.5 mm stereo jack×2
Headphone Load	>16Ω
Headphone Volume	10mW
Built-in Speaker	2W/8Ω
Channel	16/32
Dimension (L*W*H)	247mm×145mm×95mm (without MIC stem)
Weight	1.2Kg(net)
Power	24V
Max Power Consumption	7W
Operating Temperature	0~45°C
Storage Temperature	-20~50°C





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English WeChat



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