

TAIDEN®

Fully Digital Congress System



 ISO9001:2015
Certificated by ANAB
Certificate No.: FM 85884

 CE certified
(including EMC and Safety)

 FCC certified

RoHS Compliance with Directive
2011/65/EU of the
European Parliament

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HCS-4800 Series Fully Digital Congress System

HCS-4800 Series based on TAIDEN's originated MCA-STREAM digital processing and transmitting technology, revolutionizes conference systems by introducing fully digital technology and network technology and integrating them fully with audio technology.

Furthermore, with perfect integration of TAIDEN Conference Sign-in System and Network Central Control System, HCS-4800 series takes the leadership in providing comprehensive and efficient digital conference system solutions to be applied in various scenarios such as small conference rooms, large conference halls and stadiums.

Main Unit



HCS-4800M Series



HCS-8600MEA Series

Audio Input & Output Device



HCS-8600MIO

Congress Unit



HCS-4890N Series



HCS-4838 Series

Congress Management System



HCS-4500 Series

Interpreter Unit



HCS-8685



Independent core technology bringing excellent sound quality

- Proprietary MCA-STREAM digital audio processing and transmitting technology
- Fully digital audio transmission between congress units and the main unit
- Audio sampling of 48 kHz and audio frequencies between 30 Hz and 20 kHz

A variety of features to meet different business needs

- Speech, 64 channels simultaneous interpretation, file display, remote control
- Working with other related devices to realize sign-in, recording, video tracking, central control, etc.

One cable transmission simplifies installation and maintenance

- Easy wiring with one eight-core cable can transmit 64 channels of audio, control and file data concurrently
- Signal quality and amplitude will not decline during transmission, completely solving the problem of noise caused by earth wire in audio projects and the interference from stage lighting, video and other equipment.

"Closed Loop-Daisy Chain" providing connection backup

- All conference units are connected by "Closed Loop-Daisy Chain" with the end connected back to the main unit, and the data stream of any conference unit in the loop can reach the main unit in two ways, so failures of the extension unit or connection will not affect the meeting.

Ultra-large capacity for various application scenarios

- The system can connect up to 378 interpreter units, 4096 discussion or voting units and unlimited language distribution units through the main unit and extension main unit.

Multiple backup mechanism to ensure system stability and reliability

- Dual-system hot backup: the backup main unit ready to take over whenever the system fails
- System software backup: data being processed in the main server will be automatically saved in the backup server to avoid possible data loss or any unexpected incidents from affecting the meeting.

HCS-4838 Series

HCS-4838 Series is a new generation of Fully Digital Congress Unit independently developed by TAIDEN, which is compliant to the latest ISO 22259, and adopts fully digital audio technology with built-in high-performance CPU for faster processing speed and better sound quality.

Stylish and Elegant Design

- Electret condenser microphone with bi-color indicator light
- 128×36 OLED screen displaying channel language and channel number
- Tactile buttons with braille indication for the convenience of visually impaired users

Simultaneous Interpretation

- Transmitting up to 64(1+63) CHs digital audio signals, all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz



Speech Function

- Audio sampling of 48 kHz and audio frequencies between 30 Hz and 20 kHz
- Built-in Hi-Fi loudspeaker mutes automatically when the microphone is on to avoid feedback
- Built-in high-pass filter to filter out bass
- Separate adjustment of gain and EQ (5 band) of conference units can control the volume and frequency response according to the sound characteristics of different speakers
- Support Open/Override/Voice/Request/PTT speech mode

Function list

Model	Type	Speech	SI	Main Unit
HCS-4838CS	Chairman	●	64CHs	HCS-4800MA
HCS-4838DS	Delegate	●	64CHs	
HCS-4838C	Chairman	●		HCS-4800MA/MB/MC
HCS-4838D	Delegate	●		

Specifications

Microphone		Headphone	
Sensitivity	-46dBV/Pa	Load Impedance	≥16 Ω
Frequency Response	50Hz~20kHz	Output	10mW
Directivity 0°/180°	>20 dB (1 kHz)	headphone Socket	Ø 3.5 mm stereo socket
Audio			
Output Frequency Response		30Hz~20kHz	
Other Characteristics			
Mounting		Tabletop	
Max. Power		1.9W	
Dimensions (h×w×d)		99×143×66mm (microphone not included)	
Stem Microphone		330mm, 410mm (default), 470mm	
Weight (stem included)		1.1 kg	

HCS-4890N/80 Series

HCS-4800 Series is a new generation of Fully Digital Congress System independently developed by TAIDEN, which conforms to the latest international standard for conference system—ISO 22259, with enhanced performance in channel isolation, dynamic range, S/N ratio and total harmonic distortion. The panel adopts tactile button and LED touch screen, which is fingerprint-resistant and glare-proof. The exquisite and sleek 4.3" LED touch screen provides users with convenient operation and rich content display.

Stylish and Elegant Design

- Electret condenser microphone with bi-color indicator light
- 4.3" touch screen displays the speech list, speech countdown, speaker information, simultaneous interpretation list, adjustment of headset volume and screen brightness, system language settings and unit information, etc.
- All tactile buttons have braille indication, which is convenient for the visually impaired

Speech Function

- Audio sampling of 48 kHz and audio frequencies between 30 Hz and 20 kHz
- Built-in Hi-Fi loudspeaker mutes automatically when the microphone is on to avoid feedback
- Built-in high-pass filter to filter out bass
- Separate adjustment of gain and EQ (5 band) of conference units can control the volume and frequency response according to the sound characteristics of different speakers
- Support Open/Override/Voice/Request/PTT speech mode



Simultaneous Interpretation

- Transmitting up to 64(1+63) CHs digital audio signals, all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz

Function list

Model	Type	Speech	SI	Voting	4.3" touchscreen	Main Unit
HCS-4890NCVSE/80	Chairman	●	64CHs	●	●	HCS-4800MA
HCS-4890NDVSE/80	Delegate	●	64CHs	●	●	
HCS-4890NCS/80	Chairman	●	64CHs		●	
HCS-4890NDS/80	Delegate	●	64CHs		●	

Specifications

Microphone		Headphone	
Sensitivity	-46dBV/Pa	Load Impedance	≥16 Ω
Frequency Response	50Hz~20kHz	Output	10mW
Directivity 0°/180°	>20 dB (1 kHz)	headphone Socket	Ø 3.5 mm stereo socket

Audio

Output Frequency Response	30Hz~20kHz
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LCD Screen

Screen Size	4.3"
Resolution	800×480
Contrast	800:1

Other Characteristics

Mounting	Tabletop
Max. Power	3.6W
Stem Microphone	330mm, 410mm (default), 470mm
Dimensions (h×w×d)	58x240x100mm (microphone not included)
Weight (stem included)	1.1 kg

HCS-8685

The design of HCS-8685 has extensively solicited the opinions of interpreters and related staff at EU, UN and other institutions and complies with ISO 20109, ISO 2603 and ISO4043.

User-Centered Design

- Tabletop or flush-mounting installation, and up to 6 interpreter units in one booth
- 6.8" TFT LCD for more displayed content
- Request, voice reminder and mute function buttons with braille indication for the convenience of visually impaired users
- After installing the designated APP on cell phone, messages can be sent to the interpreter unit via Bluetooth for easy management by the interpreter team leader

Simultaneous Interpretation

- Up to 64 interpretation channels
- Support direct and relay interpretation and preset 7 input channels and 3 output channels

Speech Function

- Audio sampling of 48 kHz and 64 channels audio frequencies between 30 Hz and 20 kHz
- Built-in loudspeaker with volume control and when all microphones are off, the loudspeaker will play floor language or interpretation channel



Specifications

Microphone		Headset	
Sensitivity	-46dBV/Pa	Load Impedance	≥16 Ω
Frequency Response	50Hz~20kHz	Output	10mW
Directivity 0°/180°	>20 dB (1 kHz)	Headset Socket	3 Ø 3.5 mm TRRS socket
Audio			
Frequency Response	30 ~ 20000 Hz		
Other Characteristics			
Dimensions (h×w×d)	83×320×148(mm)	Weight (stem included)	1.1kg



HCS-4800M Series

The HCS-4800M Series Fully Digital Congress Main Unit is compliant to the latest ISO 22259.

Easy Management

- 2.8" LCD screen displays status and configuration information, and the rotary push button can quickly select and set the LCD menu
- RS-232 interface for connection with the central control system
- Remote control, remote diagnosis and remote upgrade of the conference system realized through TCP/IP connection between the main unit and the control computer
- The main unit can be accessed through the web page for more detailed parameter settings

High-performance DSP

- A dedicated high-performance DSP processing the audio signal
- Audio sampling of 48 kHz and 64 channels audio frequencies between 30 Hz and 20 kHz

Simultaneous Interpretation

- Transmitting up to 64(1+63) CHs digital audio signals, all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz



Function list

Model	Speech	Voting	SI	Fiber Interface	Amplifier
HCS-4800MA	•	•	64CHs	•	
HCS-4800MB	•	•			•
HCS-4800MC	•	•			

Specifications

Capacity	4096	Isolation	≥90 dB
Frequency Response	30Hz~20kHz	Dynamic range	≥94 dB
	≥100 dBA	THD	≤0.05%
Output Impedance	≥1 kΩ	Max. Power	500 W
Dimensions (w×d×h)	480 × 418 × 95 mm (with rubber pad)	Weight	7.9kg

HCS-4500

HCS-4500 Conference Management Software adopts modular design for centralized management of conference rooms and unified distribution of devices.



- Basic Settings
- Advanced Venue Design
- Microphone Control
- Voting Management
- Video Control
- Simultaneous Interpretation
- Intercom
- Conference Recording
- Multi-user Conference Control
- Computer Hot Backup
- Main System Hot Backup
- Contact/Contactless IC Card Management
- Fingerprint Identification
- Electronic Nameplate
- Conference Service
- Digital HD Video Recording Management
- Booth Allocation Management

HCS-8600MEA Series Extension Main Unit



Cooperates with HCS-4800M Series Conference System Main Unit to increase the number of connected conference units. With extension main units, the system can connect up to 4096 contribution units or voting units, 378 interpreter units (in 63 booths, with six units for each booth at most) and unlimited number of channel selectors

HCS-8600MIO Series Audio Input & Output Device



Converts the digital audio signals of conference system into multi-channel digital/analog signals for interpretation system or conference recording, or connected with speech transcription system and transmits audio signals through network, or used for booth allocation management

HCS-8600MCLS Loop Switcher



For "Closed Loop - Daisy Chain" connection between main unit and conference units

HCS-8685BM Booth Manager



Flexibly deploys interpreter booths according to actual needs without changing the connection.