

# TAIDEN®

## New Premium Digital Congress System



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# HCS-4800 Series

## New Premium Digital Congress System

HCS-4800 Series New Premium Digital Congress System is based on TAIDEN's originated MCA-STREAM digital processing and transmitting technology, revolutionizing conference systems by introducing fully digital and network technology and integrating them with audio technology. And it conforms to ISO 22259, the international standard for conference system.

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.



Congress Unit



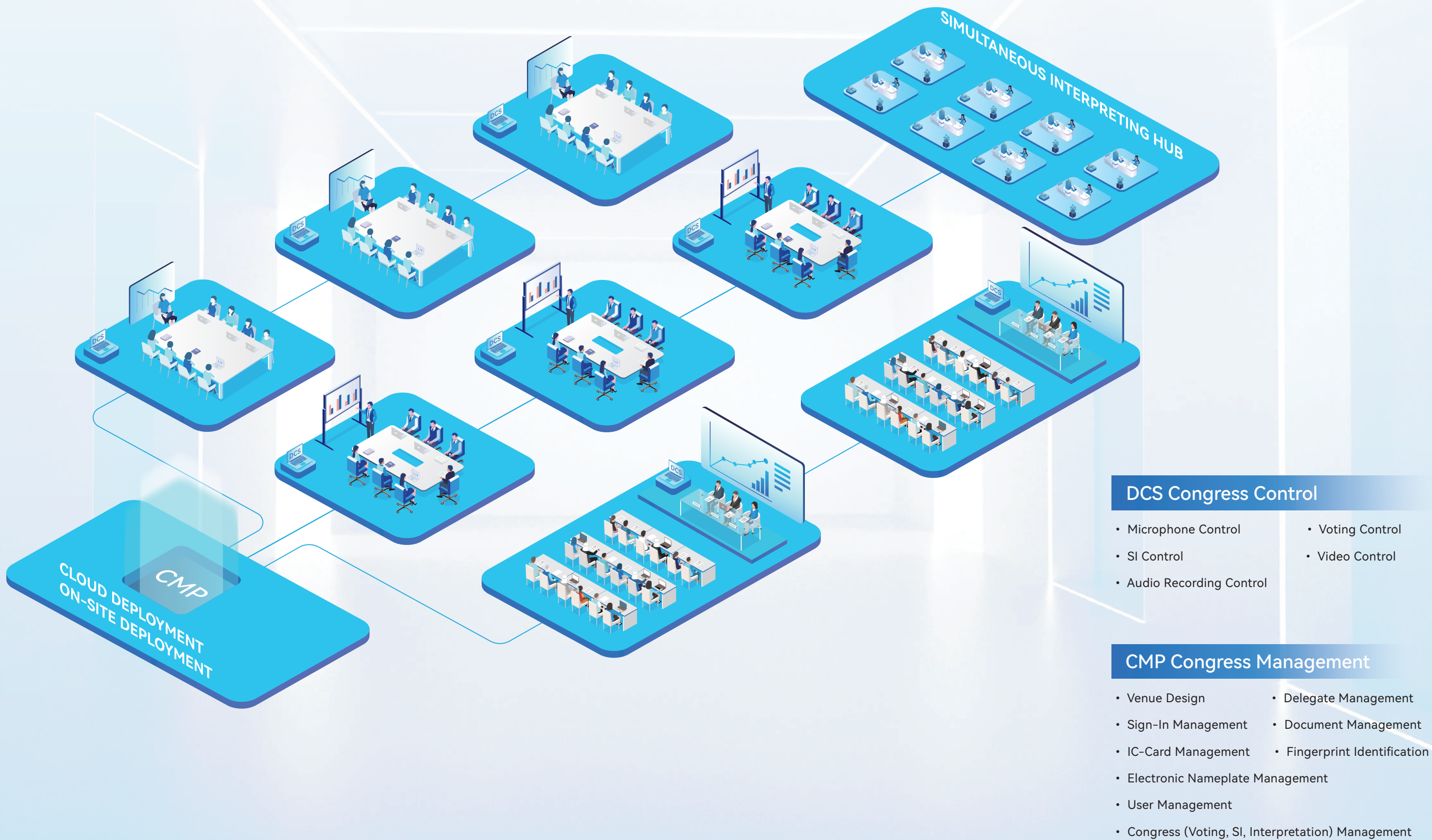
Interpreter Unit



Main Unit & Congress Management Software



Redefine the conferencing system  
from device to platform





# System Highlights



## 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 20 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 simplifying 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 prevent any unexpected incidents from affecting the meeting



# HCS-4838 Series

HCS-4838 Series Congress Unit is independently developed by TAIDEN and adopts fully digital audio technology with built-in high-performance CPU for faster processing speed and better sound quality.



## Elegant and practical desktop design

- Delicate tabletop design for ease of use and portability
- 128×36 OLED screen displays channel language and number, improving meeting efficiency and accuracy
- Tactile buttons with braille indication for the convenience of visually impaired users
- Electret condenser microphone with bi-color indicator lights for instant microphone status awareness (stem microphone to be ordered separately)



## Speech function

- Audio sampling of 48 kHz and audio frequencies between 20 Hz and 20 kHz provide participants with a more complete and authentic audio experience
- Separate adjustment of gain and EQ (5 band) of conference units to adapt different voices
- With built-in Hi-Fi loudspeaker, this all-in-one solution is ideal for meeting rooms that do not have an amplification system

## Simultaneous interpretation

- Transmitting up to 64 (1+63) CHs digital audio signals, all 64 channels can perfectly provide a comprehensive, accurate, and high-quality audio experience

## Function list

Model	HCS-4838S Series	HCS-4838 Series
Type	Chairman Delegate	Chairman Delegate
Discussion	•	•
SI	64 CHs	
OLED	128×36	
Main Unit	HCS-4800MA/20 HCS-8600M Series	HCS-4800M Series HCS-8600M Series

## Specifications

Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRS socket
Audio	
Output Frequency Response	20 Hz~20 kHz
Mechanical	
Mounting	Tabletop
Max. Power	1.8 W
Dimensions (h×w×d)	66×99×143 mm (microphone not included)
Weight (stem included)	0.9 kg



# HCS-4890N/80 Series

HCS-4890N/80 Series Congress Unit is independently developed by TAIDEN and boasts enhanced performance in channel isolation, dynamic range, S/N ratio and total harmonic distortion. The panel is equipped with tactile buttons and a fingerprint-resistant, glare-proof LCD touch screen, which offer users convenient operation and rich content display.



## Stylish and user-centric design

- 4.3" touch screen enables convenient operation and rich content display : speech list, speech countdown, speaker information, SI list, device settings and unit information, etc.
- Tactile buttons with braille indication for the convenience of visually impaired users
- Electret condenser microphone with bi-color indicator lights for instant microphone status awareness (stem microphone to be ordered separately)

## Speech function

- Audio sampling of 48 kHz and audio frequencies between 20 Hz and 20 kHz provide participants with a more complete and authentic audio experience
- Separate adjustment of gain and EQ (5 band) of conference units to adapt different voices
- With built-in Hi-Fi loudspeaker, this all-in-one solution is ideal for meeting rooms that do not have an amplification system

## Simultaneous interpretation

- Transmitting up to 64 (1+63) CHs digital audio signals, all 64 channels can perfectly provide a comprehensive, accurate, and high-quality audio experience



## Function list

Model	HCS-4890 NCVSE/80	HCS-4890 NDVSE/80	HCS-4890 NCS/80	HCS-4890 NDS/80
Type	Chairman	Delegate	Chairman	Delegate
Discussion	•	•	•	•
Voting	5-Key	5-Key		
SI	64 CHs	64 CHs	64 CHs	64 CHs
Speaker	•	•	•	•
IC Card	•	•		
Main Unit	HCS-4800MA/20 HCS-8600MA Series		HCS-4800MA/20 HCS-8600M Series	

## Specifications

Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRS socket
Audio	
Output Frequency Response	20 Hz~20 kHz
LCD Screen	
Screen Size	4.3"
Resolution	800×480
Contrast	800:1
Mechanical	
Mounting	Tabletop
Max. Power	3.6 W
Dimensions (h×w×d)	58×240×100 mm (microphone not included)
Weight (stem included)	1.1 kg



HCS-4890N/FM/80 Series

The HCS-4890N/FM/80 Series Congress Unit features an embedded design that integrates various functions such as discussion, voting, simultaneous interpretation, sign-in and built-in speaker, suitable for different types of conferences. Equipped with a touch screen and physical operation buttons, the conference unit allows to display conference information clearly and brings a convenient conference experience.



Highly Integrated flush-mount design

- Flush-mounting design maximizes conference table efficiency, and keeps the conference site tidy and organized
- Exquisite and sleek 4.3" touch screen for information display of meeting proceedings and settings
- Easy installation and wiring with one signal transmission cable
- The stem microphone can be unplugged during adjournment, making maintenance easy

Enhanced meeting functions

- Speak mode: Open/Override/Voice/Request/PTT
- Vote: 5 voting keys
- Simultaneous interpretation: up to 64 (1+63) channels
- Sign-in: key-press sign-in, contactless IC-Card sign-in
- Built-in Loudspeaker: minimal feedback, mutes automatically when microphone is active
- Customizable boot screen and background picture



Function list

Model	HCS-4890NCVSE/FM/80	HCS-4890NDVSE/FM/80
Type	Chairman	Delegate
Discussion	•	•
Voting	5 Key	5 Key
SI	64 CHs	64 CHs
IC Card	•	•
Priority Button	•	
Main Unit	HCS-4800MA/20 HCS-8600MA Series	HCS-4800MA/20 HCS-8600M Series

Specifications

Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRS socket
Audio	
Output Frequency Response	20 Hz~20 kHz
LCD Screen	
Screen Size	4.3"
Resolution	800×480
Contrast	800:1
Mechanical	
Mounting	Flush-mounting
Max. Power	3.6 W
Dimensions (h×w×d)	90×240×112 mm (microphone not included)
Weight (stem included)	0.9 kg



# HCS-48U6 Series

The HCS-48U6 Series Congress Unit is stylishly designed to maximizes conference table efficiency, providing all the necessary features for effective conference chairing. Additionally, the HCS-48U6MICM/80 Series Congress Unit fulfills the fundamental requirements of most conferences by expanding different functional modules.



## Modular flush-mount design

- Flush-mounting design maximizes conference table efficiency, and keeps the conference site tidy and organized
- Being equipped with microphone On/Off button enables better engagement of participants
- The stem microphone can be unplugged during adjournment, making maintenance easy

## Rich expandable functionality

- More than a speaking unit, the conference unit can be connected to: HCS-48U6DVOTTW voting unit, HCS-48U6SPK loudspeaker, HCS-48U6SLEM/80 channel selector



## Function list

Model	Type	Discussion	Voting	SI	OLED Screen	IC card Sign-in	Loudspeaker	Main Unit
HCS-48U6CMICM/80	Chairman	•						HCS-4800M Series HCS-8600M Series
HCS-48U6DMICM/80	Delegate	•						
HCS-48U6CMICS	Chairman	•						
HCS-48U6DMICS	Delegate	•						
HCS-48U6DVOTTW	Delegate		3 keys			•		
HCS-48U6SPK							•	HCS-4800MA/20 HCS-8600M Series
HCS-48U6SLEM/80				64 CHs	•			

## Specifications

Model	HCS-48U6MIC Series	HCS-48U6DVOTTW	HCS-48U6SLEM/80	HCS-48U6SPK
Output Frequency Response	20 Hz~20 kHz		20 Hz~20 kHz	
Dimensions (h×w×d) (w/o stem microphone)	71×100×40 mm (HCS-48U6CMICM/80) 71×100×40 mm (HCS-48U6DMICM/80) 36×100×40 mm (HCS-48U6CMICS) 36×100×40 mm (HCS-48U6DMICS)	73×100×40 mm	71×100×40 mm	71×80×80 mm
Weight	0.4 kg	0.1 kg	0.1 kg	0.2 kg



# HCS-48U7M/80 Series

The HCS-48U7M/80 Series Congress Unit for speech fulfils the essential requirements of most conferences. It boasts exceptional resistance to RF interference caused by mobile phones. The built-in loudspeaker delivers superior acoustics, ensuring high-quality audio from floor channel without disruptive feedback.



## Ultra-minimalist flush-mount design

- Flush-mounting design maximizes conference table efficiency, and keeps the conference site tidy and organized
- Being equipped with microphone On/Off button enables better engagement of participants
- The stem microphone can be unplugged during adjournment, making maintenance easy

## Essential functions and stable performance

- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices



## Function list

Model	HCS-48U7CM/80	HCS-48U7DM/80
Type	Chairman	Delegate
Discussion	•	•
Loudspeaker	•	•
Priority Button	•	
Main Unit	HCS-4800M Series HCS-8600M Series	HCS-4800M Series HCS-8600M Series

## Specifications

Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRS socket
Audio	
Output Frequency Response	20 Hz~20 kHz
Electrical	
Max. Consumption	2 W
Mechanical	
Mounting	Flush-mounting
Dimensions (h×w×d)	71×140×80 mm (microphone not included)
Weight	0.6 kg

# HCS-4813 Series

The HCS-4813 Series Discreet Tabletop Microphone eliminates the clutter of desktop microphones and enhancing the visual appeal. It incorporates a built-in high-performance CPU to ensure faster processing speeds and superior sound quality.



## Hidden microphone design

- Free from desktop microphones, adaptable to diverse scenarios
- Cable comes out of the base for a tidier wiring
- Physical buttons with Braille are convenient for the visually impaired
- Select and adjust the headset volume by using the buttons



HCS-4813 Series

## Speech function

- The wide frequency response range (20 Hz to 20 kHz) guarantees the authenticity and richness of the voice
- Gain and EQ (5 band) of each microphone adjustable separately to adapt different voices
- Integrated high-pass filter (low-cut switch) minimizes noise disturbance
- Set the number of delegates permitted to speak at the same time
- Speak mode: Open/Override/Voice/Request/PTT



HCS-4815 Series

## Function list

Model	HCS-4813 Series	HCS-4815 Series
Type	Chairman Delegate	Chairman Delegate
Discussion	•	•
Voting	•	
SI	64 CHs	
OLED	•	
Main Unit	HCS-4800MA/20 HCS-8600M Series	HCS-4800M Series HCS-8600M Series

## Specifications

Microphone	
Sensitivity	-46 dB (0 dB=1V/Pa)
Frequency Response	50 Hz~20 kHz
Directivity 0°/180°	>20 dB (1 kHz)
Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRS socket
Audio	
Output Frequency Response	20 Hz~20 kHz
Electrical	
Max. Power	1.8 W
Mechanical	
Mounting	Tabletop
Dimensions (h×w×d)	52×201×119 mm
Weight (stem included)	0.7 kg



# HCS-4857 Series

By adopting a flush-mounting design, HCS-4857 Series Congress Unit provides a sleek and efficient solution. Equipped with a high-performance CPU, it ensures faster processing speeds and superior sound quality. Additionally, when the position is preset, the unit can activate the automatic video tracking function in collaboration with camera and video switcher.



## Retractable design

- Retractable microphone and flush-mount design ensure a perfect storage
- Light aluminum alloy material enclosure, good heat dissipation
- Microphone can be centrally controlled to rise and fall

## Speech funtion

- 14 mm condenser capsule with greater pickup distance
- Excellent frequency response from 20 Hz to 20 kHz guarantees the authenticity and richness of the voice
- Gain and EQ (5 band) of each microphone adjustable separately to adapt different voices
- Can be used as a basic conference system when not connected to a computer, with following functions:
  - ▶ Set the number of delegates permitted to speak at the same time
  - ▶ Speak mode: Open/Override/Voice/Request/PTT



## Specifications

Audio	
Transducer	Cardioid electret, 14mm gold-plating capacitance sound head
Sensitivity	-37 dB (0 dB=1V/Pa)
Frequency Response	20 Hz~20 kHz
Directivity 0°/180°	>20 dB (1 kHz)
Equivalent Noise	20 dBA (SPL)
Maximum Sound Pressure Level	139 dB (THD<3%)
Electrical	
Power Supply	DC 12 V, 2.5A
Mechanical	
Mounting	Flush-mounting
Dimensions (h×w×d)	175×70×720 mm (In the storage state)
Microphone Length	410 mm
Weight	3.1 kg

# HCS-4827H Handheld Microphone

## HCS-4827SELM Flush-mounting 64-Channel Selector

The HCS-4827SELM is a compact single-user audio channel selector for listening by headphone, offering a choice of up to 64 high quality audio channels used for distribution of interpretation and floor channels.

The HCS-4827H handheld microphone provides facilities for speaking and registering a request-to-speak. It can be combined with HCS-4827SELM for flush-mounting into armrests of seats, or into desktop.



### Retractable design with handheld mic

- Handheld microphone can combine with HCS-4827SELM to be flush-mounted on tabletops, or in armrests of seats
- Handheld microphone with a 0.7 meter cable (including coiled section) that can be extended up to 1.5 meters for flexible and convenient use

### Speech function

- Uni-directional electret condenser microphone with illuminated ring for capturing clear and accurate sound
- Gain and EQ (5 band) of each microphone adjustable separately to adapt different voices
- Integrated high-pass filter (low-cut switch) minimize noise disturbance
- Excellent immunity to RF interference from mobile phones and comparable devices

### Simultaneous interpretation

- Transmitting up to 64 (1+63) CHs digital audio signals, all 64 channels can perfectly provide a comprehensive, accurate, and high-quality audio experience

### Specifications

#### HCS-4827H Handheld Microphone

Audio	
Sensitivity	-46 dB (0 dB=1V/Pa)
Frequency Response	50 Hz~20 kHz
Input Impedance	2 kΩ
Directivity 0°/180°	>20 dB (1 kHz)
Equivalent Noise	20 dBA (SPL)
Maximum Sound Pressure Level	125 dB (THD<3%)
Mechanical	
Mounting	Flush-mounting
Dimensions (h × w × d) (handheld mic.)	135×20×20 mm
Dimensions (h × w × d) (cylindrical base)	180×40×40 mm
Weight	0.1 kg

#### HCS-4827SELM Flush-mounting 64-Channel Selector

Audio	
Frequency Response	20 Hz~20 kHz
Headphone	
Headphone Load Impedance	>16 Ω
Output Frequency Response	20 Hz~20 kHz
Headphone Socket	Ø 3.5 mm TRS socket
Output Power	10 mW
Mechanical	
Mounting	Flush-mounting
Dimensions (h × w × d)	71×100×40 mm
Weight	0.4 kg



HCS-4827H  
Handheld Microphone



HCS-4827SELM  
Flush-mounting 64-Channel Selector



# HCS-8685

The design of HCS-8685 incorporates most recent requirements from conference interpreters and staff at international organizations including EU, UN, IMF, the World Bank, and the European Commission. It conforms to ISO 20109, the International standard for simultaneous interpreting. With modern and ergonomic design, the interpreter unit provides users with new functions such as password management, richer information display and seamless connection to video devices. A bold control button and 6.8" TFT LCD provide interpreters with more intuitive and convenient operation.



## 64 CHs simultaneous interpretation

- Audio sampling of 48 kHz and audio frequencies between 20 Hz and 20 kHz
- Support simultaneous and consecutive interpretation and preset 7 input channels and 3 output channels
- Built-in loudspeaker with volume control. When all microphones are off, the loudspeaker will play floor language or interpretation channel

## Easy management

- Password required for changes in interpreter unit settings to avoid misoperation
- Messages can be sent to the interpreter unit using a dedicated APP on mobile phones via bluetooth, for easy management by the interpreter team leader

## User-centered design

- A 6.8" TFT LCD provides interpreters with more intuitive and convenient operation
- Mute key prevents constrained voice from being transmitted
- Help key to request help from the operator (optional)
- Interpreters can send a speaking speed reminder to the active unit (optional)
- Hearing protection: automatically recognizes impedance and adjusts volume
- Braille indication for all tactile buttons caring for the visually impaired users

## Simple installation

- Up to six interpreter units can be installed in one booth
- The system can connect up to 378 interpreter units

## Specifications

Headphone	
Load Impedance	≥16 Ω
Output	10 mW
Headphone Socket	Ø 3.5 mm TRRS socket
Volume	Can be adjusted according to the impedance of the headphones
Audio	
Output Frequency Response	20 Hz~20 kHz
Mechanical	
Mounting	Tabletop
Dimensions (h×w×d)	83×320×148(mm)
Weight (stem included)	1.1 kg

# HCS-4800M & 8600M Series

HCS-4800M & 8600M Series Congress System Main Unit is based on TAIDEN Proprietary MCA-STREAM 2.0 digital audio processing and transmitting technology. With audio input output devices, it can output multi-channel digital/analog audio signals for interpretation system or conference recording.



## 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 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

## Fully digital audio technology

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Excellent immunity to RF interference from mobile phones and comparable devices

## High-performance DSP

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

## Simultaneous Interpretation

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

## Function list

	HCS-8600M Series	HCS-4800M Series
Electrical		
Frequency Response	20 Hz~20 kHz	20 Hz~20 kHz
SNR	≥100 dBA	≥100 dBA
Dyanmic Range	≥94 dB	≥94 dB
THD	≤0.05%	≤0.05%
Isolation	≥90 dB	≥90 dB
Power Supply	100 V~240 V AC 50/60 Hz	100 V~240 V AC 50/60 Hz
Mechanical		
Dimensions (h × w × d)	95×480×418 mm (for table use, with feet)	95×480×418 mm (for table use, with feet)
Weight	7.8 kg	7.8 kg

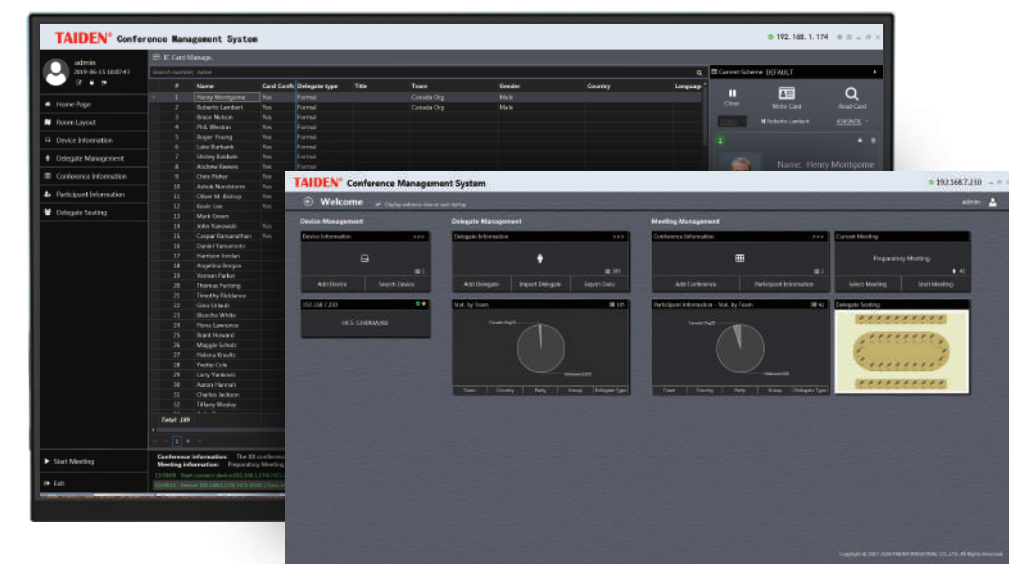
## Specifications

Function	HCS-8600M Series	HCS-4800M Series
Discussion	•	•
Voting	•	•
SI	•	HCS-4800MA/20
Microphone Group Output	•	
Fiber Optic Interface	•	HCS-4800MA/20
Dante Interface	HCS-8600MA/20	
AES/EBU Digital Input/output Interface	HCS-8600MA/20	
HDMI Interface	HCS-8600MBU/20	
USB Record	HCS-8600MBU/20	
Alarm Interface	•	•



HCS-4500

HCS-4500 Conference Management Software adopts modular design for centralized management of conference rooms and unified distribution of devices. Through HCS-4500 Conference Management Software, operators can control the conference system comprehensively, which simplifies operations, improves efficiency and reduces operation costs.



Conference management functions

- Basic Settings
- Advanced Venue Design
- Microphone Control
- Voting Management
- Video Control
- Simultaneous Interpretation
- Conference Recording
- Multi-User Conference Control
- Computer Hot Backup
- Main System Hot Backup
- Contact/Contactless IC Card Management
- Fingerprint Identification
- Electronic Nameplate
- Conference Service
- Booth 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 6 units for each booth at most) and unlimited number of channel selectors



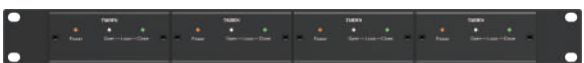
HCS-8600MIO Series  
Audio Input & Output Device

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 management



HCS-8600MCLS  
Loop Switcher

For "Closed Loop-Daisy Chain" connection between main units as well as between main units and conference units.  
HCS-8600MCLS: for connection between the CMU and the conference units  
HCS-8600MCLS/F: for connection between the primary CMU and secondary CMU








HCS-8685BM  
Booth Manager

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



Optional Microphone Stems

	Foam windshield	Dual-flex gooseneck arm	Lotus-like sound head	Metal windshield	Large diaphragm
Product Image					
Length	33/41/47 cm	50/60/70 cm	33/41/47 cm		
Microphone Type	Cardioid electret				Cardioid electret, 14mm gold-plating capacitance sound head
Sensitivity	-46 dB (0 dB=1V/Pa)				-37 dB (0 dB=1V/Pa)
Frequency Response	50 Hz~20 kHz				20 Hz~20 kHz
Maximum Sound Pressure Level	125 dB (THD<3%)				139 dB (THD<3%)

\* Microphone Stem is optional