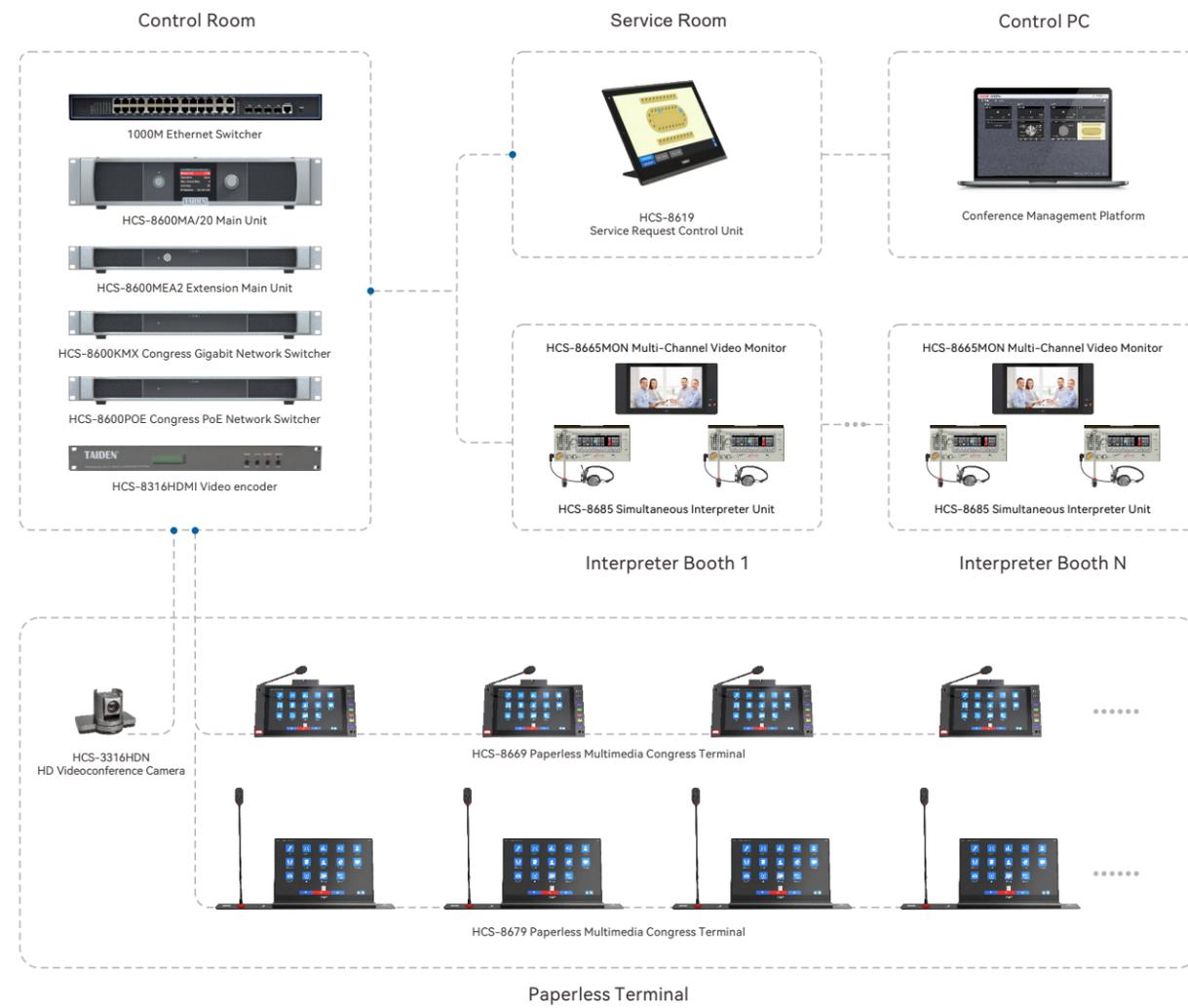


## Connection Diagram for Paperless Multimedia Congress System



# TAIDEN®

## Paperless Multimedia Congress System



TAIDEN INDUSTRIAL CO., LTD.  
 6/F, Block B, Future Plaza, 4060 Qiaoxiang Rd, Nanshan  
 District Shenzhen, 518053 P.R.China  
 TEL: (+86)755-86621810 86621811 86621812  
 Website: [www.taiden.com](http://www.taiden.com)

Copyright ©202309 TAIDEN Industrial Co., Ltd. All Rights Reserved.

# Paperless Multimedia Congress System



Paperless multimedia congress system, developed by TAIDEN as early as in 2010, has ushered in a new era for the conferencing industry and has been used at many high-profile international conferences and meeting venues, testifying in return to its excellence and superiority.

Not stopping there, TAIDEN later launched its third generation paperless multimedia congress system. The new system boasts of superb HD paperless experience, greater system reliability, budget-conscious integration of functions and convenient management with ultra-thin design, larger capacitive touch screen and higher resolution camera. Either tabletop or flush-mounted model provides users with faster, more convenient and efficient operating experience.

The fourth generation of TAIDEN paperless multimedia congress system, with additions including upgraded look, biometric and RFID card identification of conference attendees, tactile buttons and braille indication, was favored by many users. In 2023, HCS-8669 series paperless multimedia congress terminal was launched with modular design, flexible combination on demand, offering ultimate meeting experience.



## One cable transmission, ensures stable data flow

Based on TAIDEN patented MCA-STREAM digital audio processing and transmission technology. All AV signals are transmitted through a Cat.6 cable, ensuring the real-time performance and stability of important data streams such as conference audio, voting and control information.



## Proprietary platform, safe and reliable

Proprietary mMediaCongress™ platform with independent intellectual property rights ensures that the system is virus-free, hacker free, reliable and safe.



## All-round dual backup, ensures uninterrupted meeting

Dual backup for the conference main unit, dual backup for the connection between the conference main unit to the extension unit, and dual backup for system software. Another conference main unit or connection are set as backup and takes over automatically if the system fails.



## Multi-function, easy to use

Speech, sign-in, voting, simultaneous interpretation, video call, video display, multi-channel video on demand, multi-channel video broadcasting, conference document management, speech text guidance, web browsing, photographing, short messages reader, call service, etc.



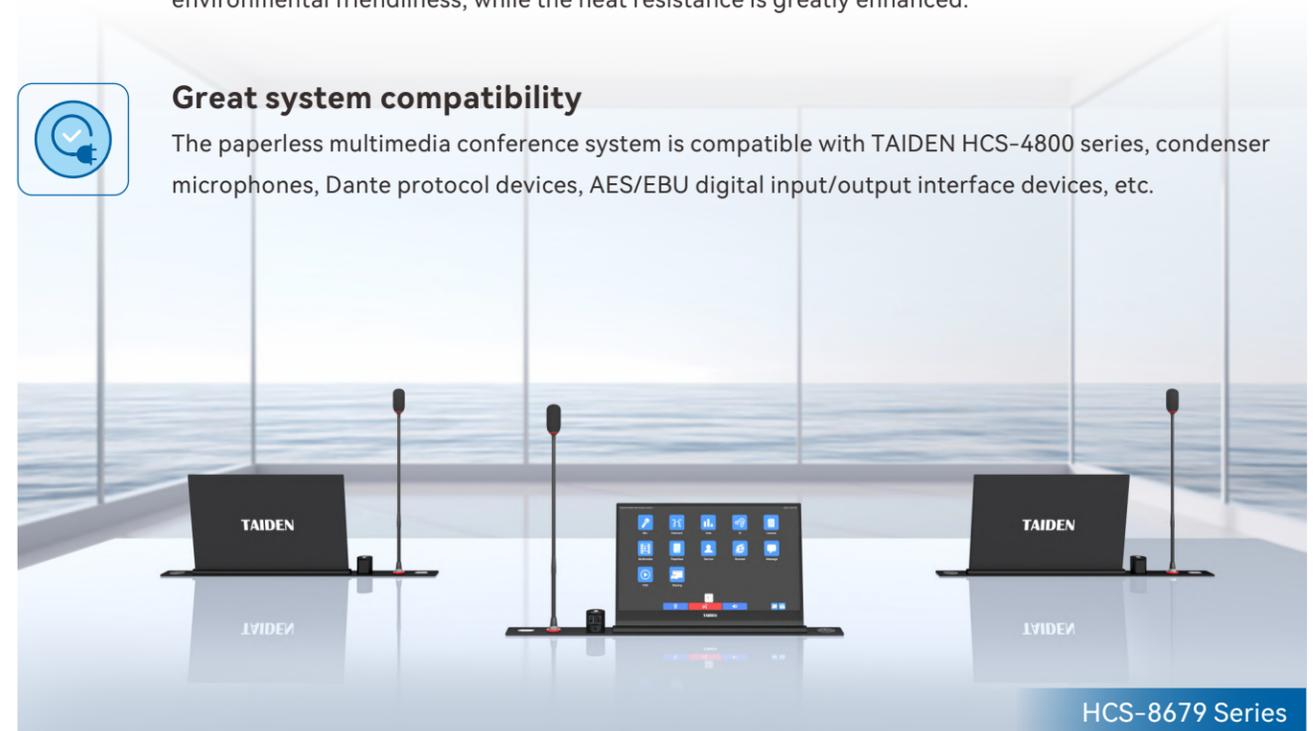
## Low power consumption, energy saving and environmental friendly

Designed for high-end conferences and the power of each unit is less than 15W. The power consumption is about 5%~10% of the X86 system. The design fully reflects the concept of environmental friendliness, while the heat resistance is greatly enhanced.

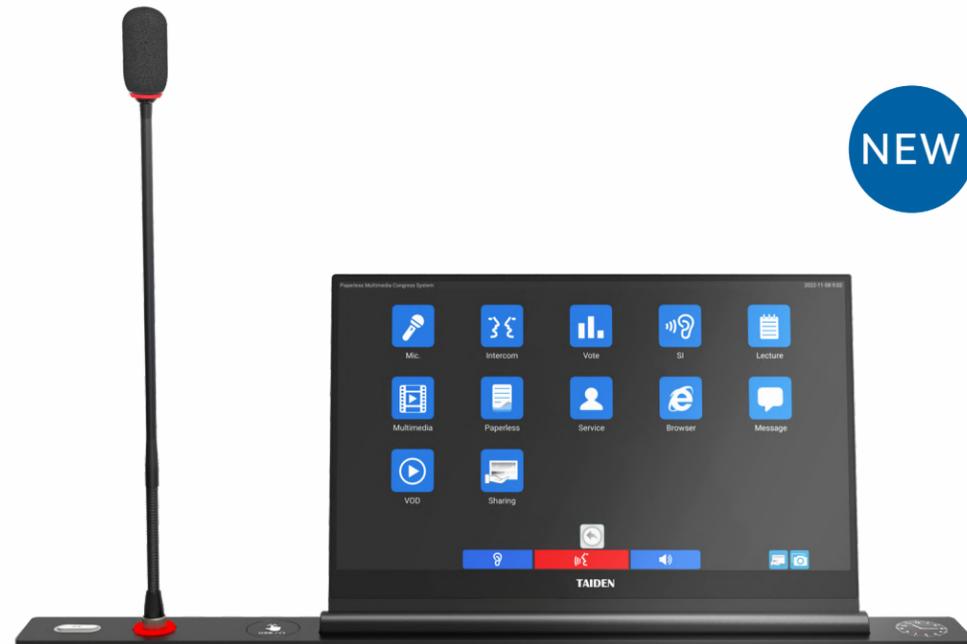


## Great system compatibility

The paperless multimedia conference system is compatible with TAIDEN HCS-4800 series, condenser microphones, Dante protocol devices, AES/EBU digital input/output interface devices, etc.



## HCS-8679 Series Retractable Paperless Multimedia Congress Terminal



HCS-8679 Series  
(15.6" touch panel)

### Features

- 15.6" 2560×1440 HD LCD touch panel
- Frosted glass, eyes protection, non-reflective, anti-fingerprint
- Retractable screen design, auto on/off
- Microphone stem can be lifted or lowered independently for perfect storage
- Speech, voting, 64 CHs simultaneous interpretation and all channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Equipped with 1.3 inch touch screen, retractable controllable, language switchable
- Supports active stylus HCS-8679PEN
- Automatic video tracking in cooperation with HD cameras and video switchers

## HCS-8669 Series Paperless Multimedia Congress Terminal



HCS-8669 Series  
(14" touch panel)

### Features

- Modular design, flexible combination on demand
- 14" 1920×1080 HD LCD touch panel
- Capacitive touch panel supporting multi-touch, improves operation experience
- Optional 5 megapixel magnetic suction camera, one touch connection, easy to operate (HCS-8669CAM)
- Speech, voting, 64 CHs simultaneous interpretation and all channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active (HCS-8669VSE, HCS-8669SPK)
- Video call: delegate can make video call on the paperless terminal one-by-one in the system, or realized remote video conference by video server (HCS-8669CAM)

## HCS-8668 & HCS-8638 Series Tabletop Paperless Multimedia Congress Terminal



HCS-8668 Series  
(14" touch panel)



HCS-8638 Series  
(10" touch panel)

## HCS-8665 Series Compact Multimedia Congress Terminal



HCS-8665 Series (14")



HCS-8665MON Multi-Channel Video Monitor  
(14")

### Features

- High-definition TFT LCD touch panel supporting multi-touch, offering better paperless event experience
- Display resolution:
  - 14" 1920×1080 (HCS-8668 series)
  - 10" 1920×1200 (HCS-8638 series)
- 8-megapixel camera with flashlight
- Up to 64 CHs of simultaneous interpretation and all channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- USB connection to TAIDEN HCS-1082 Series E-ink Electronic Nameplate
- Versatile and quick identification: fingerprint reader, built-in RFID card reader
- Tactile buttons and braille indication offering greater feedback and accessibility
- Dual-microphone congress terminal (HCS-8668BDD)
- PoE or DC power supply

### Features

- Stylish and ergonomic design
- 14" 1920×1080 TFT LCD
- Speech, voting, 64 CHs simultaneous interpretation and all channels audio frequencies between 20 Hz and 20 kHz
- USB connection to TAIDEN HCS-1082 Series E-ink Electronic Nameplate
- Tactile buttons and braille indication offering greater feedback and accessibility
- Automatic video tracking in cooperation with HD cameras and video switchers
- One HDMI port offering high-definition digital video display
- Built-in RFID card reader
- Power over Ethernet

## HCS-8635 Series Compact Multimedia Congress Terminal

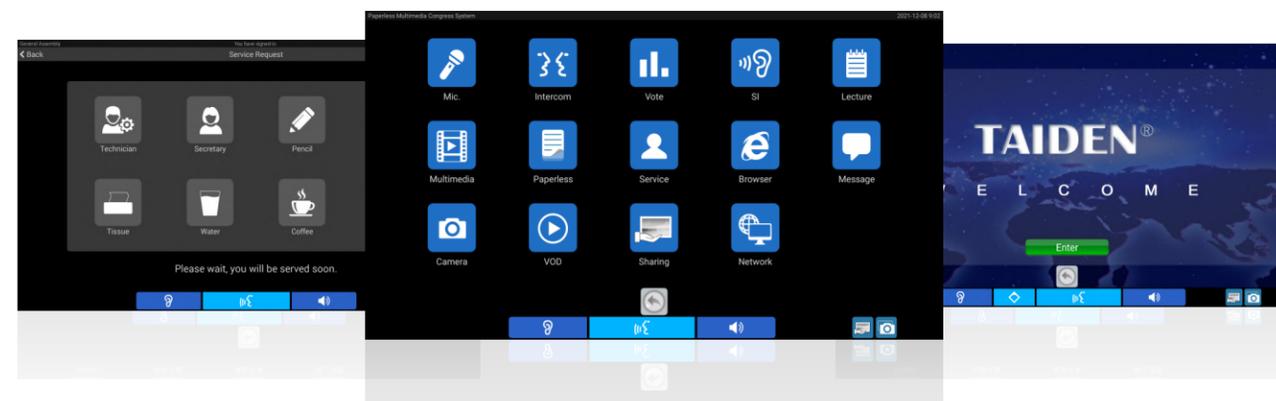


HCS-8635 Series (10")

### Features

- Stylish and ergonomic design
- 10" 1280×800 TFT LCD
- Speech, voting, 64 CHs simultaneous interpretation and all channels audio frequencies reach between 20 Hz and 20 kHz
- Tactile buttons and braille indication offering greater feedback and accessibility
- Automatic video tracking in cooperation with HD cameras and video switchers
- High-definition digital video display
- Video signal transmission on a coaxial-cable, latency lower than 20 μs
- Built-in RFID card reader
- Using Cat5e cable with a drain wire for "Closed Loop- Daisy Chain" connection

## Paperless Multimedia Conference System Software



### Interactive Meeting Management

Speech	• Viewing room layout, speaker list, request-to-speak list, etc
Sign-in	• Key-press sign-in, fingerprint sign-in or RFID card sign-in
Voting	• Viewing voting proposals, various forms of voting, etc
Simultaneous interpretation	• Change the language, adjust the headset volume, etc

### Paperless Conference

Conference documents management	• Download/upload/delete file, right for conference document management
Conference documents reader	• Conference documents reader and editor with authorized software license, supports a variety of input methods
Speech text guidance	• Automatic or manual speech guidance with configurable speed, font size and color
Meeting record	• Note taking and saving on the built-in electronic notebook
Desktop sharing	• Documents issued by this congress terminal can be displayed on large hall screens and other congress terminals to realize ad hoc reporting
Web browsing	• Browse information via the internet
Other	• Delegate information and seating display, conference agenda display, photographing, delegate photo for attendance check and record facility on important conferences

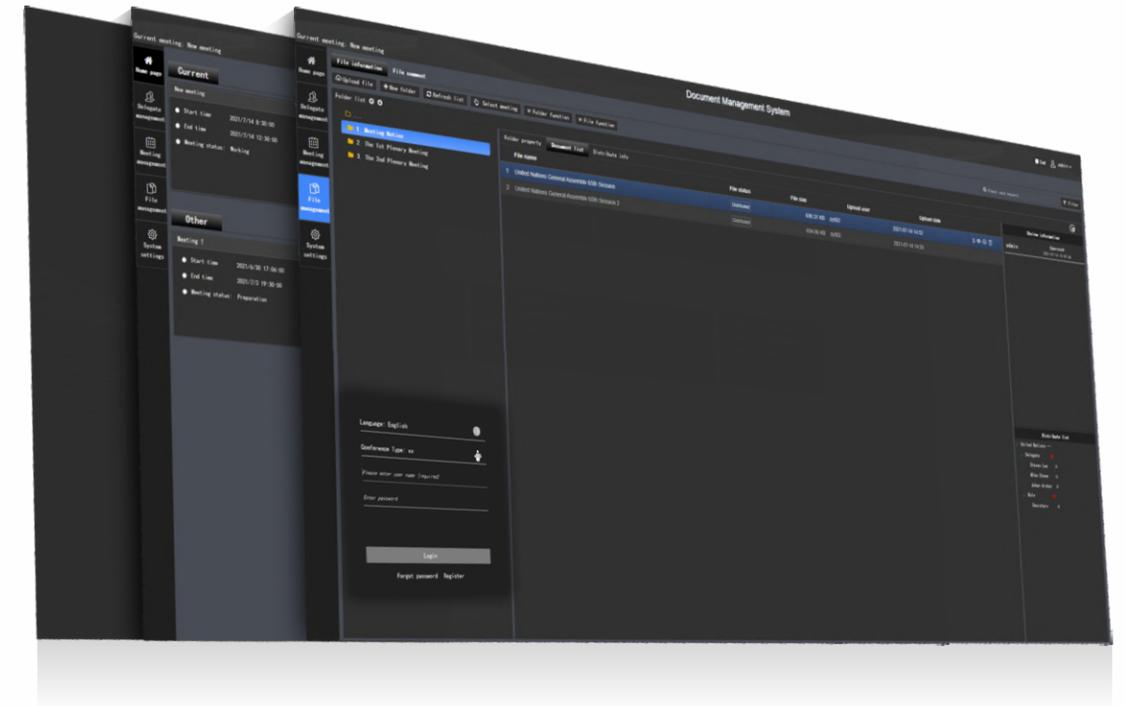
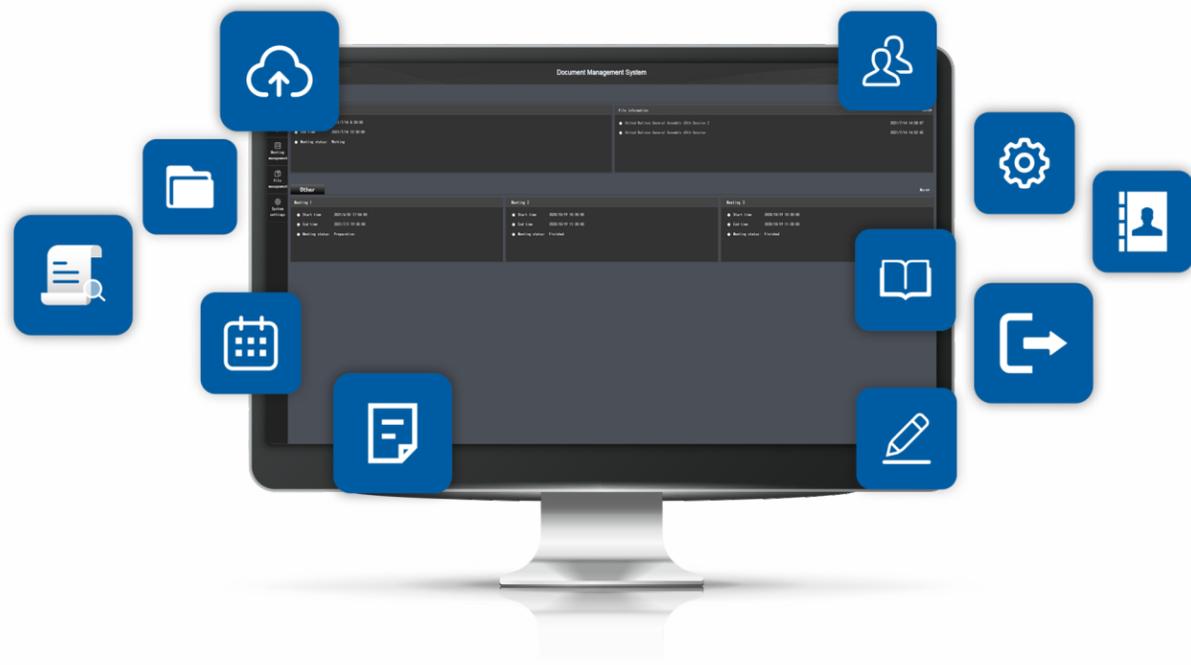
### Multiform Video Service

Ingenious video conversation	• Any two conference terminals in the system can hold video chats, or remote video conferences can be implemented using the video server
Multiple channel video broadcasting	• Various video sources from such as HD camera, cable TV or video tape can be broadcasting high definition synchronously to all congress terminals
Multi-channel video on demand	• Multichannel video on demand (up to 10 channels)
Video display	• The large hall screen can be displayed on the congress terminals through video encoder and video server • Video commercials can be published on video server and watched on congress terminals • Video file playback either from congress terminal or from USB disk

### Conference Service

Short messages reader and editor	• Send short messages to the specified congress terminal
Call service and call secretary	• Messages can be sent to the backstage meeting service personnel, such as replenishing tea, providing pens and paper

## Document Management Software



The conference document management software installed on the conference document management server can be used to classify and manage documents of different meetings and topics. The approved and distributed documents can be viewed and annotated by attendees on their multimedia congress terminals or mobile terminals.

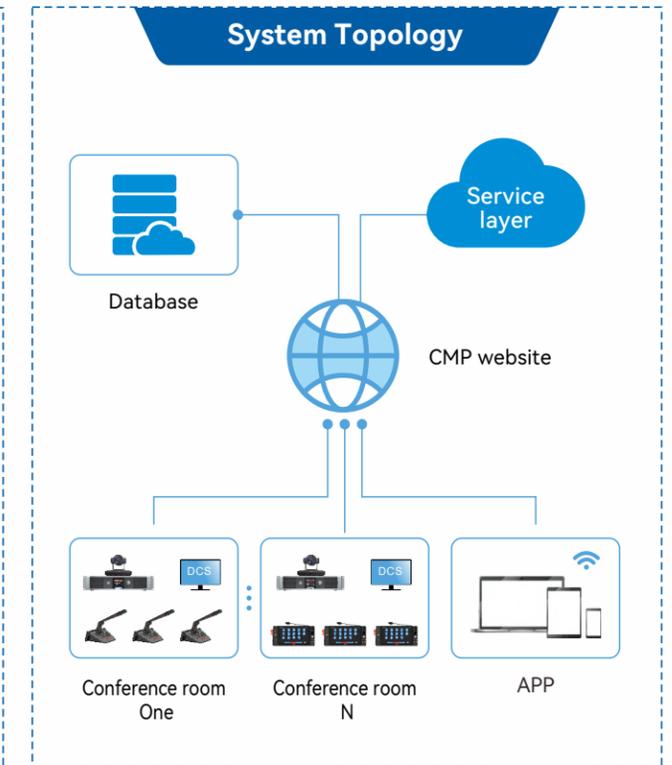
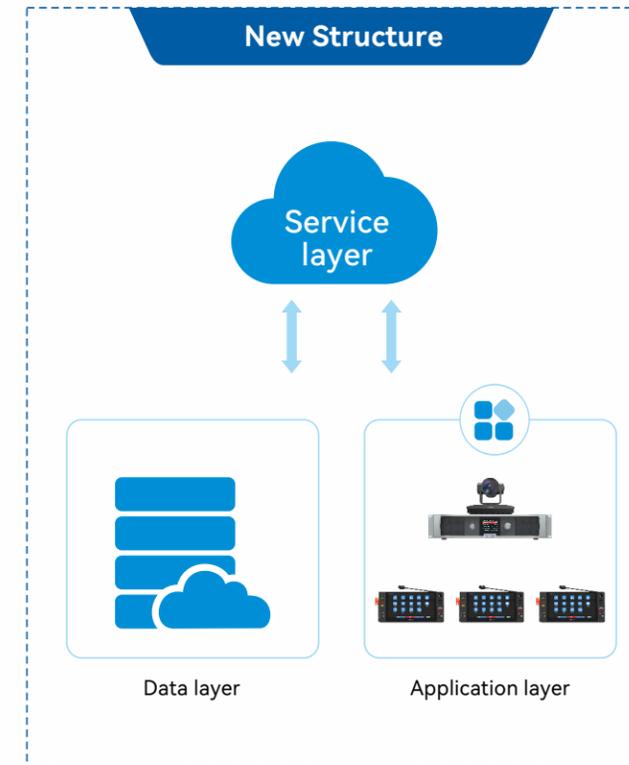
- **Home page:** display all meeting information, topic of current meeting and related documents
- **Personnel management:** establish a personnel database and manage relevant information. Attendees can download and log into the Conference Document Management Application to view meeting documents
- **Meeting management:** add, delete, edit meeting information and select to set the current meeting
- **Document management:**
  - ♦ Document information: manage conference documents, including document uploading, examination, distribution, etc.
  - ♦ Console: the operator sends information to all terminals, controls all terminals to open the same document at the same time
  - ♦ Annotated document management: to view uploaded annotated documents from the participants, as well as delete and export them
- **System settings:**
  - Reader devices:** view and manage reading devices
  - Parameter settings:** define a title to be displayed on the login page, update the reader license, upload to the APP for mobile terminals to scan and download the configuration
  - User information:** manage users and set user names, passwords and roles
  - User roles:** manage user roles and assign corresponding permissions to user roles
  - APP Personalization:** user-defined APP interface



## Conference Document Management Application

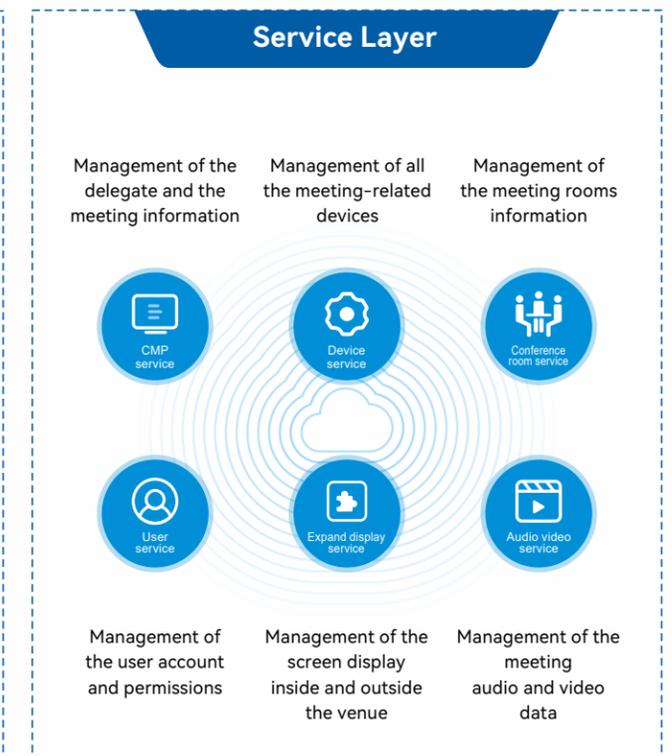
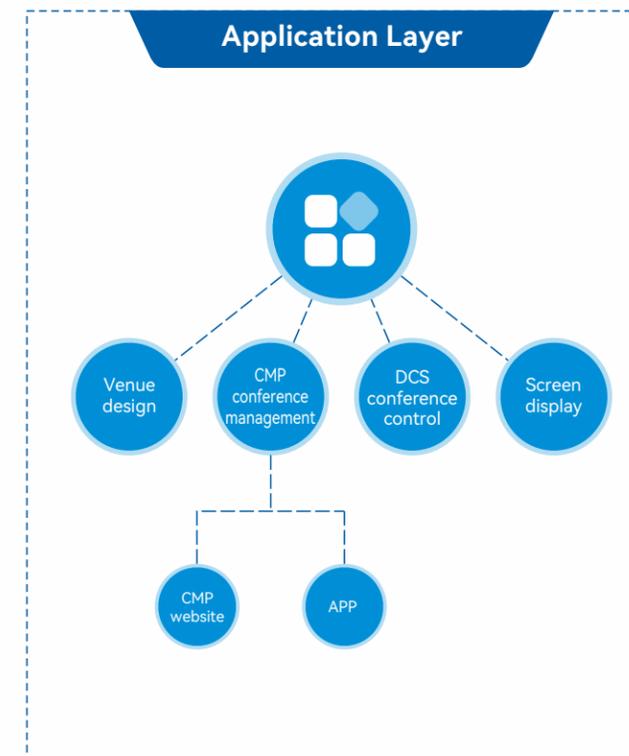
Conference Document Management Application is installed on the portable terminal to work with the Document Management System Software. After installation, users can log in on their portable terminals to view conference documents distributed by the Document Management System Software, annotate the documents, and then upload them to the System.

# New Generation Conference Management Platform

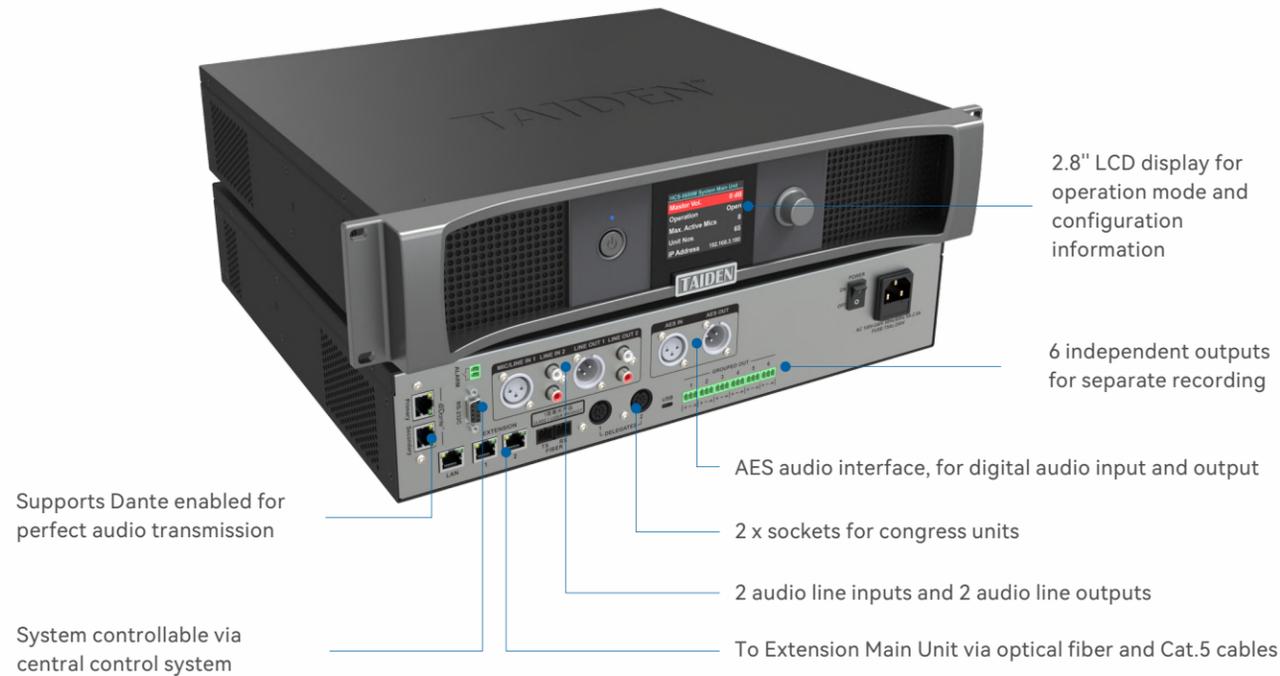


## Features

- Centralized management of conference rooms and allocation of the devices
- More reliable and secure with data saved on the server
- Simple and intuitive interface with higher interactivity
- Available and operable on various devices (PC, mobile, tablet, etc.)
- Customizable user permissions, user-friendly
- Meeting notice can be send to inform attendees when connected to internal email system
- Procedures of agenda can be preset and automatically proceeded to realize intelligent control during the meeting
- Conference video and audio can be streamed to public network for live broadcasting
- Customization: convenient for user to further develop and expand its application function because of the open structure of the service-side interface



# HCS-8600M Series Fully Digital Congress System Main Unit



Supports Dante enabled for perfect audio transmission

System controllable via central control system

2.8" LCD display for operation mode and configuration information

6 independent outputs for separate recording

AES audio interface, for digital audio input and output

2 x sockets for congress units

2 audio line inputs and 2 audio line outputs

To Extension Main Unit via optical fiber and Cat.5 cables

## HCS-8600 Series Congress Main Units Function List

Type No.	Speech	Voting	LCD	64CHs	Mic. Group Output	Optical Fiber Interface	Dante Interface	AES/EBU Interface	HDMI Interface	USB Audio Recording	Alarm interface
HCS-8600MA/20	•	•	•	•	•	•	•	•			•
HCS-8600MBU/20	•	•	•	•	•	•			•	•	•
HCS-8600MB/20	•	•	•	•	•	•					•

## Features

- Compliant with ISO 22259
- Based on TAIDEN patented MCA-STREAM digital audio processing and transmission technology. All AV signals are transmitted through a Cat.6 cable, ensuring the real-time performance and stability of important data streams such as conference audio, voting and control information.
- Based on ingenious CongressMatrix™ technology, integrated (n+8) ×26 audio matrix processor; 26 discrete audio outputs, including:
  - 2 x Line/AES audio output, 6 channels group output, 2 x USB output, 16 channels Dante output
- Connectable to a multi channel independent PA system. Each channel is supplied with its individual audio signal. The audio signal of each microphone can be routed to any speaker at any ratio, thus “N-1” function is realized easily, hence avoiding acoustic feedback (howling) when audio transmission gain is increased
- Different audio configuration saving, enabling and switching
- Three audio modes for selection: normal mode, teleconferencing mode and external processor mode
- Embedded high performance DSP for audio signal processing, supporting 48 kHz audio sampling rate. 64 audio channels, each with a 20 Hz to 20 kHz frequency response for perfect sound quality
- Dual server hot spare structure: another congress main unit is set as backup and takes over automatically if the precedent main unit fails
- Connectable to multi-channel audio input or output devices for versatile expansion of the system
- System expansion realized through additional Congress Extension Main Units:
  - 4096 discussion or voting units
  - 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
  - Any quantity of channel selectors
- Increased reliability with “Closed Loop - Daisy Chain” connection topology. Breakdown or change of congress units and connection failure of a cable will not influence other units
- 64 (1+63) channels simultaneous interpretation function. And cooperation with channel selectors or the infrared language distribution system enables a larger audience to follow the conference
- Without a PC or operator, the system is able to perform basic meeting functions of speech, voting (yes/no/abstain) and 1+63 channel simultaneous interpretation
- By installing different software modules, more comprehensive meeting management can be implemented, such as microphone management, multi-form voting, etc.
- If the PC breaks down, Congress Main Unit enters the stand-alone state automatically, performing basic conference control, ensuring consistency of the conference
- Automatic camera tracking in cooperation with peripheral equipment, as well as centralized network management and other functions

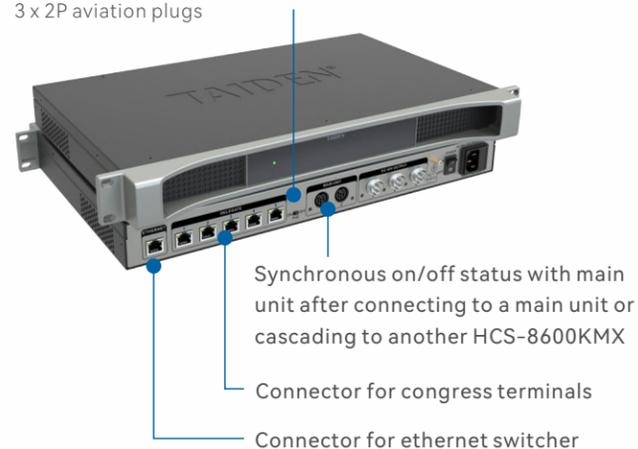
## System Spec

Frequency response	20 ~ 20000 Hz	SNR	≥100 dBA
Dynamic range	≥94 dB	Isolation	≥90 dB
THD	≤0.05 %	LINE IN 1	+10 dBu, BAL.
AES IN	XLR 1FFS	LINE IN 2	+10 dBu, UNBAL.
LINE OUT 1	+20 dBu, BAL.	LINE OUT 2	+20 dBu, UNBAL.
AES OUT	XLR 1FFS	GROUP OUT (1-6)	+20 dBu, BAL.

## HCS-8600KMX Congress Gigabit Network Switcher

- 1 × RJ45 port for connection with standard network switcher
- 5 × RJ45 standard port for connection with HCS-8668/8638/8669/8679 Series Paperless Terminals
- 2 × 8P-DIN interface for connection with the Congress Main Unit (for sync power on/off) or cascading to another HCS-8600KMX (equipped with CBL8PP-02 -2-meter 8-pin extension cable with two plugs)
- 3 × 2P aviation plug for supplying power to HCS-8668/8638/8669 Series Paperless Terminal (equipped with CBL4PK-01CMP - 1-meter power)

**PoE switch to choose way of power supply**  
 ON: connecting DELEGATE port to congress terminals or HCS-8368T/50 Distributor for power supply and transmission of control data and multimedia data  
 OFF: DELEGATE port supporting daisy-chain connection to Paperless Multimedia Congress Terminals with power supply via 3 x 2P aviation plugs



## HCS-8368T/50 Distributor

- Extension of congress terminal in PoE mode
- Input port for connection with HCS-8600KMX or HCS-8600POE
- Output port for connection with HCS-8668/8638/8669/8665 series congress terminal or HCS-1082N series nameplate on each port  
If five or more output ports are used, please connect to external power adapter

HCS-8368T/50 is used for extension of congress terminal in PoE mode

7 × RJ45 standard port for connection with HCS-8638/8668/8669/8665 congress terminals and HCS-1082N series nameplate on each port



For connection with HCS-8600KMX or HCS-8600POE

DC power socket for external power supply to guarantee stability signal transmission

## HCS-8600MIO Series Audio Input & Output Device

- For extension of audio inputs and outputs
- Multiple digital/analog channels output, for connection with infrared simultaneous interpretation system or recording device
- Connection with third party condenser/dynamic microphones, provides more options



## HCS-8600POE Congress PoE Network Switcher

- KMX mode: connecting the DELEGATE port to HCS-8668/8638/8669 series congress terminals, PoE power supply
- Normal mode: connecting to HCS-8665 series congress terminals or HCS-1082N series nameplates



## HCS-8600MEA Series Congress Extension Main Unit

- Allows for system capacity extension when used together with HCS-8600M series or HCS-4800M series



## HCS-8316HDMI Encoder

- For encoding and transmitting HD video signal (720p/1080i/1080p)



## Function List

Type No.	HCS-8679 Series	HCS-8669 Series	HCS-8668 Series	HCS-8638 Series	HCS-8665 Series	HCS-8635 Series
Speech	•	Optional	•	•	•	•
RFID card sign-in			•	•	•	•
Fingerprint reader			•	•		
Vote	•	•	•	•	•	•
64 CHs SI	•	•	•	•	•	•
Conference documents management	•	•	•	•		
Speech text guidance	•	•	•	•		
Conference documents reader	•	•	•	•		
Memorandum	•	•	•	•		
Desktop sharing	•	•	•	•		
Internet access	•	•	•	•		
Delegate information	•	•	•	•		
Conference agenda display	•	•	•	•		
Photo		Optional	•	•		
Video conversation		Optional	•	•		
Video display	•	•	•	•	•	•
Multiple channel VOD	•	•	•	•		
Multiple channel video broadcasting	•	•	•	•		
Message	•	•	•	•		•
Call for service	•	•	•	•		
Mounting	Retractable	Combinatorial Tabletop	Tabletop	Tabletop	Tabletop	Tabletop
E-ink nameplate connection	•	•	•	•	•	•

## Technical Specifications

	HCS-8679 Series	HCS-8669 Series	HCS-8668 Series	HCS-8665 Series	HCS-8638 Series	HCS-8635 Series	
LCD	Dimension	15.6", 16:9 Touch screen	14", 16:9 Touch screen	14", 16:9 Touch screen	14", 16:9	10", 16:10 Touch screen	
	Resolution	2560×1440	1920×1080	1920×1080	1920×1080	1920×1080	
	Display color depth	24 bit	18 bit	18 bit	18 bit	24 bit	
	Contrast	1000:1	800:1	800:1	800:1	1000:1	
Headphone	Earphone load impedance	≥16 Ω					
	Earphone output	13 mW					
	Earphone jack	Ø 3.5 mm stereo headphone jack					
Other Characteristics	Max. consumption	–	14 W	14 W	14 W	10 W	
	Connection	1000 M Gigabit ethernet interface				Close loop-daisy chain connection	
	Color	Black (PANTONE 419 C)					
	Dimensions (h×w×d) mm	695×680×50	HCS-8669DM: 348×147×200	447×123×194	447×123×194	360×110×155	360×110×155
			HCS-8669AC: 88×122×200				
			HCS-8669VS: 88×122×200				
			HCS-8669CAM: 100×13×36				
	Weight	13 kg	HCS-8669DM: 2.4 kg	2.5 kg	2.5 kg	1.7 kg	1.7 kg
			HCS-8669AC: 0.2 kg				
			HCS-8669VS: 0.2 kg				
HCS-8669CAM: 0.1kg							
		HCS-8669SPK: 0.2 kg					