

# TAIDEN®

## Paperless Multimedia Congress System



*Excellent solutions for conferences*

# PAPERLESS MULTIMEDIA CONGRESS SYSTEM

The world's first 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.

Now the fourth generation of TAIDEN paperless multimedia congress system has come beyond expectations, with additions including upgraded look, biometric and RFID card identification of conference attendees, tactile buttons and braille indication, all offering peerless user experience.

**Higher definition paperless experience**  
**More convenient and budget-conscious integration**  
**Simpler installation and management**  
**Greater system reliability and security**





## FEATURES

Stylish and ergonomic 14" (1920×1080) ultra-thin capacitive touch panel

All-in-one paperless event experience including document reading, HD video watching, interactive meeting management (discussion, voting, interpretation) and meeting service

Proprietary mMediaCongress platform ensuring system reliability and safety

Superb audio intelligibility reproducing audio frequency between 30 Hz and 20 kHz

Versatile and quick identification: fingerprint reader, built-in RFID card reader

Tactile buttons and braille indication offering greater feedback and accessibility

TAIDEN's patented MCA-STREAM digital audio processing and transmission technology used between conference units as well as between conference terminals and main unit(s)

8-megapixel camera with flashlight, ingenious video intercom function

Each conference unit bearing a unique serial number can be assigned an ID by default or manually for convenient maintenance

Easy integration with peripheral devices for automatic video tracking, network central control and input of alarm signal, etc.

PoE or DC power supply

# TABLETOP PAPERLESS MULTIMEDIA CONGRESS TERMINAL

## FEATURES

- High-definition TFT LCD touch panel supporting multi-touch, offering better paperless event experience
- Display resolution:
  - 1920×1080 for HCS-8668 series
  - 1920×1200 for HCS-8638 series
- 8-megapixel camera with flashlight
- Up to 64 channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 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
- Dimensions (h × w × d, mm, w/o microphone):
  - 194×447×123 (HCS-8668 series)
  - 155×360×110 (HCS-8638 series)
- Weight: 2.5 kg (HCS-8668 series)  
1.7 kg (HCS-8638 series)



HCS-8638 Series  
(10" touch panel)



HCS-8668 Series  
(14" touch panel)



HCS-8668BDD  
(14" touch panel)

# RETRACTABLE PAPERLESS MULTIMEDIA CONGRESS TERMINAL

## FEATURES

- 15.6" 1920×1080 HD LCD touch panel
- All aluminum body with CNC engraving, presenting a exquisite and elegant look
- Retractable screen design, auto on/off
- Screen automatically tilts when raised, with adjustable angle
- Mic. stem can be lifted or lowered independently for perfect storage
- HCS-8678BX control box is needed
- Capacitive touch screen supporting multi-touch, improving operating experience
- Screen automatically enters power-saving mode



HCS-8678B Series  
(15.6" touch panel)



# COMPACT MULTIMEDIA CONGRESS TERMINAL

## HCS-8665 Series



HCS-8665 Series  
Compact Multimedia Congress Terminal



HCS-8665MON  
Multi-Channel Video Monitor

## FEATURES

- Stylish and ergonomic design
- 14" TFT LCD (1920×1080)
- Speech, voting and 64CHs simultaneous interpretation. All channels audio frequencies reach between 30 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
- Microphone stem length: 330mm (standard version), 410mm and 470mm
- Dimensions (h × w × d, mm, w/o microphone): 194×447×123
- Weight: 2.5 kg



# COMPACT MULTIMEDIA CONGRESS TERMINAL

## HCS-8635 Series



HCS-8635D  
Compact Multimedia Congress Terminal

## FEATURES

Stylish and ergonomic design

10" TFT LCD (1280×800)

Speech, voting and 64CHs simultaneous interpretation. All channels audio frequencies reach between 30 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  $\mu$ s

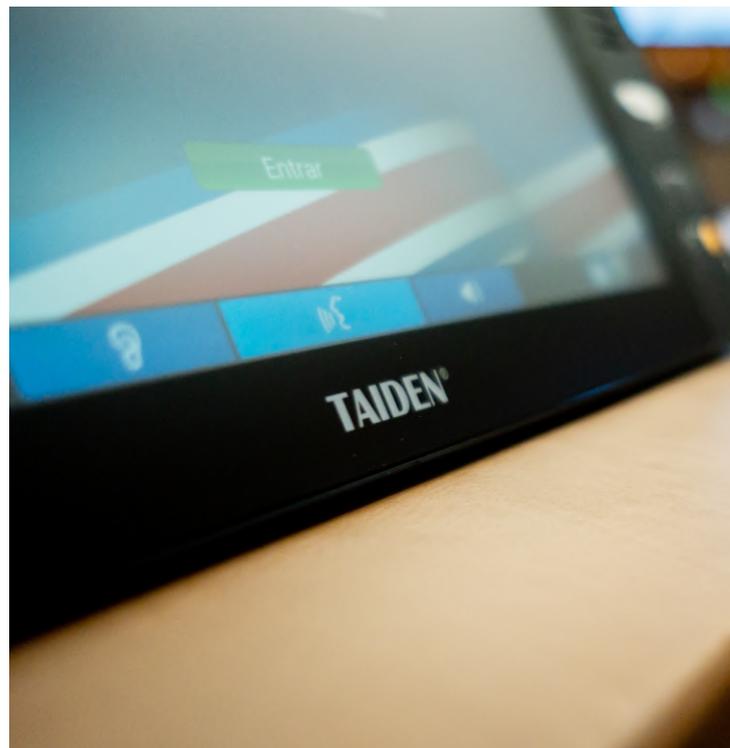
Built-in RFID card reader

Using Cat5e cable with a drain wire for "Closed Loop- Daisy Chain" connection

Microphone stem length: 330mm (standard version), 410mm and 470mm

Dimensions (h × w × d, mm, w/o microphone): 155×360×110

Weight: 1.7 kg





# INTERACTIVE MEETING MANAGEMENT



## Microphone Control

Viewing room layout and speaker list; control of operation mode, number of active microphone and mic statuses including On/Off, Request-to-Speak and blinking.



## Sign-in & Voting

Versatile and quick sign-in by tactile buttons, fingerprint reader or built-in RFID card reader. Voting function will be available only after sign-in. Various forms of voting and voting on proposals for archiving and confirming delegates. View of proposal list, control of voting process, display of voting result and list of voters for disclosed ballot are available on congress terminals with voting control function.



# PAPERLESS CONFERENCE FUNCTIONS



- Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
- Speech text guidance: speed, font size and font colors configurable by user
- Delegate information and conference agenda display
- Desktop sharing: documents issued by this Congress Terminal can be displayed on large hall screens and other Congress Terminals to realize ad-hoc reporting
- Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- Delegate information and conference agenda display
- Conference agenda display
- Image file reader and photographing
- Delegate photo for attendance check and record facility on important conferences
- Short messages reader and editor



## MULTIFORM VIDEO SERVICE

Ingenious video conversation function  
Multiple channel video broadcasting  
Multi-channel video on demand



## CONFERENCE SERVICE

A service request will bring up a prompt box on the software, double click to view the request details and its initiator's seat.

- Call service and call secretary



## WEB BROWSING

Open the Web browser with a touch on the icon and search for documents or browse information via the internet or the LAN



## CHAIRMAN CONTROL

Priorities on Chairman Unit:

Activation of any microphone at any time

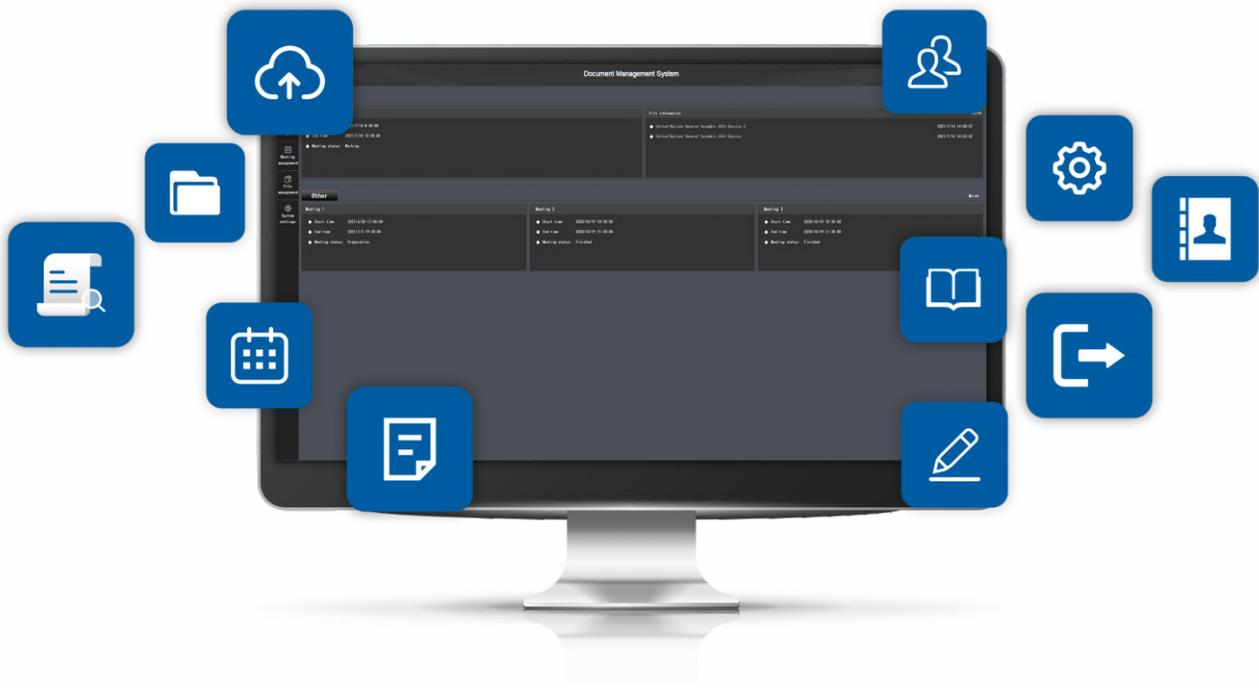
Priority button to switch off or mute the speaking delegate units (except VIP units )

Approves/denies delegate speaking request(s) without a PC

Launch of parliamentary voting session (YES/NO/ABSTAIN) without a PC

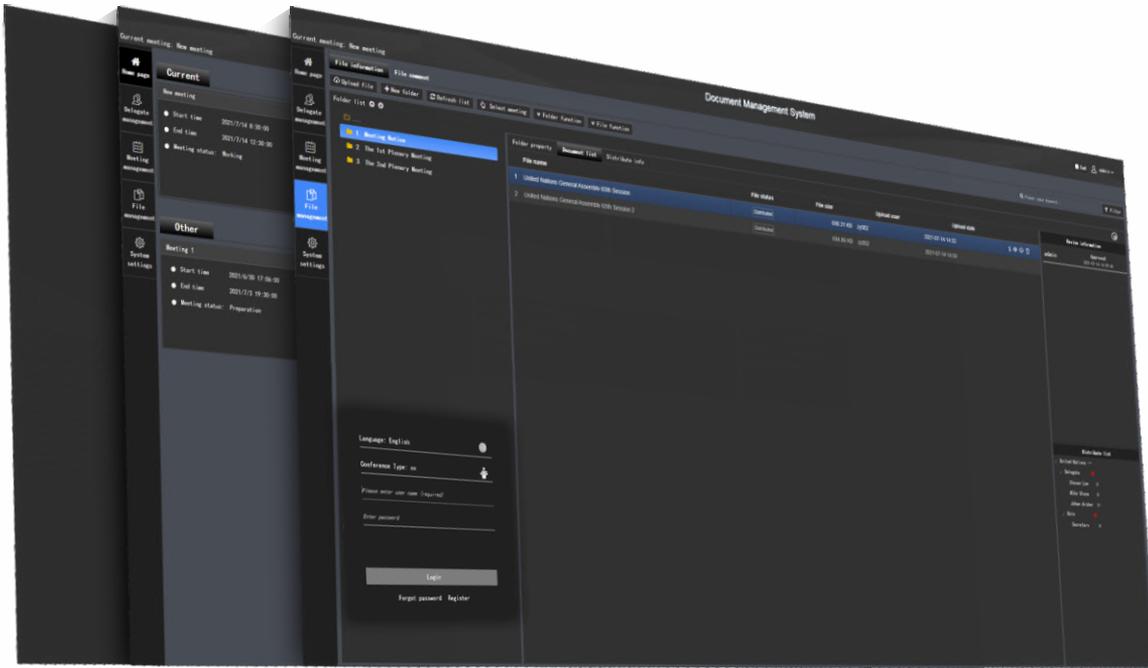


# DOCUMENT MANAGEMENT SOFTWARE



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

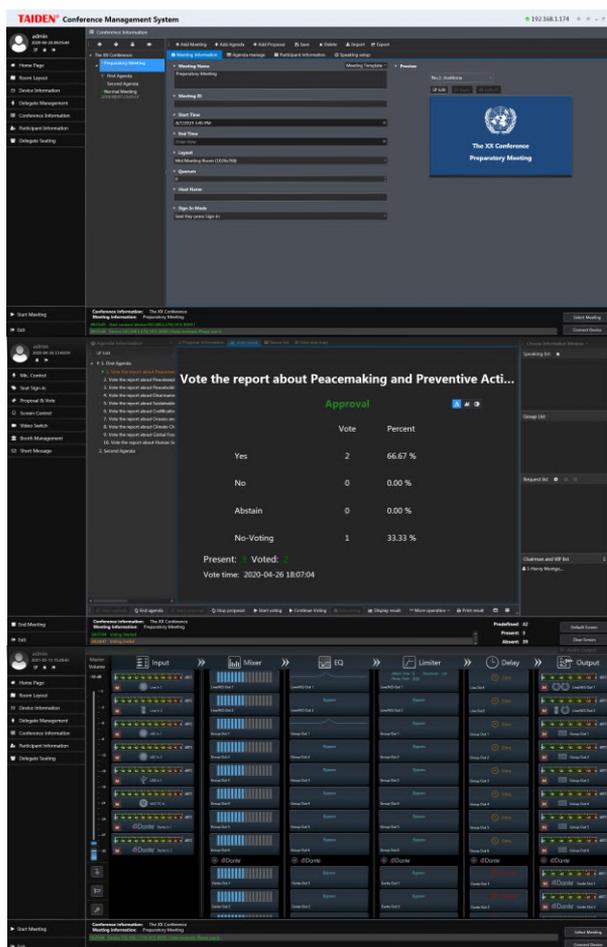
Conference Document Management Application is installed on the portable terminal to work with the Document Management System Software. After installation, users can log in on their portable terminals to view conference documents distributed by the Document Management System Software, annotate the documents,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

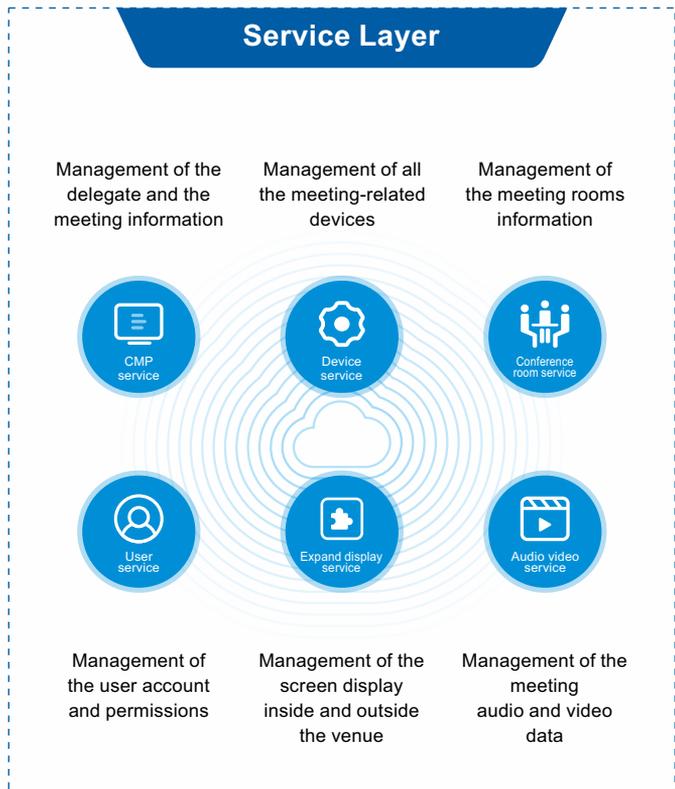
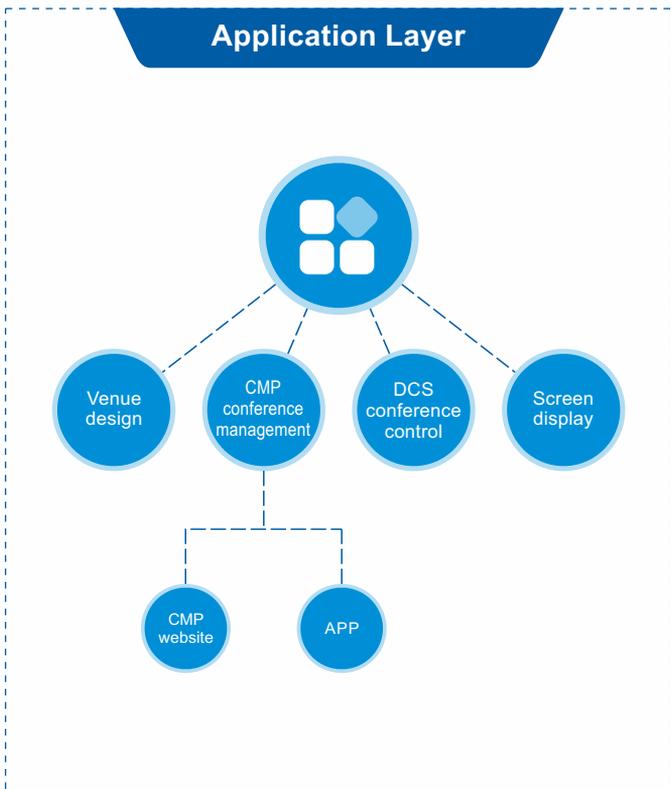
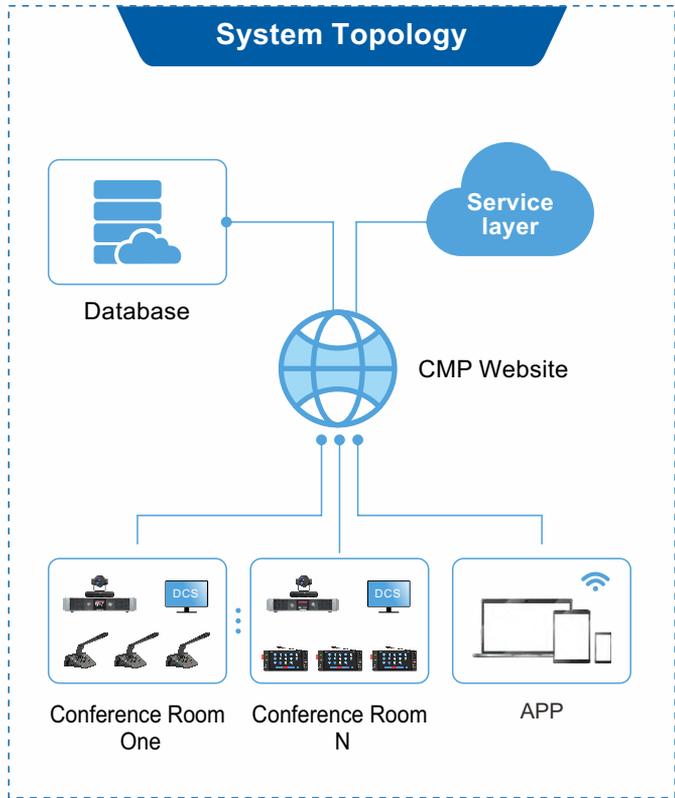
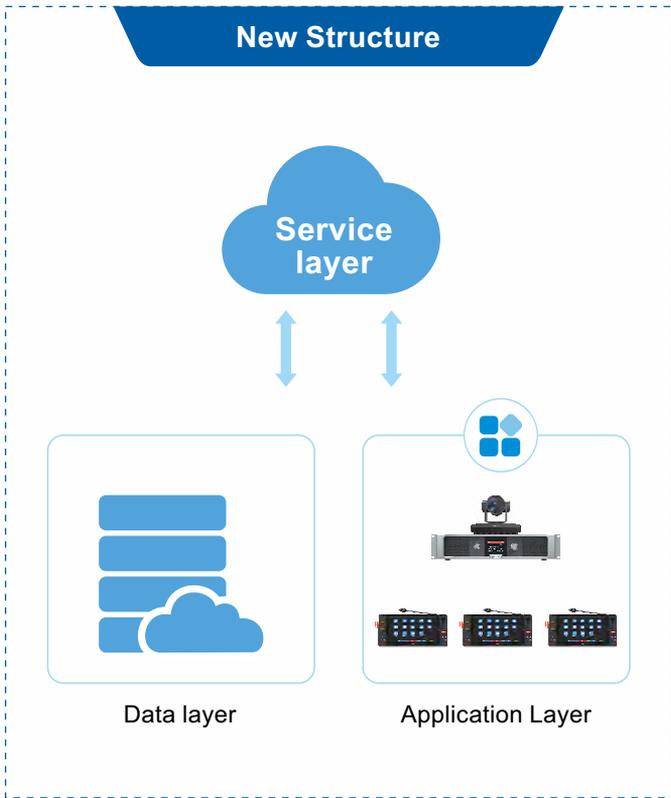
# NEW GENERATION CONFERENCE MANAGEMENT PLATFORM



## 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, more 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: it's convenient for user to further develop and expand its application function because of the open structure of the service-side interface





# FULLY DIGITAL CONGRESS SYSTEM MAIN UNIT

## HCS-8600M Series



2.8" LCD display for operation mode and configuration information

6 independent outputs for separate recording

Supports Dante enabled for perfect audio transmission

System power controllable via central control system

2 x sockets for congress units

2 audio line inputs and 2 audio line outputs

Socket for Congress Main Unit and Extension Main Unit via optical fiber and Cat.5 cables

# CONGRESS MAIN UNITS FUNCTION LIST

## HCS-8600 & HCS-4800 Series

Type No.	Speech	Voting	LCD	64CHs	Mic. Group Output	Optical Fiber Interface	Dante Interface	AES/EBU Interface	HDMI Interface	USB Audio Recording	Power Amplifier
HCS-8600MA	•	•	•	•	•	•	•	•			
HCS-8600MBU	•	•	•	•	•	•			•	•	
HCS-8600MB	•	•	•	•	•	•					
HCS-4800MA	•	•	•	•		•					
HCS-4800MB	•	•	•								•
HCS-4800MC	•	•	•								

## FEATURES

Based on ingenious CongressMatrix™ technology, integrated (n+8)×26 audio matrix processor; 26 discrete audio outputs, including:

- ◆ 2 audio line in (Line/Dante) or [1 audio line in (Line/Dante)+ 1 microphone input (+48 V phantom powersupply+ 2 AES in (AES/Dante)+ 2 USB in (USB/Dante)+2 Dante in, gain and EQ for each input adjustable separately.
- ◆ 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 (up to 8 channels). 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

Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technology, Adopted fully digital audio transmitting technology between the main units and congress units

Embedded high performance DSP for audio signal processing, supporting 48 kHz audio sampling rate. 64 audio channels, each with a 30 Hz to 20 kHz frequency response for perfect sound quality

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.

Dual server hot spare structure: another congress main unit is set as backup and takes over automatically if the precedent main unit fails

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



# CONGRESS GIGABIT NETWORK SWITCHER

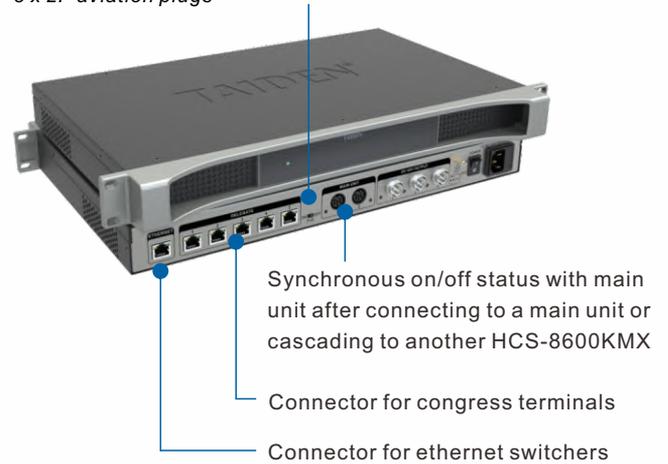
## HCS-8600KMx

- 1 × RJ45 port for connection with standard network switcher
- 5 × RJ45 standard port for connection with HCS-8668/8638 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 CBL8PPD-02 -2-meter 8-pin extension cable with two plugs)
- 3 × 2P aviation plug for supplying power to HCS-8668/8638 Series Paperless Terminal (equipped with CBL4PK-01CMP - 1-meter power adapter cable)

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*



## DISTRIBUTOR

### HCS-8368T/50

- Extension of congress terminal in PoE mode
- Input port for connection with HCS-8600KMx or HCS-8600POE
- output port for connection with HCS-8668/8665/8638 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-8668/8638/8665/8368 congress terminals and HCS-1082N series nameplate on each port



## AUDIO INPUT & OUTPUT DEVICE

### HCS-8600MIO Series

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



## CONGRESS POE NETWORK SWITCHER

### HCS-8600POE

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



## CONGRESS EXTENSION MAIN UNIT

### HCS-8600MEA Series

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



## ENCODER

### HCS-8316HDMI

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



# FUNCTION LIST

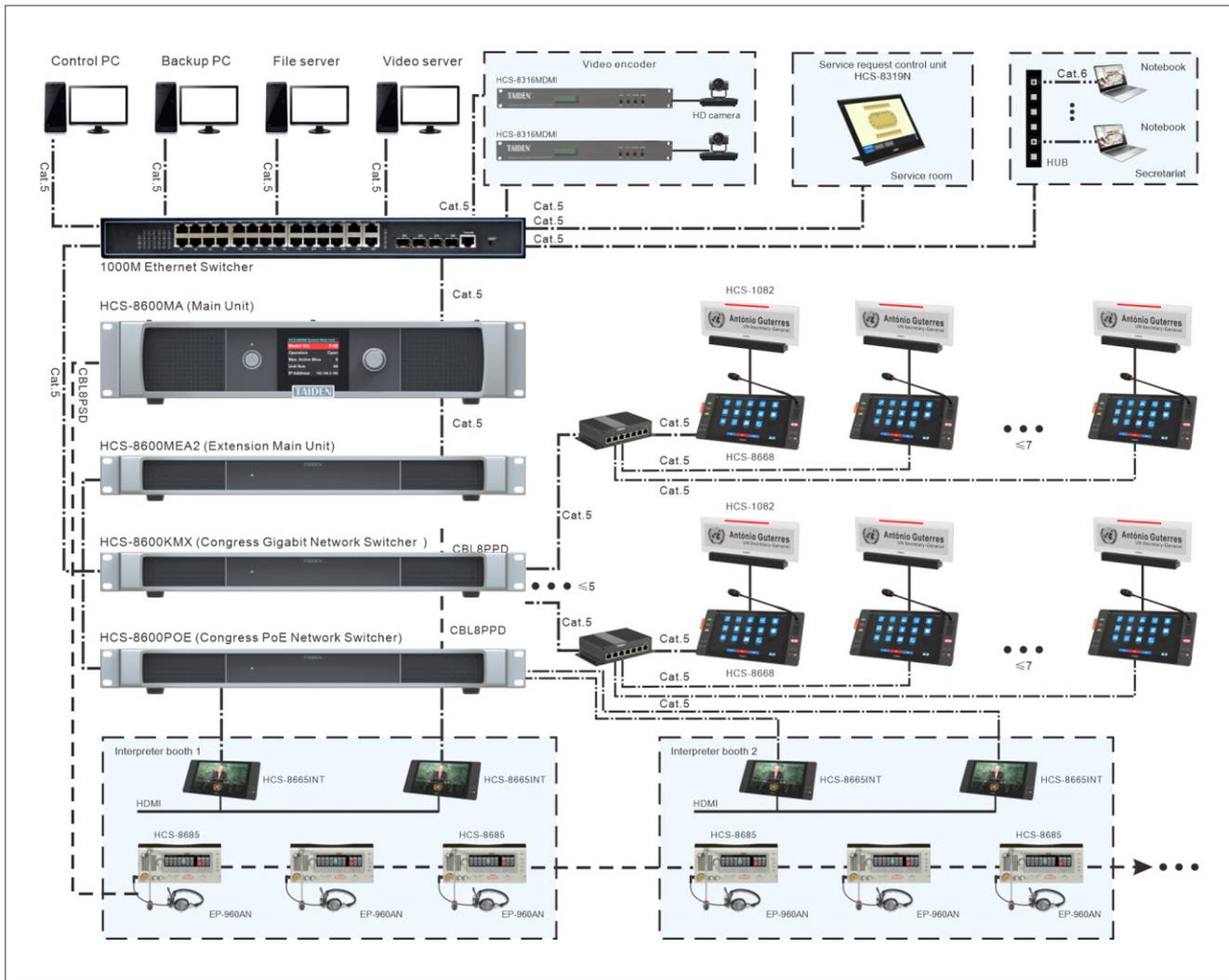
Type No.	HCS-8668 Series	HCS-8638 Series	HCS-8678 Series	HCS-8665 Series	HCS-8635 Series
Gooseneck microphone	●	●	●	●	●
Speech	●	●	●	●	●
IC card sign-in	●	●		●	●
Fingerprint reader	●	●			
Vote	●	●	●	●	●
64 CHs SI	●	●	●	●	●
Intercom	●	●	●		●
Conference documents management	●	●	●		
Speech text guidance	●	●	●		
Conference documents reader	●	●	●		
Memorandum	●	●	●		
Desktop sharing	●	●	●		
Internet access	●	●	●		
Delegate information and conference agenda display	●	●	●		
Photo	●	●			
Video conversation	●	●			
Video display	●	●	●	●	●
Multiple channel VOD	●	●	●		
Multiple channel video broadcasting	●	●	●		
Message	●	●	●		●
Call for service	●	●	●		
Mounting	Tabletop	Tabletop	Retractable	Tabletop	Tabletop
E-ink nameplate connection	●	●		●	



# TECHNICAL SPECIFICATIONS

Parameters		HCS-8668 Series	HCS-8665 Series	HCS-8678 Series	HCS-8638 Series	HCS-8635 Series
System Spec.	Frequency response	30 ~ 20000 Hz				
	SNR	≥100 dBA				
	Dynamic range	≥94 dB				
	Isolation	≥90 dB				
	THD	≤0.05 %				
	LINE IN 1	+10 dBu, BAL.				
	LINE IN 2	+10 dBu, UNBAL.				
	AES IN	XLR 1FFS				
	LINE OUT 1	+20 dBu, BAL.				
	LINE OUT 2	+20 dBu, UNBAL.				
	AES OUT	XLR 1FFS				
	GROUP OUT (1-6)	+20 dBu, BAL.				
LCD	Dimension	14", 16:9 Touch screen	14", 16:9	15.6", 16:9 Touch screen	10", 16:10 Touch screen	10", 16:10
	Resolution	1920×1080	1920×1080	1920×1080	1920×1200	1280×800
	Display color depth	18 bit	18 bit	18 bit	24 bit	18 bit
	Contrast	800:1	800:1	800:1	1000:1	500:1
Max. consumption		14 W	14 W	20 W	10 W	10 W
Earphone load impedance		≥16 Ω				
Earphone output		13 mW				
Earphone jack		2×Ø 3.5 mm stereo headphone jack				
Connection		1000 M Gigabit ethernet interface				Close loop-daisy chain connection
Color		Black (PANTONE 419 C)				
Dimensions (h×w×d) mm		447×123×194		555×70×651 (HCS-8678A) 491×70×651 (HCS-8678B) 430×70×651 (HCS-8678D)	360×110×155	
Weight		2.5 kg		10 kg (HCS-8678A) 9.7 kg (HCS-8678B) 9.5 kg (HCS-8678D)	1.7 kg	
Microphone	Sensitivity	-46 dBV/Pa				
	Frequency response	50 ~ 20000 Hz				
	Input impedance	2 kΩ				
	Directivity 0°/180°	≥20 dB (1 kHz)				
	Equivalent noise	20 dBA (SPL)				
	Maximum sound pressure level	125 dB (THD<3%)				

## Connection Diagram for Paperless Multimedia Congress System



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



CE certified (including EMC and Safety)  
Certificate No.: 2017NT02131443 2017NT02131444



FCC certified  
Certificate No.: 2017NT02131445

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