TAIDEN®

The G3 Paperless Multimedia Congress System

Standard Connection Diagram for
the G3 Paperless Multimedia Congress System

Control PC   Backup PC   File server   Video server   Video encoder   Service request control unit HCS-8319N

HCS-8316HDMI
TAIDEN   3316HDN
HCS-8316HDMI
TAIDEN
HCS-8316HDMI
TAIDEN

Cat.6   Notebook
Notebook
Service room   HUB   Secretariat

Cat.5   Cat.5   Cat.6   Cat.6   Cat.6   Cat.6   Cat.6   Cat.5
Cat.6
1000M Ethernet Switcher

HCS-8300MAD/FS/50 (Main Unit)   Cat.5
HCS-8301MD

TAIDEN   Digital Media Recorder For Congress
HCS-8368/50

Cat.6   48V Power   48V Power   48V Power
CBL6PS
HCS-8300KMX2
(Congress Gigabit Network Switcher)   CBL6PP   Cat.6
48V Power
TAIDEN

Interpreter booth 1   Interpreter booth 2

HCS-4385U/50   HCS-4385U/50   HCS-4385U/50   HCS-4385U/50   HCS-4385U/50   HCS-4385U/50

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

CE certificated
(including EMC and Safety)
Certificate No.: WT158003921, WT153004035

FCC certificated
Certificate No.: WT158003922

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

Distributed by:

Member of International Congress
& Convention Association (ICCA)

Excellent conferencing solutions

The G3 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 in 2016. The new system boasts of superb HD paperless experience, greater system reliability, budget-conscious integration of functions and convenient management with its ultra-thin design, larger capacitive touch screen and higher megapixel camera. Either tabletop or flush-mounted model provides its users with faster, more convenient and efficient operation experience.

Higher definition paperless experience

More convenient and budget-conscious integration

Simpler installation and management

Greater system reliability and security

Namibian Parliament
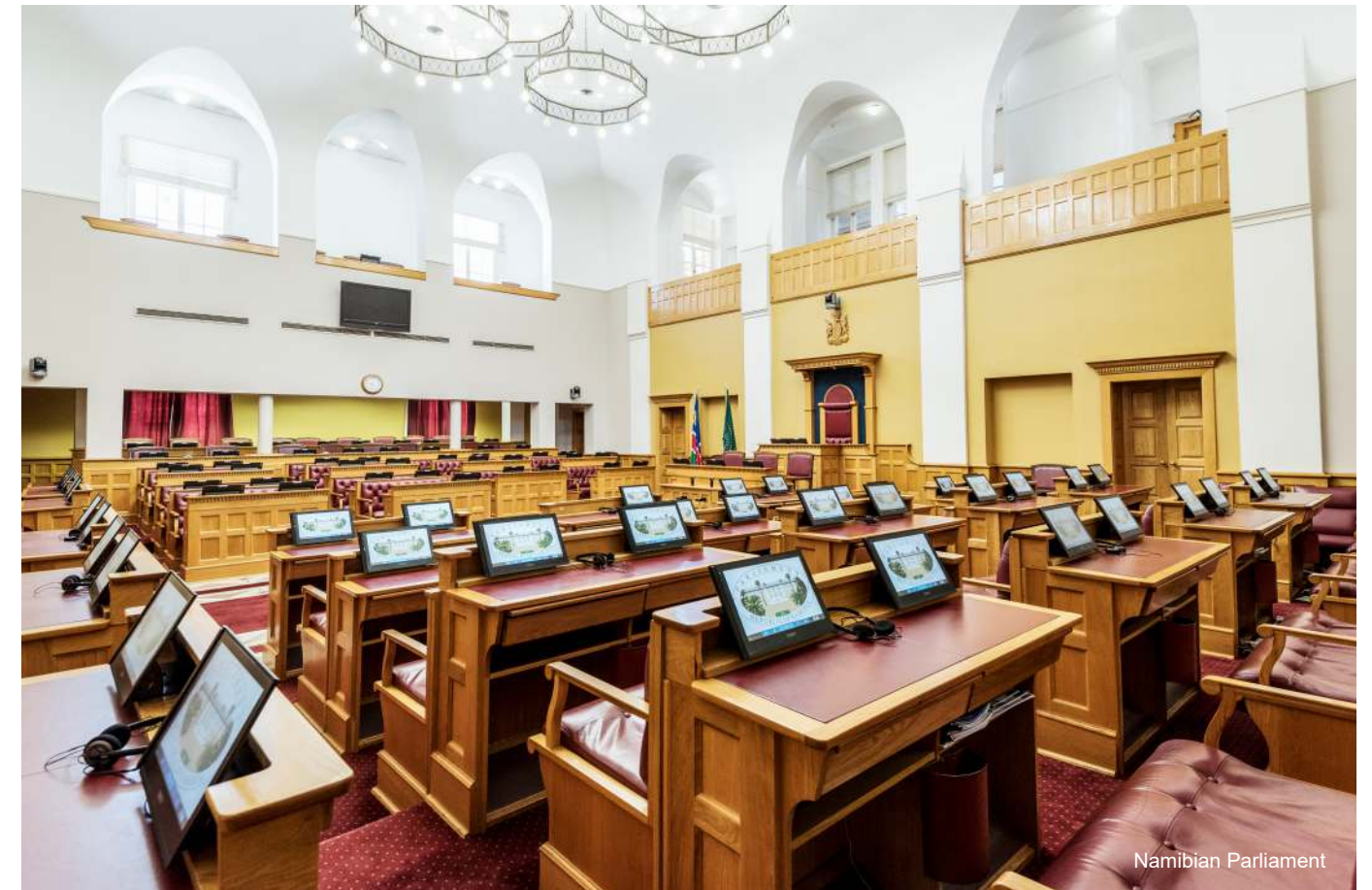
- Equipped with a 14" (1920×1080) HD TFT LCD touch panel, offering better paperless event experience including document reading, HD video watching, interactive meeting management (discussion, voting, 64 CHs×2 interpretation) and meeting services
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight, ingenious video intercom function
- Based on TAIDEN's proprietary mMediaCongress™ brand-new platform, making the system safe and reliable
- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- TAIDEN's patented MCA-STREAM digital audio processing and transmission technology between conference units as well as between conference units and main unit(s)
- Assignment of audio sources into 8 groups based on TAIDEN's proprietary CongressMatrix™ technology and a built-in n×8 audio matrix processor
- Audio sampling of 48 kHz and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Easy integration with peripheral devices for automatic video tracking, network central control and input of alarm signal, etc.
- PoE (only for tabletop) or DC power supply
- Connection to contactless IC Card reader with fingerprint sensor (HCS-8368/50)
- Flush-mounting model comes with electric flip-up and angle adjustment (HCS-8368A/FM/50)
- Tabletop (HCS-8368/50)
- Array microphone (HCS-8368A/50)

Tabletop Paperless Multimedia Congress Terminal

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Equipped with a 14" HD TFT LCD touch panel (1920×1080), offering better paperless event experience
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight
- Up to 64 (63+1) channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Optional printed nameplate or external E-ink electronic nameplate
- Connection to contactless IC Card reader with fingerprint sensor (HCS-8368/50)
- Various options with gooseneck microphones (HCS-8368B/50) or array microphones (HCS-8368A/50)
- PoE or DC power supply
- Dimensions (h×w×d, mm, stem not included): 210×349×124
- Weight: 2.1 kg

Supreme Court of Ukraine

14" HD TFT LCD touch panel (1920×1080)

Home

Built-in 8-megapixel camera with flashlight

Various models with array microphone or gooseneck microphone to meet different demands

Can be easily configured as chairman/delegate unit through the software (chairman control module under separate order)

Fondazione cariplo

Flip-up Paperless Multimedia Congress Terminal


HCS-8368NA/FM/50

- Elegant and compact flush-mounting design with motorized angle adjustment
- Best possible viewing experience with a 60° flip-and-fold design
- Easy and quick management with electric flip-up of all units through the software
- Equipped with a 14" HD TFT LCD touch panel (1920×1080), offering better paperless event experience
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight
- Up to 64 (63+1) channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Array microphone
- DC power supply
- Dimensions (h×w×d, mm): 203×377×268
- Weight: 2.6 kg

Max. flip-up angle 60°
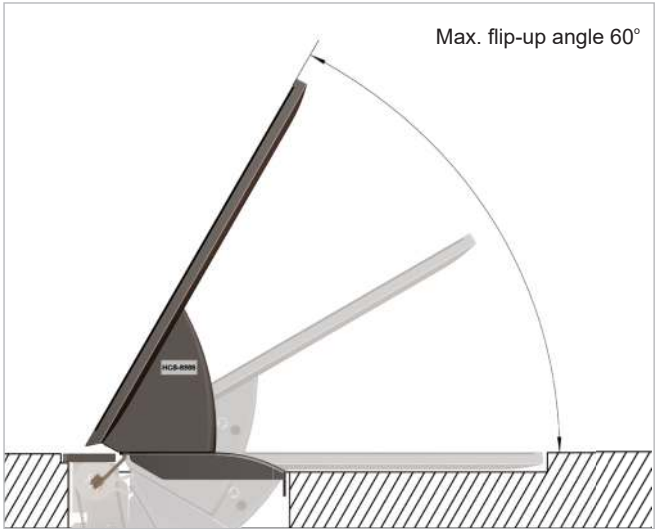
Interactive Meeting Management

Microphone Management

Viewing room layout and speaker list, controlling of operation mode, number of active microphones (1/2/3/4) and master volume, management of microphone statuses including On/Off, applying and blinking.
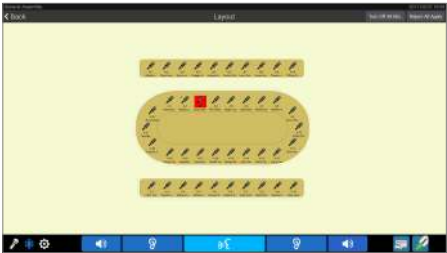

Conference Room Layout
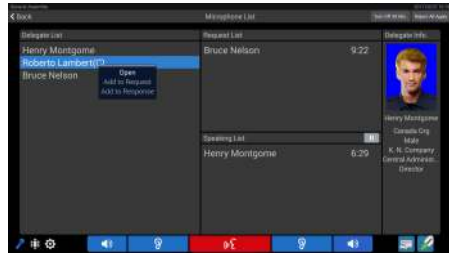

Microphone Management

Setting

Sign-in & Voting

Voting function only available after sign-in on the congress terminals; various forms of voting and voting on proposals can be defined and realized on the software; ballot selfie function can be configured for important 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 on congress terminals with voting control function.

Conference Sign-in
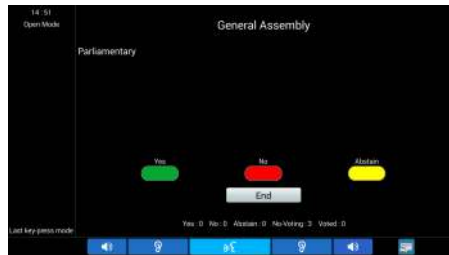
Multiform Voting
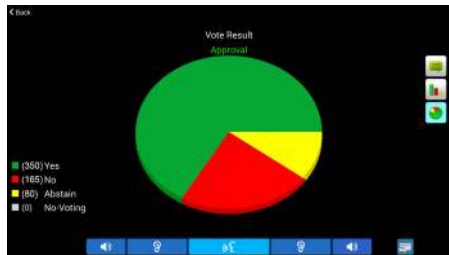
Display of Voting Result

64 CHs×2 Simultaneous Interpretation

One 3.5 mm headphone jack on each side with independent volume control and selection of language channels, offering a budget-conscious solution by allowing two delegates to share one terminal.

Intuitive language list and volume control for quick channel switch and volume adjustment on the screen instead of using the traditional step-by-step selector.

Paperless Conference Functions

Lecture

Sharing

Paperless

Camera

- Conference documents management: download/upload from/to file server with congress terminal; control of uploading; downloading or deleting on an individual or a batch of congress terminals also by the server; rights for conference document management; saving documents to archives
- Speech text guidance: automatic or manual speech guidance with configurable speed, font size and color
- Reader and editor of text file (.txt) and Office documents (.doc, .ppt, .xls) with a variety of licensed input methods
- Image file (.jpg, .png) and PDF reader
- 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
- Delegate information and seating display
- Conference agenda display
- Photographing
- Delegate photo for attendance check and record facility on important conferences
- Viewer and editor of short messages
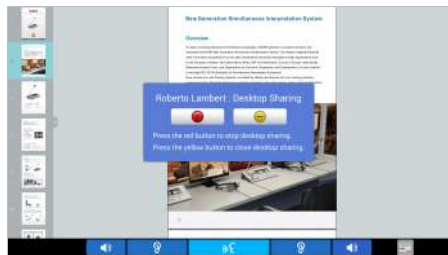

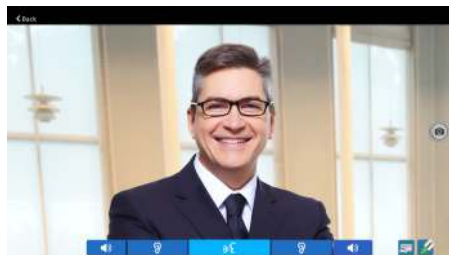Conference Document Management

Speech Text Guidance
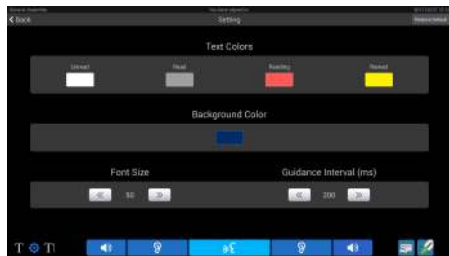
Speech Text Guidance - Setting

Document Viewing and Editing


Desktop Sharing

Photographing

Multiform Video Service

Intercom   VOD   Multimedia

- Multichannel video broadcasting: various video sources from such as HD camera, cable TV or video tape can be broadcast in high definition synchronously to all congress terminals
- 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 (HDMI, SDI, VGA, CVBS, DVI, etc.)
  - Video commercials can be published on video server and watched on congress terminals
  - Video file playback either from congress terminal or from SD card
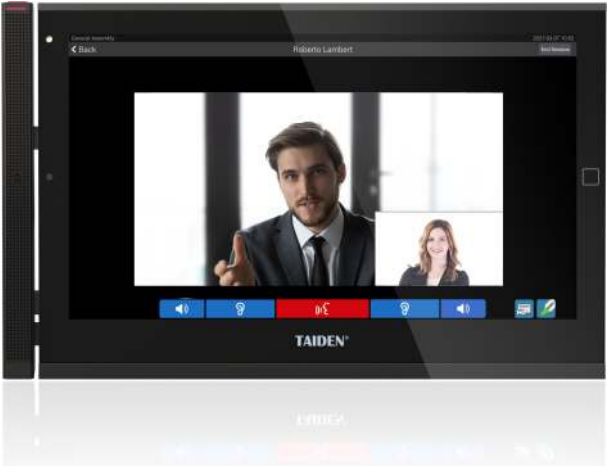
Conference Service

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
- Call secretary

Conference Service

Internet Access

Browser

Web browsing during the meeting through the Internet or the LAN

Chairman Control

Priorities on Chairman Unit:

- Activation at any time provided that the number of active microphones in the system is up to 6
- Priority button to switch off or mute the active microphone according to the presetting
- Approval/denial of speaking requests without a PC
- Launch of parliamentary voting (Yes/No/Abstain) session without a PC
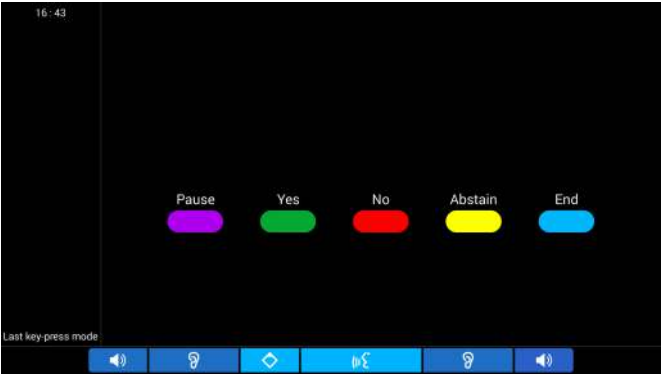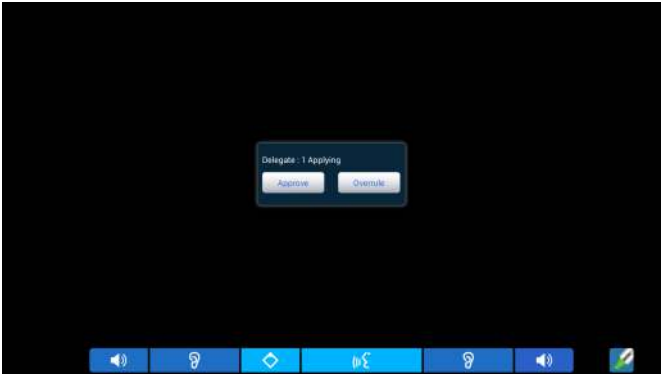
HCS-8368SD Paperless Multimedia Congress Terminal

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Equipped with a 14" HD TFT LCD touch panel (1920×1080)
- Speech, voting, 64 CHs×2 interpretation and video display
- Easy to integrate with HD Videoconference Camera to implement HD video tracking
- 8-megapixel camera with flashlight, supports voting with photo
- Up to 64 (63+1) channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Short message reader
- Printed nameplate
- PoE or DC power supply
- Gooseneck microphone
- Tabletop
- Dimensions (h×w×d, mm, stem not included): 210×349×124
- Weight: 2.1 kg

HCS-8368SD

One headphone jack on each side for independent audio selections
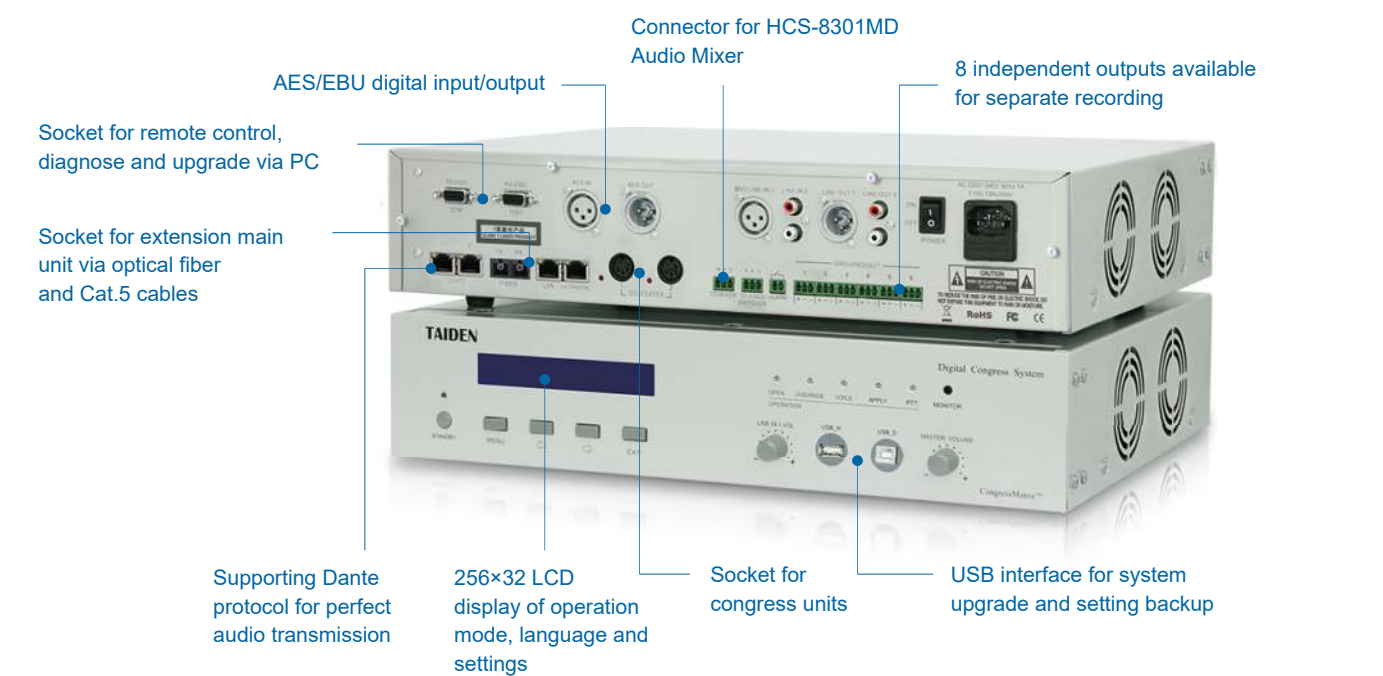

Uzbekistan parliament
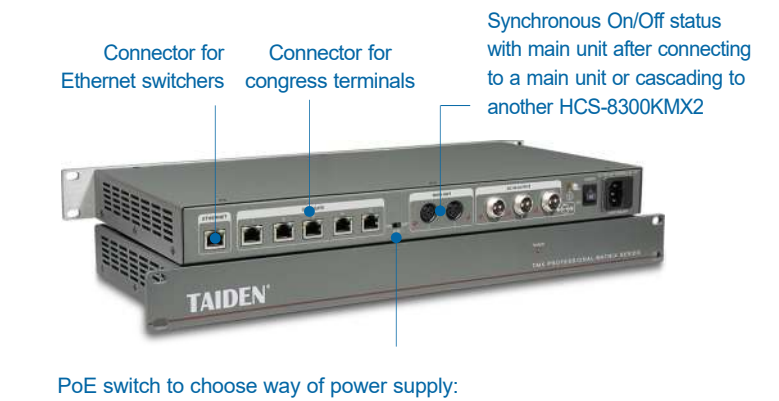

Zhejiang Provincial CPC Standing Committee

Regional Government of Lombardy, Italy
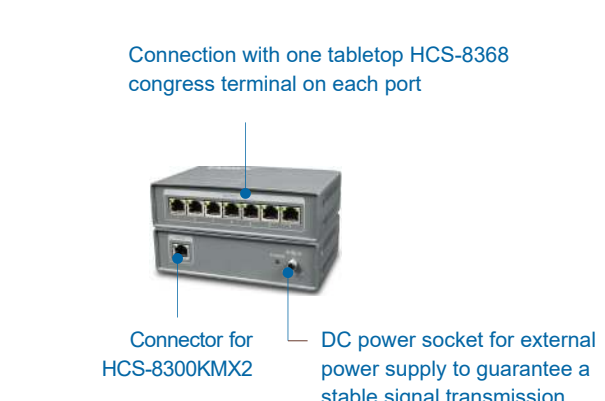
HCS-8300M Series Fully Digital Congress Main Unit

Connector for HCS-8301MD
Audio Mixer

AES/EBU digital input/output

8 independent outputs available
for separate recording

Socket for remote control,
diagnose and upgrade via PC

Socket for extension main
unit via optical fiber
and Cat.5 cables

Supporting Dante
protocol for perfect
audio transmission

256×32 LCD
display of operation
mode, language and
settings

Socket for
congress units

USB interface for system
upgrade and setting backup

HCS-8300KMX2
Congress Gigabit Network Switcher

Synchronous On/Off status
with main unit after connecting
to a main unit or cascading to
another HCS-8300KMX2

Connector for
Ethernet switchers

Connector for
congress terminals

PoE switch to choose way of power supply:

ON: Connecting DELEGATE port to congress terminals or the Distributor
HCS-8368T for power supply and transmission of control data and
multimedia data

OFF: DELEGATE port supporting daisy-chain connection to congress
terminals with power supply via 3 2P aviation plugs

HCS-8368T
Distributor

Connection with one tabletop HCS-8368
congress terminal on each port

Connector for
HCS-8300KMX2

DC power socket for external
power supply to guarantee a
stable signal transmission

Extension of congress terminals in PoE mode

Features

- Compliant with IEC 60914
- Built-in n×8 audio matrix processor based on TAIDEN proprietary CongressMatrix™ technology ("n" stands for the number of microphones connected in the system)
  - 8 independent outputs available for separate recording
  - With "Mix-Minus" function, up to 8 zones can be fed with different audio signals, and audio signal from each microphone can be adjusted and routed to any other loudspeakers except the closest one to improve transmission gain without howling
  - Visual display of audio spectrum for an easier and in-time EQ adjustment to avoid howling
- Fully digital control of the main unit and digital transmission between congress units and the main unit based on TAIDEN's proprietary MCA-STREAM digital processing and transmitting technology
- Audio signal processing by dedicated high-performance DSP with its audio sampling at 48 kHz and 32 kHz, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Flexible for connection with various audio input or output devices
  - Connecting to HCS-8300MO series 8 Channels Audio Output Device for multi-channel output of digital/analog signal used by simultaneous interpretation system or for recording
  - Gain and EQ of two Line Out signals or one Line Out signal plus one microphone input (allowing connection to electret condenser microphone with +24V phantom power) adjustable separately
  - Connection to extra electret or dynamic microphones (with HCS-8300MI series 8 channels audio input interface)

- Intercom
- Various forms of conference room coupling/splitting with TAIDEN's dedicated devices
- With extension main units, system capacity may reach:
  - 4096 contribution units or voting units
  - 378 interpreter units (in 63 booths with 6 for each at most)
  - An unlimited number of channel selectors
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Compatible with TAIDEN HCS-4100/50 Series Fully Digital Congress System but without the features distinctive of the HCS-8300 series
- Transmitting up to 64 channels (including the floor) of digital audio signals and accommodating more audiences with channel selectors and/or IR Language Distribution System
- Able to work in stand-alone mode for discussion, voting (Yes/No/Abstain) and 1+63 CHs simultaneous interpretation
- Comprehensive meeting management functions with dedicated management software
- Hot backup of the main unit where another main unit is configured as a standby and ready to take over once the system fails
- Automatic switch of the main unit to stand-alone mode in case of PC failures to ensure a smooth meeting flow
- Compatible with peripheral devices for video tracking, alarm system and central control over network
- Fit in standard 19" rack

Management Software
used at ECOSOC,
the UN Headquarters

HCS-8300ME Series Congress Extension Main Unit

- Allows for system capacity extension when used together with main unit(s) of HCS-8300M or HCS-4100M/50 series

HCS-8300MI Series 8 Channels Audio Input Interface

- Transmits 8 channels of digital (AES/EBU)/analog audio to the floor channel or to the interpretation channel of the conference system for remote interpretation

HCS-8300MO Series 8 Channels Audio Output Device

- Converts digital audio signals of the conference system into multi-channel digital (AES/EBU)/analog signals for interpretation or recording

HCS-8300MX Congress Room Combiner

- Perfect solution for selective coupling or splitting of conference rooms
- 8×RJ45 standard socket for connection with congress main unit
- Enables coupling of up to 8 rooms with one combiner

HCS-8300MX/FS Booth Combiner

- Perfect solution for selective coupling or splitting of interpretation booths
- Up to 8 booths can be coupled or splitted
- Allows for coupling or separating of conference rooms (6/12/24) and enables interpreter booth sharing with HCS-8302MX/FS General Controller

HCS-8316 HDMI Encoder

- For encoding and transmitting HDMI signals

HCS-8302MX/FS/06/12/24 Series General Controller For Booth Combiners

- Allows for coupling or splitting of conference rooms (6/12/24) and enables interpreter booth sharing with HCS-8300MX/FS Booth Combiner

HCS-8301MD Digital Audio Mixer

- Real-time adjustment and monitoring of microphones' input, AES/line input/output and simultaneous interpretation when used together with HCS-8300MAD/FS/20 Congress Main Unit
- Earphones monitoring with channel selector and volume control
- 10" TFT LCD screen for status display

Polar Pattern of Array Microphone

Congress terminals of HCS-8368A series all boast of a better sound pickup and transmission gain with microphone array technology and CongressMatrix™ technology, enabling delegates to speak at a greater distance from the microphone. Unlike traditional gooseneck microphones, the array microphone offers a tidier and eye-pleasing installation and frees speakers from the discomfort of being pointed by microphones. (A successful application of microphone array technology requires a good acoustic environment.)
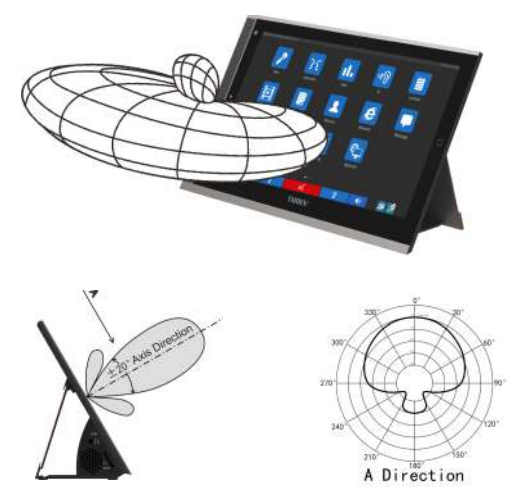
Function List

Type No. / Function	HCS-8368NAD/50 HCS-8368AD/50	HCS-8368NAD/FM/50 HCS-8368AD/FM/50	HCS-8368NBD/50 HCS-8368BD/50	HCS-8368SD/50
Mounting	Tabletop	Flush-mounting	Tabletop	Tabletop
Gooseneck microphone			●	●
Array microphone	●	●		
Speech	●	●	●	●
Sign-in & Voting	●	●	●	●
SI	64 Chs×2	64 CHs	64 Chs×2	64 Chs×2
Intercom	●	●	●	
Conference documents management	●	●	●	
Speech text guidance	●	●	●	
Conference documents reader	●	●	●	
Desktop sharing	●	●	●	
Internet access	Only for HCS-8368N series			
Delegate information and conference agenda display	●	●	●	
Photo shot	●	●	●	
Video conversation	●	●	●	
Video display	●	●	●	●
Multiple channel VOD	●	●	●	
Multiple channel video broadcasting	●	●	●	
Message	●	●	●	●
Call service	●	●	●	
Printed nameplate	●		●	●
External contactless IC Card reader with fingerprint	●		●	

Technical Specifications

	Items	Parameters
Spec.	Frequency response	30 ~ 20000 Hz
	SNR	≥90 dBA
	Dynamic range	≥90 dB
	Isolation	≥85 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
	Resolution	1920×1080
	Display color	18 bit
	Contrast	700:1
	Max. consumption	14 W 17 W（HCS-8368/FM/50）
	Earphone load impedance	>16 Ω
	Earphone output	13 mW
	Earphone jack	2×Ø 3.5 mm stereo headphone jack
	Connection	Gigabit network ports
	Color	Black (PANTONE 419 C) Gray (PANTONE 426 C)
	Dimensions (h×w×d)	Tabletop (w/o microphone): 210×349×124 mm Flush-mounted: 203×377×268 mm Max. flip-up angle 60°
	Weight	2.1 kg (Tabletop) 2.6 kg (Flush-mounted)
Mic.	Array microphone	Uni-directional electret condenser 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%）