<table>
<thead>
<tr>
<th>Type No.</th>
<th>Installation</th>
<th>Microphone capsule</th>
<th>Screen</th>
<th>Built-in E-ink nameplate</th>
<th>Printed nameplate</th>
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<tbody>
<tr>
<td>HCS-8366D</td>
<td>1 pc</td>
<td></td>
<td>15''</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCS-8368D</td>
<td>2 pcs</td>
<td></td>
<td>14''</td>
<td></td>
<td></td>
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<tr>
<td>HCS-8368D-NP</td>
<td>Array</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>HCS-8366AD</td>
<td></td>
<td></td>
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<tr>
<td>HCS-8366D/2M</td>
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<tr>
<td>HCS-8368D/2M</td>
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<tr>
<td>HCS-8366AD/IFM</td>
<td>Flush-mounted</td>
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</tr>
<tr>
<td>HCS-8368AD/IFM</td>
<td>with electric</td>
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</tr>
<tr>
<td></td>
<td>flip-up</td>
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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 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. Another innovative and brand-new member — the dual-microphone paperless multimedia congress terminal with an extra backup microphone is also added to the growing product line.

Features
- Equipped with a 14" (1920×1080) / 10" (1920×1200) 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 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×n audio matrix processor
- Audio sampling of 48 kHz and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Solo ID for each conference unit for convenient installation and maintenance
- Easy integration with peripheral devices for automatic video tracking, network central control and input of alarm signal, etc.
- PoE or DC power supply
- Built-in E-ink electronic nameplate (available on models with "NP" as suffix)
- Flush-mounted model comes with electric flip-up and angle adjustment (HCS-8368A/FM, HCS-8366A/FM)
- Tabletop (HCS-8368, HCS-8366)
- Array microphone (HCS-8368A, HCS-8366A)
- Dual-microphone with backup microphone (HCS-8368/2M, HCS-8368/2MP, HCS-8366/2M, HCS-8366/2MP)
Tabletop Paperless Multimedia Congress Terminal

Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Equipped with a 14" HD TFT LCD touch panel (1920×1080) or 10" HD TFT LCD touch panel (1920×1200), 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 and models with built-in E-ink electronic nameplate
- Various options with gooseneck microphones (HCS-8366A, HCS-8366A) and array microphones (HCS-8366A, HCS-8366A)
- Dimensions: (h×w×d, mm, stem not included):
  - HCS-8366A: 210×349×122
  - HCS-8366: 170×252×122
- Weight: HCS-8366A: 1.8 kg, HCS-8366: 1.5 kg

![14" HD TFT LCD touch panel (1920×1080)](image)

![Built-in 8-megapixel camera with flashlight](image)

![Various models with array microphone, gooseneck microphone and dual backup microphones to meet different demands](image)

![Can be easily configured as chairman/delegate unit through the software (chairman control module under separate order)](image)
Flip-up Paperless Multimedia Congress Terminal

Features

- Elegant and compact flush-mount design with motorized angle adjustment
- Best possible viewing experience with a 60-degree 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) or 10" HD TFT LCD touch panel (1920×1200), offering better paperless event experience
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flash light
- 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 (HCS-8368A/FM, HCS-8366A/FM)
- Dimensions (h × w × d, mm) (w/o microphone): HCS-8368A/FM: 232×349×109
  HCS-8366A/FM: 186×252×109
- Weight: HCS-8368A/FM: 2.3 kg, HCS-8366A/FM: 2.0 kg
Paperless Multimedia Congress Terminal with Backup Microphone

Innovative dual-microphone paperless multimedia congress terminal features an isolated main microphone and an extra backup microphone. When the main microphone fails, the system will switch on the backup microphone to ensure a smooth and uninterrupted meeting flow.

Congress Terminal with Backup Microphone

HCS-8366/2MP
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)

HCS-8368/2MP
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)

High-end Conference Solution with Fully Digital Dual-backup Microphone

High-end Conference Solution with Digital & Analog Backup
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.

64 CHs × 2 Simultaneous Interpretation

One 3.5 mm headphone jack on each side for 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.

Sign-in & Voting

Voting function only available after sign-in on the congress terminals; various forms of voting and voting on proposals can be realized and defined 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.
Paperless Conference Functions

- 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,.gif) 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
- Photo taking
- Delegate photo for attendance check and record facility on important conferences
- Viewer and editor of short messages
Multiform Video Service

- 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

Ingenious video intercom function: video conversation between any two paperless congress terminals within the system, or realizing remote video conference through the video server

Conference Service

- Call service
- Call secretary

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

- Activation at any time provided that the number of active microphones in the system is less than 6
- Priority button to switch off or mute the active microphone according to the presetting
- Approval/denial of speaking requests without PC
- Launch of parliamentary voting (Yes/No/Abstain) session without PC

Web browsing during the meeting through the Internet or the LAN

Congress Terminal Dedicated to the Information Age
HCS-8300M Series Fully Digital Congress Main Unit

- 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 able to be recorded separately
  - 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 technologies
  - 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 digitization log 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)

Features

- Intercom
- Various forms of conference room coupling/splitting with TAIDEN's dedicated devices
- With extension main units can enable connection to:
  - 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

HCS-8300KMX2
Congress Gigabit Network Switcher

- Synchronous On/Off status with main unit after connecting to a main unit or cascading to another HCS-8300KMQ
- PoE switch to choose way of power supply:
  - ON: Connecting DELEGATE port to congress terminals or the Distributor HCS-838T 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 HCS-8306/8308 congress terminal on each port

Management Software used at ECOSEC, 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 interpretation channel of the conference system for remote interpretation or transmits to the floor channel

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 X 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 split
- Allows for coupling or separating of conference rooms (6/12/24) and enables interpreter booth sharing with HCS-8300MX/FS General Controller

HCS-8316 Series Encoder
- For encoding and transmitting high-definition video signals (1080P/720P/1080I) or VGA signals at high resolution and fps
- For encoding and transmitting standard definition video signals (D1/CIF)
- For encoding and transmitting VGA 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/EBU 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-8366A and 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.)

Standard Connection Diagram for the G3 Paperless Multimedia Congress System

Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>HCS-8366</th>
<th>HCS-8368</th>
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</thead>
<tbody>
<tr>
<td>Frequency response</td>
<td>30 – 20000 Hz</td>
<td></td>
</tr>
<tr>
<td>SNR</td>
<td>&gt;96 dB</td>
<td></td>
</tr>
<tr>
<td>Dynamic range</td>
<td>&gt;94 dB</td>
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<tr>
<td>Isolation</td>
<td>&gt;85 dB</td>
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<tr>
<td>THD</td>
<td>&lt;0.05%</td>
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</tr>
<tr>
<td>LINE IN 1</td>
<td>+10 dBu, BAL</td>
<td></td>
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<tr>
<td>LINE IN 2</td>
<td>+10 dBu, UNBAL</td>
<td></td>
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<tr>
<td>AES IN</td>
<td>XLR 1FFS</td>
<td></td>
</tr>
<tr>
<td>LINE OUT 1</td>
<td>+20 dBu, BAL</td>
<td></td>
</tr>
<tr>
<td>LINE OUT 2</td>
<td>+20 dBu, UNBAL</td>
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<tr>
<td>AES OUT</td>
<td>XLR 1FFS</td>
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<tr>
<td>GROUP OUT (1~6)</td>
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<tr>
<td>Dimension</td>
<td>10” x 16”</td>
<td>14” x 16”</td>
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<tr>
<td>Resolution</td>
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<td>Display color</td>
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<td>18 bit</td>
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<td>Contrast</td>
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<td>700:1</td>
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<tr>
<td>Max. consumption</td>
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<td>14 W</td>
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<td>Earphone load impedance</td>
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<tr>
<td>Earphone output</td>
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<td>Earphone jack</td>
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<td>Connection</td>
<td>Gigabit network ports</td>
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<tr>
<td>Color</td>
<td>Black (PANTONE 419 C)</td>
<td>Gray (PANTONE 426 C)</td>
</tr>
<tr>
<td>Dimensions (h x w x d)</td>
<td>Tabletop 170x252x122 mm</td>
<td>Tabletop 210x349x122 mm</td>
</tr>
<tr>
<td>(w/o microphone)</td>
<td>Flush-mounted 196x252x109 mm Max. flip-up angle 80°</td>
<td>Flush-mounted 232x349x109 mm Max. flip-up angle 80°</td>
</tr>
<tr>
<td>Weight</td>
<td>Tabletop 1.5 kg</td>
<td>Tabletop 1.8 kg</td>
</tr>
<tr>
<td></td>
<td>Flush-mounted 2.0 kg</td>
<td>Flush-mounted 2.3 kg</td>
</tr>
</tbody>
</table>

Microphone

- Transducer: Electret-condenser
- Polar pattern: Uni-directional
- Array microphone: Polar pattern refers to the above figure
- Sensitivity: -46 dBV/Pa
- Frequency response: 50 – 20000 Hz
- Input impedance: 2 kΩ
- Directivity: 0°/180°
- Equivalent noise: 20 dB (1 kHz)
- Maximum sound pressure level: 125 dB (THD=3%)