

HCS-4100/50 Series Application Software

HCS-4100/50 application software is comprehensive, reliable and user-friendly. But it is also an easy care software system which helps the operator to manage the conference efficiently from the very beginning of a meeting until the post-meeting work. With the PC installed HCS-4100/50 application software connected into the FDCCS, operator can manage all aspects of the conference centrally. The operation turns out to be easy and efficient.

HCS-4100/50 application software is a modularized software with various functional modules:

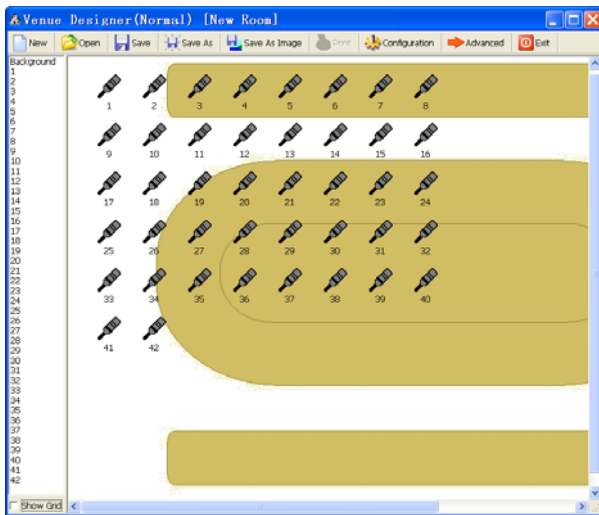
- Basic System Setup Management Software Module (HCS-4210/50)
- Professional Venue Design Software Module (HCS-4212/50)
- Microphone Management Software Module (HCS-4213/50)
- Voting Management Software Module (HCS-4214/50S)
- Video Control Software Module (HCS-4215/50)
- Simultaneous Interpretation Software Module (HCS-4216/50)
- Intercom Software Module (HCS-4218/50)
- Synchronous Audio Recording Management Software Module (HCS-4219/50)
- Synchronous Video Recording Management Software Module (HCS-4220/50)
- Multi-User Conference Control Software Module (HCS-4221/50)
- Dual PC Server Hot Spare Software Module (HCS-4222/50)
- Agenda Control Software Module (HCS-4223/50)
- Speech Prompt Software Module (HCS-4224/50)
- Dual System Main Unit Hot Spare Software Module (HCS-4225/50)
- Touched/Contactless IC-Card Sign-in Management Software Module (HCS-4226/50)
- Fingerprint Identification Management Software Module (HCS-4229/50)
- Electronic Nameplate Management Software Module (for HCS-1080, HCS-8338-NP and HCS-8348-NP) (HCS-4231/50)
- Electronic Nameplate Management Software Module (for HCS-1081) (HCS-4232/50)
- Digital HD Video Recording Management Software Module (HCS-4243/50)
- Rooms & Booths Combine Control Software Module (HCS-4244/50)



HCS-4210/50 Basic Software Module

Basic software module consists of an amount of facilities, e.g. venue design (normal edition), conference management, main unit configuration, contribution unit configuration, information display, system detection, system report and user management.

Venue design facility



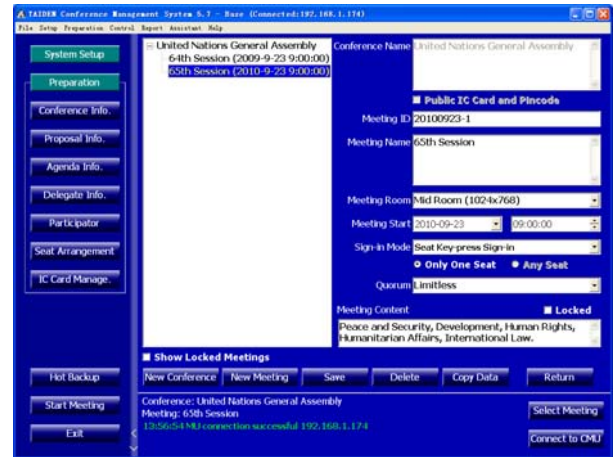
Venue design (normal edition)

Functions

Converts the venue seating into an intuitive, graphical and controllable interface as a basis for further use, according to the actual layout of the venue

- Self-designing the background picture and color, supporting pictures of any size
- Microphone number, amount of microphones per line, icon type - icon transparency optionally
- Freely drag and drop the microphone icon
- Reconfiguration of the initialized settings, available at any time
- Save/open files for file management
- Especially suitable for small-scale and medium-sized meeting room/hall. The professional edition of venue design module offers more facilities described in HCS-4212/50 Professional Venue Design Module

Conference information management



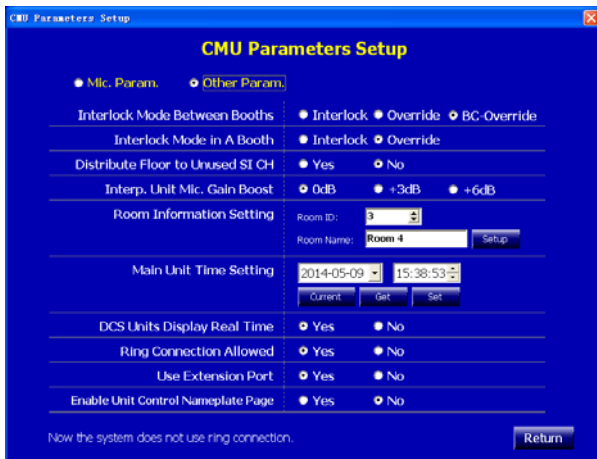
Conference Information

Functions

Comprehensive conference information management facility, for clear and easy user management.

- Includes conference name and meeting information
- Each conference consists of several meetings
- Creation of a new meeting for appointed conference
- Meeting:
 - ◆ Meeting content: meeting name, meeting room name, meeting start time, sign in mode, quorum and conference content
 - ◆ Display of convoked meetings in distinct colors
 - ◆ Locking a convoked meeting for meeting data protection
- Freely switch between the meetings to manage

Main unit configuration facility



CMU parameters setup



Main unit control panel

Functions

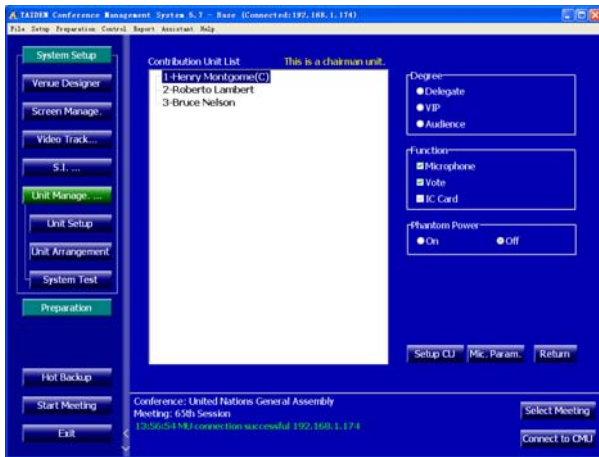
Module provides **CMU parameters setup** and **CMU control panel** sub-modules.

■ CMU parameters setup:

- Microphone Parameters:
 - ◆ Voice Sensitivity Level: set the sensitivity “Level” and “Off Time” to open microphone in Voice mode
 - ◆ Video Track:
 - Status: turn on/off video track function
 - Display Name: whether display delegate name or not when video track is active
 - Mode: set video track mode as FIFO or VIP First when video tracking
 - ◆ Chairman Priority Mode: set the operation when the chairman unit presses the priority button
 - All Off: turn off all microphones of delegates
 - All Mute: mute all microphones of delegates temporarily; once the button released, the former state is restored
 - Disabled: disable chairman unit’s priority function. If disabled, the function of the priority key is the same as the Mic. On/Off key
 - ◆ Ring Mode: turn on/off all ring tones of the conference units when applying to speak, on receipt of a short message or on IC card insertion

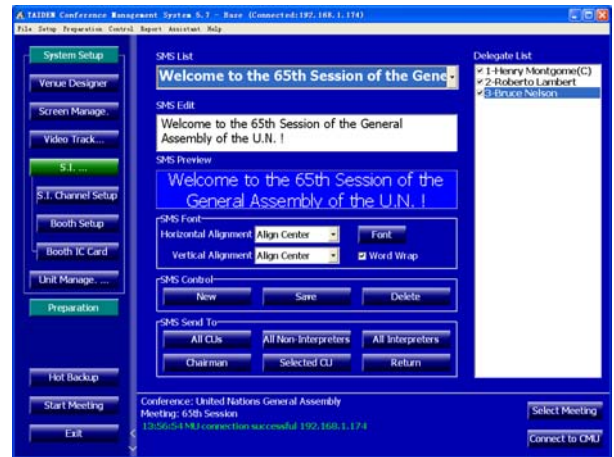
- ◆ Reduce HP volume when Mic. Active: select whether reduce headphone volume or not when Mic. active
- ◆ Handheld Mic. PTT Mode: force handheld microphone to PTT mode
- ◆ Mic. Green LED Ring: the illuminated ring will be lighted when the microphone is applying
- ◆ When abnormally disconnected, switch from Apply mode to Open mode
- Other Parameters:
 - ◆ Interlock Mode Between Booths: Booths output channels interlock mode (Interlock/ Override/ BC-Override), in BC-Override mode, channel A was protected, cannot override
 - ◆ Interlock Mode in A Booth: interlock mode (Interlock/ Override) in the same booth among the interpreter units;
 - ◆ Distribute Floor to Used SI CH: select whether to distribute floor to used SI channel automatically or not when the SI channel is not operated
 - ◆ Interp. Unit Mic. Gain Boost: 0dB, +3dB or +6dB is optional;
 - ◆ Room Information Setting: set up room ID and room name, the setup will take effect after restart the main unit
 - ◆ Main Unit Time Setting: setup the time displayed on the LCD of the main unit’s front panel
 - Current: display the time of the DCS server
 - Get: read the time of the main unit
 - Set: set the time of the main unit according to the time of the DCS server
 - ◆ DCS Units Display Real Time: select whether the contribution units display real time or not
 - ◆ Ring Connection Allowed: select whether ring connection topology is allowed or not
 - ◆ Use Extension Port: select whether use extension port or not
 - ◆ Enable Unit Control Nameplate Page: select whether allow multi-media terminal to control corresponding nameplate
- **CMU control panel:** synchronously display and adjust the status of the Congress Main Unit, for flexible control of the CMU by the operator
 - ◆ Active Microphones (1/2/3/4)
 - ◆ Operation mode (OPEN/OVERRIDE/VOICE/APPLY/PTT)
 - ◆ Master Volume (-30 dB ~ 0 dB)

Contribution unit configuration facility



Set up contribution unit interface

Information display



Short message

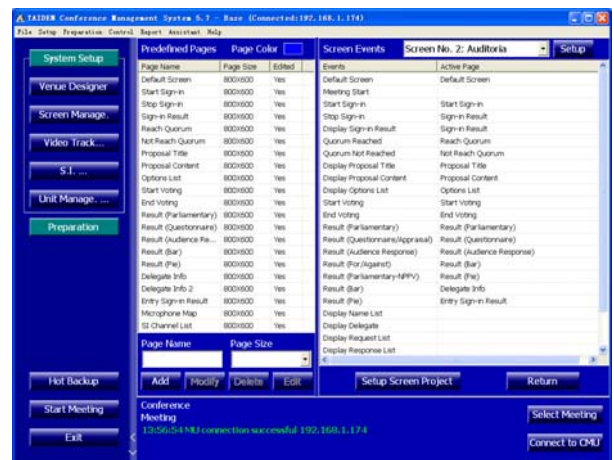
Functions

Set up and reconfigure internal parameters of the contribution unit by the administrator.

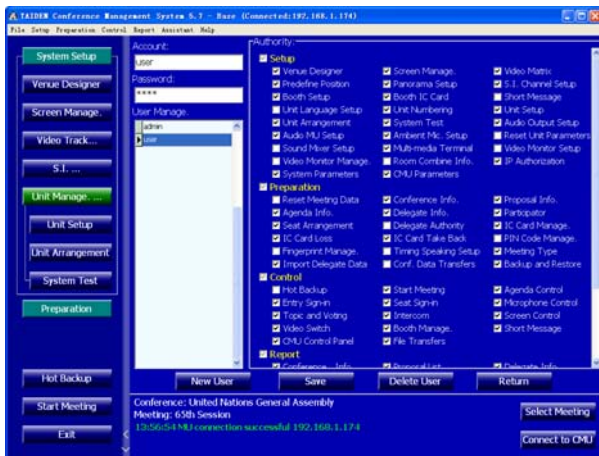
Parameters include:

- Contribution unit status (Delegate/VIP/Audience)
- Built-in facilities (Microphone/vote/IC-Card sign-in)
- Microphone sensitivity and EQ
- Easy reconfiguration of the internal settings
- Easy selection of any chairman unit to be executive chairman unit

User management



Screen management



User management interface

Functions

Create/delete a user, change user password and authorization

- Create a new user, and set his/her account, password, authority
- Change user's password and authorization
- Supports deleting a user

Functions

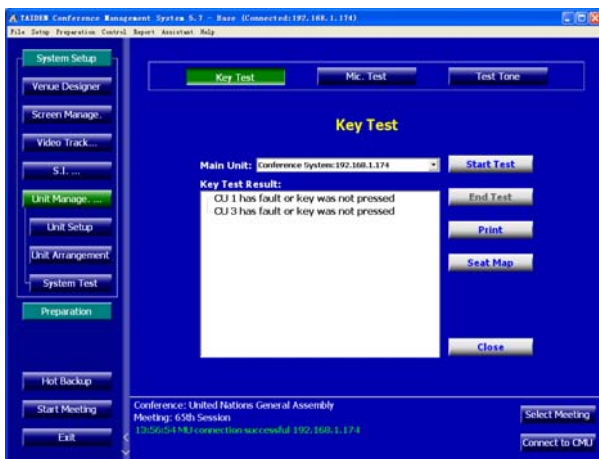
Include screen management and short message.

- **Screen management:** design of a screen and its related activated event
 - ◆ Set distinct screen projects for distinct conferences and languages
 - ◆ Predetermination of screen page contents: includes page color, page name, page size, etc.
 - ◆ Editing screen page contents: includes add text, picture, delegate's photo, voting results, etc.
 - ◆ Select the page to display when conference event starts. Each conference event corresponds to a particular screen page
 - ◆ Allocation of an alias for each screen for more convenience
- **Short message:** includes write short message and send short message
 - ◆ Write short message: write short message up to the permitted message size, synchronous display for preview purposes. Supports various Chinese/English fonts and formats
 - ◆ Send short message: select the compiled short message and send it/them to the unit(s), e.g. all contribution units (CU), all interpreters / non-interpreters, chairman and selected CU etc.
 - ◆ Contribution unit should be equipped with LCD to receive and display the short message

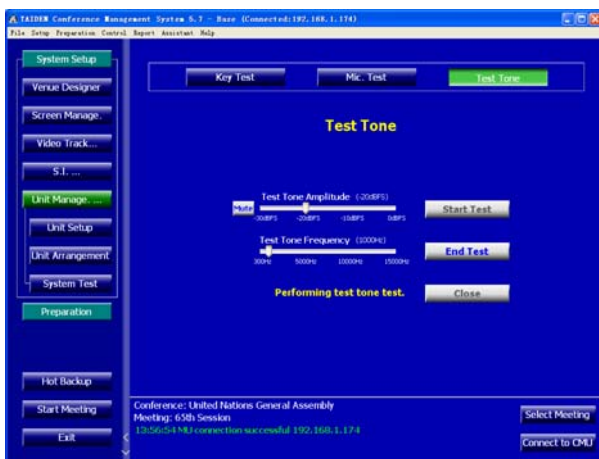
System detection



Microphone test interface



Key test interface



Test tone test interface

Functions

Online system test facility, including **microphone test**, **key test**, and **test tone test**

- **Microphone test**, includes:
 - ◆ Time setting for testing a microphone, valid for all microphones
 - ◆ Facility to issue white noise for testing assistance
 - ◆ Auto-detection of system-connected microphones with ID display of current tested microphone
 - ◆ Sequential automatic test procedure: once time setting value reached, the tested unit is cleared and the sequencing unit is processed
- **Key test**: starts key test for all system-connected contribution unit
 - ◆ Main unit IP address display
 - ◆ Contribution units enter key detection state for key tests immediately on start of key test routine
 - ◆ Result display on software interface on routine completion
 - ◆ Supports printout
- **Test tone test**:
 - ◆ The HCS-8301M must be connected with the conference main unit before test tone test
 - ◆ The amplitude of the test tone can be adjusted: -30 dBFS ~ 0 dBFS, default: -20 dBFS
 - ◆ The frequency of the test tone can be adjusted: 300 Hz ~ 15000 Hz, default: 1000 Hz
 - ◆ Test tone amplitude and frequency are synchronized with the settings on HCS-8301M

Report system



Report system

Functions

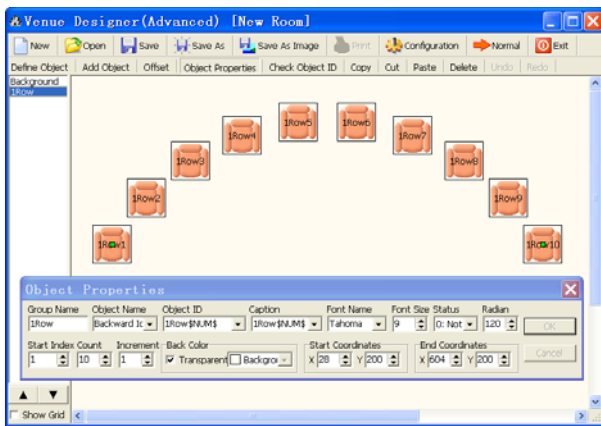
Conference information output from the software's database, for backup or printout purposes. The conference information includes:

- Conference information
- Proposal list
- Delegate information
- Sign-in report
- Voting result
- Summarizing voting results
- More reports

Ordering Information

HCS-4210/50__Basic System Setup Management Software Module

HCS-4212/50 Professional Venue Design Module



Venue design (professional)

Functions

Unlike the normal edition of the Venue Design Module, the professional version has additional powerful functions to design manifold layouts of venues. The main difference is the availability of functional buttons for file operation (toolbar buttons) and object operation (buttons below toolbar buttons) in the toolbars. In addition, the functions are also available in the file right-click pop-up menu. Moreover, the Object Properties dialog box is floating on the window for fast changing the properties of current object.

- File operation:
 - ◆ Venue design supports file operation, including: new, open, save as, and print
 - ◆ Create a new conference file: set the background color, room size and other parameters, including:
 - Background
 - Line number
 - Amount per line
 - Seat icon
 - Seat direction
 - Transparent icon or not
 - Show as MIC. icon or not
 - Re-arrange seat position or not
 - ◆ The parameters above can be changed at any time through "Configuration" menu on the toolbar
 - ◆ Add seat/microphone icons line by line, 8 seats/microphones per line as default value. The amount of seats/microphones per line can be modified. While the normal edition can add only one seat at one go, the professional venue design module can add groups with more than one seat/microphone per group
 - ◆ Shifting facility for complete layout
- Define object:
 - ◆ Picture library with default (customized and/or recurrent) objects
 - ◆ Modifiable object information, e.g. object name, image path, distinguishable colors for displaying object images in different states (e.g. signed-in etc.)

- Powerful "object properties" function: object attribute can be set and changed, including:
 - ◆ Set group name and object name
 - ◆ Set unique ID and ID display mode for every object, supporting different fonts and sizes
 - ◆ Set starting object status
 - ◆ Set a radian for the object group and design seat layout according to true seating positions
 - ◆ Set start index of the object group
 - ◆ Change the amount of the units in an object group
 - ◆ Set numbering increment
 - ◆ Set initial background color and whether transparent or not
 - ◆ Set start and end coordinates of object group
- Object ID check facilities
- Support object copy, cut, paste and delete operation
- Object arrangement can be changed

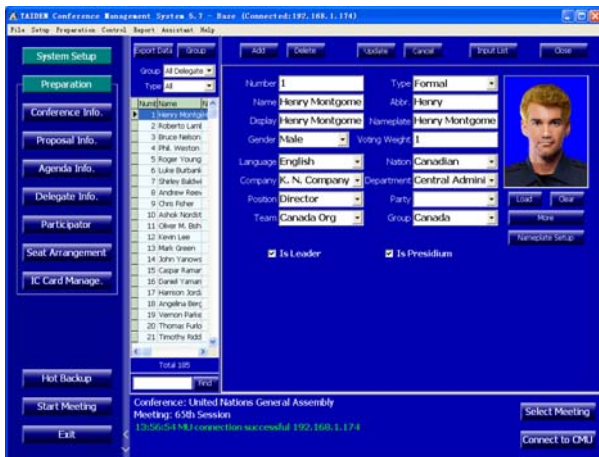
Ordering Information

HCS-4212/50....._Professional Venue Design Software Module

HCS-4213/50 Microphone Management Module



Unit arrangement



Delegate information



Microphone control

- Assign a single seat for each delegate
- Section seating, automatic seat assignment for a group of delegates, supports new assignment – in parts or entirely
- Clear a single seat if required for a new assignment
- ♦ Unit arrangement: assign the Congress Units to the corresponding positions based on the true delegate seating, current cabling and layout:
 - Unit arrangement, assign the Congress Units to the true delegate seating
 - Delete unit, reassign the units
 - Locate seat position by menu operation
 - Operate the arranged units to check the arrangement

■ **Delegate management** includes three sub-modules: delegate information, participants and delegate authority

- ♦ Delegate information: create and manage the delegate's database
 - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
 - Users can customize the options in the above items
 - Customer-specific options for above items
 - Supports customized delegate grouping
 - Fast search facility
 - Database updatable
- ♦ Participants: select the delegates to participate in the conference from the database
 - List delegate information by group or by delegate type
 - Group adding function
- ♦ Delegate authority:
 - Degree: chairman or delegate
 - Authority: speak, vote and vote board

■ **Microphone control:** combined with venue design, seating arrangement, delegate management, conference management and microphone setup, for controlling and monitoring current microphone status, as well as automatic video tracking. Facility includes:

- ♦ Microphone on/off control
- ♦ Close all active microphone
- ♦ Approve/deny delegates' speaking requests
- ♦ Deny all speaking requests
- ♦ Delegate speech timing
- ♦ Record and save speaking
- ♦ Parliamentary mode control
- ♦ Detailed information available from the delegate database for online display purposes
- ♦ If cooperating with an automatic video tracking system, camera presets can be made for each discussion unit to transmit speaker's picture simultaneously to a hall display

Functions

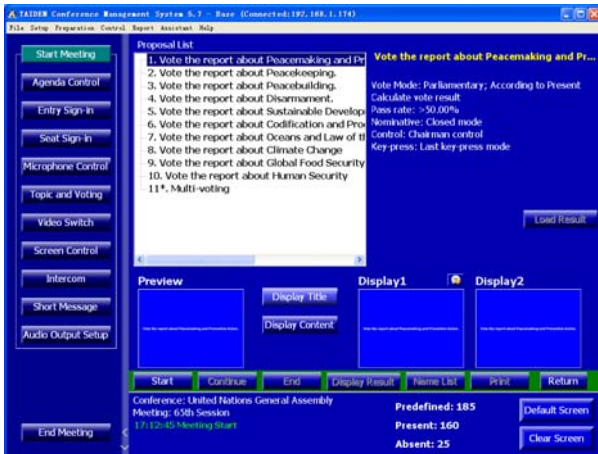
Seat arrangement, delegate management and microphone control sub-modules

- **Seat arrangement** facility includes delegate seating and unit arrangement function modules
 - ♦ Delegate seating is used to assign seats for the delegates, e.g.:

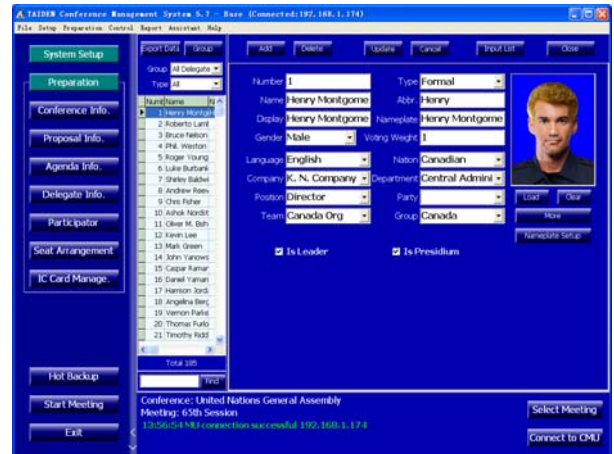
Ordering Information

HCS-4213/50.....Microphone Management Software Module

HCS-4214/50S Voting Management Module



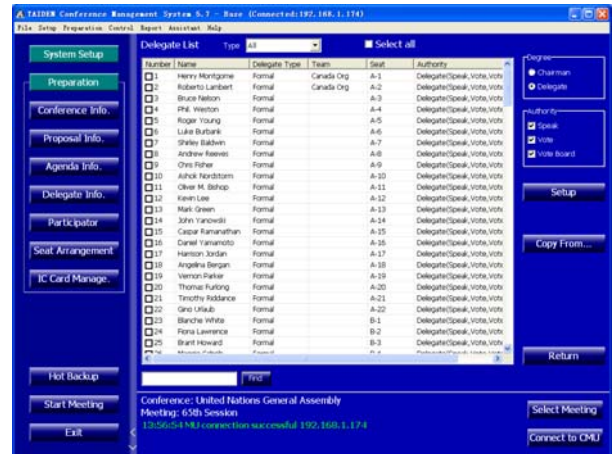
Topics and voting



Delegate information



Display voting result



Delegate authority



Unit arrangement

Functions

Voting management, seat arrangement and delegate management sub modules.

■ Voting management:

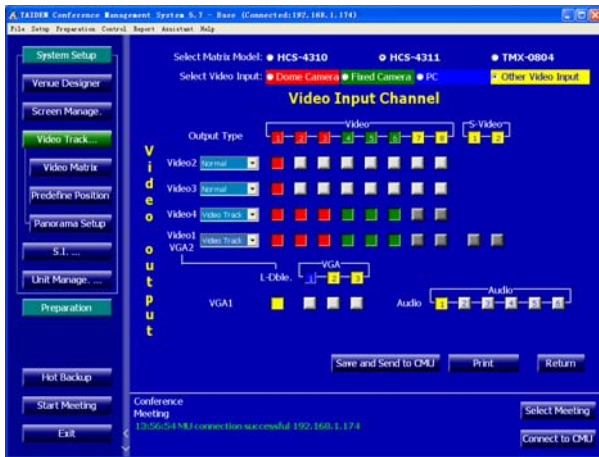
- ◆ Topics information management
 - Set up, save, add or delete topics file before the meeting
 - Open topics control interface and display topics content to large screen
 - Printout the topics list and information and distribute to delegates as meeting information
 - Multiple voting facilities available, suitable for various conferences, including:
 - ◆ For/Against
 - ◆ Parliamentary: YES/NO/ABSTAIN
 - ◆ Questionnaire: 1/2/3/4/5
 - ◆ Audience response: --/-/0/+/>++
 - ◆ Parliamentary (NPPV): YES/NO/ABSTAIN/NPPV
 - ◆ Appraisal:
 - ◆ satisfied (four keys voting: perfectly satisfied/satisfied/basicly satisfied/unsatisfied)
 - (three keys voting: satisfied/basicly satisfied/unsatisfied)
 - (two keys voting: satisfied/unsatisfied)

- ◇ Qualified (four/three/two keys voting)
 - ◇ Competent (four/three/two keys voting)
- Control modes: chairman control / operator control / time controlled voting
- Calculation: predefined or in relation to the participants attending the meeting in person
- Register mode: nominative/ballot
- Validity mode: first key press valid/last key press valid
- Pass rate: between 1% and 100%
- ◆ multi-proposal voting at one time
- ◆ Display voting result to large screen
- ◆ Clear and vivid voting result display modes (numeric/bar/pie)
- ◆ Print or save voting result
- ◆ Sign-in before the voting to improve the security and validity of voting result
- **Seat arrangement** facility includes delegate seating and unit arrangement function modules
 - ◆ Delegate seating is used to assign seats for the delegates, e.g.:
 - Assign a single seat for each delegate
 - Section seating, automatic seat assignment for a group of delegates, supports new assignment – in parts or entirely
 - Clear a single seat if required for a new assignment
 - ◆ Unit arrangement: assign the Congress Units to the corresponding positions based on the true delegate seating, current cabling and layout:
 - Unit arrangement, assign the Congress Units to the true delegate seating
 - Delete unit, reassign the units
 - Locate seat position by menu operation
 - Operate the arranged units to check the arrangement
- **Delegate management** includes three sub-modules: delegate information, participants and delegate authority
 - ◆ Delegate information: create and manage the delegate's database
 - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
 - Customer-specific options for above items
 - Supports customized delegate grouping
 - Fast search facility
 - Database updatable
 - ◆ Participants: select the delegates to participate in the conference from the database
 - List delegate information by group or by delegate type
 - Group adding function
 - ◆ Delegate authority:
 - Degree: chairman or delegate
 - Authority: speak, vote and vote board

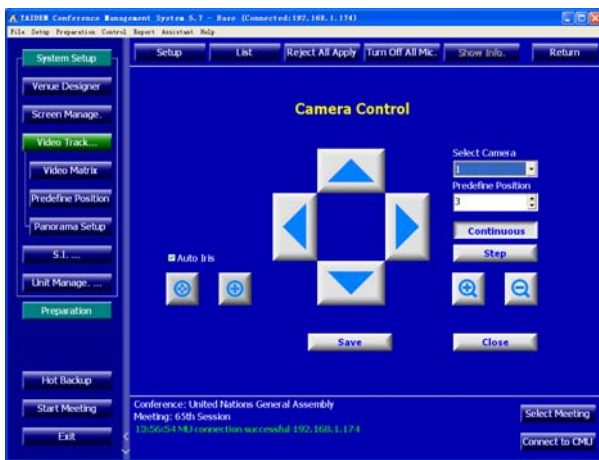
Ordering Information

HCS-4214/50S.... Voting Management Software Module (including delegate management, multiform voting, multi-proposal voting, less than 49 seats)

HCS-4215/50 Video Control Module



Video matrix



Camera control

Functions

Carries out automatic video tracking when cooperating with camera and video switch unit.

- Set up video matrix: set input/output channels for computer, camera and other video apparatus according to the connections between video equipment and video switch unit. The configuration can be sent to the main unit for synchronization
- Video switch: switch among different input and output video signals according to the video matrix
- Camera preset: cooperating with microphone management module to set and adjust the camera preset for each seat/microphone and to transmit speaker's video picture simultaneously to a hall display
- Camera control: preset the panorama of the conference venue

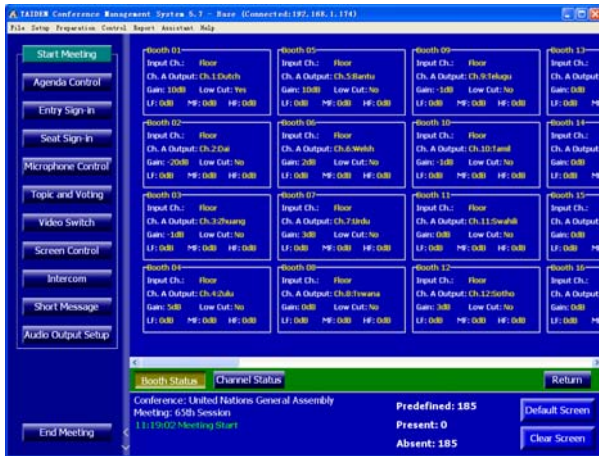
Ordering Information

HCS-4215/50.....Video Control Software Module

HCS-4216/50 Simultaneous Interpretation Module



Interpretation channel setup



Interpreter booth status

Ordering Information

HCS-4216/50.....Simultaneous Interpretation Software Module

Functions

Set up the simultaneous interpretation channels, interpreter booth(s) and booth IC-Card:

- Simultaneous interpretation channel setup:
 - ♦ Set the channel number and language for each channel and save into the database
 - ♦ Set language and its abbreviation
 - ♦ Send the configuration to the Congress Main Unit for synchronization
 - ♦ Display Congress Main Unit configuration on the window
- Set up interpreter booth(s)
 - ♦ Set the number of interpreter booth, and save into database
 - ♦ Set the outgoing for channel A, B and C of each booth
 - ♦ Set the auto-relay booths for each interpreter booth
 - ♦ Assign the interpreter booth afresh after booths combination
 - ♦ Send configuration to the Congress Main Unit for synchronization
- Manage interpreter booth: synchronously control and communicate with the booth during the meeting
- Set up booth IC-Card: Booth use or do not use IC-Card, set IC-Card password and write IC-Card

HCS-4218/50 Intercom Software Module



Intercom interface

Functions

Provides bidirectional communication among the chairman, delegates, interpreters and operators:

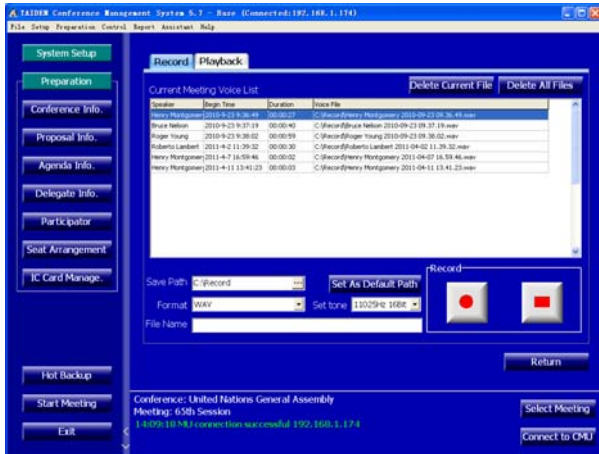
- Multiplex communication session available
- Search facilities, fast locating of a delegate within the venue
- Easy to operate via control menu
- Communication session guided by the operator
- Enable remote operator
- Intercom only available for Congress Units equipped with LCD
- HCS-8338 and HCS-8348 series Paperless Multimedia Congress Terminal can initiate intercom without operator

Ordering Information

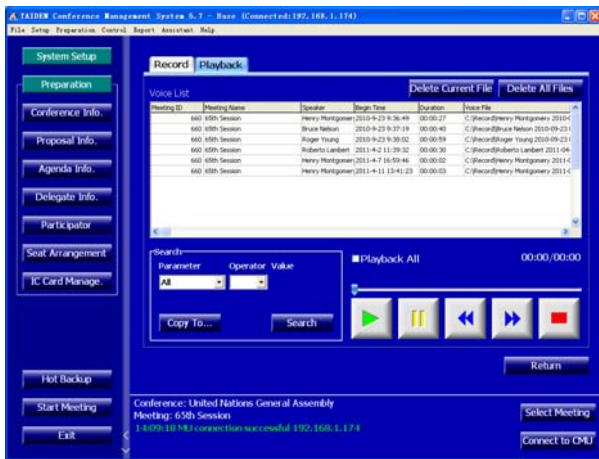
HCS-4218/50.....Intercom Software Module

HCS-4219/50 Synchronous Recording Module

- Audio playback:
 - ◆ Integrated file management
 - ◆ Search facilities, search audio record file needed to playback quickly (by conference ID, speaker, begin time, continuous time, etc.)
 - ◆ "Playback All": recordings playback one by one
 - ◆ Recorded file playback, fast play, pause/stop, etc.
 - ◆ General file format saving: saved file playback by conventional media player
 - ◆ Delete any recorded file or all recorded files



Audio record interface



Playback interface

Ordering Information

HCS-4219/50.....Synchronous Audio Recording Management Software Module

Functions

Records speakers' audio information:

- Integrated into **TAIDEN** conference management application software, easy to operate
- Automatic recording:
 - ◆ Begin/end automatic recording according to microphone on/off
 - ◆ Set up record audio quality
 - ◆ Once microphone enabled, speaking delegate's voice is recorded in audio file (WAV or MP3 format)
 - ◆ Saved audio file available for copying, playback, etc.
- If automatic audio recording is not activated, operator manually starts/stops recording. Record file name display

HCS-4221/50 Multi-User Console Module



The primary window of multi-user console

Functions

If more than one operator is involved, a multi-user console is available for controlling speaking and voting, apart the system application software. A maximum of 5 multi-user consoles can be connected at the same time.

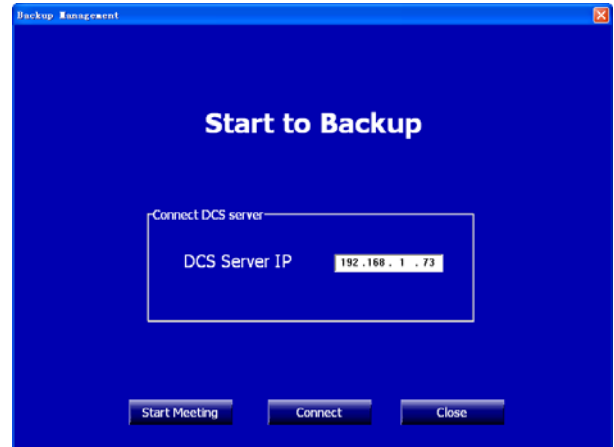
Basic conference control module:

- Microphone control
- Sign-in management
- Voting management
- Intercom
- Booth management
- Seat arrangement
- Proposal information
- Connect server
- Set up system parameters and download venue files from the server

Ordering Information

HCS-4221/50.....Multi-User Conference Control Software Module

HCS-4222/50 Dual PC Server Hot Spare Module



Start to backup interface



Backing up interface

Functions

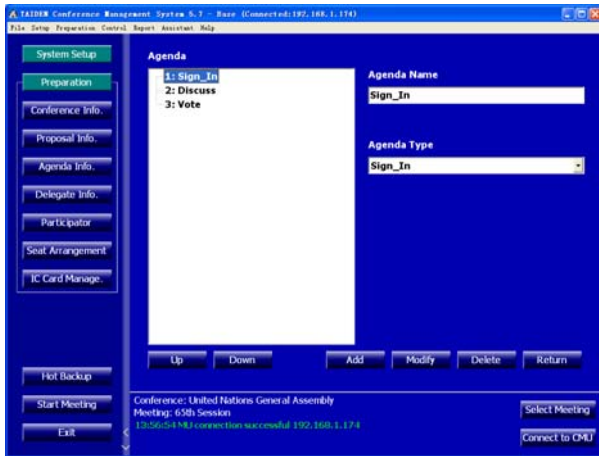
HCS-4100/50 dual PC server hot-spares is a disaster protective structure. If the main operating computer breaks down during a conference, the backup computer immediately substitutes the main computer and continues conference management.

After connection to main operating computer, the backup console application first starts an automatic backup (incl. database and conference related information). If there is any change in the database, the backup console application will update backup automatically.

Ordering Information

HCS-4222/50.....Dual PC Server Hot Spare Software Module

HCS-4223/50 Agenda Control Module



Agenda Information



Agenda control

Functions

Agenda is a list of meeting activities in the order in which they are to be worked off. The agenda is prepared beforehand. It may include sign-in, voting and discussion. Agenda edit prepares all activities and their sequence to ensure convenience and a well arranged course of events. Agenda Management module consists of agenda information management and agenda control sub modules.

- **Agenda information management:** edit agenda content and sequence
 - ◆ Includes agenda name, agenda type and activity
 - ◆ Sequence of each activity adjustable - user can add, modify, delete an activity
- **Agenda control:** control the meeting process according to the pre-defined agenda content and sequence
 - ◆ Select an agenda from the agenda list and execute it
 - ◆ List the status of each agenda
 - ◆ Agenda can be edited, added, modified, or deleted during the meeting

Ordering Information

HCS-4223/50.....Agenda Control Software Module

HCS-4224/50 Speech Prompt Module



Speech prompt

Functions

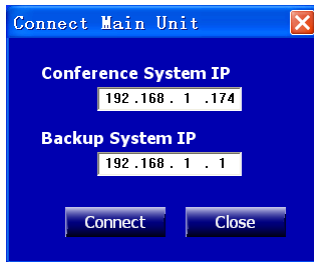
Speech Prompt Module is a displayed line-by-line reproduction of the speech to assist the speaker. The lecture unrolls smoothly and can be controlled manually or automatically.

- Manual control: unrolling sentence by sentence, operator can unroll the lecture by "Previous (Sentence)" or "Next (Sentence)"
- Automatic control: automatically unroll the lecture character by character, the scrolling rate can be set

Ordering Information

HCS-4224/50.....Speech Prompt Software Module

HCS-4225/50 Dual System Main Unit Hot Spare Module



Connect to CMU

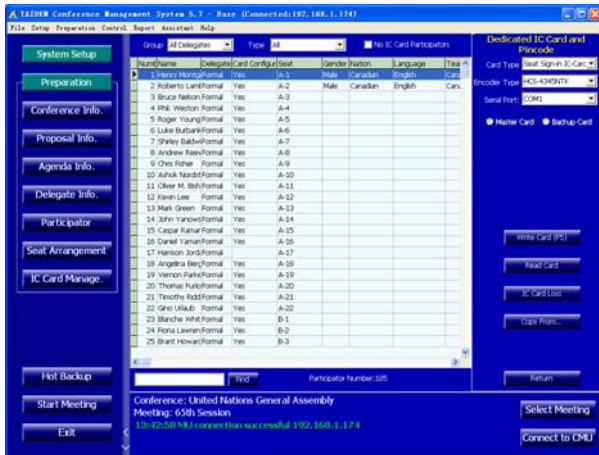
Functions

HCS-4100 dual main unit hot spare is a disaster protective structure. Besides the main unit, user can set another CMU as backup CMU and connect it to the system. If the main unit breaks down during the conference, the backup main unit substitutes the main unit and system software will connect to backup CMU automatically, ensuring consistency of the conference.

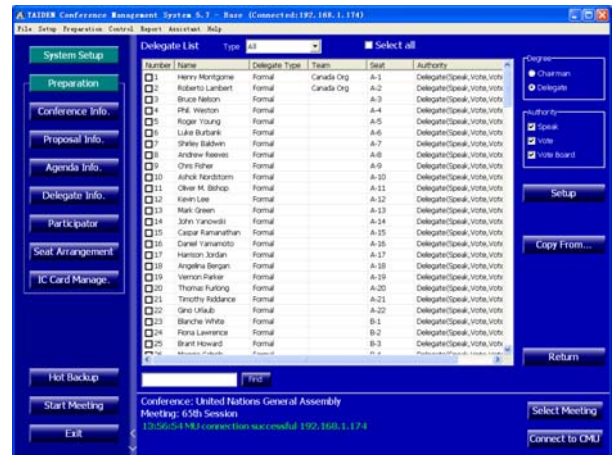
Ordering Information

HCS-4225/50_ Dual System Main Unit Hot Spare Software Module

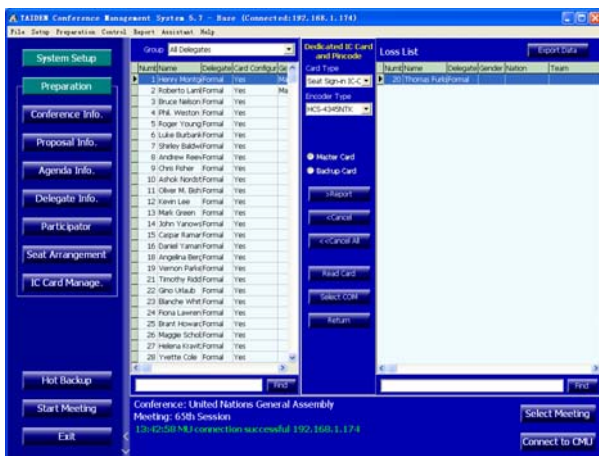
HCS-4226/50 Touched/Contactless IC-Card Sign-in Management Module



IC-Card distribution



Delegate authority



IC-Card loss



Delegate information

Functions

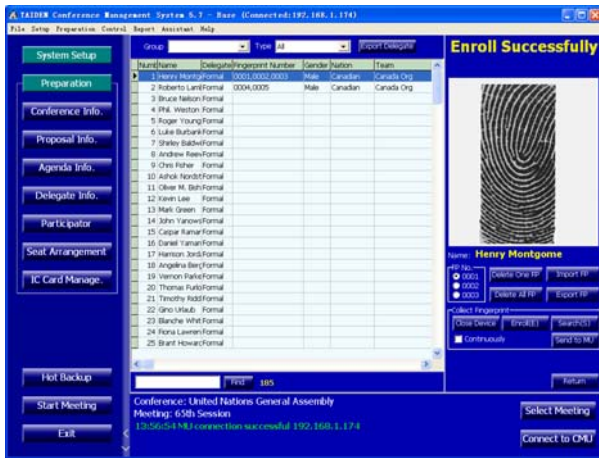
IC-Card distribution, IC-Card loss, IC-Card take back and delegate management sub modules

- **IC-Card distribution:**
 - ♦ The IC-Card contains conference number, participant's number, identity, rights, etc.
 - ♦ Card authentication restricted to one conference facility. New authentication subject to IC-Card rewriting
 - ♦ Write IC-Card before IC-Card distribution
- **IC-Card loss:** report card loss. Cards counted for lost cannot carry out conference sign-in
- **IC-Card take back:** when the conference is over, the cards used during the conference can be taken back, erased and rewritten for next use
- **Delegate management** includes three sub-modules: delegate information, participants and delegate authority
 - ♦ **Delegate information:** create and manage the delegate's database
 - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
 - Customer-specific options for above items
 - Supports customized delegate grouping
 - Fast search facility
 - Database updatable
 - ♦ **Participants:** select the delegates to participate in the conference from the database
 - List delegate information by group or by delegate type
 - Group adding function
 - ♦ **Delegate authority:**
 - Degree: chairman or delegate
 - Authority: speak, vote and vote board

Ordering Information

HCS-4226/50.....Touched/Contactless IC-Card Sign-in Management Software Module

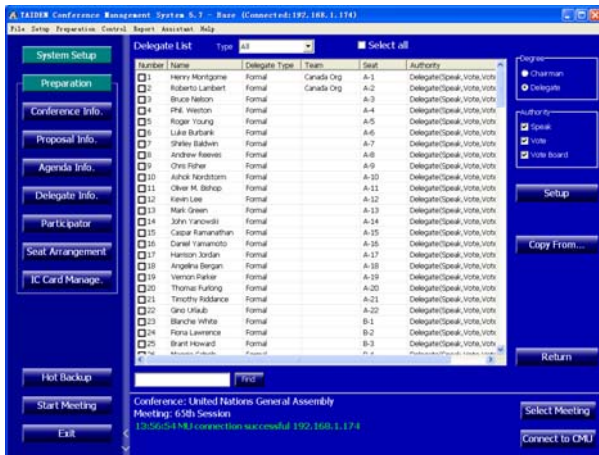
HCS-4229/50 Fingerprint Identification Management Software Module



Fingerprint management



Delegate information



Delegate authority

Functions

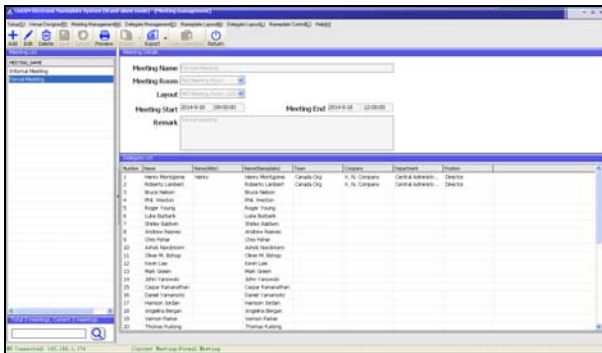
Fingerprint management and delegate management sub modules

- **Fingerprint management:**
 - ◆ Enroll fingerprint and the fingerprint data will be numbered automatically by the system
 - ◆ Search fingerprint and the result is listed with matching score
 - ◆ Delete fingerprint before meeting started
 - ◆ Import/export fingerprint data from/to file before meeting started
- **Delegate management** includes three sub-modules: delegate information, participants and delegate authority
 - ◆ Delegate information: create and manage the delegate's database
 - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
 - Users can customize the options in the above items
 - Customer-specific options for above items
 - Supports customized delegate grouping
 - Fast search facility
 - Database updatable
 - ◆ Participants: select the delegates to participate in the conference from the database
 - List delegate information by group or by delegate type
 - Group adding function
 - ◆ Delegate authority:
 - Degree: chairman or delegate
 - Authority: speak, vote and vote board

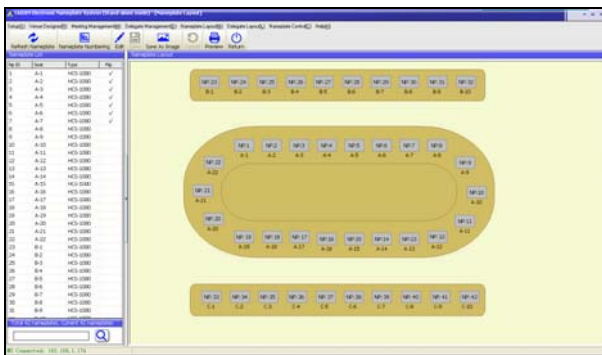
Ordering Information

HCS-4229/50.....Fingerprint Identification Management Software Module

HCS-4231/50 Electronic Nameplate Management Software Module (for HCS-1080, HCS-8338-NP and HCS-8348-NP)



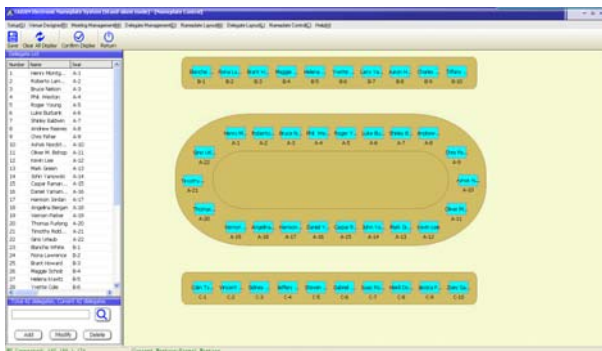
Meeting Management



Nameplate Layout



Delegate Management



Nameplate Control

Functions

TAIDEN electronic nameplate system works together with TAIDEN E-ink nameplate to realize soft, flicker-free, glare-free and power saving electronic nameplate function. It has two work modes: Stand-alone mode and DCS access mode.

- Stand-alone mode
 - ◆ Setup: supports role management, user management, connect to MU, receive meeting file, default nameplate setting, search 1080T, etc.;
 - ◆ Venue Designer: venue designer is the reproduction of the actual layout of the room venue; and supports several room layouts designed for one meeting room.
 - ◆ Meeting Management: add/edit meeting information and edit delegate information;
 - ◆ Delegate Management: create and manage the delegate's database; set up display effect for delegate screen;
 - ◆ Nameplate Layout: assign the nameplate to the corresponding positions based on the true seating layout
 - ◆ Delegate Layout: assign delegate to the corresponding positions based on the true seating layout
 - ◆ Nameplate Control: includes save layout data, clear all display, confirm display, edit delegate information, etc. If the seating was rearranged or delegate information was changed during the meeting, the nameplate will automatically refresh after confirming display
- DCS access mode: gets meeting database from DCS server; supports download room file, default nameplate setting, search 1080T, etc. Nameplate Layout and Display Control can be operated conveniently

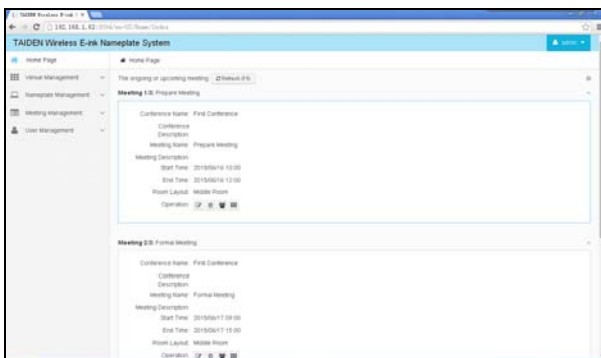
Ordering Information

HCS-4231/50.....Electronic Nameplate Management Software Module (for HCS-1080, HCS-8338-NP and HCS-8348-NP)

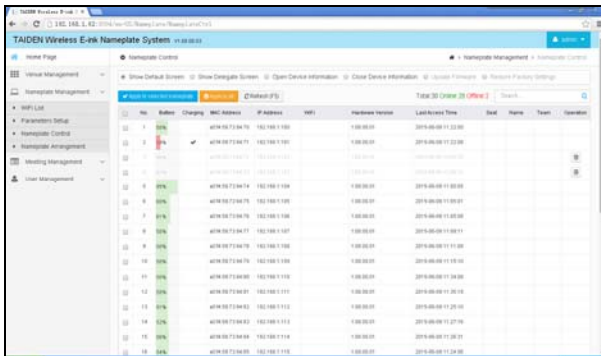
HCS-4232/50 Electronic Nameplate Management Software Module (for HCS-1081)



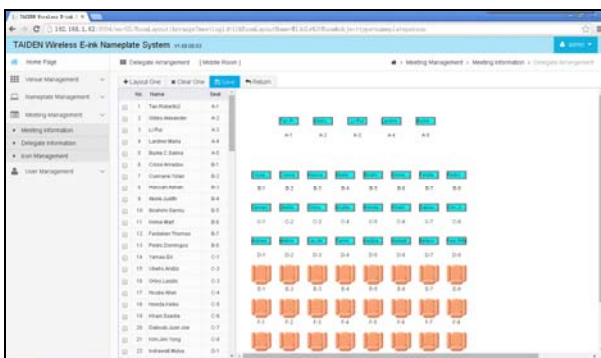
Login



Home Page



Nameplate Control



Delegate Arrangement

Functions

TAIDEN wireless E-ink nameplate system is an electronic nameplate control and management platform based on WiFi network, cooperating with TAIDEN HCS-1081 wireless E-ink nameplate. After configure the wireless E-ink nameplate system on the server, users can control the system through any computer which can access the server. The system is deployed on the server, 7x24 running. Users can log in remotely, build meetings, participants, and arrangement information. The nameplate system will automatically detect the schedule, automatically power on and refresh the nameplates according to the schedule.

- Venue Management
 - ◆ Venue Designer: venue designer is the reproduction of the actual layout of the room venue;
 - ◆ Layout Management: check and manage room layout;
- Nameplate Management
 - ◆ WiFi List: add and manage WiFi information;
 - ◆ Parameters Setup: supports default screen setup, power saving setup and update firmware file;
 - ◆ Nameplate Control: control nameplate display, update firmware and check nameplate information includes battery, charging, IP address, WiFi, seat, etc.;
 - ◆ Nameplate Arrangement: assign the nameplate to the corresponding positions based on the true seating layout;
- Meeting Management
 - ◆ Meeting Information: add/edit conference and meeting information; add/edit participants for each meeting and arrange delegates to seats;
 - ◆ Delegate Information: create and manage the delegate's database; set up display effect for delegate screen
 - ◆ Icon Management: upload and manage icon file in order to add icon in nameplate screen display;
- User Management
 - ◆ User Information: create/delete a user, change user password and role;
 - ◆ Role Information: create/delete a role, change role rights.

Ordering Information

HCS-4232/50.....Electronic Nameplate Management Software Module (for HCS-1081)

HCS-4243/50 Digital HD Video Recording Management Software Module



Preview interface

Functions

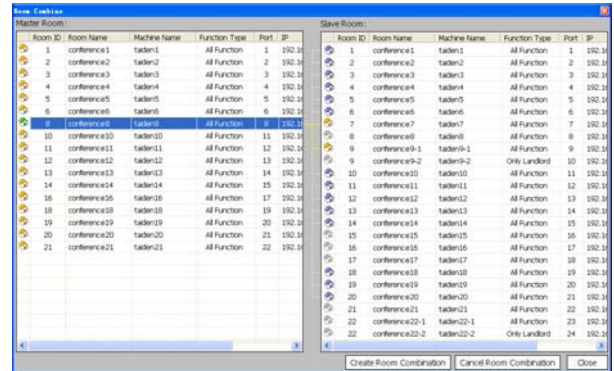
Digital HD Video Recording Management Software Module works on dual-core processor/4G or higher/Discrete graphic card/1440×900 (better)/DirectX 9.0 or higher Running Environment. With HCS-8130M series Professional Audio & Video Recorders can realize functions of video preview, video and record playback, meeting and management download, etc.

- **Preview, Playback, Download, Meeting and Management**
- **Includes screen layout, preview, video record, meeting record playback, information management and meeting download:**
 - ◆ Screen layout: layout of multi sub screen, 4,6,8 or 9 sub screens
 - ◆ Preview
 - ◆ Record: record meeting video manually; if having connected to DCS, record starts when meeting starts
 - ◆ Playback: files playback, must connect corresponding DVR
 - Playback video channel optional, playback all channels or any channel
 - Video display adjustable, 4:3 or 16:9
 - Support play/lull, stop, quick play and slow play
 - Support search by meeting, room or time, etc.
 - ◆ Information management: set up the connection of conference devices and synchronize meeting information from DVR to PC
 - ◆ Download: download video and audio files
 - Select the partition time(10min, 30min, 60min, 90min or 120min) as stated capacity to partition the file into some sections to save
 - Download type optional, includes speak information, SI information and proposal information
 - User defined information by time, defined a new event from the selected conference by setting up the start time and end time

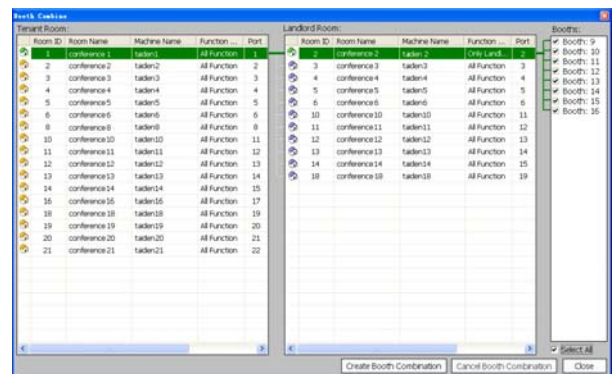
Ordering Information

HCS-4243/50.....Digital HD Video Recording Management Software Module

HCS-4244/50 Rooms & Booths Combine Control Software Module



Room combination



Booth combination

Functions

Cooperating with the HCS-8300MX/FS Booth Combiner and the HCS-8302MX/FS General Controller For Booth Combiners. Rooms & Booths Combine Control Software can realize conference rooms combination and booth sharing, cable connections do not need to be changed, includes:

- **Room combination:** select master room and slave room to realize room combination
- **Booth combination:** select tenant room and landlord room to realize booth combination
- **Device and setting**
 - ◆ Devices list: add/search/delete devices in the system
 - ◆ Port setting: view and set port information include fiber port, connect type, function type, room ID, etc.
 - ◆ Assets search: search device information of HCS-8300MX/FS and HCS-8302MX/FS
- **User and help**
 - ◆ User management: create/delete a user
 - ◆ Help: open help document
- **Abnormal information**
 - ◆ Inconformity of the working mode
 - ◆ Short-circuit protection

Ordering Information

HCS-4244/50.....Rooms & Booths Combine Control Software Module

HCS-5100CHG/60 IR Receiver Charging Case



Features

- Used for charging IR receivers (HCS-5100R)
- Charges 60 pcs of IR receivers per charging
- Uses universal power supply with automatic voltage

Controls and Indicators

- Power switch
- Charging indicator on the receiver
- booth supplying the same interpretation channel.
- A maximum of six interpreter units can be installed in each booth

Interconnections

- Power output interface
- Power input interface
- Charging lattices

Technical Specifications Electrical

Power supply AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
 Power consumption 125 W (60 receivers charging)
 Power consumption (standby) 7W no receiver in charging case

Mechanical

Dimensions h x w x d (mm) 260 x 610 x 405
 Net weight 14.5 kg (w/o IR receiver)
 Color Blue

HCS-5100KS IR Receiver Storage Case



Features

- Used for storing and transporting IR receivers
- Every case can store up to 100 IR receivers

Technical Specifications Mechanical

Dimensions h x w x d (mm) 205x669x307
 Net weight 6.0kg(w/olRreceiver)
 Gross weight 14.0 kg (w/100 pcs IR receivers, w/o battery)
 Color Blue

BNC Connector



Features

- Used to connect HCS-5100M/N and HCS-5100T/S or between HCS-5100T/SEvery case can store up to 100 IR receivers
- Used with RG-59 Coaxial-cable

HCS-5100PA Headphone



Features

- Used with the receiver or a conference unit
- Hi-Fi sound quality
- 32 Ω \times 2, \varnothing 3.5 mm stereo plug
- Frequency response: 20 Hz to 20 kHz
- Sensitivity: =108 dBA/1 mW

EP-820AS Single Earphone



Features

- Used with the receiver or a conference unit
- Hi-Fi sound quality
- \varnothing 3.5 mm stereo plug
- 32 Ω (Tip and Sleeve, Ring: NC)
- Frequency response: 50 Hz to 20 kHz
- Sensitivity: =102 dBA/1 mW

HCS-5100PB Headphone



Features

- Used with the receiver or a conference unit
- Hi-Fi sound quality
- 32 Ω \times 2, \varnothing 3.5 mm stereo plug
- Frequency response: 20 Hz to 20 kHz
- Sensitivity: =108 dBA/1 mW

EP-828 Single Earphone



Features

- Used with the receiver or a conference unit
- Hi-Fi sound quality
- \varnothing 3.5 mm stereo plug (TRS)
- 32 Ω (Tip and Sleeve, Ring: NC)
- Frequency response: 20 Hz to 20 kHz
- Sensitivity: =108 dBA/1 mW

EP-829SW Single Earphone with Switch



Features

- Used with the receiver or a conference unit
- Excellent sound quality
- Built-in magnetic control switch
- Earshell is detachable and washable, convenient for cleaning
- Ø 3.5 mm stereo plug (TRS)
- 32 Ohm (Tip and Sleeve, Ring: NC)
- Frequency response: 20 Hz to 20 kHz
- Sensitivity: =108 dBA/1 mW

HCS-5100BAT-16 Ni-MH Rechargeable Battery Pack



Features

- Ni-MH rechargeable battery pack
- Suitable for HCS-5100R series digital infrared receiver

Technical Specifications

Electrical

Voltage	2.4 V
Capacity	1600 mAh

Mechanical

Dimensions h x w x d (mm)	51 x 27 x 15
Weight	50 g
Color	Green

Coaxial-cable



Features

- Equivalent impedance: 75 Ohm
- Ø5mm(RG-59)
- Ø7mm(RG-6/U)
- Length of per roll:300 meter

EP-960AH Interpreter Headset with Microphone



Features

- Incorporated with interpreter unit for monitoring and speaking
- Excellent sound quality
- Interpreters can wear the headset according to their habits
- One sided wire, provide better user experience
- Greater headband adjustability, suitable for all the users
- 150 Ohm × 2, Ø 3.5 mm stereo plug (TRS) for headphone
- Ø 3.5 mm stereo plug (TRS, Ring: NC) for microphone
- Frequency response of headphone: 20 Hz to 20 kHz
- Sensitivity of headphone: ≥108 dBA/1 mW
- Polar pattern of microphone: Omnidirectional
- Frequency response of microphone: 50 Hz to 20 kHz
- Sensitivity of microphone: -48 dBV/Pa
- Impedance of microphone: <680 Ohm

Ordering Information

EP-960AH__Interpreter Headset with Microphone(stereo, including a pair of Ø 58 mm Sponge Ear Pads and a pair of EP-960HD Detachable Earshells)

EP-960HD Detachable Earshells



Features

- Used for EP-960AH and EP-960BH
- Earshell is detachable and washable, convenient for cleaning
- Color: black

Ordering Information

EP-960HD_____Detachable Earshells for EP-960 (for EP-960AH/EP-960BH, 1 pair)

EP-960BH Interpreter Headset



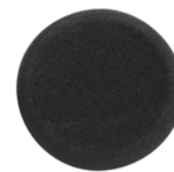
Features

- Incorporated with interpreter unit for monitoring
- Excellent sound quality
- One sided wire, provide better user experience
- Greater headband adjustability, suitable for all the users
- 150 Ohm × 2, Ø 3.5 mm stereo plug (TRS) for headphone
- Frequency response of headphone: 20 Hz to 20 kHz
- Sensitivity of headphone: ≥108 dBA/1 mW

Ordering Information

EP-960BH_____Interpreter Headset (stereo, including a pair of Ø 58 mm Sponge Ear Pads and a pair of EP-960HD Detachable Earshells)

Sponge Ear Pads



Features

- Used for headphone
- 50 pairs per package
- Color: black

Ordering Information

Sponge Ear Pads for HCS-5100PA_____Sponge Ear Pads (thick, for new HCS-5100PA, 50 pairs/package)

EP-960SP-L_____Sponge Ear Pads (Ø 70 mm, for EP-960AH/EP-960BH, 10 pairs/package)

EP-960SP-S_____Sponge Ear Pads (Ø 58 mm, for EP-960AH/EP-960BH, 10 pairs/package)

Mechanical

Dimensions h x w x d (mm)..... 155 × 46 × 24
 Weight
 Excl. batteries.....80 g
 Incl. batteries.....135 g
 Color.....Black (PANTONE 419 C)
 White (PANTONE Cool Gray 1 C)

Ordering Information

HCS-5100R/04.....4 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, black)

HCS-5100R/08.....8 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, black)

HCS-5100R/16.....16 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, black)

HCS-5100R/32.....32 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, black)

HCS-5100R_W/04.....4 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, white)

HCS-5100R_W/08.....8 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, white)

HCS-5100R_W/16.....16 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, white)

HCS-5100R_W/32.....32 CHs Digital Infrared Receiver
 (LCD, language display,
 optional rechargeable battery
 pack or 2xAA alkaline cells,
 excl. battery, white)

HCS-5100T/25B Digital Infrared Radiator



Features

- Compliant to IEC 61603-7 and IEC 60914
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Standby indication, working indication, failure indication
- Installation: fixed up by bracket or tripod (various mounting methods supported), 13 radiation angles
- Half-transmitting angle : $\pm 22^\circ$
- Emission power: 25 W
- Power consumption: 62 W
- Maximum radiation range: 50 meters
- Synchronization ON/OFF with transmitter
- Automatic gain control
- Temperature control: if temperature is too high, control switches to half-power with LED indication
- Manual half-power switch on the rear, convenient for small conferences
- Delay compensation for differences in cable lengths between transmitter and radiators

The radiator receives carrier signals generated by the transmitter and emits infrared radiation, carrying up to 32 audio distribution channels. Radiators are connected to the HF (BNC) connectors of the IR transmitter. A maximum of 30 daisy chained radiators can be connected to each output.

Controls and Indicators

- Power indicator
- Temperature protection indicator
- Input signal indicator
- Fault indicator
- Output power switch
- Delay compensation indicator
- Delay compensation buttons (-/+)

Interconnections

- HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

Technical Specifications

Electrical and optical

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency:
 Carriers 0 to 5.....2 to 6 MHz, according to IEC 61603-7
 Carriers 6 and 7.....Up to 8 MHz
 Angle of half intensity..... $\pm 22^\circ$
 HF input.....Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
 HF output.....1 Vpp, 6 V DC, 75 Ohm
 Power supply.....AC 100 V - 240 V 50/60 Hz
 Power consumption.....62 W
 Power consumption (standby).....3 W

Mechanical

Mounting.....Suspension bracket for direct ceiling mounting; mounting plates for floor stands; wall mounting bracket HCS-5100TBZJ can be used for fixing radiator to wall surfaces
 Dimensions h x w x d (mm).....212 x 448 x 110
 Weight.....3.1 kg
 Front color.....Red (PANTONE 476 C)

Ordering Information

HCS-5100T/25B.....25W Digital Infrared Radiator (delay compensation function, 75 Ω , switching power supply, without fan)

HCS-5100MA/FS/04N 4 CHs Digital Infrared Transmitter



Features

- Compliant to IEC 61603-7 and IEC 60914
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 4 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 4 channels
 - ◆ Mono, perfect quality, maximum 2 channels
 - ◆ Stereo, standard quality, maximum 2 channels
 - ◆ Stereo, perfect quality, maximum 1 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Automatic synchronization to the number of channels in use by the system
- "Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used
- Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 8 channels
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With optical fiber interface, DCS interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly, moreover, with 4 interpretation output channels for recording
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100 system. HCS-5100MA/FS/04N accepts and modulates up to 4 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/FS/04N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 4 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 4 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4385U/50 Interpreter Unit or HCS-8300M/HCS-4100M Congress Main Unit
- Duplex SC single-mode optical fiber interface and DCS interface (RJ45 standard socket) for connecting to HCS-8300M/HCS-4100M Congress Main Unit
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

HCS-8300ME/FS Congress Extension Main Unit



The maximum capacity of HCS-8300M series CMU is 60 contribution units. If extra contribution units are needed, HCS-8300ME/FS or HCS-8300ME Congress Extension Main Unit(s) must be added. The outlet connectors of both are identical. Each HCS-8300ME/FS or HCS-8300ME has two EXTENSION IN interfaces used to connect HCS-8300M series CMU or a preceding Congress Extension Main Unit, and an EXTENSION OUT interface for the next Congress Extension Main Unit.

Functions

- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 4 × (6P-DIN) trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit
- Equipped with two duplex SC single-mode optical fiber interfaces

Technical Specifications

Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
 Power consumption.....450 W

Mechanical

Mounting.....Tabletop or mounted in a 19" rack
 Dimensions (h × w × d)
 For table use, with feet.....99 × 430 × 325 mm
 For 19" rack use, with brackets.....89 × 478 × 350 mm
 Weight.....10.0 kg
 Color.....White (PANTONE 420 C)

Ordering Information

HCS-8300ME/FS.....Fully Digital Congress System Extension Main Unit (with 2 single-mode optical fiber interfaces, 4 congress unit outlets)

HCS-8300ME Congress Extension Main Unit



The maximum capacity of HCS-8300M series CMU is 60 contribution units. If extra contribution units are needed, HCS-8300ME/FS or HCS-8300ME Congress Extension Main Unit(s) must be added. The outlet connectors of both are identical. Each HCS-8300ME/FS or HCS-8300ME has two EXTENSION IN interfaces used to connect HCS-8300M series CMU or a preceding Congress Extension Main Unit, and an EXTENSION OUT interface for the next Congress Extension Main Unit.

Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 4 × 6P-DIN trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit

Technical Specifications

Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
 Power consumption.....450 W

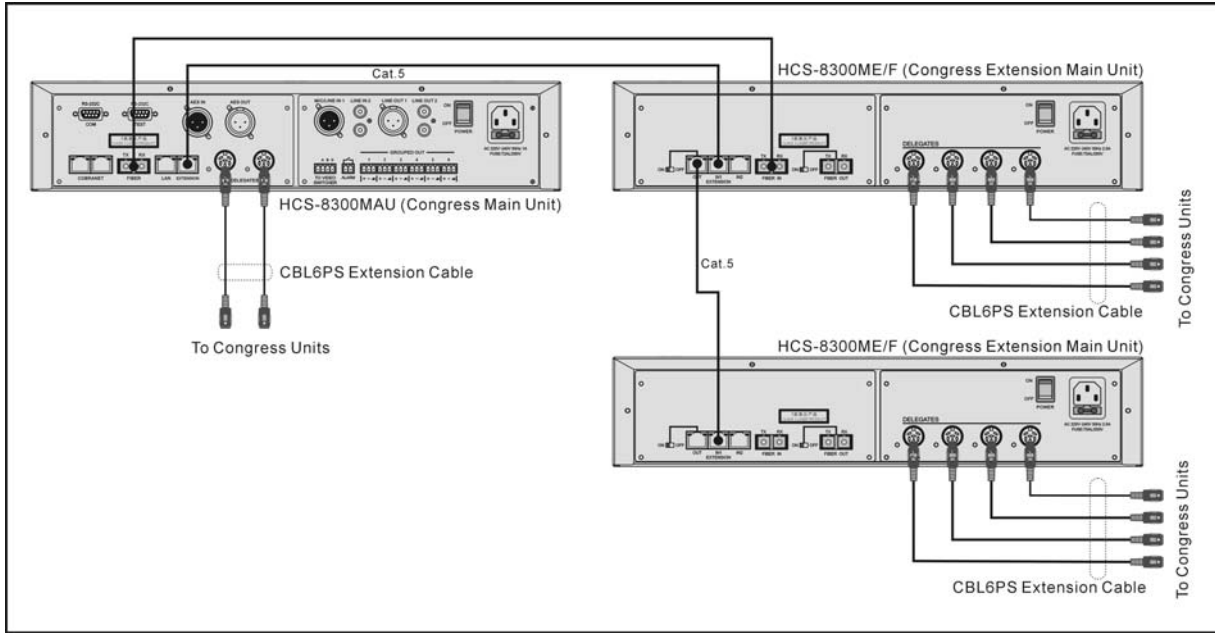
Mechanical

Mounting.....Tabletop or mounted in a 19" rack
 Dimensions (h × w × d)
 For table use, with feet.....99 × 430 × 325 mm
 For 19" rack use, with brackets.....89 × 478 × 350 mm
 Weight.....10.0 kg
 Color.....White (PANTONE 420 C)

Ordering Information

HCS-8300ME...Fully Digital Congress System Extension Main Unit
 (4 congress unit outlets)

System Connection



Low power consumption design

All congress units of HCS-8300 and HCS-4100/50 series (except HCS-8338 series and HCS-8348 series) are supplied by the main unit's 6P-DIN interface. Since the power capacity of the 6P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all congress units connected in each path and b) the power loss in connection cables do in no case exceed the maximum possible value delivered by each 6P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered. Refer to the table 1 for the max. connection number of congress units.

Note:

- The total added up cable length from the main unit to the furthest congress unit shall not exceed 250 m.
- Any connection cable length should be less than 80 meters (incl. the cable between the main unit and the next congress unit and the cable between any two sequential congress units), otherwise it will affect the signal quality. In case the length exceeds 80 m, cable splitter HCS-4352T/50 is needed.
- The extension cable between the main unit and the first congress unit is always carrying the maximum current, induced by the totality of the congress units connected to the dedicated socket. Due to Ohm's law the available supply voltage at the opposite end of this cable is lower than on the socket. This voltage drop is dependent on the cable length and the current. The number of overall connectable congress units to the main unit is therefore a function of the cable length and vice versa. However, when the cable is connected between the last two congress units, the influence is insignificant.

Table 1 Quick lookup table for the max. number of connected congress units

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket																			
		20 m	40 m	60 m	80 m	80 m + HCS-4352/50 +80 m	80 m + HCS-4352/50 + 80 m + HCS-4352/50 + 80 m														
Equipped with Electronic Nameplate, speaker and microphone	HCS-48U7/U8/U9 /U10+HCS-1080	11	10	9	8	5	-														
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	14	12	11	9	6	4														
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/50 HCS-4887/50 HCS-4380/50 HCS-4382/50 HCS-48U7 HCS-48U8 HCS-48U9	16	13	12	11	8	5														
	Equipped with OLED, speaker and microphone							HCS-48U10 HCS-4338N/50													
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/50 HCS-4370/50 HCS-4371/50 HCS-4360/50 HCS-4361/50 HCS-4362/50 HCS-4363/50 HCS-4340/50 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	22	19	17	15	9	6														
	Equipped with 256×32 LCD, without speaker nor microphone							HCS-4368/50	30	26	24	22	15	10							
	Equipped with microphone, without 256×32 LCD nor speaker							HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50	30	27	24	22	17	12							
								Without 256×32 LCD, speaker nor microphone							HCS-4368SDT/50 HCS-4368ADT/50	30	29	26	24	19	14

HCS-8300MES Congress Extension Unit



Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 3 × 6P-DIN trunk-line cable outlet, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (output) for connection with the next HCS-8300MES, connection cable length should be less than 80 meters

Technical Specifications

Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....150 W

Mechanical

Dimensions (h × w × d).....42 × 296 × 133 mm
 Weight.....1.5 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-8300MES.....Fully Digital Congress System Extension Unit
 (3 congress unit outlets)

Table 2 Quick lookup table of HCS-8300MES load capability

Type	Type No.	The extension cable length between the HCS-8300MES and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with Electronic Nameplate, speaker and microphone	HCS-48U7/U8/U9/U10 +HCS-1080	8	7	6	5
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	10	9	8	7
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/50 HCS-4887/50 HCS-4380/50 HCS-4382/50 HCS-48U7 HCS-48U8 HCS-48U9	12	11	10	9
Equipped with OLED, speaker and microphone	HCS-48U10 HCS-4338N/50				
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/50 HCS-4370/50 HCS-4371/50 HCS-4360/50 HCS-4361/50 HCS-4362/50 HCS-4363/50 HCS-4340/50 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	18	16	14	12
Equipped with 256×32 LCD, without speaker nor microphone	HCS-4368/50				
Equipped with microphone, without 256×32 LCD nor speaker	HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50	24	22	20	18
Without 256×32 LCD, speaker nor microphone	HCS-4368SDT/50 HCS-4368ADT/50				

HCS-4331CB/50 Chairman Unit with Channel Selection



Features

- Stylish and ergonomic design
- Hi-Fi loudspeaker
- Priority button
- Pluggable microphone
- Speech timer indicator
- "Closed Loop - Daisy Chain" connection topology
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 6-pin cable
- Supporting 48 kHz audio sampling rate, all 64 channels with a frequency response of 30 Hz to 20 kHz
- Built-in channel selector consists of up/down channel select buttons and 2-digit channel indicator display
- Excellent immunity to RF interference from mobile phones
- Gain and EQ (5 band) of each microphone adjustable separately
- Supporting "PnP" (plug and play)

The stylish and ergonomically designed chairman unit has the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4331DB/50 Delegate Unit, the HCS-4331CB/50 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The chairman unit can also be used to turn off all active microphones. Channel selection is automatically limited to the number of language channels available. Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to IEC 60914
- "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 in the system

- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 6-pin cable (general Cat.5 cable substitutable)
- Supporting 48 kHz audio sampling rate, all 64 channels with a frequency response of 30 Hz to 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, with foam windshield
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Facilities in stand-alone operation:
 - ⌚ Set the number of delegates permitted to speak at the same time
 - ⌚ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
 - ☞ "OPEN" mode, microphone On/Off button with request-to-speak registration (AUTO)
 - ☞ "OVERRIDE" mode, microphone On/Off button control with override of the active microphones (FIFO)
 - ☞ "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
 - ☞ "APPLY" mode, delegate applies to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
 - ☞ "PTT" mode, press microphone On/Off button to talk
 - ⌚ Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 6)
- Priority button to switch off or to mute the speaking units according to preset (except VIP)
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while only 1 chairman unit has the control facilities listed above (set by software)

Controls and Indicators

- Built-in channel selector consists with up/down channel select buttons and 2-digit channel indicator display
- Speech timer indicator
- Uni-directional electret condenser microphone with two-color illuminated ring
- Headphones volume up and down
- Microphone On/Off button with indicator

- Priority button

Interconnections

- Socket for pluggable microphone
- 2 × Ø 3.5 mm stereo headphone jack
- 2.1 m cable with 6P-DIN plug
- 6P-DIN socket

Technical Specifications

Electrical

Max. consumption..... 1.8 W

Headphone connection

Frequency response..... 30 Hz to 20 kHz

Earphone load impedance..... >16 Ohm

Earphone output..... 10 mW

Recommended microphone type

Transducer..... Electret-condenser

Polar pattern..... Uni-directional

Operating voltage..... 5 VDC

Sensitivity..... -46 dBV/Pa

Frequency response..... 50 Hz to 20 kHz

Input impedance..... 2 kOhm

Directivity 0°/180°..... > 20 dB (1 kHz)

Equivalent noise..... 20 dBA (SPL)

Maximum sound pressure level..... 125 dB (THD<3%)

Interface data

Connector..... 2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting..... Tabletop mounting

Dimensions (h x w x d) (w/o stem mic.)..... 61 x 156 x 125 mm

Weight (incl. stem microphone)..... 0.7 kg

Color..... Charcoal gray / Silver

Stem length..... 410 mm (standard version),
240 mm, 330 mm, 470 mm

Ordering Information

HCS-4331CB_G/50... Fully Digital Congress System Chairman Unit
(tabletop, 64 CHs, speech timer indicator,
charcoal gray)

HCS-4330CB_S/50... Fully Digital Congress System Chairman Unit
(tabletop, 64 CHs, speech timer indicator,
silver)

HCS-4100MA/FS/50 Congress Main Unit



Features

- Connectable to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- High system reliability guaranteed by “Closed Loop - Daisy Chain” connection topology
- Proprietary MCA-STREAM technology used to transmit fully digital audio between main unit(s) and congress units
- Perfect sound quality on all 64 simultaneous interpretation channels: frequency response 30 Hz to 20 kHz
- Connection facility for an additional condenser or dynamic microphone, expanding user’s application spectrum
- Dual connection backup via Cat.5 cable between congress main unit and extension main unit
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- TCP/IP communication protocol in PC control
- Remote control, remote diagnosis and remote update
- Voting facilities without PC intervention
- Built-in multi-channel intercom facility
- Plug and play for all units
- Excellent immunity to RF interference from mobile phones and comparable devices
- System power controllable by central control system

The Congress Main Unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator.

In combination with a PC, the main unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the main unit will revert to its stand-alone operation mode, enabling the conference to proceed.

Functions

- Compliant to IEC 60914
- “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
- Embedded high performance DSP for audio signal processing, supporting 48 kHz and 32 kHz audio sampling rate. All 64 channels feature perfect sound quality with a 30 Hz to 20 kHz frequency response

- Multi-room configuration: congress main unit(s) can be used as extension main unit(s) to carry out multi-room configuration flexibly. Multiple main unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator’s voice to achieve perfect speech pickup any time
- Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +24 V phantom power available at microphone input, a condenser microphone can be connected directly
- Unit offers connection facilities to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between main unit(s) and congress units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Built-in multi-channel intercom facility
- Connection facility for additional condenser or dynamic microphones, expanding users application spectrum (HCS-8300MI series audio input interface required)
- Dual connection backup between congress main unit and extension main unit via optical fiber and Cat.5 cable
- If additional contribution units are connected for system expansion, additional extension main units HCS-8300ME or HCS-8300ME/FS are required:
 - ◆ 4096 discussion or voting units
 - ◆ 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
 - ◆ Any quantity of channel selectors
- With the HCS-8300 series 8 channel digital/analog audio output device (several units cascadable), multi-channel digital/analog audio signals are available as output signals for infrared language distribution system or recording
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
 - ◆ Set the number (1/2/3/4) of delegates permitted to speak at the same time
 - ◆ Set-up of speaking time limitation (1~240 minutes)
 - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
 - “OPEN” mode, microphone On/Off button with request-to-speak registration (AUTO)
 - “OVERRIDE” mode, microphone On/Off button control with override of the active microphones (FIFO)
 - “VOICE” mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in “flash-on” technology, immediate microphone activation on speaking

- "APPLY" mode, delegate applies to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
- "PTT" mode, press microphone On/Off button to talk
- ◆ Parliamentary voting (YES/NO/ABSTAIN)
- ◆ 64 (1+63) channels simultaneous interpretation function. Cooperates with channel selector or infrared language distribution system enabling a larger audience to follow the conference
- In combination with the corresponding software modules, more functions can be implemented:
 - ◆ Centralized microphone management
 - ◆ Multiform voting:
 - For/Against
 - Parliamentary: YES/NO/ABSTAIN
 - Questionnaire: 1/2/3/4/5
 - Audience response: --/-/0/+/>++
 - Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
 - Appraisal:
 - ◇ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
 - ◇ Qualified (four/three/two keys voting)
 - ◇ Competent (four/three/two keys voting)
 - ◆ Several sign-in modes: entrance sign-in/seat sign-in
 - ◆ Depending on the purchased HCS-4100/50 software modules, user has access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control, remote diagnosis and remote update
- Hot spare dual server structure: another congress main unit is set up as backup main unit and connected to the system, takes over automatically if the main congress main unit fails
- Fully compatible with TAIDEN HCS-8300 Series New Generation Paperless Multi-media Congress System: HCS-8300 series congress units can be connected to the HCS-4100/50 system, and HCS-4100/50 series congress units can be connected to the HCS-8300 system (exclusive functions only available with HCS-8300 contribution units).
- Built-in unit detection facilities: detect the unit's microphone, loudspeaker, LEDs and voting keys prior to start of the meeting
- Automatic system recovery and "PnP" (plug and play)
- If the PC is broken down, congress main unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system
- Integrated real-time clock displays time on the LCD of the interpretation unit to inform interpreter to stay on schedule

Controls and Indicators

- Graphic 256x32 LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators

- LINE IN electric level adjust knob
- Congress unit floor audio channel master volume adjust knob

Interconnections

- Multiple audio in/out interfaces:
 - ◆ One balanced XLR-type connector for microphone input or audio line in
 - ◆ Two symmetrical RCA input interfaces for audio line in
 - ◆ One balanced XLRM-type connector for audio line out
 - ◆ Two symmetrical RCA output interfaces for audio line out
- 2 x RS232 port for connection to central control system and system diagnosis each
- Duplex SC single-mode optical fiber interface to combine two widely separated conference rooms and to operate as one unique coherent system
- 1 x RJ45 standard socket for connection to Ethernet interface (LAN)
- 1 x RJ45 standard socket (output) for connection with a congress extension main unit (EXTENSION)
- 2 x outlet (6P-DIN) trunk-line cable outlet
- Video switcher interface
- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to congress units
- 2 x USB interface at front panel to upgrade system and to save system parameters

Technical Specifications

Electrical

Frequency response	.....30 Hz to 20 kHz
SNR	.....>96 dBA
Dynamic range	.....>94 dB
Isolation	.....>85 dB
THD	.....<0.05%
Power supply	.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption	.....200 W
RS232 connection	.....2 x 9-pole Sub-D female socket

Max. audio inputs

LINE IN 1	.....+10 dBu, BAL.
LINE IN 2	.....+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1	.....+20 dBu, BAL.
LINE OUT 2	.....+20 dBu, UNBAL.

Mechanical

Mounting	.....Tabletop or mounted in a 19" rack
Dimensions (h x w x d)	
For table use, with feet	.....99 x 430 x 325 mm
For 19" rack use, with brackets	.....89 x 478 x 350 mm
Weight	.....7.8 kg
Color	.....White (PANTONE 420 C)

Ordering Information

HCS-4100MA/FS/50.....Fully Digital Congress System Main Unit (discussion, voting, 64 CHs, single-mode optical fiber interface)

HCS-4100MB/50 Congress Main Unit



Features

- Connectable to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- High system reliability guaranteed by “Closed Loop - Daisy Chain” connection topology
- Proprietary MCA-STREAM technology used to transmit fully digital audio between main unit(s) and congress units
- Perfect sound quality on all 64 simultaneous interpretation channels: frequency response 30 Hz to 20 kHz
- Connection facility for an additional condenser or dynamic microphone, expanding user’s application spectrum
- Dual connection backup via Cat.5 cable between congress main unit and extension main unit
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- TCP/IP communication protocol in PC control
- Remote control, remote diagnosis and remote update
- Voting facilities without PC intervention
- Built-in multi-channel intercom facility
- Plug and play for all units
- Excellent immunity to RF interference from mobile phones and comparable devices
- System power controllable by central control system

The Congress Main Unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator.

In combination with a PC, the main unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the main unit will revert to its stand-alone operation mode, enabling the conference to proceed.

Functions

- Compliant to IEC 60914
- “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
- Embedded high performance DSP for audio signal processing, supporting 48 kHz and 32 kHz audio sampling rate. All 64 channels feature perfect sound quality with a 30 Hz to 20 kHz frequency response

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator’s voice to achieve perfect speech pickup any time
- Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +24 V phantom power available at microphone input, a condenser microphone can be connected directly
- Unit offers connection facilities to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between main unit(s) and congress units
- Dual connection backup between congress main unit and extension main unit via Cat.5 cable
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Built-in multi-channel intercom facility
- Connection facility for additional condenser or dynamic microphones, expanding users application spectrum (HCS-8300MI series audio input interface required)
- If additional contribution units are connected for system expansion, additional extension main units HCS-8300ME or HCS-8300ME/FS are required:
 - ◆ 4096 discussion or voting units
 - ◆ 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
 - ◆ Any quantity of channel selectors
- With the HCS-8300 series 8 channel digital/analog audio output device (several units cascable), multi-channel digital/analog audio signals are available as output signals for infrared language distribution system or recording
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
 - ◆ Set the number (1/2/3/4) of delegates permitted to speak at the same time
 - ◆ Set-up of speaking time limitation (1~240 minutes)
 - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
 - “OPEN” mode, microphone On/Off button with request-to-speak registration (AUTO)
 - “OVERRIDE” mode, microphone On/Off button control with override of the active microphones (FIFO)
 - “VOICE” mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in “flash-on” technology, immediate microphone activation on speaking
 - “APPLY” mode, delegate applies to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
 - “PTT” mode, press microphone On/Off button to talk
 - ◆ Parliamentary voting (YES/NO/ABSTAIN)

- ◆ 64 (1+63) channels simultaneous interpretation function. Cooperates with channel selector or infrared language distribution system enabling a larger audience to follow the conference
- In combination with the corresponding software modules, more functions can be implemented:
 - ◆ Centralized microphone management
 - ◆ Multiform voting:
 - For/Against
 - Parliamentary: YES/NO/ABSTAIN
 - Questionnaire: 1/2/3/4/5
 - Audience response: --/-/0/+/++
 - Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
 - Appraisal:
 - ◇ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
 - ◇ Qualified (four/three/two keys voting)
 - ◇ Competent (four/three/two keys voting)
 - ◆ Several sign-in modes: entrance sign-in/seat sign-in
 - ◆ Depending on the purchased HCS-4100/50 software modules, user has access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control, remote diagnosis and remote update
- Hot spare dual server structure: another congress main unit is set up as backup main unit and connected to the system, takes over automatically if the main congress main unit fails
- Multi-room configuration: congress main unit(s) can be used as extension main unit(s) to carry out multi-room configuration flexibly. Multiple main unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Fully compatible with TAIDEN HCS-8300 Series New Generation Paperless Multi-media Congress System: HCS-8300 series congress units can be connected to the HCS-4100/50 system, and HCS-4100/50 series congress units can be connected to the HCS-8300 system (exclusive functions only available with HCS-8300 contribution units).
- Built-in unit detection facilities: detect the unit's microphone, loudspeaker, LEDs and voting keys prior to start of the meeting
- Automatic system recovery and "PnP" (plug and play)
- If the PC is broken down, congress main unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system
- Integrated real-time clock displays time on the LCD of the interpretation unit to inform interpreter to stay on schedule

Controls and Indicators

- Graphic 256x32 LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators

- LINE IN electric level adjust knob
- Congress unit floor audio channel master volume adjust knob

Interconnections

- Multiple audio in/out interfaces:
 - ◆ One balanced XLR-type connector for microphone input: or audio line in
 - ◆ Two symmetrical RCA input interfaces for audio line in
 - ◆ One balanced XLR-type connector for audio line out
 - ◆ Two symmetrical RCA output interfaces for audio line out
- 2 x RS232 port for connection to central control system and system diagnosis each
- 1 x RJ45 standard socket for connection to Ethernet interface (LAN)
- 1 x RJ45 standard socket (output) for connection with a congress extension main unit (EXTENSION)
- 2 x outlet (6P-DIN) trunk-line cable outlet
- Video switcher interface
- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to congress units
- 2 x USB interface at front panel to upgrade system and to save system parameters

Technical Specifications

Electrical

Frequency response.....	30 Hz to 20 kHz
SNR.....	>96 dBA
Dynamic range.....	>94 dB
Isolation.....	>85 dB
THD.....	<0.05%
Power supply.....	AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption.....	200 W
RS232 connection.....	2 x 9-pole Sub-D female socket

Max. audio inputs

LINE IN 1.....	+10 dBu, BAL.
LINE IN 2.....	+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1.....	+20 dBu, BAL.
LINE OUT 2.....	+20 dBu, UNBAL..

Mechanical

Mounting.....	Tabletop or mounted in a 19" rack
Dimensions (h x w x d)	
For table use, with feet.....	99 x 430 x 325 mm
For 19" rack use, with brackets.....	89 x 478 x 350 mm
Weight.....	7.8 kg
Color.....	White (PANTONE 420 C)

Ordering Information

HCS-4100MB/50.....	Fully Digital Congress System Main Unit (discussion, voting, 64 CHs)
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HCS-4100MC/50 Congress main unit



Features

- Connectable to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- High system reliability guaranteed by “Closed Loop - Daisy Chain” connection topology
- Adopted fully digital audio transmitting technology between the main units and congress units
- Supporting 48 kHz and 32 kHz audio sampling rate
- Connection facility for an additional condenser or dynamic microphone, expanding user’s application spectrum
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- TCP/IP communication protocol in PC control
- Remote control, remote diagnosis and remote update
- Voting facilities without PC intervention
- Built-in multi-channel intercom facility
- Plug and play for all units
- Excellent immunity to RF interference from mobile phones and comparable devices
- System power controllable by central control system

The Congress Main Unit includes features for controlling delegate microphones, and conducting voting sessions, without an operator. In combination with a PC, the main unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the main unit will revert to its stand-alone operation mode, enabling the conference to proceed.

Functions

- Compliant to IEC 60914
- “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
- Embedded high performance DSP for audio signal processing, supporting 48 kHz and 32 kHz audio sampling rate
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator’s voice to achieve perfect speech pickup any time
- Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters

- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +24 V phantom power available at microphone input, a condenser microphone can be connected directly
- Unit offers connection facilities to HCS-8300 series multichannel audio input or output devices for versatile expansion of the system
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Adopted fully digital audio transmitting technology between the main units and congress units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Built-in multi-channel intercom facility
- Connection facility for additional condenser or dynamic microphones, expanding users application spectrum (HCS-8300MI series audio input interface required)
- If additional contribution units are connected for system expansion, additional extension main units HCS-8300ME or HCS-8300ME/FS are required:
 - ◆ 4096 discussion or voting units
 - ◆ Any quantity of channel selectors
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
 - ◆ Set the number (1/2/3/4) of delegates permitted to speak at the same time
 - ◆ Set-up of speaking time limitation (1~240 minutes)
 - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
 - “OPEN” mode, microphone On/Off button with request-to-speak registration (AUTO)
 - “OVERRIDE” mode, microphone On/Off button control with override of the active microphones (FIFO)
 - “VOICE” mode, acoustic active sensitivity and automatic switch-off time can be adjusted continuously, built-in “flash-on” technology, immediate microphone activation on speaking
 - “APPLY” mode, delegate applies to speak by pressing microphone On/Off button, delegate can speak only when operator or chairman approved his application
 - “PTT” mode, press microphone On/Off button to talk
 - ◆ Parliamentary voting (YES/NO/ABSTAIN)
- In combination with the corresponding software modules, more functions can be implemented:
 - ◆ Centralized microphone management
 - ◆ Multiform voting:
 - For/Against
 - Parliamentary: YES/NO/ABSTAIN
 - Questionnaire: 1/2/3/4/5
 - Audience response: --/0/+/>
 - Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
 - Appraisal:
 - ◆ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)

- ◇ Qualified (four/three/two keys voting)
 - ◇ Competent (four/three/two keys voting)
- ◆ Several sign-in modes: entrance sign-in/seat sign-in
- ◆ Depending on the purchased HCS-4100/50 software modules, user has access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control, remote diagnosis and remote update
- Hot spare dual server structure: another congress main unit is set up as backup main unit and connected to the system, takes over automatically if the main congress main unit fails
- Multi-room configuration: congress main unit(s) can be used as extension main unit(s) to carry out multi-room configuration flexibly. Multiple main unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Fully compatible with TAIDEN HCS-8300 Series New Generation Paperless Multi-media Congress System: HCS-8300 series conference units can be connected to the HCS-4100/50 system, and HCS-4100/50 series congress units can be connected to the HCS-8300 system (exclusive functions only available with HCS-8300 contribution units).
- Built-in unit detection facilities: detect the unit's microphone, loudspeaker, LEDs and voting keys prior to start of the meeting
- Automatic system recovery and “PnP” (plug and play)
- If the PC is broken down, congress main unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

Controls and Indicators

- Graphic 256x32 LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators
- LINE IN electric level adjust knob
- Congress unit floor audio channel master volume adjust knob

Interconnections

- Multiple audio in/out interfaces:
 - ◆ One balanced XLR-type connector for microphone input: or audio line in
 - ◆ Two symmetrical RCA input interfaces for audio line in
 - ◆ One balanced XLR-type connector for audio line out
 - ◆ Two symmetrical RCA output interfaces for audio line out
- 2 x RS232 port for connection to central control system and system diagnosis each
- 1 x RJ45 standard socket for connection to Ethernet interface (LAN)
- 1 x RJ45 standard socket (output) for connection with a congress extension main unit (EXTENSION)
- 2 x outlet (6P-DIN) trunk-line cable outlet
- Video switcher interface

- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to congress units
- 2 x USB interface at front panel to upgrade system and to save system parameters

Technical Specifications

Electrical

Frequency response.....	30 Hz to 20 kHz
SNR.....	>96 dBA
Dynamic range.....	>94 dB
Crosstalk.....	>85 dB
THD.....	<0.05%
Power supply.....	AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption.....	200 W
RS232 connection.....	2 x 9-pole Sub-D female socket

Max. audio inputs

LINE IN 1.....	+10 dBu, BAL.
LINE IN 2.....	+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1.....	+20 dBu, BAL.
LINE OUT 2.....	+20 dBu, UNBAL.

Mechanical

Mounting.....	Tabletop or mounted in a 19" rack
Dimensions (h x w x d)	
For table use, with feet.....	99 x 430 x 325 mm
For 19" rack use, with brackets.....	89 x 478 x 350 mm
Weight.....	7.8 kg
Color.....	White (PANTONE 420 C)

Ordering Information

HCS-4100MC/50.....	Fully Digital Congress System Main Unit (discussion, voting)
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HCS-8300 and HCS-4100/50 Series Congress Main Units Function list

Type No.	Speech	Voting	Graphic LCD	64CHs SI	Mic. group output	Optical fiber interface	CobraNet interface	Dante interface	Mixer interface	AES/EBU interface
HCS-8300MAD/FS/20	√	√	√	√	√	√		√	√	√
HCS-8300MAU/FS	√	√	√	√	√	√	√		√	√
HCS-8300MB/20	√	√	√	√	√					
HCS-4100MA/FS/50	√	√	√	√		√				
HCS-4100MB/50	√	√	√	√						
HCS-4100MC/50	√	√	√							

Low power consumption design

All congress units of HCS-8300 and HCS-4100/50 series (except HCS-8338 series and HCS-8348 series) are supplied by the main unit's 6P-DIN interface. Since the power capacity of the 6P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all congress units connected in each path and b) the power loss in connection cables do in no case exceed the maximum possible value delivered by each 6P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered. Refer to the table 1 for the max. connection number of congress units.

Note:

- The total added up cable length from the main unit to the furthest congress unit shall not exceed 250 m.
- Any connection cable length should be less than 80 meters (incl. the cable between the main unit and the next congress unit and the cable between any two sequential congress units), otherwise it will affect the signal quality. In case the length exceeds 80 m, cable splitter HCS-4352T/50 is needed.
- The extension cable between the main unit and the first congress unit is always carrying the maximum current, induced by the totality of the congress units connected to the dedicated socket. Due to Ohm's law the available supply voltage at the opposite end of this cable is lower than on the socket. This voltage drop is dependent on the cable length and the current. The number of overall connectable congress units to the main unit is therefore a function of the cable length and vice versa. However, when the cable is connected between the last two congress units, the influence is insignificant.

Table 1 Quick lookup table for the max. number of connected congress units

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket					
		20 m	40 m	60 m	80 m	80 m + HCS-4352/50 +80 m	80 m + HCS-4352/50 + 80 m + HCS-4352/50 + 80 m
Equipped with E-ink Nameplate, speaker and microphone	HCS-48U7/U8/U9/U10/4886N+HCS-1080	11	10	9	8	5	-
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	14	12	11	9	6	4
Equipped with 7.2" LCD, speaker and microphone	HCS-8385/60	8	8	7	7	5	4
	2 HCS-8385/60 + HCS-8385HDMI	3	3	2	2	1	-
	3 HCS-8385/60 + HCS-8385HDMI	2	2	1	1	-	-
	4 HCS-8385/60 +1 HCS-8385HDMI	2	2	1	1	-	-
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/54 HCS-4887/54 HCS-48U7 HCS-48U8 HCS-48U9	16	13	12	11	8	5
Equipped with OLED and microphone	HCS-48U10 HCS-4338N/50 HCS-4860/50 HCS-4865/50 HCS-4866/50						
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/54 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	22	19	17	15	9	6
Equipped with 256×32 LCD, without speaker nor microphone	HCS-4368/50	30	26	24	22	15	10
Equipped with microphone, without 256×32 LCD nor speaker	HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50	30	27	24	22	17	12
Without 256×32 LCD, speaker nor microphone	HCS-4368SDT/50	30	29	26	24	19	14
Equipped with 10" LCD	HCS-8335 HCS-8336	6	6	5	4	-	-
	HCS-8335-NP	5	5	4	3	-	-
HCS-4340/50 series Multi-function connector	HCS-4340A/50 HCS-4340DT/50	10	9	9	9	7	6
	HCS-4340B/50	9	8	8	8	6	5
E-ink Nameplate	HCS-1080	30	26	22	21	-	-
		Note: the connection number of HCS-1080T is no more than 15 for each 6P-DIN interface.					

Table 2 Quick lookup table of HCS-8300MES load capability

Type	Type No.	The extension cable length between the HCS-8300MES and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with E-ink Nameplate, speaker and microphone	HCS-48U7/U8/U9/U10/ 4886N+HCS-1080	8	7	6	5
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	10	9	8	7
Equipped with 7.2" LCD, speaker and microphone	HCS-8385/60	7	7	6	6
	2 HCS-8385/60 + HCS-8385HDMI	3	3	2	2
	3 HCS-8385/60 + HCS-8385HDMI	2	2	1	1
	4 HCS-8385/60 +1 HCS-8385HDMI	2	2	1	1
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/54 HCS-4887/54 HCS-48U7 HCS-48U8 HCS-48U9	12	11	10	9
Equipped with OLED and microphone	HCS-48U10 HCS-4338N/50 HCS-4860/50 HCS-4865/50 HCS-4866/50				
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/54 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	18	16	14	12
Equipped with 256×32 LCD, without speaker nor microphone	HCS-4368/50	24	22	20	18
Equipped with microphone, without 256×32 LCD nor speaker	HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50				
Without 256×32 LCD, speaker nor microphone	HCS-4368SDT/50				
Equipped with 10" LCD	HCS-8335 HCS-8336	5	5	4	3
	HCS-8335-NP	4	4	3	2
HCS-4340/50 series Multi-function connector	HCS-4340A/50 HCS-4340DT/50	9	8	8	8
	HCS-4340B/50	8	7	7	7
E-ink Nameplate	HCS-1080	21	20	20	19
		Note: the connection number of HCS-1080T is no more than 15 for each 6P-DIN interface.			

HCS-4385U/50 64-channel Simultaneous Interpreter unit



Features

- Compliant to ISO 2603, ISO 4043 and IEC 60914
- “Closed Loop - Daisy Chain” connection topology
- Up to 64 interpretation channels including the original floor language
- Supporting 48 kHz audio sampling rate, all 64 channels with a frequency response of 30 Hz to 20 kHz
- Excellent immunity to RF interference from mobile phones
- Ergonomic design with features for visually impaired
- Adjustable microphone sensitivity
- Repeat function (REP. key)
- Graphic LCD with backlighting for bright information display in dark conditions
- 5 pre-select buttons for relay languages with activation indication at the display
- Gain and EQ of the activated microphone adjustable
- Built-in multi-channel intercom facility

HCS-4385U/50 Interpreter Unit provides up to 64 CHs language channels. It is composed of a graphic 256x64 LCD with back-lighting, built-in 64 CHs channel selector and loudspeaker, pluggable stem microphone and headphone/microphone jacks. LCD can display channel number, language name, input language, quality indication and short message, etc. Interpreter Unit's connection cable is compatible with the trunk-line cable, thus it is easy for Interpreter Unit to connect into existent system cabling. It provides two operational modes: normal interpretation and relay interpretation with auto-relay.


Functions

- Fully digital audio technology, compliant to ISO 2603, ISO 4043 and IEC 60914
- “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 in the system
- Accommodates up to 64 interpretation channels (incl. floor channel)

- Supporting 48 kHz audio sampling rate, all 64 channels with a frequency response of 30 Hz to 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Direct and relay interpretation available
- Auto relay interpretation facility
- Presets language name either by the main unit or the application software
- Gain and EQ of the activated microphone adjustable either by the main unit or the application software
- Microphone can be unplugged during adjournment, easy to maintain
- Built-in IC-Card reader
- Automatic feedback prevention when listening to own interpretation
- Built-in loudspeaker with volume control. If all microphones in the same booth are off, the loudspeaker will play floor language or interpretation channel
- Built-in multi-channel intercom facility
- Permits only one microphone on a channel to be activated at any time, ensuring the uniqueness of language channels
- Two necessary modes between interpreter booths:
 - Interlock: Blocks another interpreter from using the same channel in another interpreter booth.
 - Override: Allows an interpreter to override another interpreter in another interpreter booth supplying the same interpretation channel.
- A maximum of six interpreter units can be installed in each booth

Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring
- Graphic 256x64 LCD with back-lighting can display of the following:
 - Unit configuration information
 - Incoming/outgoing channel number and language name
 - Channel number and language name of loudspeaker output
 - Incoming language indication
 - ◆ If the monitoring language comes from the original floor channel, a "FLOOR" is displayed on the corresponding language channel
 - ◆ If the monitoring language comes from the direct interpretation channel of the floor language, a "+" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of the floor language, a "-" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of an interpretation language, a "--" is displayed
 - ◆ If the monitoring language comes from the output interpretation channel of current interpreter unit, a "X" is displayed
 - ◆ Note: The indication means to remind the interpreters to avoid using the relay interpretation as often as possible if the direct interpretation is available

- Short messages (administrator can send messages to all or part of participants, even a certain one)
- Multilingual menus available (Simplified/Traditional Chinese and English, etc.)
- Integrated real-time clock displays time on the LCD of the interpreter unit to inform interpreter to stay on schedule
- 5 pre-select buttons (a/b/c/d/e) for relay languages with active indication on LCD
- Rotary step control for fast selecting language channels
- A/B/C channel key with engaged indicator
- Mute facility prevents constrained voice being transmitted (MUTE key)
- Speak slowly facility to alert the current speaker to slow down (SLOW key)
- Call to an operator (CB key)
- Repeat function (REP. key)
- Interpreter unit's microphone can be turned off and A/B/C output channels can be switched by operator, when operating conference system management software
- Volume and bass/treble of the headphone adjustable
- Volume of the loudspeaker adjustable
- Floor channel ON/OFF switch
- Microphone ON/OFF switch
- When connected to PC and controlled by application software, call for help and help information will be displayed on status bar of the application software (HELP key)
- Setup an intercom channel directly to an appointed congress unit, which is appointed by main unit (CALL key)
- Beeps function
- Message key ()

Interconnections

- Socket for pluggable microphone
- IC card socket
- Ø 6.4 mm headphone jack
- Ø 3.5 mm jacks for headset
- 1.5 m cable with 6P-DIN standard plug for connection with system CMU or the next Simultaneous Interpreter unit
- 0.6 m cable with 6P-DIN standard socket for loop-through interconnection

Technical Specifications

Electrical

Max. consumption.....2.8 W

Headphone connection

Frequency response.....30 Hz to 20 kHz

earphone load impedance.....>16 Ohm

Earphone output.....10 mW

Recommended external microphone type (or headset microphone)

Transducer.....Electret-condenser

Polar pattern.....Uni-directional

Operating voltage.....5 VDC

Sensitivity.....-46 dBV/Pa

Frequency response.....50 Hz to 20 kHz

Input impedance.....2 kOhm

Directivity 0°/180°.....> 20 dB (1 kHz)

Equivalent noise.....20 dBA (SPL)

Maximum sound pressure level.....125 dB (THD<3%)

Interface data

Connector.....Ø 3.5 mm mono jack for external mic.

.....Ø 3.5 mm stereo jack for headphone

.....Ø 6.4 mm stereo jack for headphone

Mechanical

Mounting.....free-standing, flush-mounting or mounted on a table

Dimensions (h x w x d) (w/o stem microphone).....78 x 290 x 126 mm

Slope.....28 degrees

Weight (incl. stem microphone).....0.9 kg

Color.....Silver gray

Stem length.....330 mm (standard version),

240 mm, 410 mm, 470 mm

Ordering Information

HCS-4385U/50.....Fully Digital Congress System Interpreter Unit (64 CHs, IC-Card, 256x64 LCD, MIC., loudspeaker)

EP-950B Interpreter Headset



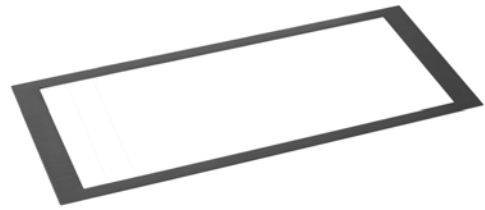
Features

- Incorporated with interpreter unit for monitoring and speaking
- Hi-Fi sound quality
- 32 Ω × 2, Ø 3.5 mm stereo plug (TRS) for headphone
- Ø 3.5 mm stereo plug (TRS, Ring: NC) for microphone
- Frequency response of headphone: 20 Hz to 20 kHz
- Sensitivity of headphone: ≥108 dBA/1 mW
- Frequency response of microphone: 30 Hz to 20 kHz
- Sensitivity of microphone: -46 dBV/Pa

Ordering Information

EP-950B Interpreter Headset (stereo)

HCS-4385MP Mounting Plate



Features

- Used for flush-mounting of HCS-4385U/50 Interpreter Unit

Technical Specifications

Mechanical

Dimensions (h x w x d) 1.5 x 328 x 144 mm
 Weight 44 g
 Color Gray

Ordering Information

HCS-4385MP Flush-mounting Plate (for HCS-4385U/50)