

## HCS-4380SC/50 Chairman Unit with Voting and Channel Selection



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Priority button
- Pluggable microphone
- 5 voting keys
- "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)
- Built-in multi-channel intercom facility

The stylish and ergonomically designed chairman unit has all 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-4380SD/50 Delegate Unit, the HCS-4380SC/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 start or stop voting, cancel a request-to-speak, turn off all active microphones and recall messages for display. A graphic LCD screen with permanent backlighting can display characters from complex European languages or icon-based scripts such as Chinese. Channel selection is automatically limited to the number of language channels available. Flat-panel 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 80 Hz (18 dB/octave) 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 flat-panel loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- 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
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multifunction voting in combination with the corresponding software modules:
  - ◆ 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)
- Built-in IC-card reader
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Built-in multi-channel intercom facility
- 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
- Launches parliamentary voting (YES/NO/ABSTAIN) session without PC
- Controls voting start, suspend, re-start and stop
- Controls on-off switch for displaying voting results on delegate unit's LCD
- System supports up to 100 chairman units, while only 1 chairman unit has the control facilities listed above (set by software)

**Controls and Indicators**

- Graphic 256x32 LCD with back-lighting for displaying:
  - ◆ Active microphone amount, request amount, delegates signed-in and voting results, etc.
  - ◆ Messages (messages from system administrator to all or part of participants)
  - ◆ Multilingual (simplified/traditional Chinese and English, etc.) menu
- Built-in channel selector consists with up/down channel select buttons and 2-digit channel indicator display
- Uni-directional electret condenser microphone with two-color illuminated ring (blue/red)
- Headphone volume up and down
- Five voting keys with indicators
- Microphone On/Off button with indicator
- Priority button

**Interconnections**

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

**Technical Specifications**

**Electrical**

Max. consumption.....2.3 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 socket for external mic.

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

**Mechanical**

Mounting\_Tabletop (portable or fixed mounting) and flush-mounting  
Dimensions (h x w x d) (w/o stem microphone)

Tabletop.....55 x 245 x 137 mm

Flush-mounting.....35 x 245 x 137 mm

Weight (incl. stem microphone).....1.68 kg

Color.....Charcoal gray

Stem length.....410 mm (standard version),

240 mm, 330 mm, 470 mm

**Ordering Information**

HCS-4380SC/50.....Fully Digital Congress System Chairman Unit  
(tabletop/flush-mounting, 5 voting keys,  
IC-Card, 64 CHs, 256x32 LCD, charcoal gray)

## HCS-4380SD/50 Discussion Unit with Voting and Channel Selection



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Pluggable microphone
- 5 voting keys
- "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)
- Built-in multi-channel intercom facility

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, registering a request-to-respond, listening, voting, selecting language channels, IC-card reading and displaying conference and user-related information. Excellent immunity to RF interference from mobile phones. Channel selector, IC-card reader and graphic display with backlighting. When the IC-card is inserted into the card reader, the graphic LCD screen automatically displays user-related information in the language assigned to the delegate chip card. The graphic LCD is able to display characters from complex European languages or icon-based-scripts such as Chinese. Channel selection is automatically limited to the number of language channels available. Flat-panel 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 80 Hz (18 dB/octave) 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 flat-panel loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- 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
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules:
  - ◆ 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)
- Built-in IC-card reader
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Built-in multi-channel intercom facility
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)

**Controls and Indicators**

- Graphic 256x32 LCD with back-lighting for displaying:
  - ◆ Active microphone amount, request amount, delegates signed-in and voting results, etc.
  - ◆ Messages (messages from system administrator to all or part of participants)
  - ◆ Multilingual (simplified/traditional Chinese and English, etc.) menu
- Built-in channel selector consists with up/down channel select buttons and 2-digit channel indicator display
- Uni-directional electret condenser microphone with two-color illuminated ring (blue/red)
- Headphone volume up and down
- Five voting keys with indicators
- Microphone On/Off button with indicator

**Interconnections**

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

**Technical Specifications**

**Electrical**

Max. consumption.....2.3 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 socket for external mic.

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

**Mechanical**

Mounting\_Tabletop (portable or fixed mounting) and flush-mounting  
Dimensions (h x w x d) (w/o stem microphone)

Tabletop.....55 x 245 x 137 mm

Flush-mounting.....35 x 245 x 137 mm

Weight (incl. stem microphone).....1.68 kg

Color.....Charcoal gray

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

**Ordering Information**

HCS-4380SD/50.....Fully Digital Congress System Delegate Unit  
(tabletop/flush-mounting, 5 voting keys,  
IC-Card, 64 CHs, 256x32 LCD, charcoal gray)

## HCS-4380SX/50 Intercom Communication Operator Unit



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Pluggable microphone
- "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
- Supporting "PnP" (plug and play)
- Built-in multi-channel intercom facility

HCS-4380SX/50 Operator Unit is only used for control of intercom facility, but cannot be used for conference discussion. Excellent immunity to RF interference from mobile phones. Channel selector and graphic display with backlighting. The graphic LCD is able to display characters from complex European languages or icon-based-scripts such as Chinese. Channel selection is automatically limited to the number of language channels available. Flat-panel loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility. When the unit is not being used, the loudspeaker panel can be folded down conveniently.

### 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

- 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
- 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 flat-panel loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Built-in multi-channel intercom facility

### Controls and Indicators

- Graphic 256x32 LCD with back-lighting for displaying:
  - ◆ Active microphone amount and request amount
  - ◆ Multilingual (simplified/traditional Chinese and English, etc.) menu
- Built-in channel selector consists with up/down channel select buttons and 2-digit channel indicator display
- Uni-directional electret condenser microphone with illuminated ring (red)
- Headphone volume up and down
- Five operating buttons with indicators

### Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

### Technical Specifications

#### Electrical

Max. consumption.....2.3 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 socket for external mic.

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

**Mechanical**

Mounting, Tabletop (portable or fixed mounting) and flush-mounting

Dimensions (h x w x d) (w/o stem microphone)

Tabletop.....55 x 245 x 137 mm

Flush-mounting.....35 x 245 x 137 mm

Weight (incl. stem microphone).....1.68 kg

Color.....Charcoal gray

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

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**Ordering Information**

HCS-4380SX/50.....Fully Digital Congress System Operator Unit  
(tabletop/flush-mounting, 256x32 LCD, for  
intercom communication, charcoal gray)



## HCS-4382SD/50 Discussion Unit with Voting



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Pluggable microphone
- 5 voting keys
- "Closed Loop - Daisy Chain" connection topology
- Supporting 48 kHz audio sampling rate
- Excellent immunity to RF interference from mobile phones
- Gain and EQ (5 band) of each microphone adjustable separately
- Supporting "PnP" (plug and play)
- Built-in multi-channel intercom facility

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, registering a request-to-respond, listening, voting, displaying conference and user-related information. Excellent immunity to RF interference from mobile phones. The graphic LCD screen with backlighting is able to display characters from complex European languages or icon-based-scripts such as Chinese. Flat-panel 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
- Supporting 48 kHz audio sampling rate

- Integrated 80 Hz (18 dB/octave) 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 flat-panel loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- 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
  - ◆ Voting function (Yes/No/Abstain)
- Multifunction voting in combination with the corresponding software modules:
  - ◆ 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)
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Built-in multi-channel intercom facility
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)

### Controls and Indicators

- Graphic 256x32 LCD with back-lighting for displaying:
  - ◆ Active microphone amount, request amount, delegates signed-in and voting results, etc.

- ◆ Messages (messages from system administrator to all or part of participants)
- ◆ Multilingual (simplified/traditional Chinese and English, etc.) menu
- Uni-directional electret condenser microphone with two-color illuminated ring (blue/red)
- Headphone volume up and down
- Five voting keys with indicators
- Microphone On/Off button with indicator

**Interconnections**

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

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**Technical Specifications**

**Electrical**

Max. consumption.....2.3 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 socket for external mic.

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

**Mechanical**

Mounting.....Tabletop (portable or fixed mounting) and flush-mounting

Dimensions (h x w x d) (w/o stem microphone)

Tabletop.....55 x 245 x 137 mm

Flush-mounting.....35 x 245 x 137 mm

Weight (incl. stem microphone).....1.68 kg

Color.....Charcoal gray

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

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**Ordering Information**

HCS-4382SD/50.....Fully Digital Congress System Delegate Unit  
(tabletop/flush-mounting, 5 voting keys,  
256x32 LCD, charcoal gray)



## HCS-4370SDE/50 Discussion Unit with Voting and Channel Selection



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Pluggable microphone
- 5 voting keys
- "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 multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, listening, voting, selecting language channels and IC-card reading. Excellent immunity to RF interference from mobile phones. Channel selector and IC-card reader. Channel selection is automatically limited to the number of language channels available. Flat-panel 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 80 Hz (18 dB/octave) 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 flat-panel loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- 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
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules:
  - ◆ 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)
- Built-in IC-card reader
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software

- ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)

**Controls and Indicators**

- Built-in channel selector consists with up/down channel select buttons and 2-digit channel indicator display
- Uni-directional electret condenser microphone with two-color illuminated ring (blue/red)
- Headphone volume up and down
- Five voting keys with indicators
- Microphone On/Off button with indicator

**Interconnections**

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

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**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 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 socket for external mic.

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

**Mechanical**

Mounting..... Tabletop (portable or fixed mounting) and flush-mounting

Dimensions (h x w x d) (w/o stem microphone)

Tabletop..... 55 x 245 x 137 mm

Flush-mounting..... 35 x 245 x 137 mm

Weight (incl. stem microphone)..... 1.68 kg

Color..... Charcoal gray

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

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**Ordering Information**

HCS-4370SDE/50..... Fully Digital Congress System Delegate Unit  
(tabletop/flush-mounting, 5 voting keys,  
IC-Card, 64 CHs, charcoal gray)

## HCS-4371SD/50 Discussion Unit



### Features

- Stylish and ergonomic design
- Hi-Fi flat-panel loudspeaker
- Pluggable microphone
- “Closed Loop - Daisy Chain” connection topology
- Supporting 48 kHz audio sampling rate
- Excellent immunity to RF interference from mobile phones
- Gain and EQ (5 band) of each microphone adjustable separately
- Supporting “PnP” (plug and play)

The delegate unit provides facilities for speaking and listening. Excellent immunity to RF interference from mobile phones. Flat-panel 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
- Supporting 48 kHz audio sampling rate
- Integrated 80 Hz (18 dB/octave) 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 flat-panel 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
- Automatic video tracking implementation when cooperating with cameras, video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)

### Controls and Indicators

- Uni-directional electret condenser microphone with two-color illuminated ring (blue/red)
- Headphone volume up and down
- Microphone On/Off button with indicator

### Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Ø 3.5 mm socket for external microphone or headset microphone
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 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 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 socket for external mic.  
 ..... Ø 3.5 mm stereo jack for headphone

**Mechanical**

Mounting Tabletop (portable or fixed mounting) and flush-mounting

Dimensions (h x w x d) (w/o stem microphone)

Tabletop ..... 55 x 245 x 137 mm

Flush-mounting ..... 35 x 245 x 137 mm

Weight (incl. stem microphone) ..... 1.68 kg

Color ..... Charcoal gray

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

**Ordering Information**

HCS-4371SD/50 ..... Fully Digital Congress System Delegate Unit  
 (tabletop/flush-mounting, charcoal gray)