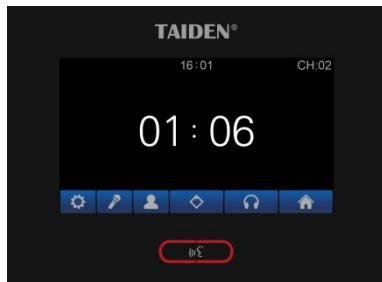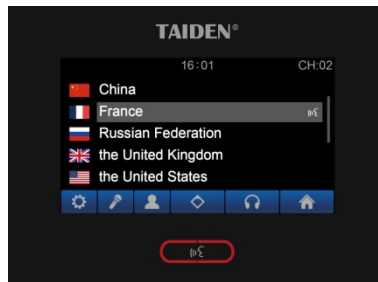# HCS-4890/50 Series Tabletop Congress Unit

Features

- Compliant to IEC 60914
- Elegant and ergonomic design
- Exquisite and delicate tabletop design for ease of use and transport
- Cable coming out of the base for a tidier wiring
- Water resistant and noise-free button with long service life
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- "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
- Automatic system recovery and "PnP" (plug and play)
- Supporting 48 kHz audio sampling rate
- Microphone On/Off button with indicator
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Uni-directional electret condenser microphone with two-color illuminated ring
- Mini-microphone, build-in foam windshield
- Stem microphone can be unplugged during adjournment, easy to maintain
- Voting function (3 keys / 2 keys) in combination with the corresponding software modules
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Transmitting up to 64 CHs digital audio signals, all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Built-in channel selector with up/down channel select buttons
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active

- Exquisite and sleek 4.3" touch screen for information display of meeting proceedings:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Conference service
  - Screen brightness, system language and unit information
- Excellent immunity to RF interference from mobile phones and comparable devices
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - 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
- The following meeting control functions for chairman unit:
  - 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 delegate units (except VIP units) according to preset
  - Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

■ 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)
■ Delegate unit with dual channel selectors (HCS-4890DDS/50)
  ♦ Built-in two channel selectors consist of up/down channel select buttons
  ♦ The microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking

■ Ø 3.5 mm stereo headphone jack consist of up/down volume buttons
■ Stem length: 270 mm, 330 mm, 410 mm(standard version), 470 mm
■ Unit connection:
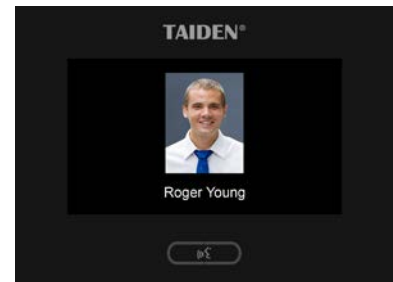 ♦ 1.5 m cable with 6P-DIN plug
  ♦ 0.6 m cable with 6P-DIN socket

User interface

Timing speaking

Speaking list

Delegate information

Voting

Simultaneous interpretation

Conference service

Function list

Model No.	Type	Speech	Voting	SI	4.3" touch screen	IC card	Speaker	Main unit	Cable
HCS-4890CVS/50	Chairman	√	3-key	64CHs	√	√	√	HCS-4100MA/50 HCS-4100MB/50	6-pin dedicated cable
HCS-4890DVS/50	Delegate	√	3-key	64CHs	√	√	√		
HCS-4890DS/50	Delegate	√		64CHs	√		√		
HCS-4890C/50	Chairman	√			√		√	HCS-4100MA/50 HCS-4100MB/50 HCS-4100MC/50	
HCS-4890D/50	Delegate	√			√		√		
HCS-4890DDS/50	Dual delegates	√		64CHs×2	√		√	HCS-4100MA/50 HCS-4100MB/50	

HCS-4890CVS/50 Chairman Unit with Voting and Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Pluggable microphone**
- **3 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**

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-4890DVS/50 Delegate Unit, the HCS-4890CVS/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. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, conference service, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- 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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in 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, 3 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ◆ 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
- Voting function (Yes/No/Abstain) in combination with the corresponding software modules
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- 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 delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Conference service
  - Screen brightness, system language and unit information
- Built-in channel selector with up/down channel select buttons
- Uni-directional electret condenser microphone with two-color illuminated ring
- Headphones volume up and down
- Three voting buttons
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 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	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	59 x 216 x 106 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890CVS_B/50   Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, conference service, printed nameplate, black)

HCS-4890DVS/50 Discussion Unit with Voting and Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Pluggable microphone**
- **3 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**

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 and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, conference service, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- 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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in 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, 3 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ 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
- Voting function (Yes/No/Abstain) in combination with the corresponding software modules
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- 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

- 4.3" touch screen for displaying:
  - ◆ Speaking list, timing speaking information, delegate information
  - ◆ Sign-in and voting information
  - ◆ Language channel and earphone volume adjustment
  - ◆ Conference service
  - ◆ Screen brightness, system language and unit information
- Built-in channel selector with up/down channel select buttons
- Uni-directional electret condenser microphone with two-color illuminated ring
- Headphones volume up and down
- Three voting buttons
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 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	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	59 x 216 x 106 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890DVS_B/50   Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, conference service, printed nameplate, black)

HCS-4890DS/50 Discussion Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Pluggable microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

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, selecting language channels. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, channel number and language name, conference service, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- 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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in 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
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - 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
- 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

- 4.3" touch screen for displaying:
  - ♦ Speaking list, timing speaking information, delegate information
  - ♦ Language channel and earphone volume adjustment
  - ♦ Conference service
  - ♦ Screen brightness, system language and unit information
- Built-in channel selector with up/down channel select buttons
- Uni-directional electret condenser microphone with two-color illuminated ring
- Headphones volume up and down
- Microphone On/Off button with indicator

Interconnections

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

Technical Specifications

Electrical

Max. consumption	2.4 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	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	59 x 216 x 106 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890DS_B/50	Fully Digital Congress System Delegate Unit (tabletop, 64 CHs, 4.3" touch screen, conference service, printed nameplate, black)

HCS-4890C/50 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Pluggable microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

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-4890D/50 Delegate Unit, the HCS-4890C/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. A 4.3" touch screen can display speaking list, conference service, operation menu, etc.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

- 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 high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in 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
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - 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
- 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 delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Conference service
  - Screen brightness, system language and unit information
- 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
- ■ Ø 3.5 mm stereo headphone jack
- ■ 1.5 m cable with 6P-DIN plug
- ■ 0.6 m cable with 6P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 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	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	59 x 216 x 106 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890C_B/50	Fully Digital Congress System Chairman Unit (tabletop, 4.3" touch screen, conference service, printed nameplate, black)

HCS-4890D/50 Discussion Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Pluggable microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

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. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, conference service, operation menu, etc.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- 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 high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in 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
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - 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

- 4.3" touch screen for displaying:
  - ♦ Speaking list, timing speaking information, delegate information
  - ♦ Conference service
  - ♦ Screen brightness, system language and unit information
- Uni-directional electret condenser microphone with two-color illuminated ring
- Headphones volume up and down
- Microphone On/Off button with indicator

Interconnections

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

Technical Specifications

Electrical

Max. consumption	2.4 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	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	59 x 216 x 106 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890D_B/50	Fully Digital Congress System Delegate Unit (tabletop, 4.3" touch screen, conference service, printed nameplate, black)

HCS-4890DDS/50 Discussion Unit with Dual Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Pluggable microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **"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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Built-in dual channel selectors consist of up/down channel select buttons and SI information display**
- **The microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

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, selecting language channels. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, channel number and language name, conference service, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers 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
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- 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 perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- The microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Stem microphone can be unplugged during adjournment, easy to maintain
- Mini-microphone, build-in foam windshield
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Two microphone On/Off buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - 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
- 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

- ■ 4.3" touch screen for displaying:
  - ♦ Speaking list, timing speaking information, delegate information
  - ♦ Language channel and earphone volume adjustment
  - ♦ Conference service
  - ♦ Screen brightness, system language and unit information
- ■ Built-in two channel selectors consist of up/down channel select buttons and channel indicator display
- ■ Uni-directional electret condenser microphone with two-color illuminated ring
- ■ Headphones volume up and down
- ■ Two microphone On/Off buttons with indicators

Interconnections

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

Technical Specifications

Electrical

Max. consumption	2.4 W

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Frequency response	30 Hz to 20 kHz
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Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
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Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)
Stem length	410 mm (standard version), 270 mm, 330 mm, 470 mm

Ordering Information

HCS-4890DDS_B/50 Fully Digital Congress System Delegate Unit (tabletop, 2 channel selectors, dual predefined position, 4.3" touch screen, conference service, black)