

## HCS-48U6CMICM/80 Chairman Unit



### Features

- Flush-mounting, elegant and ergonomic design
- Pluggable microphone
- Priority button
- Supporting 48 kHz audio sampling rate
- 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 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-48U6DMICM/80 Delegate Unit, the HCS-48U6CMICM/80 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. HCS-48U6CMICM/80 Chairman Unit can connect to HCS-48U6VOT voting unit and HCS-48U6SPK loudspeaker.

### Functions

- Compliant to ISO 22259
- 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, built-in foam windshield
- 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/Request/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
    - "Request" mode, delegate requests 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 8)
- 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

- Uni-directional electret condenser microphone with illuminated ring
- Microphone On/Off button with indicator
- Priority button

### Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- 2 × RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

### Technical Specifications

#### Electrical

|                                    |                    |
|------------------------------------|--------------------|
| Max. consumption                   | 1.8 W              |
| <b>Recommended microphone type</b> |                    |
| 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%)    |

**Mechanical**

Mounting.....Flush-mounting  
 Dimensions (h x w x d) (w/o stem microphone).....71 x 100 x 40 mm  
 Weight (incl. stem microphone).....0.5 kg  
 Color.....Black (PANTONE 419 C)  
 Stem length.....330 mm, 410 mm (standard version), 470 mm

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**Ordering Information**

HCS-48U6MICM/80....Fully Digital Congress System Chairman  
 Unit (flush-mounting, discussion,  
 HCS-48U6VOT and HCS-48U6SPK can  
 be connected, black)

## HCS-48U6DMICM/80 Discussion Unit



### Features

- Flush-mounting, elegant and ergonomic design
- Pluggable microphone
- Supporting 48 kHz audio sampling rate
- 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)

HCS-48U6DMICM/80 Delegate Unit meets the basic demands of the most conferences. It provides facilities for speaking and registering a request-to-speak. It can connect to HCS-48U6VOT voting unit and HCS-48U6SPK loudspeaker.

### Functions

- Compliant to ISO 22259
- 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, built-in foam windshield
- 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/Request/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
    - "Request" mode, delegate requests 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 8 (incl. chairman/delegate/VIP unit)

### Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring
- Microphone On/Off button with indicator

### Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- 2 x RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

### Technical Specifications

#### Electrical

Max. consumption ..... 1.8 W

#### 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%)

#### Mechanical

Mounting ..... Flush-mounting  
 Dimensions (h x w x d) (w/o stem microphone) ..... 71 x 100 x 40 mm  
 Weight (incl. stem microphone) ..... 0.5 kg  
 Color ..... Black (PANTONE 419 C)  
 Stem length ..... 330 mm, 410 mm (standard version), 470 mm

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**Ordering Information**

HCS-48U6DMICM/80.....Fully Digital Congress System Delegate  
Unit (flush-mounting, discussion,  
HCS-48U6VOT and HCS-48U6SPK can  
be connected, black)

## HCS-48U6CMICS Chairman Unit



### Features

- Flush-mounting, elegant and ergonomic design
- Pluggable microphone
- Priority button
- Supporting 48 kHz audio sampling rate
- Excellent immunity to RF interference from mobile phones
- Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound

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-48U6DMICS Delegate Unit, the HCS-48U6CMICS 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.

### Functions

- Compliant to ISO 22259
- 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, built-in foam windshield
- 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/Request/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
    - "Request" mode, delegate requests 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 8)
- 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

- Uni-directional electret condenser microphone with illuminated ring
- Microphone On/Off button with indicator
- Priority button

### Interconnections

- Socket for pluggable microphone
- RJ11 socket, 2-pin cable and 3-pin cable for HCS-48U6SELM/80

### Technical Specifications

#### Electrical 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%)    |

#### Mechanical

|   |   |
|---|---|
| Mounting.....                                     | Flush-mounting                            |
| Dimensions (h x w x d) (w/o stem microphone)..... | 36 x 100 x 40 mm                          |
| Weight (incl. stem microphone).....               | 0.2 kg                                    |
| Color.....  | Black (PANTONE 419 C)                     |
| Stem length.....                                  | 330 mm, 410 mm (standard version), 470 mm |

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**Ordering Information**

HCS-48U6CMICS.....Fully Digital Congress System  
Chairman Unit (flush-mounting,  
discussion, HCS-48U6SELM/80  
needed, black)

## HCS-48U6DMICS Discussion Unit



### Features

- Flush-mounting, elegant and ergonomic design
- Pluggable microphone
- Supporting 48 kHz audio sampling rate
- Excellent immunity to RF interference from mobile phones
- Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound

This delegate unit meets the basic demands of most conferences. It provides facilities for speaking and registering a request-to-speak.

### Functions

- Compliant to ISO 22259
- 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, built-in foam windshield
- 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/Request/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
  - "Request" mode, delegate requests 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 8 (incl. chairman/delegate/VIP unit)

### Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring
- Microphone On/Off button with indicator

### Interconnections

- Socket for pluggable microphone
- RJ11 socket, 2-pin cable and 3-pin cable for HCS-48U6SELM/80

### Technical Specifications

#### Electrical

##### 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%)    |

#### Mechanical

|   |   |
|---|---|
| Mounting.....                                     | Flush-mounting                            |
| Dimensions (h x w x d) (w/o stem microphone)..... | 36 x 100 x 40 mm                          |
| Weight (incl. stem microphone).....               | 0.2 kg                                    |
| Color.....  | Black (PANTONE 419 C)                     |
| Stem length.....                                  | 330 mm, 410 mm (standard version), 470 mm |

### Ordering Information

|                    |   |
|--------------------|---|
| HCS-48U6DMICS..... | Fully Digital Congress System Delegate Unit (flush-mounting, discussion, HCS-48U6SELM/80 needed, black) |
|--------------------|---|

## HCS-48U6SELM/80 Flush-mounting 64-Channel Selector



### Features

- Ergonomically compact and elegant design
- 64 language channels for simultaneous interpretation, all channels with a 30 Hz to 20 kHz frequency response
- Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU
- Built-in “Silent” function
- Automatically adapts to available channels
- No audio output until the headphone is connected
- Flush mountable in tabletops, on top or at the front, or in arm rests of seats
- Supporting "PnP" (plug and play)

The HCS-48U6SELM/80 is a compact and stylish single-user audio channel selector for listening by headphone. It provides a choice of up to 64 high-quality audio channels used for distribution of interpretation and floor channels.

### Functions

- 64 language channels for simultaneous interpretation, all channels with a 30 Hz to 20 kHz frequency response
- Built-in channel selector (w/ up/down key) and OLED display
- The channel selector is active only when the headphone is inserted
- Built-in “Silent” function, to eliminate audible noise from the headphone. When not in use there is no audio output until one of the keys has been pressed
- Upon insertion of a headphone the default “floor” channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlighting is activated

### Controls and Indicators

- Two push-buttons (up/down) for channel selection
- Two push-buttons (up/down) for headphone volume control
- OLED display with screen saver

### Interconnections

- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- RJ11 socket, 2-pin socket and 3-pin socket for HCS-48U6MICS
- 2 x RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

### Technical Specifications

#### Electrical

|                               |                 |
|-------------------------------|-----------------|
| Max. consumption.....         | 1.8 W           |
| Frequency response.....       | 30 Hz to 20 kHz |
| Headphone load impedance..... | >16 Ohm         |
| Output power.....             | 10 mW           |

#### Mechanical

|                                     |                       |
|-------------------------------------|-----------------------|
| Mounting.....                       | Flush-mounting        |
| Dimensions (h x w x d).....         | 71 x 100 x 40 mm      |
| Weight (incl. stem microphone)..... | 0.4 kg                |
| Color.....                          | Black (PANTONE 419 C) |

### Ordering Information

|                      |  |
|----------------------|--|
| HCS-48U6SELM/80..... | Flush-mounting 64-Channel Selector (HCS-48U6MICS, HCS-48U6VOT and HCS-48U6SPK can be connected, black) |
|----------------------|--|



## HCS-48U6DVOTTW Voting Unit with IC-Card Reader



### Features

- Flush-mounting, elegant and ergonomic design
- Max system capacity: 4096 voting units
- 3 voting keys
- Built-in contactless IC-Card reader

### Functions

- New digital design, compliant to many international standards
- Voting system is resistive to 8 kV static, conforms to IEC CISPR 24
- Max system capacity: 4096 voting units
- 3 voting keys
- In combination with corresponding software modules, multiform voting can be implemented:
  - ◆ For/Against
  - ◆ Parliamentary: YES/NO/ABSTAIN
  - ◆ Appraisal:
    - Satisfied (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
    - Qualified (three/two keys voting)
    - Competent (three/two keys voting)
- Built-in contactless IC-Card reader
- Key-press sign-in
- Automatic detection

### Interconnections

- RJ11 socket for HCS-48U6SELM/80 or HCS-48U6MICM/80

### Technical Specifications

#### Mechanical

Mounting.....Flush-mounting  
 Dimensions (h x w x d).....73 x 100 x 40 mm  
 Weight.....0.1 kg  
 Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-48U6DVOTTW.....Fully Digital Voting Unit (flush-mounting, 3 voting keys, built-in contactless IC-Card slot, HCS-48U6SELM/80 or HCS-48U6MICM/80 needed, black)

## HCS-48U6SPK Flush Loudspeaker Panel



### Technical Specifications

#### Mechanical

Mounting.....Flush-mounting  
 Dimensions (h x w x d).....71x80x80 mm  
 Weight.....0.2 kg  
 Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-48U6SPK.....Flush-mounting Loudspeaker Panel  
 (HCS-48U6SELM/80 or HCS-48U6MICM/80 needed, black)