

## HCS-48U7CM/80 Chairman Unit



### Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Pluggable microphone**
- **“Closed Loop - Daisy Chain” connection topology**
- **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-48U7DM/80 Delegate Unit, the HCS-48U7CM/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. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

### Functions

- Compliant to ISO 22259
- “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, with foam windshield
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- 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 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
- 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.....2.0 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.....Flush-mounting

Dimensions (h x w x d) (w/o stem microphone).....71 x 140 x 80 mm

Weight (incl. stem microphone).....0.6 kg

Color.....Black (PANTONE 419 C)

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

**Ordering Information**

HCS-48U7CM/80.....Fully Digital Congress System Chairman  
 Unit (flush-mounting, discussion, built-in  
 loudspeaker and 3.5mm TRS  
 headphones jack, black)

## HCS-48U7DM/80 Discussion Unit



### Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **Pluggable microphone**
- **“Closed Loop - Daisy Chain” connection topology**
- **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)**

This delegate unit meets the basic demands of most conferences. It provides facilities for speaking and registering a request-to-speak. Excellent immunity to RF interference from mobile phones.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

### Functions

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- Stem microphone can be unplugged during adjournment, easy to maintain

- Mini-microphone, with foam windshield
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- 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 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
- 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.....2.0 W

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 Color.....Black (PANTONE 419 C)  
 Stem length.....330 mm, 410 mm (standard version), 470 mm

**Ordering Information**

HCS-48U7DM/80.....Fully Digital Congress System Delegate  
 Unit (flush-mounting, discussion, built-in  
 loudspeaker and 3.5mm TRS  
 headphones jack, black)