

## HCS-48U7DM/80 Delegate 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

- 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
- 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 × 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.....20 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-48U7DM/80.....Fully Digital Congress System Delegate Unit (flush-mounting, discussion, built-in loudspeaker and 3.5mm TRS headphones jack, black)

**Function List**

Model No.	Type	Speech	Main Unit	Cable
HCS-48U7CM7/80	Chairman	√	HCS-4800MA/20 HCS-4800MB/20	cat5e cable with a drain wire & RJ45 plug with metal shield
HCS-48U7DM/80	Delegate	√	HCS-4800MC	

**Note:** Connect to the main system through 8P2RJ45S transfer cable