HCS-5300MA/80 Digital Infrared Wireless Conference Main Unit

Features

- **Original dirATC-digital infrared Audio Transmitting and Control technologies**
- **Supports up to 8 simultaneous interpretation language channels (incl. the original floor channel)**
- **Digital infrared audio processing and transmitting technologies ensure perfect sound quality**
- **Supports Dante, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization**
- **Digital infrared transmission technology guarantees conference privacy. Users are released from worries about eavesdropping and radio interference inherent to radio wave-based wireless communications**
- **Operating the IR conference system does not require a radio frequency license all over the world**
- **Compatible with HCS-5100Plus series digital infrared language distribution system, when cooperating with digital infrared language distribution system, enabling a larger audience to join in the conference**
- **Can be connected to HCS-4100/50 series Wired Congress Unit and Interpreter Unit, to implement 1+3 CHs wired simultaneous interpretation system and 1+7 CHs wireless simultaneous interpretation system**
- **Microphone sensitivity and EQ individually adjustable**
- **TCP/IP communication protocol in PC controlled mode, easy to carry out remote control**
- **Excellent immunity to RF interference from mobile phones and comparable devices**

The digital infrared wireless conference main unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator. With web page control function, the user can access the IP address of main unit from web browser to handle meeting management.

Functions

- Compliant with IEC 60914
- Based on TAIDEN originated dirATC-digital infrared Audio Transmitting and Control technologies
- Infrared transmitting carrier frequency conforms to IEC 61603-7, DQPSK digital modulation/demodulation technology
- Digital infrared audio processing and transmitting technologies ensure perfect sound quality
- Digital infrared transmission technology guarantees conference privacy. Users are released from worries about eavesdropping and radio interference inherent to radio wave-based wireless communications
- Operating the IR conference system does not require a radio frequency license all over the world
- Supports up to 8 simultaneous interpretation language channels (incl. the original floor channel)
- Controls up to 1000 contribution units
- Microphone sensitivity and EQ individually adjustable
- Compatible with HCS-5100Plus series digital infrared language distribution system, when cooperating with digital infrared radiator, enabling a larger audience to join in the conference
- Implemented features in stand-alone mode:
  - Set the number (1/2/3/4) of delegates permitted to speak at the same time
  - "OPEN" mode, if Mic. active limit has been reached, next microphone cannot be turned on when pressing "Mic. On/Off" button
  - "OVERRIDE" mode, if Mic. active limit has been reached, when pressing "Mic. On/Off" button, next microphone is turned on and the first active microphone is turned off
  - "VOICE" mode, Mic. sensitivity and close time adjustable, built-in "Flash-on" technology for quick voice control
  - Simultaneous interpretation
- In combination with the corresponding software modules, multiform voting can be implemented:
  - Parliamentary: YES/NO/ABSTAIN
  - Questionnaire: 1/2/3/4/5
  - Audience response: --/-/0/+/++
- USB interface realizing quality-lossless sound recording on PC and intact input of streaming audio into the system
- Automatic video tracking, when cooperating with camera and video switcher unit
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control
- Connection to central control system through RS232 interface for centralized control

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators
- LINE IN 1 electric level adjust knob
- Conference unit floor audio channel master volume adjust knob

Interconnections

- Multiple audio in/out interfaces:
  - ◆ Balanced LINE OUT 1 interface (XLR-M) and unbalanced LINE OUT 2 interfaces (RCA×2) for floor audio line out
  - ◆ 8 interpretation audio output interfaces (0~7)
  - ◆ Balanced LINE IN 1 interface (XLR-F) and unbalanced LINE IN 2 interfaces (RCA×2) for connection to external audio devices
  - ◆ Ø 3.5 mm jack for stereo monitor earphone
- Dante interfaces to connect to peripheral digital devices without losing any sound quality
- USB_H interfaces at front panel to upgrade system and to save system parameters
- USB_D interfaces for digital audio input/output
- Ethernet interface
- Video switcher interface
- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to conference units
- 6 digital infrared transceiver interfaces, each interface can connect 4 transceivers if operating distributor HCS-5352, thus each HCS-5300MA/80 can connect up to 10 transceivers
- 1 interpreter unit / DCS interface: for connection to HCS-4100/50 series Wired Congress Unit or Interpreter Unit. By using HCS-8300MES, up to 200 congress units can be connected
- Power supply socket
- HF signal output interface (BNC socket) for connection to HCS-5100T/B Digital Infrared Radiator
- RS232 interface for connection to central control system

Technical Specifications

Electrical

Frequency response	20 Hz to 20 kHz (-3dB)
SNR	>85 dBA
Dynamic range	>90 dB
THD at 1 kHz	<0.06%
Isolation	>80 dB
Power supply	AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption	Max. 160 W

Audio inputs

LINE IN 1	+10 dBu, BAL.
LINE IN 2	+15 dBu, UNBAL.

Audio outputs

LINE OUT 1	+20 dBu, BAL.
LINE OUT 2	+20 dBu, UNBAL.
SI. OUTPUT (CH 0 ~ 7) RCA×8	+10 dBu, UNBAL.

Interface data

Transceivers I/O terminal	6P-DIN socket × 6 up to 10 transceivers
External control terminal	RS232 D-sub (9P, male), USB interface, RJ45 (ETHERNET, Dante)
Interpreter unit / DCS terminal	6P-DIN socket × 1
HF OUT (Radiator terminal)	BNC connector × 1
Alarm terminal	3.81 mm Phoenix connectors, 2-pole
Video switcher terminal	3.81 mm Phoenix connectors, 4-pole

Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h x w x d)	
For table use, with feet	99 x 430 x 325 mm
For 19" rack use, with brackets	89 x 478 x 350 mm
Weight	10.5 kg
Color	White（PANTONE 420 C）

Ordering Information

HCS-5300MA/80	Digital IR Wireless Conference System Main Unit (discussion, voting, 1+7 CHs, with interface for HCS-4100/50 series Wired Congress Unit and Interpreter Unit, Dante interface)

System Connection

[Wired/Wireless discussion + 1+7 CHs digital simultaneous interpretation + voting + video tracking]