

HCS-5300MA/80A 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 ISO 22259
- 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
 - ◆ Freq. Response: 80 Hz to 20 kHz
 - ◆ S/N: ≥90 dBA
 - ◆ THD: ≤0.05%
- 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

- 2.8” LCD displays status and menu of the system configuration, supporting multi language menu
- Standby switch with indicator
- Operation 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
- Dante interfaces to connect to peripheral digital devices without losing any sound quality
- USB_H interfaces 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/80A 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

Interface data

Transceivers I/O terminal6P-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 terminal3.81 mm Phoenix connectors, 2-pole

Video switcher terminal3.81 mm Phoenix connectors, 4-pole

Mechanical

Dimensions (h x w x d).....480×418×88 mm

Weight.....11.8 kg

Color.....Dark grey (PANTONE 431 C)

Ordering Information

HCS-5300MA/80A.....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)

Technical Specifications

Electrical

Frequency response.....80 Hz to 20 kHz (-3dB)

SNR.....≥90 dBA

Dynamic range.....≥90 dB

THD at 1 kHz.....≤0.05%

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

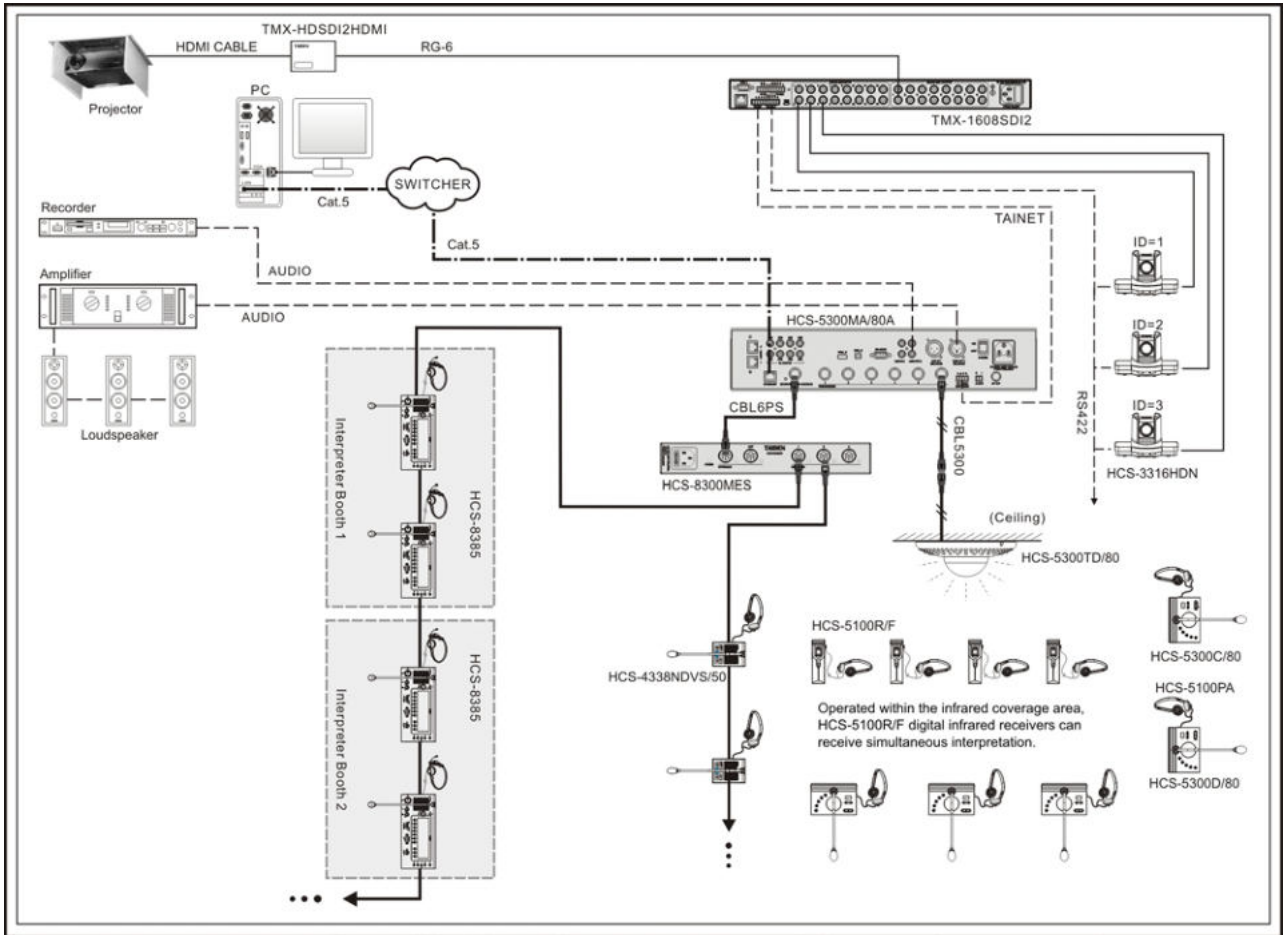
LINE OUT 1+20 dBu, BAL.

LINE OUT 2+20 dBu, UNBAL.

SI. OUTPUT (CH 0 ~ 7) RCA×8.....+10 dBu, UNBAL.

System Connection

[Wired/wireless discussion + CHs digital simultaneous interpretation + voting + video tracking]



HCS-5300MB/80A Digital Infrared Wireless Conference Main Unit



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- Controls up to 1000 contribution units
- Microphone sensitivity and EQ individually adjustable
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 - ◆ Simultaneous interpretation
- USB interface realizing quality-lossless sound recording on PC and intact input of streaming audio into the system
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- 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-5300MB/80 can connect up to 10 transceivers
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- 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

Ordering Information

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

Technical Specifications

Electrical

Frequency response.....80 Hz to 20 kHz (-3dB)
 SNR.....≥90dBA
 Dynamic range.....≥90 dB
 THD at 1 kHz.....≤0.05%
 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

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 SI. OUTPUT (CH 0 ~ 7) RCA×8.....+10 dBu, UNBAL.

Interface data

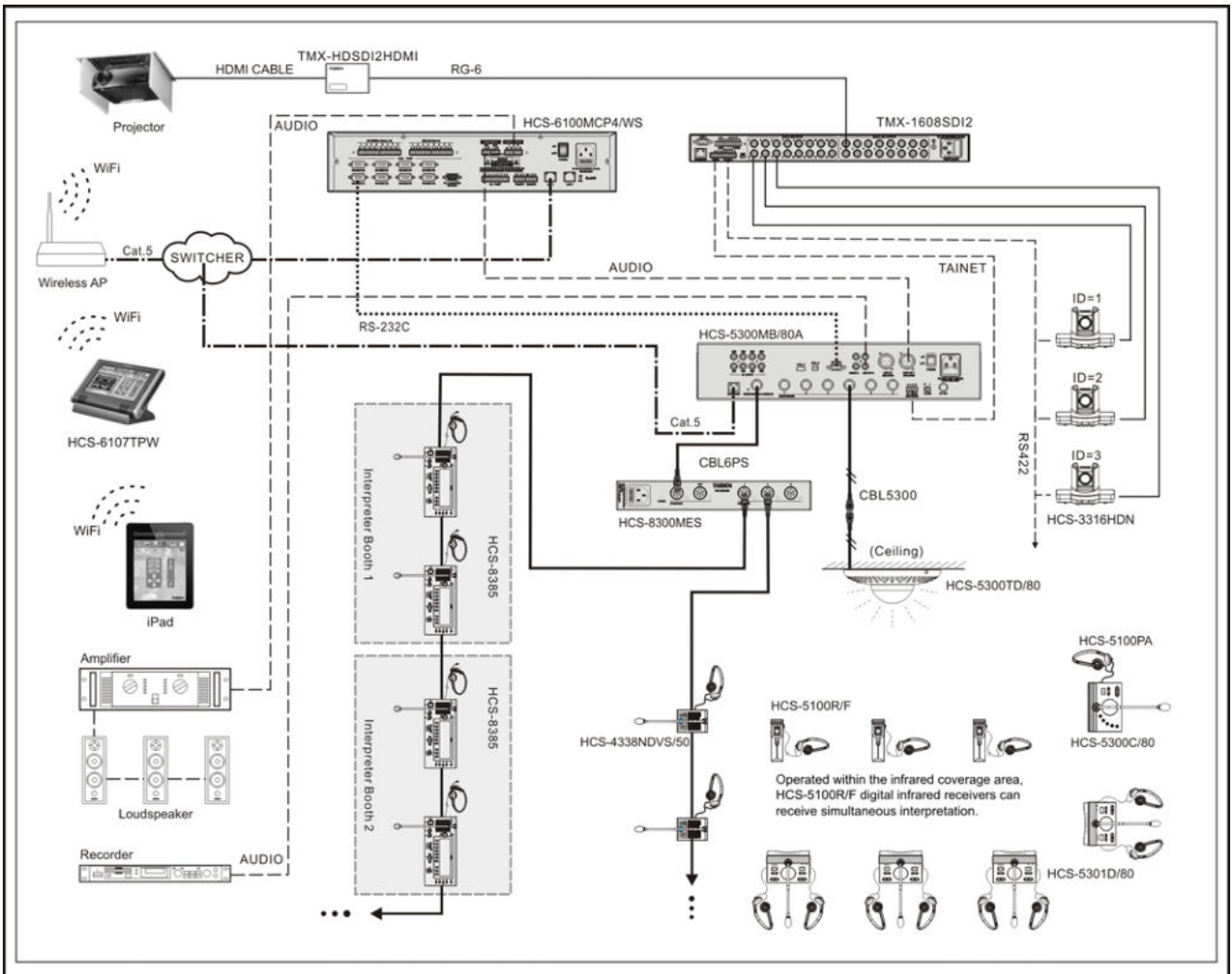
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 HF OUT (Radiator terminal).....BNC connector × 1
 Alarm terminal3.81 mm Phoenix connectors, 2-pole
 Video switcher terminal3.81 mm Phoenix connectors, 4-pole

Mechanical

Dimensions (h x w x d).....480×418×88 mm
 Weight.....11.8 kg
 Color.....Dark grey (PANTONE 431 C)

System Connection

[Wired/wireless discussion + digital simultaneous interpretation + video tracking + central control]



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 - 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
 - Microphone sensitivity and EQ individually adjustable
 - TCP/IP communication protocol in PC controlled mode, easy to carry out remote control
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- 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 HCS-5300MC/80 can connect up to 6 transceivers
- 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

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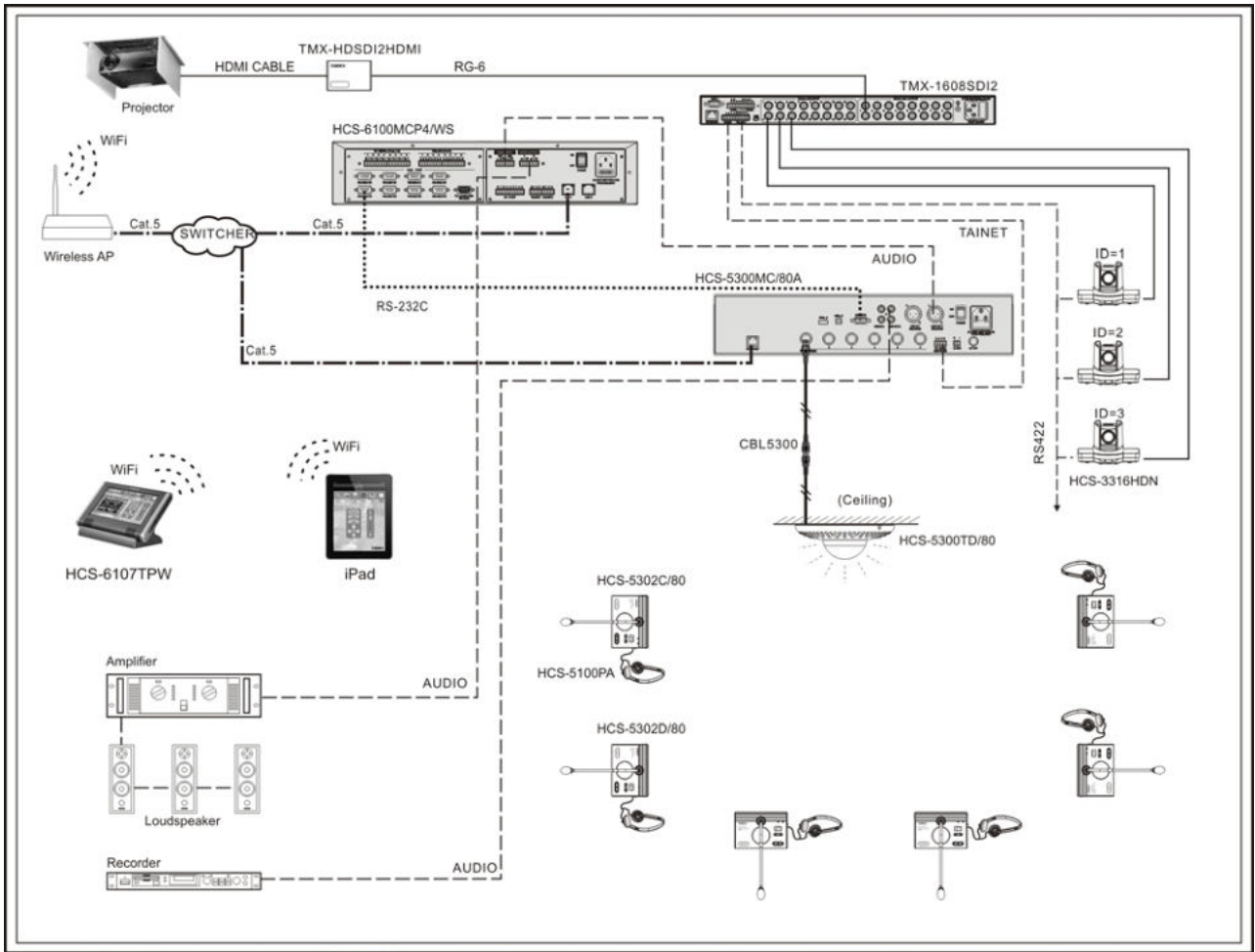
Dimensions (h x w x d).....480×418×88 mm
 Weight.....9.3 kg
 Color.....Dark grey (PANTONE 431 C)

Ordering Information

HCS-5300MC/80A.....Digital IR Wireless Conference
 System Main Unit (discussion)

System Connection

[Wireless discussion + video tracking + central control]



Function list

Type No.	Discussion	Voting	Simultaneous interpretation	Dante
HCS-5300MA/80A	√	√	1+7 CHs	√
HCS-5300MB/80A	√		1+7 CHs	
HCS-5300MC/80A	√			

HCS-5300MX Digital IR Conference Room Switcher



- Infrared signal output group selectors with indicators (4 groups, 5 outputs per group)

Interconnections

- Transceiver inputs from HCS-5300M Digital IR Wireless Conference System Main Unit: 4 channels input via 6P-DIN sockets
- Transceiver outputs to HCS-5300T Transceiver: 4 groups of infrared signal output via 6P-DIN sockets, 5 outputs per group
- 1 × RS232 port for connection to intelligent central control system and system diagnosis

Features

- Perfect solution for selectively combining or separating meeting rooms
- Flexibly and discretionary - according to situational conditions
- 4 inputs × 4 group outputs Digital IR Matrix Switcher, 5 outputs per group
- Each HCS-5300MX can be connected to 16 transceivers at the most
- Able to merge up to 4 meeting rooms
- LCD to display real-time operation
- Front panel button control , easy to switch manually
- 2U high, full rack width

Controls and Indicators

- Graphic LCD with back-lighting displays configuration
- Four buttons for configuration
- Power switch with indicator
- Input channel selectors with indicators (4 inputs)

Technical Specifications

Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
 Power consumption.....15 W

Mechanical

Mounting.....Tabletop or mounted in a 19" rack
 Dimensions (h x w x d)
 For table use, with feet.....99 × 430 × 325 mm
 For 19" rack use, with brackets.....89 × 478 × 350 mm
 Weight.....10.6 kg
 Color.....White (PANTONE 420 C)

Ordering Information

HCS-5300MX.....Digital IR Conference Room Switcher

