

HCS-5300MA/20 Digital Infrared Wireless Conference Main Unit



Features

- Original dirATC-digital infrared Audio Transmitting and Control technologies
- Supports up to 4 simultaneous interpretation language channels (incl. the original floor channel)
- 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
- Compatible with HCS-5100 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
- 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. In combination with a PC, the main unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference.

Functions

- Compliant to 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 4 simultaneous interpretation language channels (incl. the original floor channel)
- Controls up to 1000 contribution units
- Microphone sensitivity and EQ individually adjustable
- 4 audio effect modes are prestored:
NORMAL/PRESS/THEATER/PARLIAMENT
- Built-in adjustable audio compression feature
- Compatible with HCS-5100 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
 - ◆ 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/+/++
- 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:
 - ◆ One balanced XLR-M for MIC. mixed audio output
 - ◆ One balanced XLR-M for floor audio line out
 - ◆ 3 interpretation audio input interfaces (1~3)
 - ◆ 4 interpretation audio output interfaces (0~3)
 - ◆ Balanced LINE IN 1 interface (Ø 6.4 mm) and LINE IN 2 interface (RCA) for connection to external audio devices
 - ◆ Ø 3.5 mm jack for stereo monitor earphone

- 2 × USB interfaces at front panel to upgrade system and to save system parameters
- 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/20 can connect up to 10 transceivers
- 1 interpreter unit interface: for connection to HCS-4385U/50 Interpreter Unit
- Power supply socket
- HF signal output interface (BNC socket) for connection to HCS-5100T Digital Infrared Radiator
- RS232 interface for connection to central control system

Ordering Information

HCS-5300MA/20.....Digital IR Wireless Conference System Main Unit (discussion, voting, 1+3 CHs, with interface for HCS-4385U/50 Interpreter Unit)

Technical Specifications

Electrical

Frequency response.....20 Hz to 20 kHz (-3dB)
 SNR.....≥80 dBA
 Dynamic range.....≥80 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.....+10 dBu, UNBAL.
 SI. INPUT (CH 1 ~ 3) RCA×3.....-12 dBu ~ +12 dBu, UNBAL.

Audio outputs

LINE OUT 1.....+20 dBu, BAL.
 MIC. MIX (1~4) OUTPUT.....+20 dBu, BAL.
 SI. OUTPUT (CH 0 ~ 3) RCA×4.....+10 dBu, UNBAL.

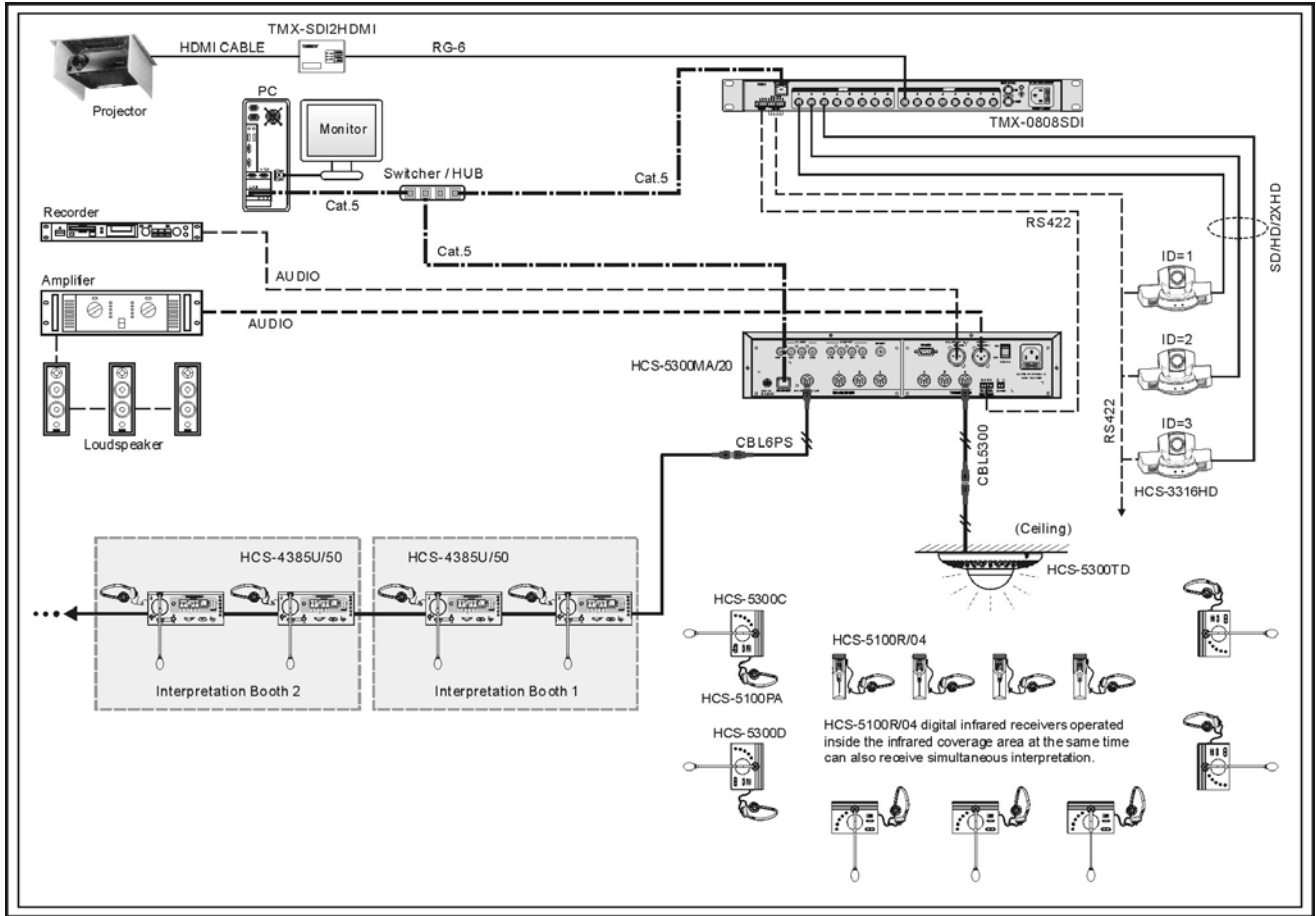
Interface data

Transceivers I/O terminal6P-DIN socket × 6
 up to 10 transceivers
 External control terminal.....RS232 D-sub (9P, male),
 USB interface,
 RJ45 (ETHERNET)
 Interpreter unit 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

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.....8.3 kg
 Color.....White

System Connection [Wireless discussion + 1+3 CHs digital simultaneous interpretation + voting + video tracking]



HCS-5300MB/20 Digital Infrared Wireless Conference Main Unit



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 - Compatible with HCS-5100 series digital infrared language distribution system, when cooperating with digital infrared language distribution system, enabling a larger audience to join in the conference
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In combination with a PC, the main unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference.

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Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
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- Standby switch with indicator
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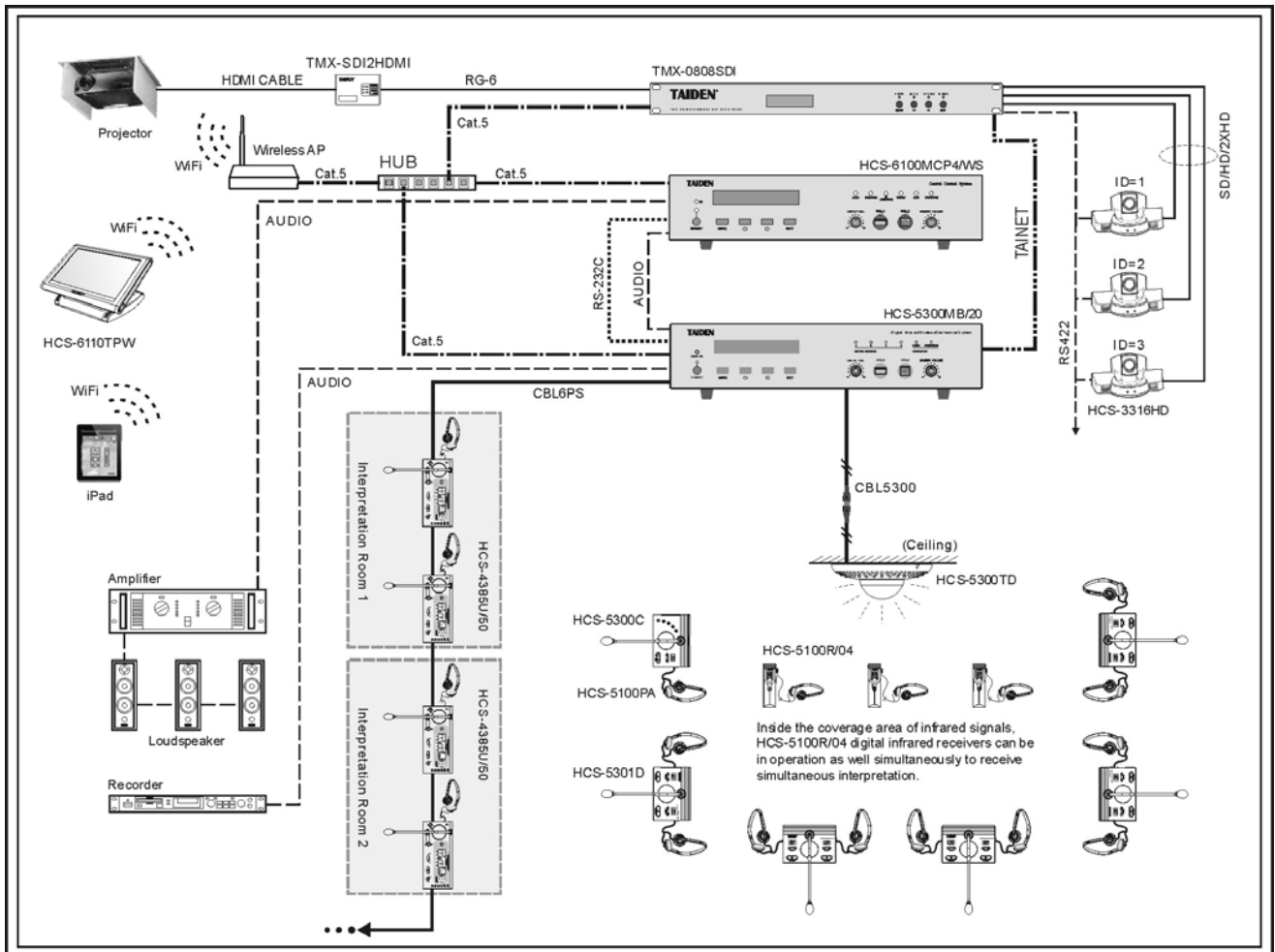
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System Connection

[Wireless discussion + 1+3 CHs digital simultaneous interpretation + video tracking + central control]



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- Ethernet interface
- Video switcher interface
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- 6 digital infrared transceiver interfaces, each HCS-5300MC/20 can connect up to 6 transceivers
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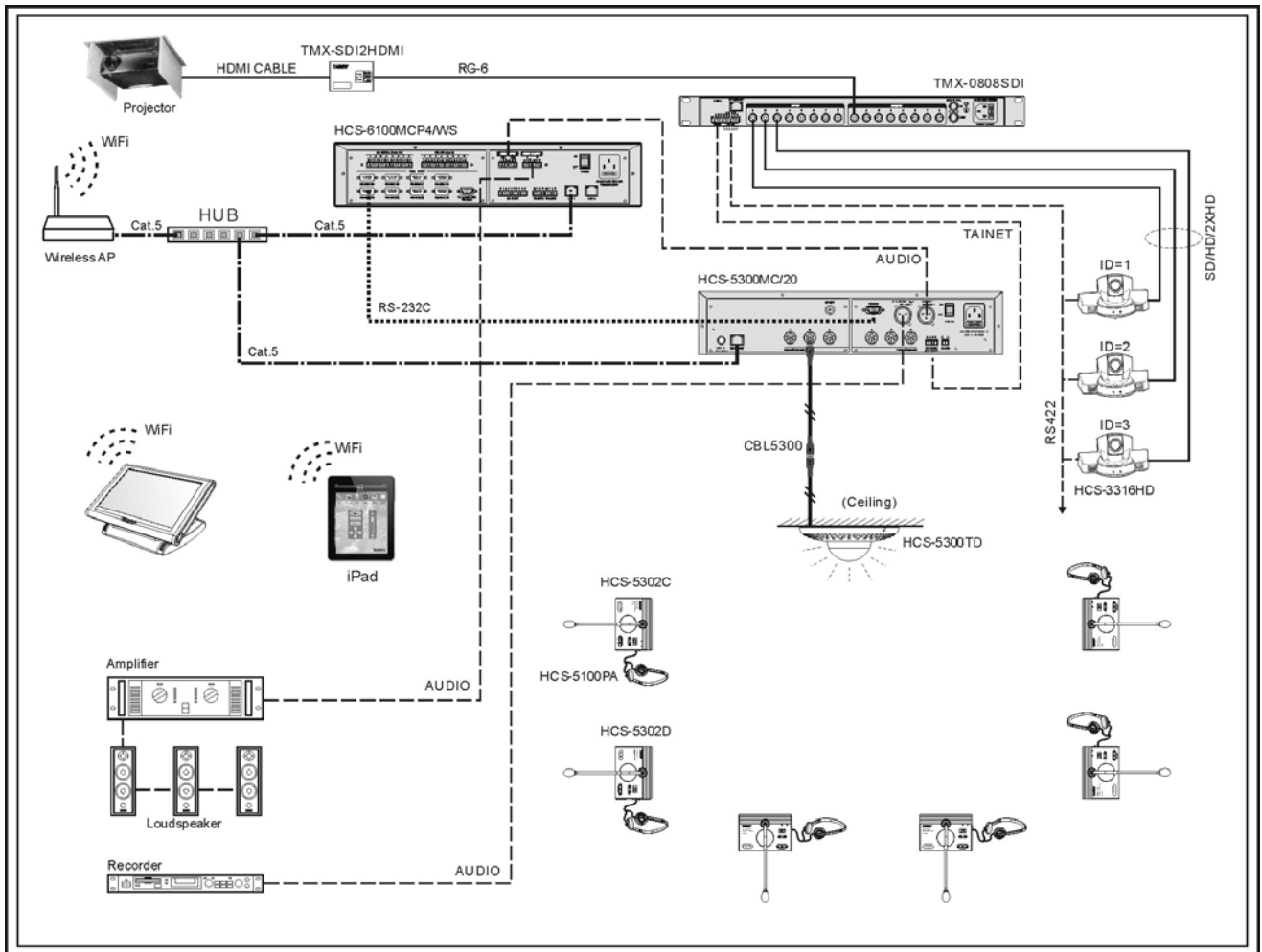
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 Weight.....8.3 kg
 Color.....White

Ordering Information

HCS-5300MC/20.....Digital IR Wireless Conference
 System Main Unit (discussion)

System Connection [Wireless discussion + video tracking + central control]



Function list

| Type No. | Discussion | Voting | Simultaneous interpretation |
|---------------|------------|--------|-----------------------------|
| HCS-5300MA/20 | √ | √ | 1+3 CHs |
| HCS-5300MB/20 | √ | | 1+3 CHs |
| HCS-5300MC/20 | √ | | |

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 x 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 x 4 group outputs** Digital IR Matrix Switcher, 5 outputs per group
- Up to 20 transceiver outputs per HCS-5300MX unit
- 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 x 430 x 325 mm
 For 19" rack use, with brackets.....89 x 478 x 350 mm
 Weight.....10.6 kg
 Color.....White

Ordering Information

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

