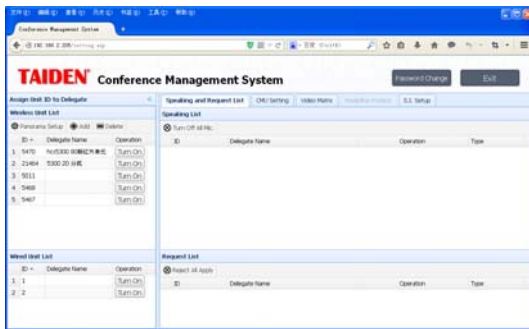


## HCS-5300MA/WS/80 Digital Infrared Wireless Conference Main Unit



Web Control Page

### 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
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management
- 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/+/>++
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management, include CMU setting, microphone control, video tracking, S.I. setting, etc.
- 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/WS/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

**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/WS/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, Built-in Web Server)

**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.

## 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

**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)

**Technical Specifications**

**Electrical**

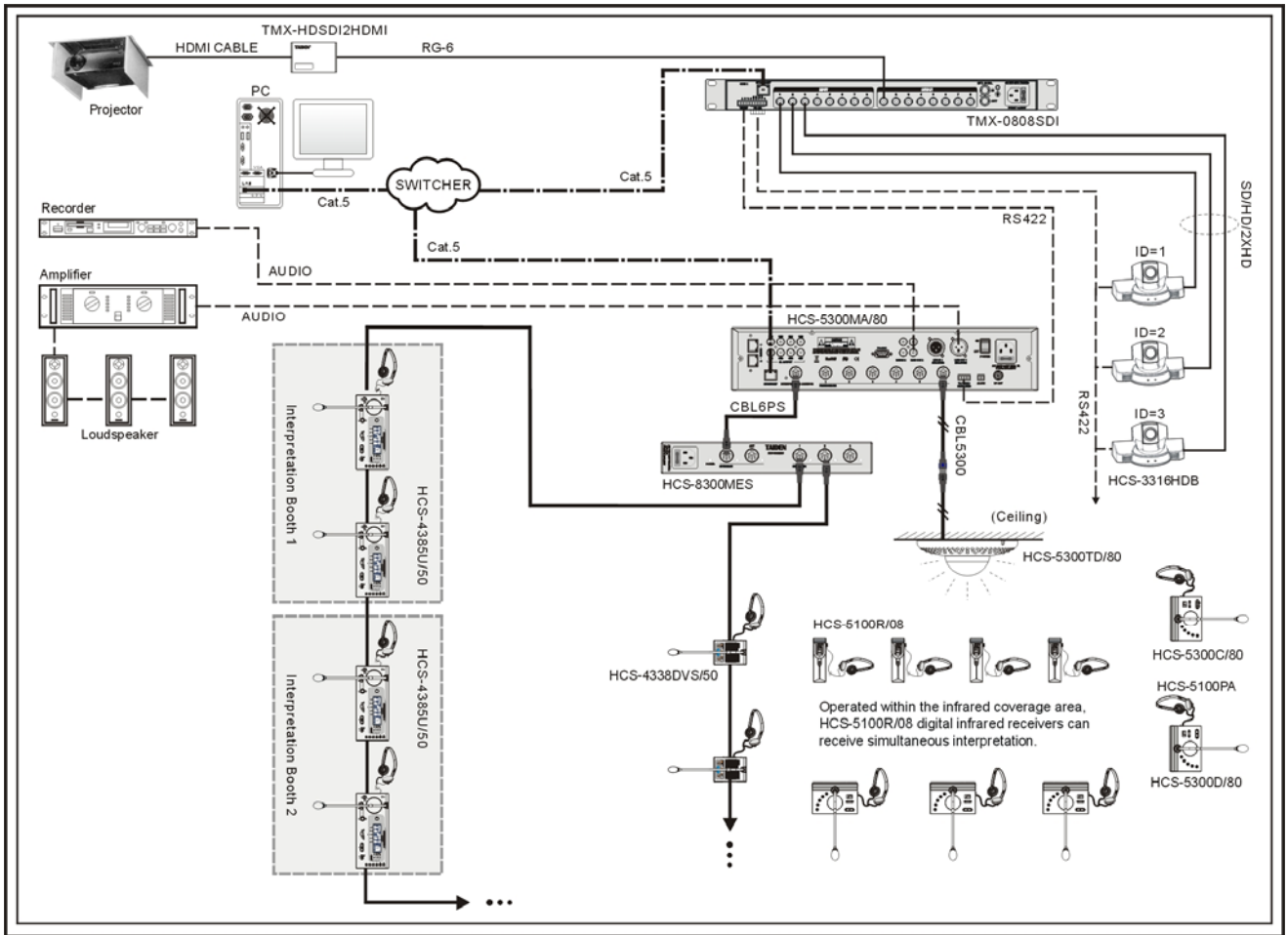
Frequency response .....20 Hz to 20 kHz (-3dB)  
 SNR .....>85 dBA  
 Dynamic range .....>90 dB  
 THD at 1 kHz .....<0.06%  
 Isolation .....>80 dB  
 Power supply .....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
 Power consumption .....Max. 160 W

**Audio inputs**

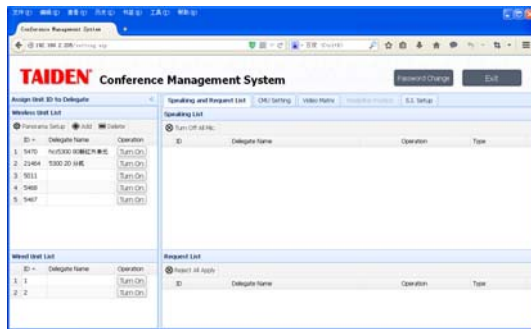
LINE IN 1 .....+10 dBu, BAL.  
 LINE IN 2 .....+15 dBu, UNBAL.

**System Connection**

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



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



Web Control Page

### 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
- 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
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management
- 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 and distributing simultaneous interpretation, 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
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management, include CMU setting, microphone control, video tracking, S.I. setting, etc.
- 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
- 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/WS/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

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

**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.

## HCS-5300MB/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
  - 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
  - Can be connected to HCS-4100/50 series Wired Congress Unit or 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
- 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
  - 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

The digital infrared wireless conference main unit includes features for controlling delegate microphones and distributing simultaneous interpretation, 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

### 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
- 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
- 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

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**Ordering Information**

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

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**Technical Specifications**

**Electrical**

Frequency response.....20 Hz to 20 kHz (-3dB)  
 SNR.....>85dBA  
 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**

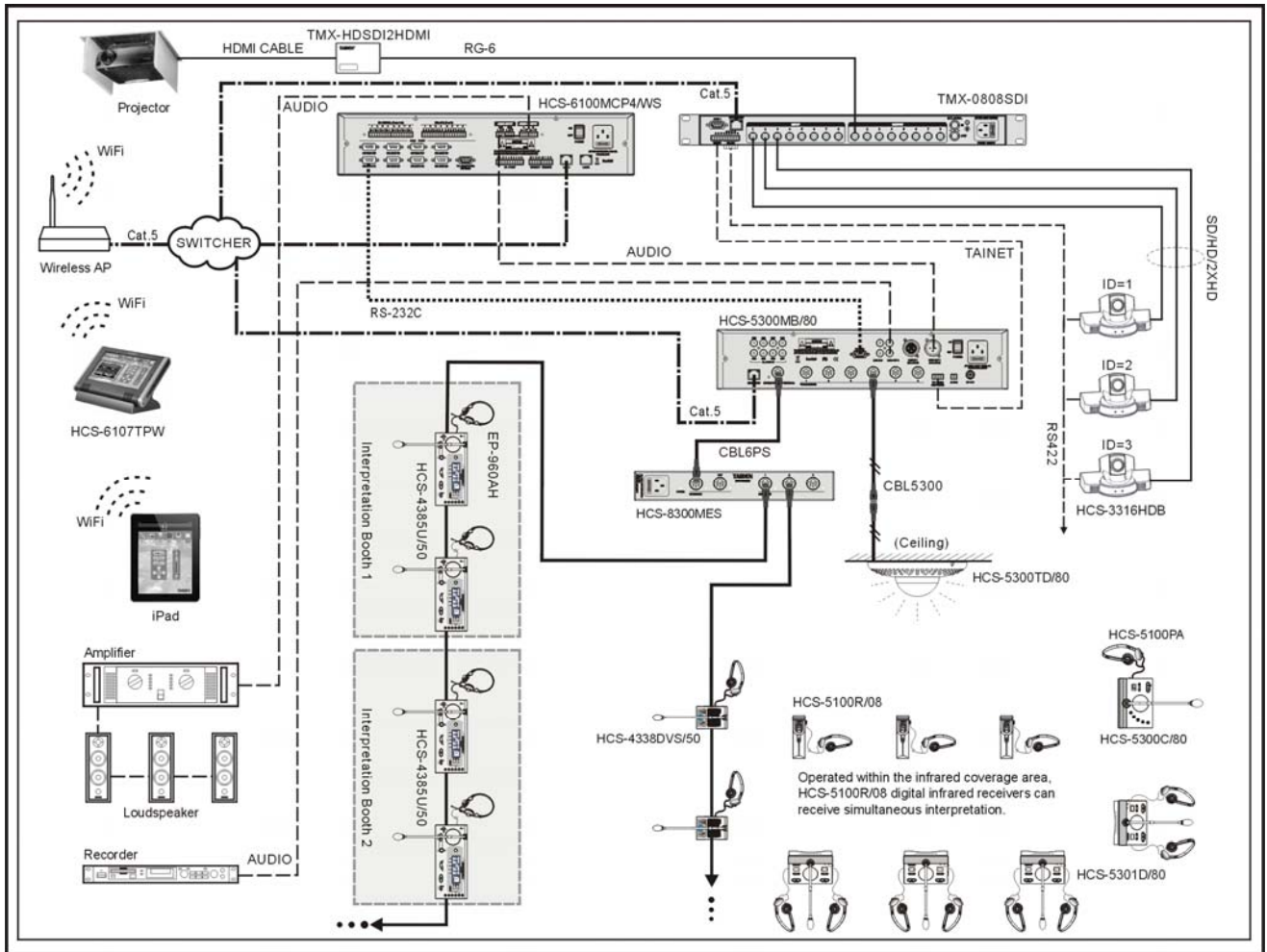
Transceivers I/O terminal .....6P-DIN socket × 6  
 up to 10 transceivers  
 External control terminal.....RS232 D-sub (9P, male), USB  
 interface, RJ45 (ETHERNET)  
 Interpreter unit / DCS terminal.....6P-DIN socket × 1  
 HF OUT (Radiator terminal).....BNC connector × 1  
 Alarm terminal .....3.81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

**Mechanical**

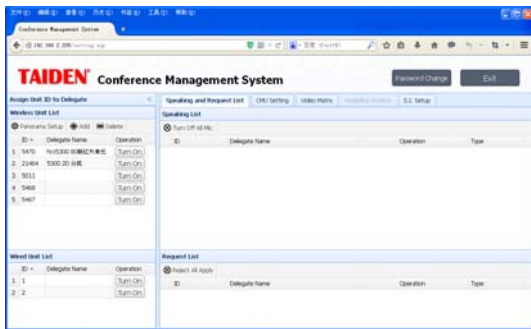
Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h x w x d)  
 For table use, with feet.....99 x 430 x 325 mm  
 For 19" rack use, with brackets.....89 x 478 x 350 mm  
 Weight.....10.5 kg  
 Color.....White (PANTONE 420 C)

**System Connection**

**[Wired/Wireless discussion + 1+7 CHs digital simultaneous interpretation + video tracking + central control]**



## HCS-5300MC/WS/80 Digital Infrared Wireless Conference Main Unit



Web Control Page

### Features

- Original dirATC-digital infrared Audio Transmitting and Control technologies
- 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-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
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management
- 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 feature for controlling delegate microphones, 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
- 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 the "Mic. On/Off" button
  - ◆ "OVERRIDE" mode, if Mic. active limit has been reached, when pressing "Mic. On/Off", next microphone can be turned on and the first active microphone will be turned off
  - ◆ "VOICE" mode, Mic. sensitivity and close time adjustable, built-in "Flash-on" technology for quick voice control
- With web page control function, the user can access the IP address of main unit from web browser to handle meeting management, include CMU setting, microphone control, video tracking, etc.
- 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
  - ◆ 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
- 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 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

**Interface data**

Transceivers I/O terminal .....6P-DIN socket × 6,  
up to 6 transceivers

External control terminal.....RS232 D-sub (9P, male), USB  
interface, RJ45 (ETHERNET)

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.....8.0 kg

Color.....White (PANTONE 420 C)

**Ordering Information**

HCS-5300MC/80.....Digital IR Wireless Conference  
System Main Unit (discussion,  
Built-in Web Server)

**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.

## HCS-5300MC/80 Digital Infrared Wireless Conference Main Unit



### Features

- Original dirATC-digital infrared Audio Transmitting and Control technologies
- 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-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
- Excellent immunity to RF interference from mobile phones and comparable devices

The digital infrared wireless conference main unit includes feature for controlling delegate microphones, 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
- 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 the "Mic. On/Off" button
  - ◆ "OVERRIDE" mode, if Mic. active limit has been reached, when pressing "Mic. On/Off", next microphone can be turned on and the first active microphone will be turned off
  - ◆ "VOICE" mode, Mic. sensitivity and close time adjustable, built-in "Flash-on" technology for quick voice control
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- 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

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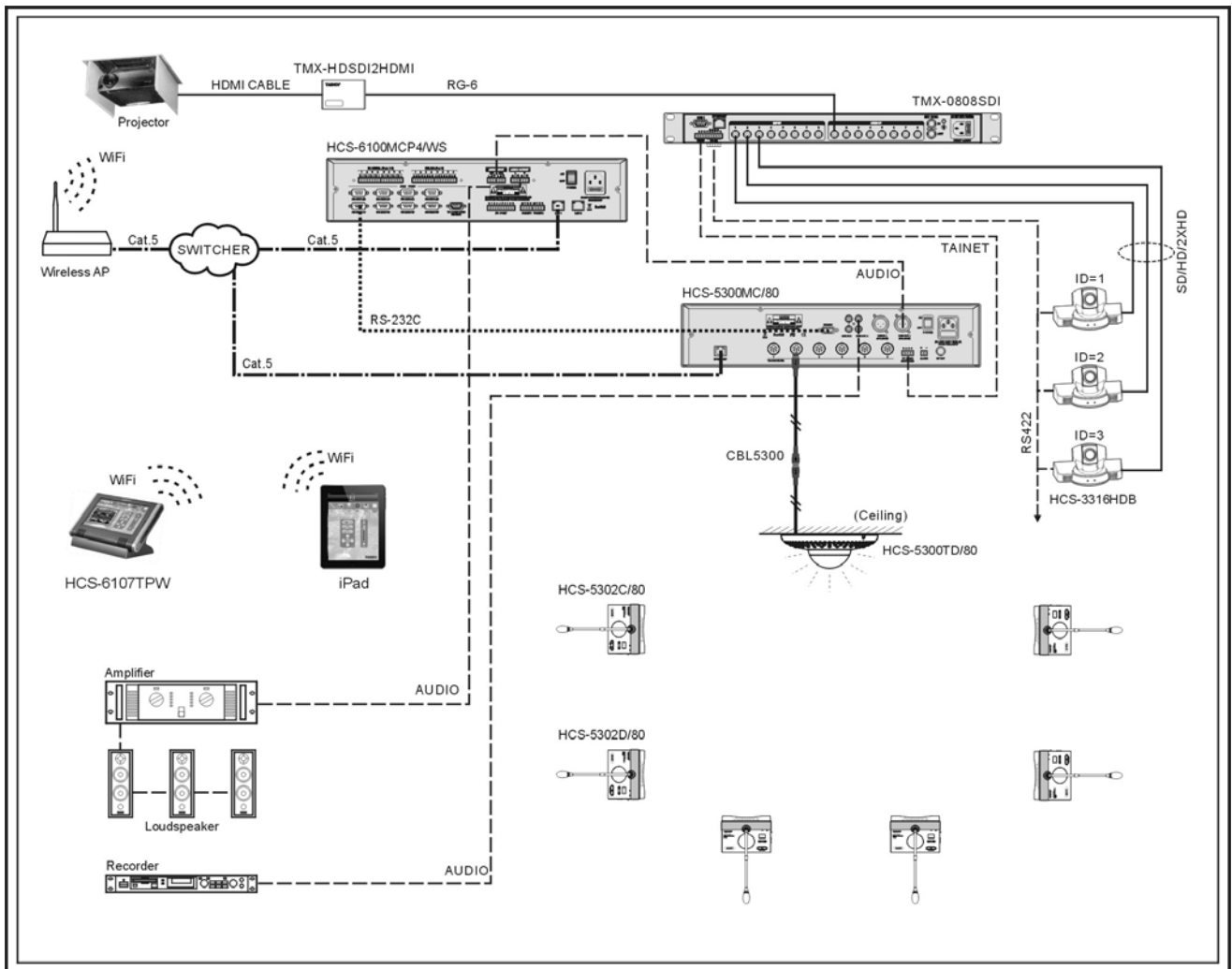
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 Color.....White (PANTONE 420 C)

**Ordering Information**

HCS-5300MC/80.....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	Web server
HCS-5300MA/WS/80	√	√	1+7 CHs	√	√
HCS-5300MA/80	√	√	1+7 CHs	√	
HCS-5300MB/WS/80	√		1+7 CHs		√
HCS-5300MB/80	√		1+7 CHs		
HCS-5300MC/WS/80	√				√
HCS-5300MC/80	√				