

Digital Infrared Wireless Conference System



Digital IR Wireless Conference System

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Digital IR Wireless Conference System

Overview

Wireless conference systems – portable, easy to install and convenient to use – are currently trend-setting. Wireless systems do not require structural measures inside a venue.

Two kinds of wireless conference systems are prevailing: RF (radio frequency) and IR (infrared) technology with analog audio transmission.

RF systems may be interfered (ISM band) or intercepted and operation either needs license or is confined to the public domain IEC 802.11x band.

Analog IR systems feature frequency responses which are too small for good intelligibility and also show lower S/N ratio.

System Theory

The core of the TAIDEN digital infrared wireless conference system – dirATC (digital infrared Audio Transmitting and Control technologies) - is a new technology originated by TAIDEN. It encodes and modulates audio and data signals digitally for transmission via infrared light, achieving both multi-channel audio signals and bidirectional data transmission and control. Digitalization and wireless transmission via infrared technology are combined to be an ideal solution for a wireless conference system. The digital infrared processing chip (TAIDEN TDIR04) originated by TAIDEN, integrates A/D (analog/digital) conversion circuit, digital encoding/decoding circuit, digital modulator/demodulator (DQPSK), as well as filtering and amplification circuit, and implements TAIDEN infrared audio transmission and control technology (dirATC). (Figure 1)



Figure 1 TAIDEN TDIR04 digital infrared processing chip

TAIDEN digital infrared wireless conference system is composed of a main unit, one or more transceivers and conference units.

The infrared conference unit features built-in A/D and D/A conversion circuits, digital encoding/decoding and modulator / demodulator (DQPSK) circuits. The infrared conference system main unit has a built-in demodulator/modulator (DQPSK), a digital decoding/encoding circuit and a D/A converter circuit. A mixer circuit is inserted between the decoding circuit and the D/A converter. The main unit can be connected with several infrared transceivers, using a daisy chain or Y connection arrangement (figure 2 and figure 3)

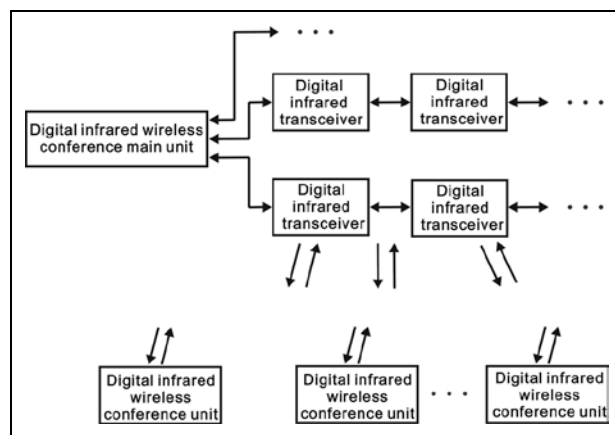


Figure 2 Block diagram of digital infrared conference system

The basic infrared conference unit version with discussion function includes microphone, microphone switch button, loudspeaker, battery, etc. The infrared discussion unit receives audio and control signals via infrared from the transceiver - signals previously generated by the main unit. The discussion unit transmits infrared control signals back to the transceiver which conveys all data to the main unit. When the microphone is turned on, the infrared discussion unit also sends infrared digital audio signals to the main unit. A system can consist of up to 1000 infrared discussion units with 4 units activated at the same time

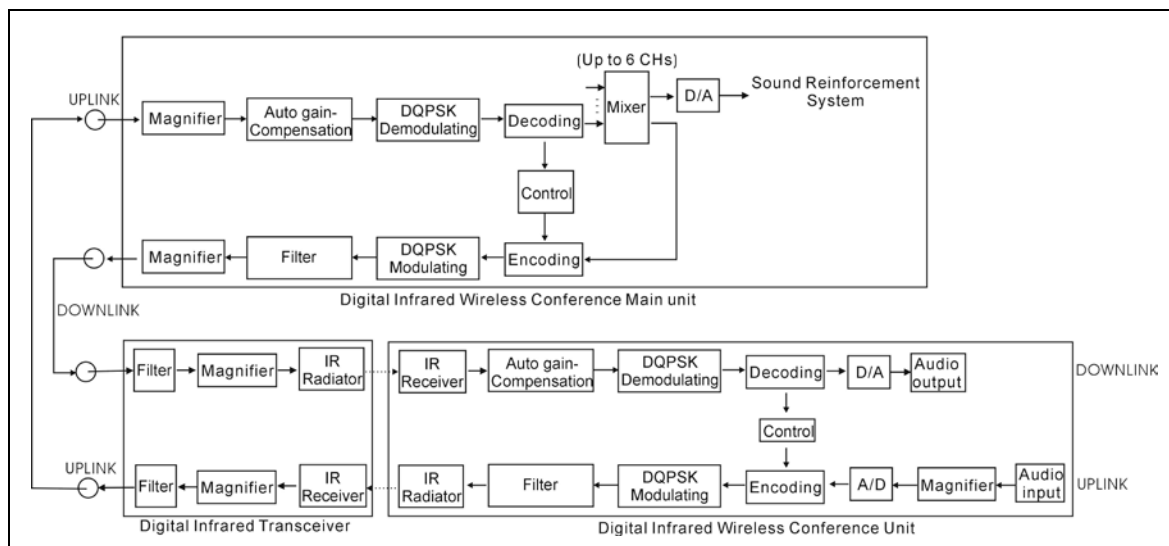


Figure 3 Schematic diagram of the digital infrared conference system

System Features

TAIDEN originated digital infrared wireless conference system

- Based on TAIDEN originated dirATC-digital infrared Audio Transmitting and Control technologies
- Wireless system, easy to set up and to remove
- Perfect sound quality as CD from the microphone
- Microphone sensitivity and EQ individually adjustable
- Isolated audio recording function for simultaneous interpretation (1+7 CHs)
- Privacy guarantee by infrared transmission
- Any quantity of infrared wireless conference systems within a building
- No worries about eavesdropping and radio interference, no radio radiation
- Full functions (discussion, voting and 1+7 CHs interpretation)
- No radio frequency license needed for operating an infrared system all over the world
- Adopts 1~8 MHz transmission frequency, undisturbed by HF driven light sources
- Excellent immunity to RF interference from mobile phones and RF devices
- Automatic video tracking
- USB interface realizing quality-lossless sound recording on PC and intact input of streaming audio into the system
- Compatible with HCS-5100Plus digital infrared language distribution system (HCS-5100R series digital infrared receivers can work with HCS-5300T/80 series transceivers)
- Built-in Web Server

Wireless Conference System

- Quick setup and removal, free from troubles resulting from cable breaks and cable deteriorations
- Easy to set up a system for usage limited in time
- No impact on furniture, interior equipment or building structure

Infrared Transmission Technology

- Conference privacy is guaranteed as infrared signals do not pass through opaque walls or ceilings
- Wherever there is a partition between conference rooms, there is no interference
- Any quantity of infrared wireless conference systems within a building
- The infrared communication frees users from worries about eavesdropping and radio interference inherent to radio wave-based wireless communications
- No radio radiation
- No radio frequency license needed for operating an infrared system all over the world
- Adopts 1~8 MHz transmission frequency, undisturbed by HF driven light sources and mobile phones
- Works without errors, even in bright sunlight

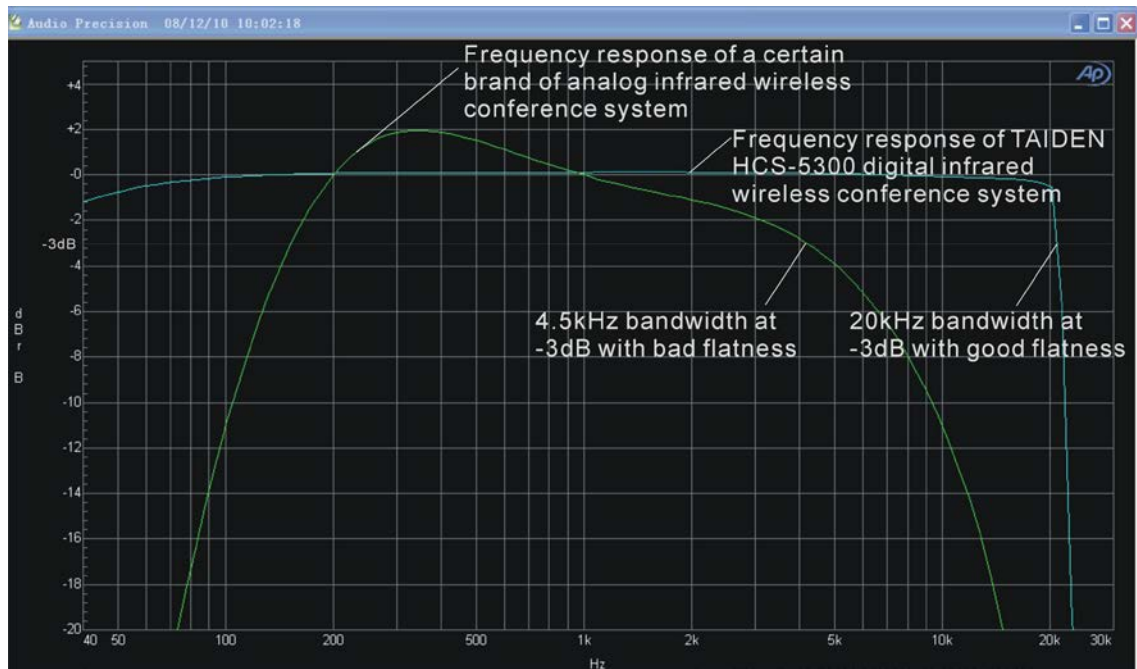
Digital Infrared Audio Technology

- Digital infrared audio processing and transmitting technologies ensure superb sound quality:
 - ◆ Freq. Response: 50 Hz to 20 kHz
 - ◆ S/N: ≥90 dBA
 - ◆ THD: ≤0.05%

Full Functions

- Discussion
- Vote (5 keys)
- Simultaneous interpretation (1+7 CHs)
- Isolated audio recording function for simultaneous interpretation (1+7 CHs)

Frequency response measurement diagram of a TAIDEN HCS-5300/80 digital infrared wireless conference system compared with a customary conventional analog infrared wireless conference system. The system frequency response bandwidth of the TAIDEN digital infrared wireless conference system is large and flat, thus ensuring a perfect sound performance of the conference system.



Digital infrared wireless conference systems can be operated in adjacent rooms (including the upstairs and downstairs). The users do not need to worry about mutual interference or about the breach of confidentiality.

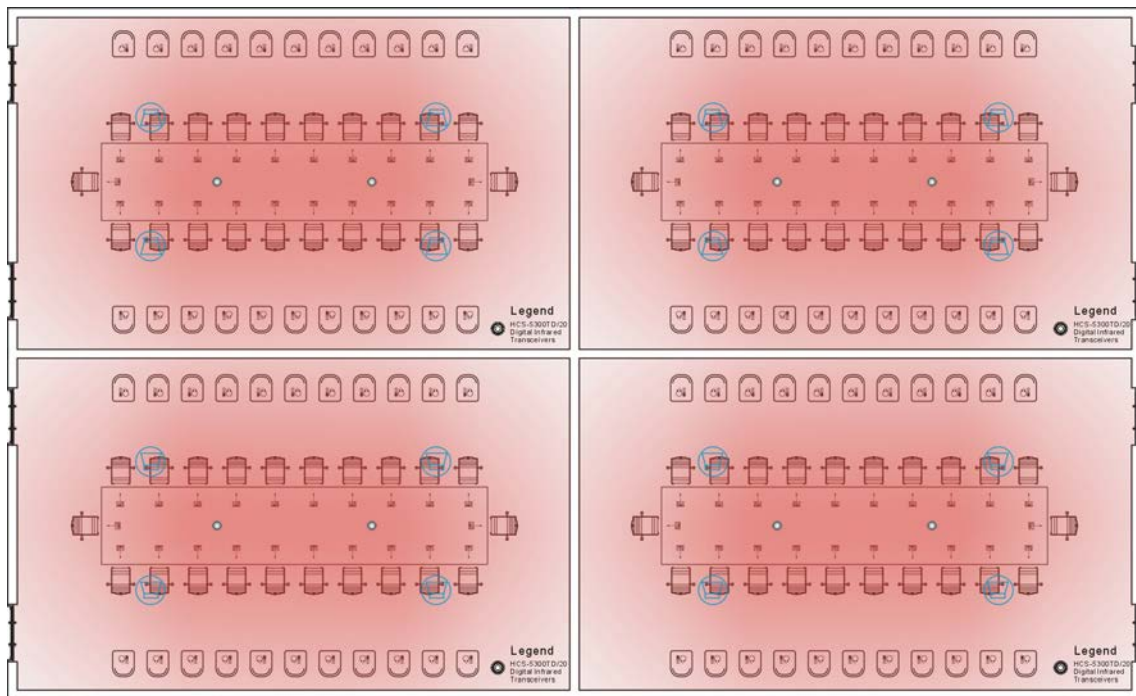


Figure 7 Conference rooms using IR systems free from interferences

Radio frequency (RF) systems in use in adjacent rooms (including the upstairs and downstairs) will interfere with each other. The more active units operated, the worse the interferences. As a result, a room could receive the signals of adjacent rooms, thus causing a breach of confidentiality.

In an existing application within a large Administration Center, nine installed RF wireless conference system sets often interfere with each other when operated. Therefore only alternating operation is possible - a great inconvenience for the user! RF wireless conference systems may interfere with WiFi devices, Bluetooth devices, wireless radio, cordless phones, wireless projectors, wireless mice, wireless keyboards and wireless touch panels of central control systems. These interferences are both space- and time-varying and a cause for the instability of RF wireless conference systems.

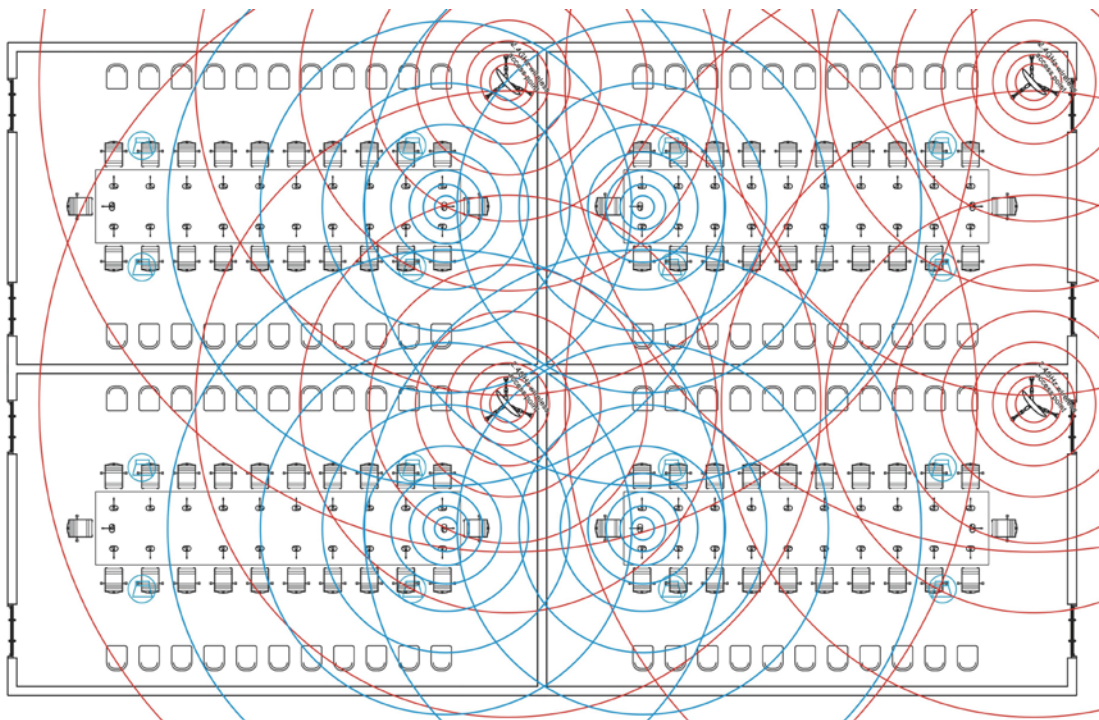


Figure 8 RF interference diagram

HCS-5390CE Digital IR Wireless Chairman Unit



Features

- **Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **Priority button**
- **5 voting keys**
- **Braille is present for physical buttons**
- **System controls up to 1000 contribution units**
- **Transmitting up to 8 CHs high quality digital audio signals**
- **Built-in channel selector consists of up/down channel select keys**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The HCS-5390CE chairman unit with Innovative and minimalist design has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5390DE Delegate Unit, the HCS-5390CE Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Channel number, language name, signal icon, battery power, and headphone volume is displayed under normal use
 - ◆ Sign-in /voting icon is displayed when sign-in /vote is started
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly

- In combination with the corresponding software, multiform voting can be implemented:
 - ◆ For/Against (requires firmware version 1.00.01.01 or higher).
 - ◆ Parliamentary: YES/NO/ABSTAIN
 - ◆ Questionnaire: 1/2/3/4/5
 - ◆ Audience response: --/0/+/>++
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video tracking matrix switcher
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, channel number, language name, battery capacity and signal icon, earphone volume, sign-in/vote icon, alarm status and charging status
- Built-in channel selector consists of up/down channel select keys
- Power switch
- Headphone volume control button
- Five voting keys
- Microphone On/Off button
- Priority button
- Mode LED Indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d) (w/o Mic.).....57 x 201 x 135 mm
 Weight
 Excl. battery.....0.6 kg
 Incl. battery.....0.9 kg
 Color.....Modern Gray (PANTONE 410C)

HCS-5390CE.....Digital IR Wireless Chairman Unit (discussion, voting, 1+7 CHs, Braille, modern gray, excl. battery, stem microphone to be ordered separately)

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

HCS-5390DE

Digital IR Wireless Delegate Unit



Features

- Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- 5 voting keys
- Braille is present for physical buttons
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Built-in channel selector consists of up/down channel select keys
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, voting and selecting language channels. It has excellent immunity to RF interference from mobile phones and features a channel selector and a headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Channel number, language name, signal icon, battery power, and headphone volume is displayed under normal use
 - ◆ Sign-in /voting prompt is displayed when sign-in /vote is started
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly

- In combination with the corresponding software, multiform voting can be implemented:
 - ◆ For/Against (requires firmware version 1.00.01.01 or higher).
 - ◆ Parliamentary: YES/NO/ABSTAIN
 - ◆ Questionnaire: 1/2/3/4/5
 - ◆ Audience response: --/0/+/++
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160×80 OLED screen for displaying Model, ID, firmware version, channel number, language name, battery capacity and signal icon, earphone volume, sign-in/vote icon, alarm status and charging status
- Built-in channel selector consists of up/down channel select keys
- Power switch
- Headphone volume control button
- Five voting keys
- Microphone On/Off button
- Mode LED Indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d).....57 x 201 x 135 mm
 Weight
 Excl. battery.....0.6 kg
 Incl. battery.....0.9 kg
 Color.....Modern Gray (PANTONE 410C)

HCS-5390DE.....Digital IR Wireless Delegate Unit
 (discussion, voting, 1+7 CHs, Braille, modern gray, excl. battery, stem microphone to be ordered separately)

HCS-5390RCAE Digital IR Wireless Chairman Unit



Features

- Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range: -22° ~ +65°
- 5 voting keys
- Braille is present for all physical buttons
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Built-in channel selector consists of up/down channel select keys
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The HCS-5390RCAE chairman unit with Innovative and minimalist design has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5390RDAE Delegate Unit, the HCS-5390RCAE Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Channel number, language name, signal icon, battery power, and headphone volume is displayed under normal use
 - ◆ Sign-in /voting prompt is displayed when sign-in /vote is started
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly

- In combination with the corresponding software, multimodal voting can be implemented:
 - ♦ For/Against (requires firmware version 1.00.01.01 or higher).
 - ♦ Parliamentary: YES/NO/ABSTAIN
 - ♦ Questionnaire: 1/2/3/4/5
 - ♦ Audience response: --/-/0/+/>++
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, channel number, language name, battery capacity and signal icon, earphone volume, sign-in/vote icon , alarm status and charging status
- Built-in channel selector consists of up/down channel select keys
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Power switch
- Headphone volume control button
- Five voting keys
- Microphone On/Off button
- Priority button
- Mode LED Indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Equivalent noise.....20 dBA
SNR.....74 dBA
Maximum sound pressure level 132 dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone
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Operation time of battery pack

When mic. is continuously on _____ Approx. 14.4 hours

When mic. is off Approx. 48 hours

Mechanical

Mounting Tabletop

Dimensions (h x w x d) (w/o Mic.) 57 x 201 x 135 mm

Weight

Excl. battery	0.9 kg
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Incl. battery	1.2 kg
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Color Modern Gray (PANTONE 410C)

HCS-5390RCAE..... Digital IR Wireless Chairman Unit
(discussion, voting, 1+7 CHs,
rectangular columnar metal
microphone, Ø16mm gold-plated
large-diaphragm high
performance electret condenser
microphone, Braille, modern gray,
excl. battery)

Technical Specifications

Electrical

Headphone connection

Frequency response..... 50 Hz to 20 kHz

Headphone load impedance $\geq 16 \text{ Ohm}$

Headphone output 10 mW

Microphone

Transducer Ø16mm gold-plated electret-condenser

Polar pattern Hypercardioid uni-directional

Sensitivity -37 dB (0dB=1V/Pa)

Frequency response 20 Hz to 20 kHz

Frequency response	20 Hz to 20 kHz
Directivity (0°/120°)	≥ 28 dB (@1 kHz)

 $\geq 28 \text{ dB (@2 kHz)}$ $\geq 26 \text{ dB (@4 kHz)}$

HCS-5390RDAE

Digital IR Wireless Delegate Unit



Features

- Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range: -22° ~ +65°
- 5 voting keys
- Braille is present for all physical buttons
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Built-in channel selector consists of up/down channel select keys
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, voting and selecting language channels. It has excellent immunity to RF interference from mobile phones and features a channel selector and a headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ♦ Model, software version and ID is displayed when it startup
 - ♦ Channel number, language name, signal icon, battery power, and headphone volume is displayed under normal use
 - ♦ Sign-in /voting prompt is displayed when sign-in /vote is started
 - ♦ 'ALARM' prompt is displayed when the alarm triggers
 - ♦ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly

- In combination with the corresponding software, multimodal voting can be implemented:
 - ♦ For/Against (requires firmware version 1.00.01.01 or higher).
 - ♦ Parliamentary: YES/NO/ABSTAIN
 - ♦ Questionnaire: 1/2/3/4/5
 - ♦ Audience response: --/-0/+/>++
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery
operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, channel number, language name, battery capacity and signal icon, earphone volume, sign-in/vote icon , alarm status and charging status
- Built-in channel selector consists of up/down channel select keys
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Power switch
- Headphone volume control button
- Five voting keys
- Microphone On/Off button
- Mode LED Indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
Headphone load impedance..... $\geq 16\ \Omega$
Headphone output.....10 mW

Microphone

Transducer.....	Ø16mm gold-plated electret-condenser
Polar pattern.....	Hypercardioid uni-directional
Sensitivity.....	-37 dB (0dB=1V/Pa)
Frequency response.....	20 Hz to 20 kHz
Directivity (0°/120°).....	≥ 28 dB (@1 kHz)
	≥ 28 dB (@2 kHz)
	≥ 26 dB (@4 kHz)
Equivalent noise.....	20 dBA
SNR.....	74 dBA
Maximum sound pressure level	132 dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone
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Operation time of battery pack

When mic. is continuously on..... Approx. 14.4 hours

When mic. is off Approx. 48 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.) 57 x 201 x 135 mm

Weight

Excl. battery.....0.9 kg

Incl. battery.....	1.2 kg
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Color Modern Gray (PANTONE 410C)

HCS-5390RAE.....Digital IR Wireless Delegate Unit
(discussion, voting, 1+7 CHs,
rectangular columnar metal
microphone, Ø16mm gold-plated
large-diaphragm high performance
electret condenser microphone,
Braille, modern gray, excl. battery)

HCS-5391CE Digital IR Wireless Chairman Unit



Features

- Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- Braille is present for physical buttons
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The HCS-5391CE chairman unit with Innovative and minimalist design has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5391DE Delegate Unit, the HCS-5391CE Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ♦ Model, software version and ID is displayed when it startup
 - ♦ Signal icon, battery power, microphone status and headphone volume is displayed under normal use
 - ♦ 'ALARM' prompt is displayed when the alarm triggers
 - ♦ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video tracking matrix switcher

- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, signal icon, battery power, microphone status, headphone volume, alarm status and charging status
- Power switch
- Headphone volume control button
- Microphone On/Off button
- Priority button
- Mode LED Indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d)57 x 201 x 135 mm
 Weight
 Excl. battery.....0.6 kg
 Incl. battery.....0.9 kg
 Color.....Modern Gray (PANTONE 410C)

HCS-5391CE.....Digital IR Wireless Chairman Unit
 (discussion, Braille, modern gray, excl.
 battery, stem microphone to be ordered
 separately)

HCS-5391DE Digital IR Wireless Delegate Unit



Features

- **Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **Braille is present for physical buttons**
- **System controls up to 1000 contribution units**
- **Transmitting up to 8 CHs high quality digital audio signals**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, voting and selecting language channels. It has excellent immunity to RF interference from mobile phones and features a channel selector and a headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Signal icon, battery power, microphone status and headphone volume is displayed under normal use
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly

- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery
- Operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, signal icon, battery power, microphone status, headphone volume, alarm status and charging status
- Power switch
- Headphone volume control button
- Microphone On/Off button
- Mode LED Indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d).....57 x 201 x 135 mm
 Weight
 Excl. battery.....0.6 kg
 Incl. battery.....0.9 kg
 Color.....Modern Gray (PANTONE 410C)

HCS-5391DE.....Digital IR Wireless Delegate Unit (discussion, Braille, modern gray, excl. battery, stem microphone to be ordered separately)

HCS-5391DDS

Digital IR Wireless Delegate Unit



Features

- **Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **System controls up to 1000 contribution units**
- **Transmitting up to 8 CHs high quality digital audio signals**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, and selecting language channels. It has excellent immunity to RF interference from mobile phones and features two microphone On/Off button with dual predefined positions, two channel selector and two headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Unique ID preset for each unit to avoid double ID forever
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Dual Microphone On/Off button with dual predefined positions and can be used as a dual delegate unit
- Two Ø 3.5 mm stereo headphone jacks for headphones with separate volume control
- Dual channel selector (operable only when earphone is inserted) for dual delegates
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Channel number, language name, signal icon, battery power, and headphone volume is displayed under normal use
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery
- Operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, channel number, language name, battery capacity and signal icon, earphone volume, sign-in/vote icon, alarm status and charging status
- Channel select keys
- Power switch
- Two headphone volume control buttons
- Two microphone On/Off buttons with indicator
- Mode LED Indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d).....57 x 201 x 135 mm
 Weight
 Excl. battery.....0.6 kg
 Incl. battery.....0.9 kg
 Color.....Modern Gray (PANTONE 410C)

HCS-5391DDS.....Digital IR Wireless Delegate Unit
 (discussion, 1+7 CHs, 2 channel
 selectors, dual predefined positions,
 modern gray, excl. battery, stem
 microphone to be ordered separately)

HCS-5391RCAE Digital IR Wireless Chairman Unit



Features

- Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range:-22°~ +65°
- Braille is present for all physical buttons
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The HCS-5391RCAE chairman unit with Innovative and minimalist design has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5390RDAE Delegate Unit, the HCS-5391RCAE Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ♦ Model, software version and ID is displayed when it startup
 - ♦ Signal icon, battery power, microphone status and headphone volume is displayed under normal use
 - ♦ 'ALARM' prompt is displayed when the alarm triggers
 - ♦ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system

- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, signal icon, battery power, microphone status, headphone volume, alarm status and charging status
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Power switch
- Headphone volume control button
- Microphone On/Off button
- Priority button
- Mode LED Indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Headphone connection

Frequency response.....50 Hz to 20 kHz
Headphone load impedance..... $\geq 16\ \Omega$
Headphone output.....10 mW

Microphone

Transducer.....	Ø16mm gold-plated electret-condenser
Polar pattern.....	Hypercardioid uni-directional
Sensitivity.....	-37 dB (0dB=1V/Pa)
Frequency response.....	20 Hz to 20 kHz
Directivity (0°/120°).....	≥ 28 dB (@ 1 kHz)
	≥ 28 dB (@ 2 kHz)
	≥ 26 dB (@ 4 kHz)
Equivalent noise.....	20 dBA
SNR.....	74 dBA
Maximum sound pressure level.....	132 dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone
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Operation time of battery pack

When mic. is continuously on Approx. 14.4 hours
When mic. is off Approx. 48 hours

Mechanical

Mounting.....Tabletop
Dimensions (h x w x d) (w/o Mic.).....57 x 201 x 135 mm
Weight
Excl. battery.....0.9 kg
Incl. battery.....1.2 kg
Color Modern Gray (PANTONE 410C)

HCS-5391RCAE.....Digital IR Wireless Chairman Unit
(discussion, rectangular columnar
metal microphone, Ø16mm
gold-plated large-diaphragm high
performance electret condenser
microphone, Braille, modern gray,
excl. battery)

HCS-5391RDAE

Digital IR Wireless Delegate Unit



Features

- **Tabletop, innovative and minimalist design for embody bridging communication between participants inspired by the shape of a book.**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range:-22°~ +65°**
- **Braille is present for all physical buttons**
- **System controls up to 1000 contribution units**
- **Transmitting up to 8 CHs high quality digital audio signals**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, voting and selecting language channels. It has excellent immunity to RF interference from mobile phones and features a channel selector and a headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- System controls up to 1000 contribution units
- Unique ID preset for each unit to avoid double ID forever
- Equipped with a Type-C USB port at the bottom, which can be used for unit binding. Once bound, the conference unit can be used by the same participant, occupying only one transmission channel without any audio transmission delay. If one conference unit fails, another unit can seamlessly take over (requires hardware version 04 or higher).
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Built-in channel selector (operable only when earphone is inserted)
- Delicate and stylish 160×80 OLED with screen saver function, can display below information:
 - ◆ Model, software version and ID is displayed when it startup
 - ◆ Signal icon, battery power, microphone status and headphone volume is displayed under normal use
 - ◆ 'ALARM' prompt is displayed when the alarm triggers
 - ◆ Battery level is displayed when charging
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: approximately 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Delicate and stylish 160 × 80 OLED screen for displaying Model, ID, firmware version, signal icon, battery power, microphone status, headphone volume, alarm status and charging status
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Power switch
- Headphone volume control button
- Microphone On/Off button
- Mode LED Indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface
- Type-C USB interface

Technical Specifications

Electrical

Headphone connection

Frequency response..... 50 Hz to 20 kHz

Headphone load impedance ≥ 16 Ohm

Headphone output 10 mW

Microphone

Transducer.....Ø16mm gold-plated electret-condenser

Polar pattern	Hypercardioid uni-directional
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Sensitivity -37 dB (0dB=1V/Pa)

Frequency response.....20 Hz to 20 kHz

Directivity (0°/120°) _____ ≥ 28 dB (@1 kHz)

≥ 28 dB (@2 kHz)

≥ 26 dB (@4 kHz)

Equivalent noise 20 dBA

SNR 74 dBA

Maximum sound pressure level 132 dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone
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Operation time of battery pack

When mic. is continuously on _____ Approx. 14.4 hours

When mic. is off Approx. 48 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.) 57 x 201 x 135 mm

Weight

Excl. battery	0.9 kg
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Incl. battery.....1.2 kg

Color Modern Gray (PANTONE 410C)

HCS-5391RDAE.....Digital IR Wireless Delegate Unit

(discussion, rectangular columnar

metal microphone, Ø16mm

gold-plated large-diaphragm high

performance electret condenser

microphone, Braille, modern gray,

excl. battery)

HCS-5390/HCS-5391 series Conference Units Function list

Type No.	Status	Braille	Discussion	Sign-in & Voting	Simultaneous interpretation	Microphone
HCS-5390CE	chairman	√	√	√	1+7 CHs	Pluggable Microphone
HCS-5390DE	delegate	√	√	√	1+7 CHs	
HCS-5390RCAE	chairman	√	√	√	1+7 CHs	Rectangular columnar microphone
HCS-5390RDAE	delegate	√	√	√	1+7 CHs	
HCS-5391DDS	delegate		√		(1+7 CHs)×2	Pluggable Microphone
HCS-5391CE	chairman	√	√			
HCS-5391DE	delegate	√	√			
HCS-5391RCAE	chairman	√	√			Rectangular columnar microphone
HCS-5391RDAE	delegate	√	√			

HCS-5300CE_G/80

Wireless Chairman Unit with Voting and Channel Selection



Features

- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- 5 voting keys
- Transmitting up to 8 CHs high quality digital audio signals
- Built-in channel selector consists of up/down channel select keys and 2-digit channel indicator display
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5300DE/80 Delegate Unit, the HCS-5300CE/80 Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- In combination with the corresponding software, multiform voting can be implemented:
 - ♦ Parliamentary: YES/NO/ABSTAIN
 - ♦ Questionnaire: 1/2/3/4/5
 - ♦ Audience response: --/0/+/-
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman)

is within the maximum of 4 active microphones allowed by the system

- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: 14.4 hours when microphone is continuously on; 48 hours when microphone is off

HCS-5300CE_G/80.....Digital IR Wireless Chairman Unit (discussion, voting, 1+7 CHs, cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio, charcoal gray, excl. battery, stem microphone to be ordered separately)

Controls and Indicators

- Graphic 64x48 LCD with back-lighting for displaying channel number, language name, battery capacity and signal icon
- Built-in channel selector consists of up/down channel select keys and 2-digit channel indicator display
- Charging indicator
- Fully charged indicator
- Power switch
- Headphone volume control button
- Five voting keys with indicators
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours

When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d).....73 x 184 x 134 mm

Weight

Excl. battery.....0.5 kg

Incl. battery.....0.8 kg

Color.....Charcoal gray (PANTONE Cool Gray 11C)

HCS-5300DE_G/80

Wireless Delegate Unit with Voting and Channel Selection



Features

- **Table, stylish and ergonomic design**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **System controls up to 1000 contribution units**
- **5 voting keys**
- **Transmitting up to 8 CHs high quality digital audio signals**
- **Built-in channel selector consists of up/down channel select keys and 2-digit channel indicator display**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The multi-functional wireless delegate unit meets the demands of even the largest conferences and provides facilities for speaking, listening, voting and selecting language channels. It has excellent immunity to RF interference from mobile phones and features a channel selector and a headphone connection. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven light and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button, 5 voting keys
- Built-in channel selector (operable only when earphone is inserted)
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- In combination with the corresponding software, multiform voting can be implemented:
 - ♦ Parliamentary: YES/NO/ABSTAIN
 - ♦ Questionnaire: 1/2/3/4/5
 - ♦ Audience response: --/-/0/+/>++
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit

- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Graphic 64x48 LCD with back-lighting for displaying channel number, language name, battery capacity, and signal icon
- Built-in channel selector consists of up/down channel select keys and 2-digit channel indicator display
- Charging indicator
- Fully charged indicator
- Power switch
- Headphone volume control button
- Five voting keys with indicators
- Microphone On/Off button with indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

HCS-5300DE_G/80.....Digital IR Wireless Delegate Unit (discussion, voting, 1+7 CHs, cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio, charcoal gray, excl. battery, stem microphone to be ordered separately)

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours

When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d)73 x 184 x 134 mm

Weight

Excl. battery.....0.5 kg

Incl. battery.....0.8 kg

ColorCharcoal gray (PANTONE Cool Gray 11C)

HCS-5301D/80

Wireless Delegate Unit with Dual Channel Selection



Features

- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- System controls up to 1000 contribution units
- Transmitting up to 8 CHs high quality digital audio signals
- Built-in dual channel selectors consist of up/down channel select keys and 2-digit channel indicator display
- The microphone on/off buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking
- Can be used as a dual delegate unit
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

The multi-functional wireless delegate unit can be used by two delegates. It provides facilities for speaking, listening and selecting language channels and has excellent immunity to RF interference from mobile phones. It features two separate headphone connections with individual volume control, two separate microphone on/off buttons and two separate channel selectors on both sides of the unit, allowing one unit to serve two delegates. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven light and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Two Ø 3.5 mm stereo headphone jacks for headphones with separate volume control
- With two separate microphone on/off buttons for individual microphone control and individual delegate identification
- Can be used as a dual delegate unit
- Built-in dual channel selectors (operable only when earphone is inserted)
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: 14.4 hours when microphone is continuously on; 48 hours when microphone is off

HCS-5301D_G/80.....Digital IR Wireless Delegate Unit (discussion, 1+7 CHs, 2 channel selectors, dual predefined position, cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio, charcoal gray, excl. battery, stem microphone to be ordered separately)

Controls and Indicators

- Two graphic 64×48 LCDs with back-lighting for channel number, language name, battery capacity and signal icon
- Built-in two channel selectors consist of up/down channel select keys and 2-digit channel indicator display
- Charging indicator
- Fully charged indicator
- Power switch
- Two headphone volume control buttons
- Two microphone On/Off buttons with indicator

Interconnections

- 5PIN socket for pluggable microphone
- 2 × Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW

Interface data

Connector.....2 x Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours
 When mic. is off.....Approx. 48 hours

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d).....73 x 184 x 134 mm
 Weight
 Excl. battery.....0.5 kg
 Incl. battery.....0.8 kg
 ColorCharcoal gray (PANTONE Cool Gray 11C)

HCS-5302C/80 **Wireless Chairman Unit**



Features

- **Table, stylish and ergonomic design**
- **Wireless unit, easy setup and removal**
- **Hi-Fi loudspeaker**
- **Priority button**
- **System controls up to 1000 contribution units**
- **Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor**
- **Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed**
- **Excellent immunity to RF interference from HF-driven lighting and mobile phones**
- **Microphone sensitivity and EQ individually adjustable**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. Similar in appearance and function to HCS-5302D Delegate Unit, the HCS-5302C Chairman Unit includes an extra microphone priority button. When pressed, the priority button causes all currently active microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven light and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Graphic 64x48 LCD with back-lighting for displaying battery capacity and signal icon
- Charging indicator
- Fully charged indicator
- Power switch
- Headphone volume control button
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Headphone connection

Frequency response..... 50 Hz to 20 kHz

Headphone load impedance $\geq 16 \text{ Ohm}$

Headphone output 10 mW

Interface data

Connector	Ø 3.5 mm stereo jack for headphone
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Operation time of battery pack

When mic. is continuously on _____ Approx. 14.4 hours

When mic. is off _____ Approx. 48 hours

Mechanical

Mounting Tabletop

Dimensions (h x w x d) 73 x 184 x 134 mm

Weight

Excl. battery.....0.5 kg

Incl. battery.....0.8 kg

Color Silver (PANTONE 428C) / Charcoal
gray (PANTONE Cool Gray 11C)

HCS-5302C_S/80	Digital IR Wireless Chairman Unit (discussion, silver, excl. battery, stem microphone to be ordered separately)
HCS-5302C_G/80	Digital IR Wireless Chairman Unit (discussion, charcoal gray, excl. battery, stem microphone to be ordered separately)

HCS-5302D/80 Wireless Delegate Unit



Features

- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable

This wireless delegate unit meets the basic demands of most conferences. It provides facilities for speaking and listening and has excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback, for enhanced intelligibility.

Separate rechargeable Lithium battery packs can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.

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
- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Excellent immunity to RF interference from HF-driven light and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Automatic video tracking, when cooperating with camera and video switcher unit
- Cooperate with HCS-5300BAT rechargeable Lithium battery operation duration: 14.4 hours when microphone is continuously on; 48 hours when microphone is off

Controls and Indicators

- Graphic 64x48 LCD with back-lighting for displaying battery capacity, signal icon and emission angle icon
- Charging indicator
- Fully charged indicator
- Power switch
- Headphone volume control button
- Microphone On/Off button with indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Headphone connection

Frequency response.....50 Hz to 20 kHz

Headphone load impedance ≥16 Ohm

Headphone output..... 10 mW

Interface data

Connector.....Ø 3.5 mm stereo jack for headphone

Operation time of battery pack

When mic. is continuously on.....Approx. 14.4 hours

When mic. is off _____ Approx. 48 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.) 73 x 184 x 134 mm

Weight

Excl. battery.....0.5 kg

Incl. battery.....0.8 kg

ColorSilver (PANTONE 428C) / Charcoal
gray (PANTONE Cool Gray 11C)

HCS-5302D_S/80.....	Digital IR Wireless Delegate Unit (discussion, silver, excl. battery, stem microphone to be ordered separately)
HCS-5302D_G/80.....	Digital IR Wireless Delegate Unit (discussion, charcoal gray, excl. battery, stem microphone to be ordered separately)

Conference Units Function list

Type No.	Status	Discussion	Sign-in	Voting	Simultaneous interpretation
HCS-5300CE/80	chairman	√	√	√	1+7 CHs
HCS-5300DE/80	delegate	√	√	√	1+7 CHs
HCS-5301D/80	delegate	√			(1+7 CHs)×2
HCS-5302C/80	chairman	√			
HCS-5302D/80	delegate	√			

HCS-5380CVS_S Wireless Chairman Unit with Voting and Channel Selection



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Channel selector (operable only when earphone is inserted)
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- In combination with the corresponding software, multiform voting can be implemented:
 - ◆ Parliamentary: YES/NO/ABSTAIN
 - ◆ Questionnaire: 1/2/3
 - ◆ Audience response: -/0/+
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset

- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Built-in rechargeable lithium battery operation duration in good IR single environment:
When Mic on: approx. 12 hours
When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Channel select keys
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Three voting keys
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm

Modulation method.....DQPSK

Carrier frequency:

Transmission.....Audio Channel 1: 4.3 MHz
.....Audio Channel 2: 4.8 MHz
.....Audio Channel 3: 5.8 MHz
.....Audio Channel 4: 6.3 MHz
.....Control Channel: 3.8 MHz

Reception.....Floor audio + interpretation audio (0-3)
.....+ Control signal: 2.333 MHz
.....Interpretation audio (4-7)
.....+ Control signal: 1.666 MHz

Reception/emission angle.....vertical: 125°, horizontal: 120°

Frequency response.....50 Hz to 20 kHz

Mic. gain adjustable rang.....-12 dB ~ +12 dB

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Operation time of battery.....When Mic on: approx. 12 hours;
.....When Mic off: approx. 40 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.).....75 x 143 x 138 mm

Weight.....0.9 kg

Color.....Champagne (PANTONE 427C)

Ordering Information

HCS-5380CVS_S.....Digital IR Wireless Chairman Unit (discussion, voting, 1+7 CHs, can achieve 8 CHs simultaneous audio when used with HCS-5100Plus series,, champagne panel + black base, with battery, stem microphone to be ordered separately)

HCS-5380DVS_S

Wireless Delegate Unit with Voting and Channel Selection



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Transmitting up to 1+7 CHs high quality digital audio signals
- Cooperates with HCS-5100Plus series can achieve 8 CHs simultaneous audio
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Channel selector (operable only when earphone is inserted)
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- In combination with the corresponding software, multiform voting can be implemented:
 - ◆ Parliamentary: YES/NO/ABSTAIN
 - ◆ Questionnaire: 1/2/3
 - ◆ Audience response: -/0/+
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Channel select keys
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Three voting keys
- Microphone On/Off button with indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength 870 nm

Modulation method	DQPSK
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Carrier frequency:

Transmission Audio Channel 1: 4.3 MHz

Audio Channel 2: 4.8 MHz

Audio Channel 3: 5.8 MHz

Audio Channel 4: 6.3 MHz

Control Channel: 3.8 MHz

Reception Floor audio + interpretation audio (0-3)

+ Control signal: 2.333 MHz

..... Interpretation audio (4-7)

+ Control signal: 1.666 MHz

Reception/emission angle.....vertical: 125°, horizontal: 120°

Frequency response..... 50 Hz to 20 kHz

Mic. gain adjustable range.....-12 dB ~ +12 dB

Headphone load impedance..... $\geq 16 \text{ Ohm}$

Headphone output 10 mW

Operation time of battery.....When Mic on: approx. 12 hours;
When Mic off: approx. 40 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.) 75 x 143 x 138 mm

Weight 0.9 kg

Color Champagne (PANTONE 427C)

Ordering Information

HCS-5380DVS_S.....Digital IR Wireless Delegate Unit
(discussion, voting, 1+7 CHs, can
achieve 8 CHs simultaneous
audio when used with
HCS-5100Plus series,
champagne panel + black base,
with battery, stem microphone to
be ordered separately)

HCS-5380C_S **Wireless Chairman Unit**



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength..... 870 nm

Modulation method	DQPSK
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Carrier frequency:

Transmission Audio Channel 1: 4.3 MHz

Audio Channel 2: 4.8 MHz

Audio Channel 3: 5.8 MHz

Audio Channel 4: 6.3 MHz

Control Channel: 3.8 MHz

Reception Floor audio + Control signal: 2.333 MHz

Reception/emission angle.....vertical: 125° , horizontal: 120°

Frequency response..... 50 Hz to 20 kHz

Mic. gain adjustable range.....-12 dB ~ +12 dB

Headphone load impedance..... $\geq 16 \text{ Ohm}$

Headphone output 10 mW

Operation time of battery.....When Mic on: approx. 12 hours;

When Mic off: approx. 40 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) 75 x 143 x 138 mm

Weight 0.9 kg

Color.....Champagne (PANTONE 427C)

Ordering Information

HCS-5380C_S.....Digital IR Wireless Chairman Unit
(discussion, champagne panel +
black base, with battery, stem
microphone to be ordered
separately)

HCS-5380D_S Wireless Delegate Unit



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
 Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm

Modulation method.....DQPSK

Carrier frequency:

Transmission.....Audio Channel 1: 4.3 MHz

.....Audio Channel 2: 4.8 MHz

.....Audio Channel 3: 5.8 MHz

.....Audio Channel 4: 6.3 MHz

.....Control Channel: 3.8 MHz

Reception.....Floor audio + Control signal: 2.333 MHz

Reception/emission angle.....vertical: 125° , horizontal: 120°

Frequency response.....50 Hz to 20 kHz

Mic. gain adjustable range.....-12 dB ~ +12 dB

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Operation time of battery.....When Mic on: approx. 12 hours;

When Mic off: approx. 40 hours

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d)75 x 143 x 138 mm

Weight.....0.9 kg

Color.....Champagne (PANTONE 427C)

Ordering Information

HCS-5380D_S.....Digital IR Wireless Delegate Unit
 (discussion, champagne panel +
 black base, with battery, stem
 microphone to be ordered
 separately)

Conference Units Function list

Type No.	Status	Discussion	Voting	Simultaneous interpretation
HCS-5380CVS_S	chairman	√	√	1+7 CHs
HCS-5380DVS_S	delegate	√	√	1+7 CHs
HCS-5380C_S	chairman	√		
HCS-5380D_S	delegate	√		

HCS-5381RC_G Wireless Chairman Unit



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ♦ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ♦ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Uni-directional electret condenser microphone with two-color illuminated ring

- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface

HCS-5381RC_G.....Digital IR Wireless Chairman Unit
(rectangular columnar metal
microphone, discussion, charcoal
gray, with battery)

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm

Modulation method.....DQPSK

Carrier frequency:

Transmission.....Audio Channel 1: 4.3 MHz
.....Audio Channel 2: 4.8 MHz
.....Audio Channel 3: 5.8 MHz
.....Audio Channel 4: 6.3 MHz
.....Control Channel: 3.8 MHz

Reception.....Floor audio + Control signal: 2.333 MHz

Reception/emission angle.....vertical: 125° , horizontal: 120°

Frequency response.....50 Hz to 20 kHz

Mic. gain adjustable range.....-12 dB ~ +12 dB

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Operation time of battery.....When Mic on: approx. 12 hours;
.....When Mic off: approx. 40 hours
(Sufficient IR signal)

Microphone

Transducer.....Ø14mm gold-plated electret-condenser

Polar pattern.....Hypercardioid uni-directional

Sensitivity.....-37 dB (0dB=1V/Pa)

Frequency response.....20 Hz to 20 kHz

Directionality 0°/135°.....≥ 20 dB (@1 kHz)

Directionality 0°/180°.....≥ 15 dB (@1 kHz)

Equivalent noise.....20 dBA

Maximum sound pressure level.....139 dB@1kHz, THD<3%

SNR.....74 dBA

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.).....75 x 143 x 138 mm

Weight1.2 kg

Color.....Charcoal gray (PANTONE Cool Gray 11C)

HCS-5381RD_G Wireless Delegate Unit



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Graphic 128x36 OLED for displaying channel number, language name, battery capacity and speaker volume
- Uni-directional electret condenser microphone with two-color illuminated ring
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
 Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm

Modulation method.....DQPSK

Carrier frequency.....1~8 MHz

Reception/emission angle.....vertical: 125° , horizontal: 120°

Frequency response.....50 Hz to 20 kHz

Mic. gain adjustable range.....-12 dB ~ +12 dB

Headphone load impedance.....≥16 Ohm

Headphone output.....10 mW

Operation time of battery.....When Mic on: approx. 12 hours;

When Mic off: approx. 40 hours

(Sufficient IR signal)

Microphone

Transducer.....Ø14mm gold-plated electret-condenser

Polar pattern.....Hypercardioid uni-directional

Sensitivity.....-37 dB (0dB=1V/Pa)

Frequency response.....20 Hz to 20 kHz

Directionality 0°/135°.....≥ 20 dB (@1 kHz)

Directionality 0°/180°.....≥ 15 dB (@1 kHz)

Equivalent noise.....20 dBA

Maximum sound pressure level.....139 dB@1kHz, THD<3%

SNR.....74 dBA

Mechanical

Mounting.....Tabletop

Dimensions (h x w x d) (w/o Mic.).....75 x 143 x 138 mm

Weight1.2 kg

Color.....Charcoal gray (PANTONE Cool Gray 11C)

Ordering Information

HCS-5381RD_G.....Digital IR Wireless Delegate Unit
 (rectangular columnar metal
 microphone, discussion, charcoal
 gray, with battery)

HCS-5381C_G Wireless Chairman Unit



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Activatable at any time provided that the total number of active microphones (including the active microphone of the chairman) is within the maximum of 4 active microphones allowed by the system
- Priority button to switch off or to mute the speaking units according to preset
- System supports up to 20 chairman units, while only 1 chairman unit has the control facilities listed above
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
 Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm
 Modulation method.....DQPSK
 Carrier frequency:
 Transmission.....Audio Channel 1: 4.3 MHz
 Audio Channel 2: 4.8 MHz
 Audio Channel 3: 5.8 MHz
 Audio Channel 4: 6.3 MHz
 Control Channel: 3.8 MHz
 Reception.....Floor audio + Control signal: 2.333 MHz
 Reception/emission angle.....vertical: 125°, horizontal: 120°
 Frequency response.....50 Hz to 20 kHz
 Mic. gain adjustable range.....-12 dB ~ +12 dB
 Microphone high/bass adjustable range.....-15 dB ~ +15 dB
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW
 Operation time of battery.....When Mic on: approx. 12 hours;
 When Mic off: approx. 40 hours
 (Sufficient IR signal)

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d)75 x 144 x 138 mm
 Weight (w/o Mic.).....0.9 kg
 Color.....Charcoal gray (PANTONE Charcoal gray 425 C)

Ordering Information

HCS-5381C_G.....Digital IR Wireless Chairman Unit
 (discussion, charcoal gray, with
 battery, stem microphone to be
 ordered separately)

HCS-5381D_G **Wireless Delegate Unit**



Features

- 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
- Table, stylish and ergonomic design
- Wireless unit, easy setup and removal
- Hi-Fi loudspeaker
- Priority button
- System controls up to 1000 contribution units
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Microphone sensitivity and EQ individually adjustable
- Built-in rechargeable Lithium battery

Functions

- System controls up to 1000 contribution units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID forever
- Broadcast standard microphone and digital infrared audio processing and transmitting technologies ensure 50 Hz to 20 kHz perfect sound quality, extremely low distortion factor
- Digital infrared transmission technology guarantees privacy, no worries about eavesdropping and radio interference, no radiation, no radio frequency license needed
- Adopts 1~8 MHz transmission frequency, excellent immunity to RF interference from HF-driven lighting and mobile phones
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback
- Ø 3.5 mm stereo headphone jack for headphone with controllable volume
- Microphone On/Off button
- Microphone sensitivity and EQ individually adjustable
- System implements the following facilities when operated in stand-alone mode:
 - ◆ "ACTIVE MICS", set the number of delegates permitted to speak at the same time (1/2/3/4)
 - ◆ "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
- System supports "Request" mode when connected to computer. The delegate unit will enter into application state by pressing the speech button, and can speak after approval. If it does not reach the Mic. active limit, the chairman/VIP unit microphone can be turned on directly
- Key-press sign-in
- Automatic video tracking, when cooperating with camera and video switcher unit
- Built-in rechargeable lithium battery operation duration in good IR single environment:
 - When Mic on: approx. 12 hours
 - When Mic off: approx. 40 hours

Controls and Indicators

- Uni-directional electret condenser microphone with two-color illuminated ring
- Charging indicator
- Fully charged indicator
- Headphone volume control button
- Microphone On/Off button with indicator

Interconnections

- 5PIN socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Power adapter interface

Technical Specifications

Electrical

Power.....built-in 3.7 V/5200 mAh rechargeable Lithium battery
 Power supply by TES-ADP5V adapter (5 V, 2 A)

IR transceiver

Wavelength.....870 nm
 Modulation method.....DQPSK
 Carrier frequency:
 Transmission.....Audio Channel 1: 4.3 MHz
 Audio Channel 2: 4.8 MHz
 Audio Channel 3: 5.8 MHz
 Audio Channel 4: 6.3 MHz
 Control Channel: 3.8 MHz
 Reception.....Floor audio + Control signal: 2.333 MHz
 Reception/emission angle.....vertical: 125°, horizontal: 120°
 Frequency response.....50 Hz to 20 kHz
 Mic. gain adjustable range.....-12 dB ~ +12 dB
 Microphone high/bass adjustable range.....-15 dB ~ +15 dB
 Headphone load impedance.....≥16 Ohm
 Headphone output.....10 mW
 Operation time of battery.....When Mic on: approx. 12 hours;
 When Mic off: approx. 40 hours
 (Sufficient IR signal)

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d)75 x 144 x 138 mm
 Weight (w/o Mic.).....0.9 kg
 Color.....Charcoal gray (PANTONE Charcoal gray 425 C)

Ordering Information

HCS-5381D_G.....Digital IR Wireless Delegate Unit
 (discussion, charcoal gray, with
 battery, stem microphone to be
 ordered separately)

HCS-5381 series Conference Units Function list

Type No.	Status	Discussion	Voting	Simultaneous interpretation
HCS-5381RC	chairman	√		
HCS-5381RD	delegate	√		
HCS-5381C	chairman	√		
HCS-5381D	delegate	√		

HCS-5300TD/80 Digital Infrared Transceiver



Ceiling-mounting



Wall-mounting



Tripod-mounting

Features

- Compliant with ISO 22259
- Infrared transmitting carrier frequency conforms to IEC 61603-7, DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band, eliminating the interference from HF-driven lights
- Tripod, wall or ceiling mounting, easy to install
- Inside the coverage area of infrared signals, also HCS-5100R /F digital infrared receivers can be in operation simultaneously to receive (1+7 CHs) simultaneous interpretation

HCS-5300TD/80 digital infrared transceiver manages communication between main unit and conference units. It can be mounted onto the ceiling and wall for optional coverage or fixed onto a tripod at any appropriate spot.

Indicators

- Power indicating light

Interconnections

- Equipped with a 2.0 m specific cable with 6P-DIN male plug. For extension purposes, 6P-DIN extension cable can be used.

Technical Specifications

Electrical

Wavelength.....870 nm
 Modulation method.....DQPSK
 Carrier frequency.....1~8 MHz
 Voltage.....33 V DC (supplied from HCS-5300M)
 Current consumption.....Max. 410 mA
 Connector.....6P-DIN
 Cable.....2.0 m specific cable with 6P-DIN male plug

Mechanical

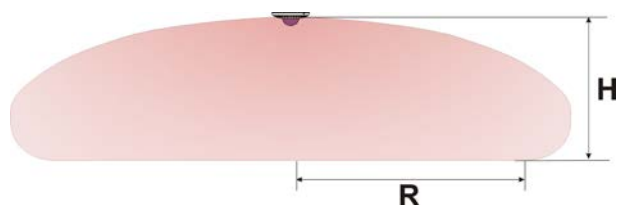
Mounting.....Ceiling, wall or tripod mounting
 Dimensions.....Ø 181 mm, 63 mm (height)
 Weight.....0.5 kg
 Color.....Silver (PANTONE Cool Gray 6 C) /
 White (PANTONE Cool Gray 1 C)

Ordering Information

HCS-5300TD_S/80.....Digital Infrared Transceiver (ceiling, wall or tripod-mounted, excl. tripod when ordered, suitable for ceiling height less than 6 m, silver)

HCS-5300TD_W/80.....Digital Infrared Transceiver (ceiling, wall or tripod-mounted, excl. tripod when ordered, suitable for ceiling height less than 6 m, white)

Cutaway view of coverage area of HCS-5300TD/80 Digital Infrared Transceiver



Coverage area of HCS-5300TD/80 Digital Infrared Transceiver

Type No.	Mounting	Coverage area
HCS-5300TD_S/80 HCS-5300TD_W/80	2.5 ~ 3.0 m	13 m
	3.5 ~ 4.5 m	11 m
	5.0 ~ 7.0 m	9 m

* Note: The above coverage area is the scenario of a single transceiver connected to the system. Please install according to the venue and the environment. The suggested interval distance between the transceivers is 6 ~ 8 meters.

HCS-5300TH/80 Digital Infrared Transceiver



Features

- Compliant with ISO 22259
- Infrared transmitting carrier frequency conforms to IEC 61603-7, DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band, eliminating the interference from HF-driven lights
- Tripod, wall or ceiling mounting, easy to install
- Inside the coverage area of infrared signals, also HCS-5100R /F digital infrared receivers can be in operation simultaneously to receive (1+7 CHs) simultaneous interpretation

HCS-5300TH/80 digital infrared transceiver manages communication between main unit and conference units. It can be mounted onto the ceiling and wall for optional coverage or fixed onto a tripod at any appropriate spot.

Indicators

- Power indicating light

Interconnections

- Equipped with a 2.0 m specific cable with 6P-DIN male plug. For extension purposes, 6P-DIN extension cable can be used.

Technical Specifications

Electrical

Wavelength.....870 nm
Modulation method.....DQPSK
Carrier frequency.....1~8 MHz
Voltage.....33 V DC (supplied from HCS-5300M)
Current consumption.....Max. 380 mA
Connector.....6P-DIN
Cable.....2.0 m specific cable with 6P-DIN male plug

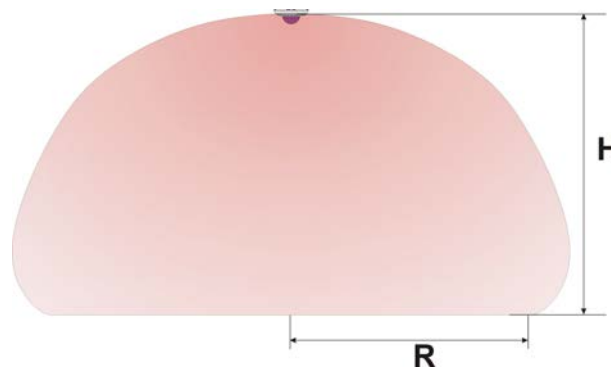
Mechanical

Mounting.....Ceiling, wall or tripod mounting
Dimensions.....Ø 160 mm, 65 mm (height)
Weight.....0.6 kg
Color.....Silver (PANTONE Cool Gray 6 C) /
Charcoal gray (PANTONE 426 C) /
White (PANTONE Cool Gray 1 C)

Ordering Information

HCS-5300TH_S/80.....Digital Infrared Transceiver (ceiling, wall or tripod-mounted, excl. tripod when ordered, suitable for ceiling height higher than 6 m, powered from HCS-5300M or adapter, silver)
HCS-5300TH_G/80.....Digital Infrared Transceiver (ceiling, wall or tripod-mounted, ceiling height higher than 6 m, powered from HCS-5300M or adapter, excl. tripod when ordered, charcoal gray)
HCS-5300TH_W/80.....Digital Infrared Transceiver (ceiling, wall or tripod-mounted, excl. tripod when ordered, suitable for ceiling height higher than 6 m, powered from HCS-5300M or adapter, white)

Cutaway view of coverage area of HCS-5300TH/80 Digital Infrared Transceiver



Coverage area of HCS-5300TH/80 Digital Infrared Transceiver

Type No.	Mounting height (H)	Coverage area radius (R)
HCS-5300TH_S/80	6 m	9 m
HCS-5300TH_G/80	9 m	11 m
HCS-5300TH_W/80	12 m	9 m

* Note: The above coverage area is the scenario of a single transceiver connected to the system. Please install according to the venue and the environment. The suggested interval distance between the transceivers is 6 ~ 8 meters.

HCS-5300TWN/80

Digital Infrared Transceiver



Features

- Compliant with ISO 22259
- Infrared transmitting carrier frequency conforms to IEC 61603-7, DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band, eliminating the interference from HF-driven lights
- The intensity of the infrared emitters on the width and depth can be stepped through two dip switches
- Wall or tripod-mounted, easy to install
- Inside the coverage area of infrared signals, also HCS-5100R /F digital infrared receivers can be in operation simultaneously to receive (1+7 CHs) simultaneous interpretation

HCS-5300TWN/80 digital infrared transceiver manages communication between main unit and conference units. It can be mounted onto the wall at appropriate height.

Indicators

- Power indicating light

Interconnections

- Equipped with a 2.0 m specific cable with 6P-DIN male plug. For extension purposes, 6P-DIN extension cable can be used.

Technical Specifications

Electrical

Wavelength.....870 nm
Modulation method.....DQPSK
Carrier frequency.....1~8 MHz
Current consumption.....Max. 650 mA (powered from main unit)
.....Max. 800 mA (powered from adapter)
Cable.....2.0 m specific cable with 6P-DIN male plug

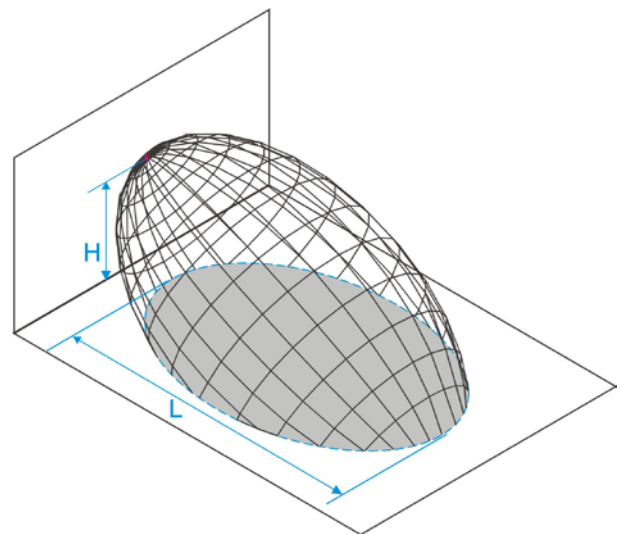
Mechanical

Mounting.....Wall or tripod mounting
Dimensions(h×w×d).....114 × 323 × 34 mm
Weight.....0.9 kg
Color.....Black (PANTONE 419)

Ordering Information

HCS-5300TWN_B/80.....Digital Infrared Transceiver
(wall or tripod-mounted,
powered from HCS-5300M or
adapter, black)

Footprint of HCS-5300TWN/80 digital infrared transceiver



Coverage area of HCS-5300TWN/80 Digital Infrared Transceiver

Type No.	Mounting height (H)	Coverage area Length (L)
HCS-5300TWN/80	under 5 m	15 m

* Note: The above coverage area is the scenario of a single transceiver connected to the system. Please install according to the venue and the environment. The suggested interval distance between the transceivers is 6~10 meters.

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



Features

- Based on TAIDEN originated 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: 50 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
- Booth borrow function can be realized when cooperating with HCS-8600MIO Audio Input & Output Device and HCS-8685M Booth Manager.
- 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, multiform voting can be implemented:
 - ◆ For/Against (requires firmware version 5.00.03.04 or higher).
 - ◆ 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 terminal	6P-DIN socket x 6
Max. Quantity of transceivers.....	10 HCS-5300TD/80
	or 10 HCS-5300TH/80
	or 8 HCS-5300TWN/80
External control terminal.....	RS232 D-sub (9P, male), USB
	interface, RJ45 (ETHERNET,
	Dante)
Interpreter unit / DCS terminal.....	6P-DIN socket x 1
HF OUT (Radiator terminal).....	BNC connector x 1
Alarm terminal	3.81 mm Phoenix connectors, 2-pole
Video switcher terminal	3.81 mm Phoenix connectors, 4-pole

Mechanical

Dimensions (h x w x d).....88x480x418 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 Wired Congress Unit
and HCS-8385N Interpreter Unit,
Dante interface)

Technical Specifications

Electrical

Frequency response	50 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
THD at 1 kHz	≤0.05%
Isolation	≥80 dB
Power supply	100 V - 240 V AC, 50/60 Hz
Power consumption	30 W
Max. consumption	500 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) RCAx8.....+10 dBu, UNBAL.

System Connection

[Wired/wireless discussion + digital simultaneous interpretation (1+7 CHs)+ voting + video tracking+ central control]

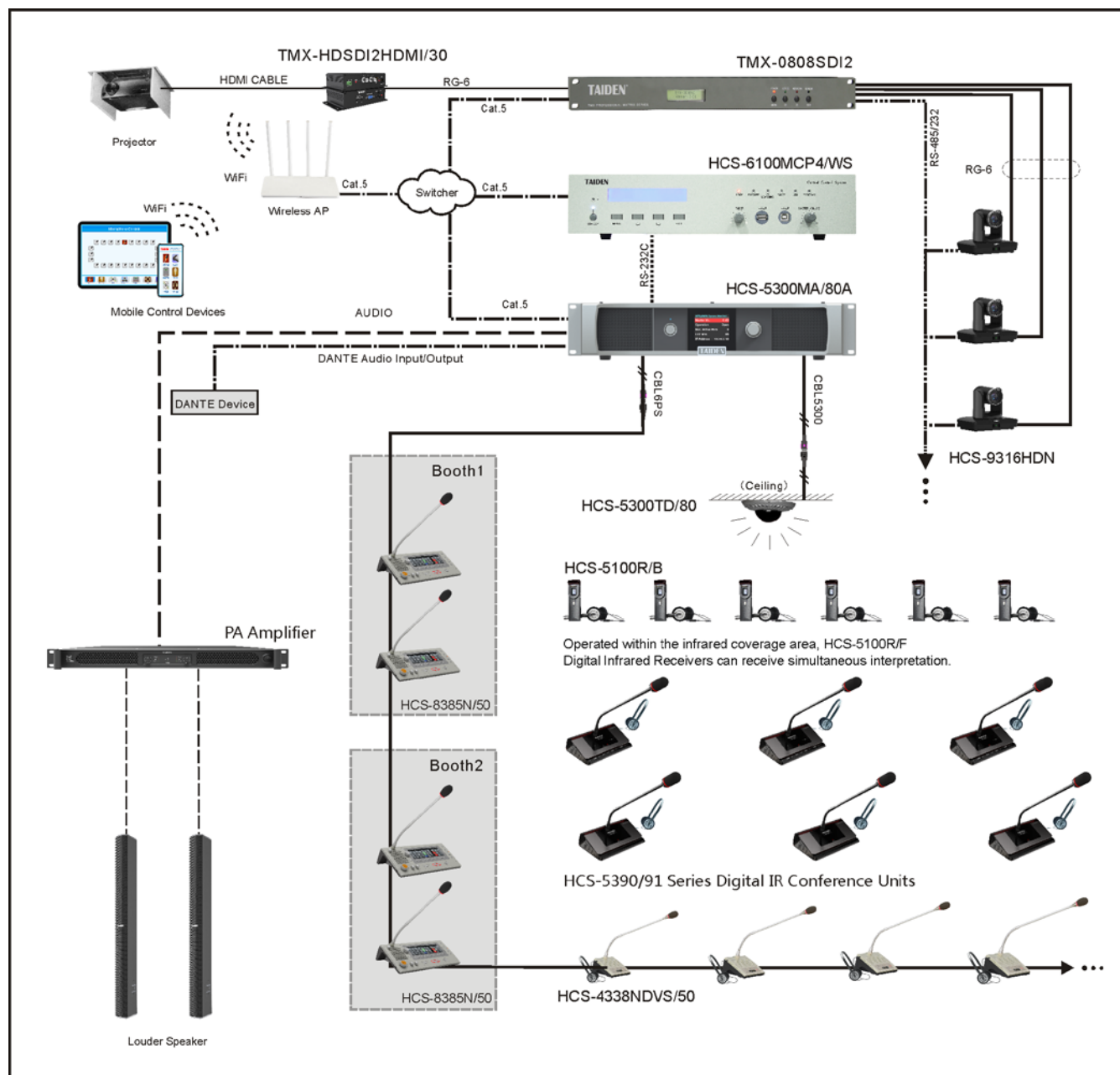


Table: Maximum number of connections of wired units

Connection	Model	Extended cable length between the first wired conference unit and the main unit			
		20 m	40 m	60 m	80 m
HCS-5300MA/80A + 10pcs HCS-5300TD/80 (extension via HCS-5352)	HCS-4338N/50	30 pcs	28 pcs	26 pcs	20 pcs
	HCS-8385N	21 pcs	17 pcs	13 pcs	10 pcs

Table: Maximum number of transceivers connected to the system

Model	HCS-5300TD/80	HCS-5300TH/80	HCS-5300TWN/80
HCS-5300MA/80A	10 pcs	10 pcs	8 pcs

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



Features

- Based on TAIDEN originated 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

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 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: 50 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
- 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 (RCAx2) 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 (RCAx2) for connection to external audio devices
- 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

Ordering Information

HCS-5300MB/80A.....Digital IR Wireless Conference System
Main Unit (discussion, 1+7 CHs, with
interface for HCS-4100/50 wired congress
unit and HCS-8385N Interpreter Unit)

Technical Specifications

Electrical

Frequency response.....50 Hz to 20 kHz
SNR.....≥90dBA
Dynamic range.....≥90 dB
THD at 1 kHz.....≤0.05%
Isolation.....≥80 dB
Power supply.....100 V - 240 V AC, 50/60 Hz
Power consumption.....30 W
Max. consumption.....500 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 terminal6P-DIN socket × 6
Max. Quantity of transceivers.....10 HCS-5300TD/80
or 10 HCS-5300TH/80
or 8 HCS-5300TWN/80
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 terminal3.81 mm Phoenix connectors, 2-pole
Video switcher terminal3.81 mm Phoenix connectors, 4-pole

Mechanical

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

System Connection

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

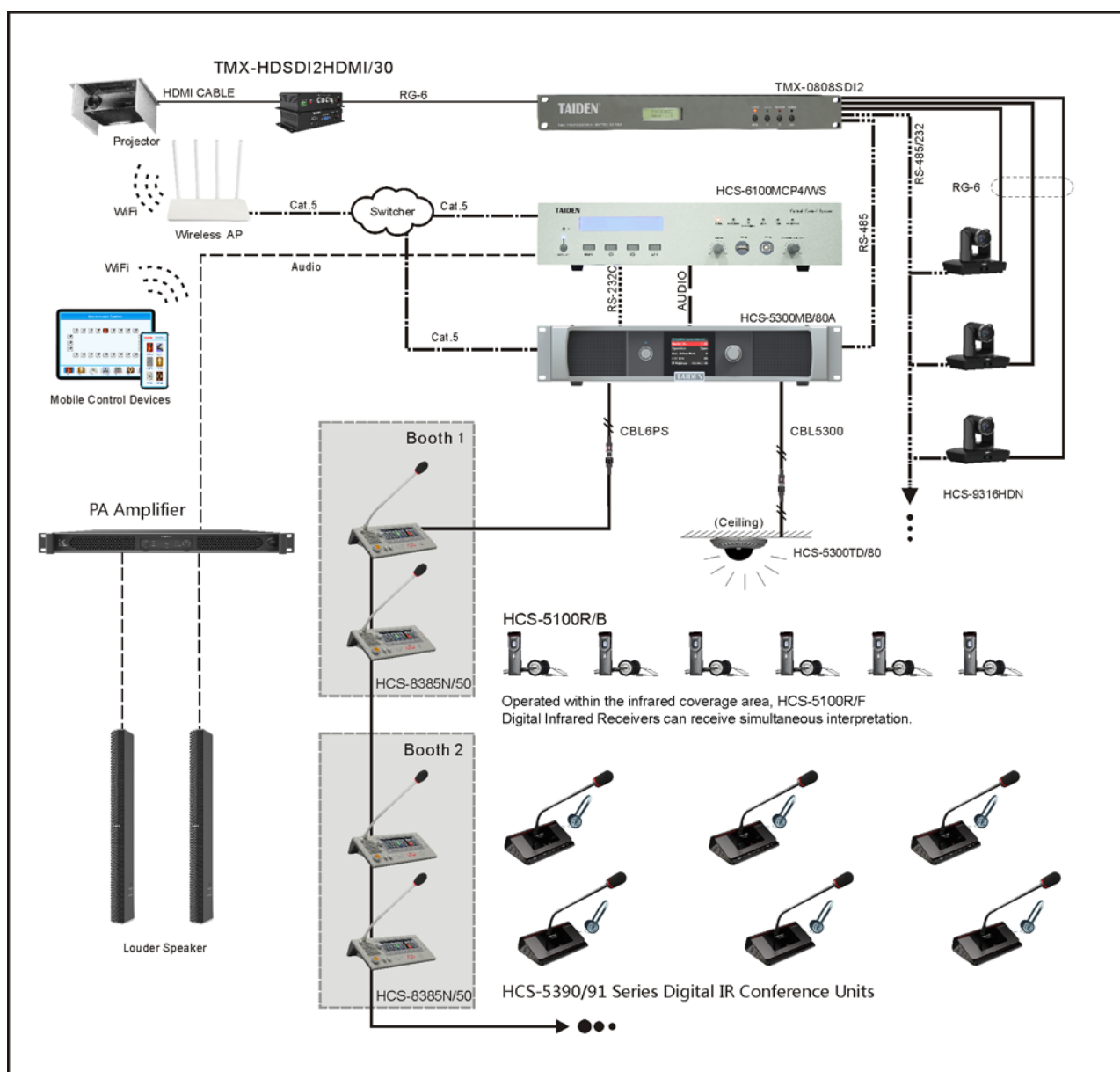


Table: Maximum number of connections of wired units

Connection	Model	Extended cable length between the first wired conference unit and the main unit			
		20 m	40 m	60 m	80 m
HCS-5300MB/80A + 10pcs HCS-5300TD/80 (extension via HCS-5352)	HCS-4338N/50	30 pcs	28 pcs	26 pcs	20 pcs
	HCS-8385N	21 pcs	17 pcs	13 pcs	10 pcs

Table: Maximum number of transceivers connected to the system

Model	HCS-5300TD/80	HCS-5300TH/80	HCS-5300TWN/80
HCS-5300MB/80A	10 pcs	10 pcs	8 pcs

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



Features

- Based on TAIDEN originated 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 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: 50 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
- 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
- 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 (RCAx2) for floor audio line out
 - ◆ Balanced LINE IN 1 interface (XLR-F) and unbalanced LINE IN 2 interfaces (RCAx2) for connection to external audio devices
- 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 8 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

Technical Specifications

Electrical

Frequency response.....50 Hz to 20 kHz
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.....25 W
Max. consumption.....200 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.

Interface data

Transceivers I/O terminal6P-DIN socket × 6,
Max. Quantity of transceivers.....8 HCS-5300TD/80
or 8 HCS-5300TH/80
or 6 HCS-5300TWN/80
External control terminal.....RS232 D-sub (9P, male), USB
interface, RJ45 (ETHERNET)
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

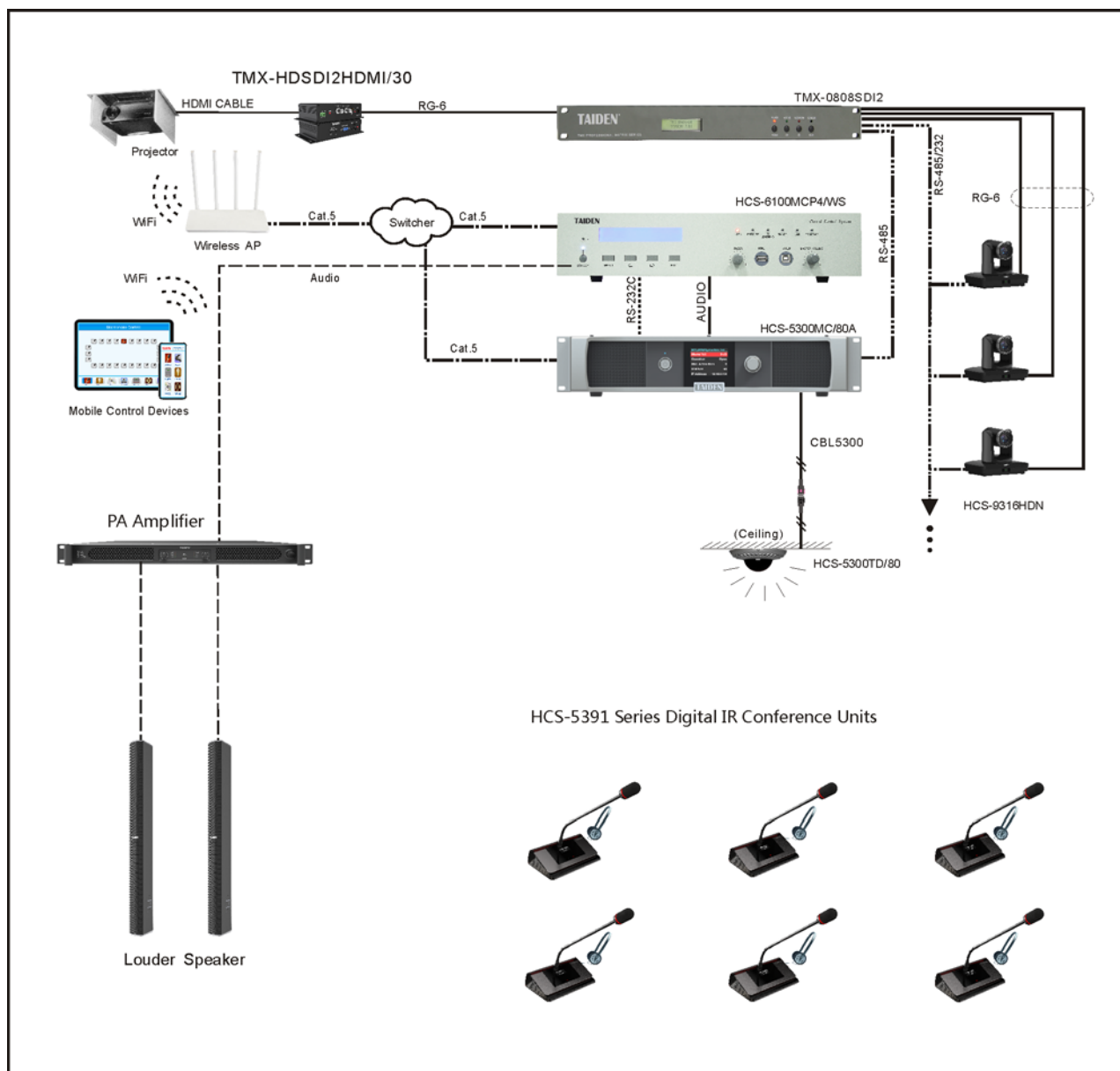
Dimensions (h x w x d).....88×480×418 mm
Weight.....9.3 kg
Color.....Dark grey (PANTONE 431 C)

Ordering Information

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

System Connection

[Wireless discussion + video tracking + central control]



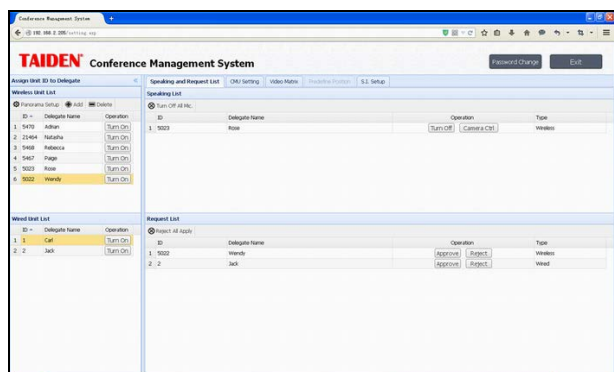
Function list

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

Maximum number of transceivers connected to the system

Model	HCS-5300TD/80	HCS-5300TH/80	HCS-5300TWN/80
HCS-5300MA/80A	10 pcs	10 pcs	8 pcs
HCS-5300MB/80A	10 pcs	10 pcs	8 pcs
HCS-5300MC/80A	8 pcs	8 pcs	6 pcs

HCS-5300WS Web Control Software



HCS-5300WS Web control software is comprehensive, reliable and user-friendly. But it is also an easy care software system which helps the operator to manage the conference efficiently from the very beginning of a meeting until the post-meeting work. With the HCS-5300M main unit installed HCS-5300WS Web control software, operator can access the IP address of main unit from web browser to handle meeting management.

HCS-5300WS Web control software is modularized software with various functional modules:

■ CMU setting

- ◆ Operation mode: Open/Override/Voice/Apply;
- ◆ Active Microphones: 1/2/3/4;
- ◆ Volume adjusting

■ Microphone control

- ◆ Assign unit ID to delegate: list all ID of connective units in the system. User can assign them to delegates, open microphones, set up the camera predefined position, etc.
- ◆ Speaking and request list: displays the information of the active and requested microphones, includes Mic. ID, delegate name, camera control and unit type

■ Video tracking

- ◆ Video matrix: set input/output channels for computer, camera and other video apparatus according to the connections between video equipment and video switch unit. The configuration can be sent to the main unit for synchronization
- ◆ Video switch: switch among different input and output video signals according to the video matrix
- ◆ Camera preset: cooperating with microphone management software to set and adjust the camera preset for each seat/microphone and to transmit speaker's video picture simultaneously to a hall display
- ◆ Camera control: preset the panorama of the conference venue

■ S.I. setup

- ◆ S.I. channel: set the channel number and language for each channel
- ◆ Booth: set the booth number and language for each booth

Ordering Information

HCS-5300WS.....Web Control Software (CMU setting, microphone control, video matrix, S.I. setting)

HCS-5300MX Digital IR Conference Room Switcher



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 10 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)

- 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

Technical Specifications

Electrical

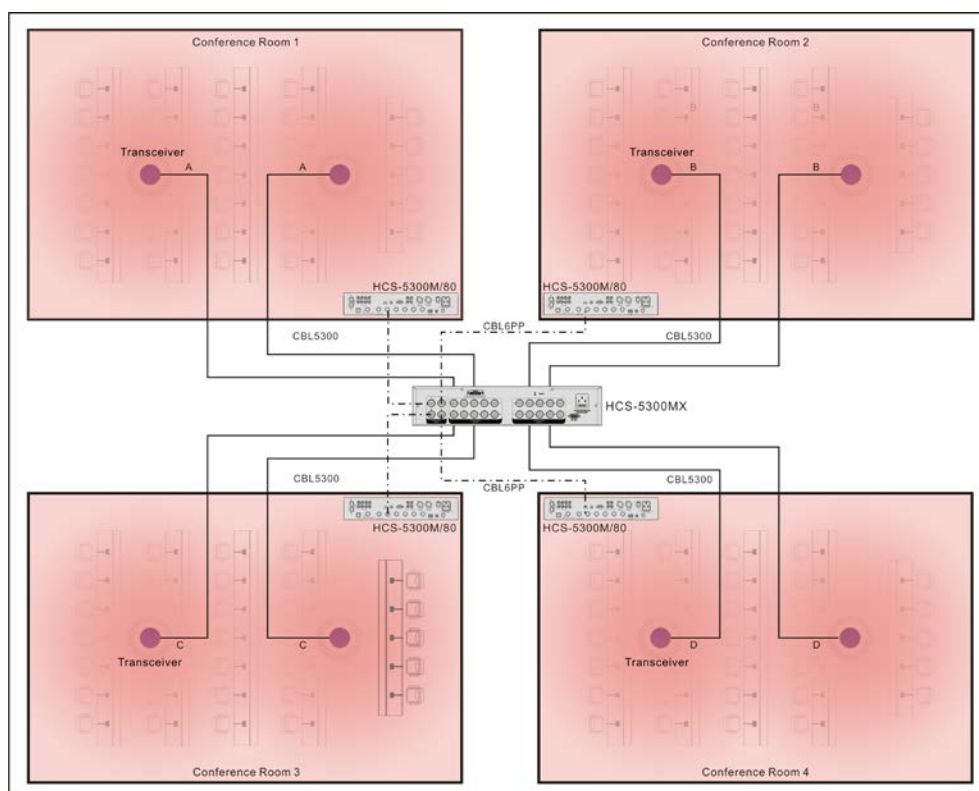
Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption.....15 W
Max. consumption.....430 W

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



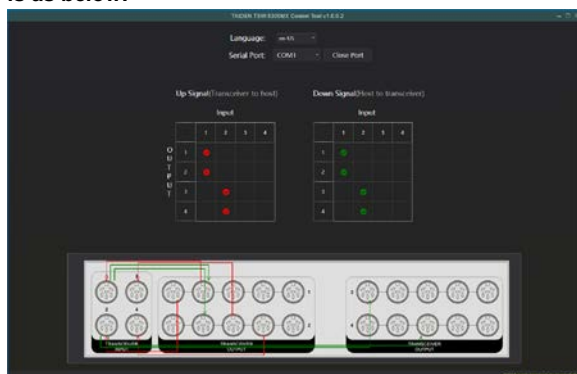
HCS-5300MX/20

Digital IR Conference Room Switcher



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/20 can be connected to 20 HCS-5300TD/80, HCS-5300TH/80 or 15 HCS-5300TWN/80 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
- TSW-5300MX Switcher Tool is used to switch the input and output channels of the up signals (Transceivers to host) and down signals (Host to transceivers) of HCS-5300MX/20 conference room switcher. The interface is as below:



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)
- 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 or TSW-5300MX Switcher Tool

Technical Specifications

Electrical

Power supply	AC 100 V - 240 V 50Hz/60 Hz
Power consumption	15 W
Max. consumption	500 W

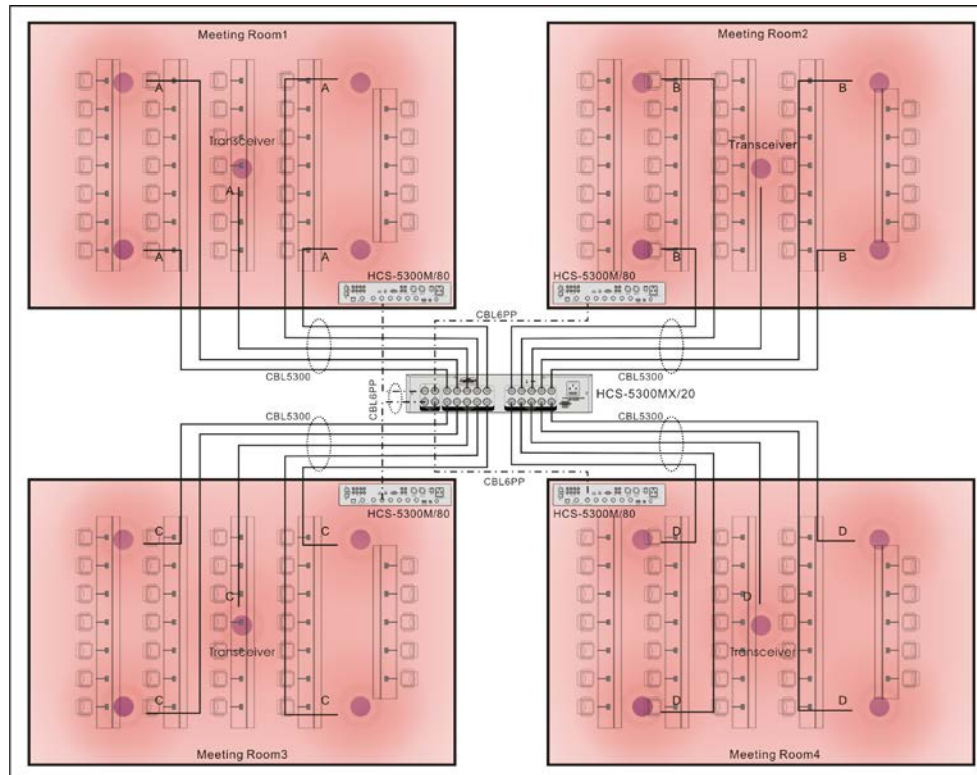
Mechanical

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/20.....Digital IR Conference Room Switcher

System Connection for combining or separating meeting rooms via HCS-5300MX/20



HCS-5300BAT Lithium Rechargeable Battery Pack



Features

- Lithium rechargeable battery pack
- Used for supplying power to HCS-5300 / HCS-5301 / HCS-5302 / HCS-5390 / HCS-5391 series digital infrared wireless conference unit

Technical Specifications

Electrical

Nominal voltage.....10.95 V DC
Nominal capacity.....4400 mAh

Mechanical

Dimensions (h x w x d).....28 x 140 x 58 mm
Weight.....0.3 kg
Color.....Black

Ordering Information

HCS-5300BAT.....Lithium Rechargeable Battery Pack
(10.95 V DC, for HCS-5300/ HCS-5301/
HCS-5302 /HCS-5390/ HCS-5391 series
digital infrared wireless conference unit)

HCS-5380BAT Lithium Rechargeable Battery Pack



Features

- Lithium rechargeable battery pack
- Used for supplying power to HCS-5380 / HCS-5381 series digital infrared wireless conference unit

Technical Specifications

Electrical

Nominal voltage.....3.7 V DC
Nominal capacity.....5200 mAh

Mechanical

Dimensions (h x w x d).....14 x 67 x 37 mm
Weight.....93g
Color.....Blue

Ordering Information

HCS-5380BAT.....Lithium Rechargeable Battery Pack
(3.7 V DC, for HCS-5380/HCS-5381
series conference unit)

HCS-5390CHG Charging Unit



Features

- Used for charging HCS-5390 / HCS-5391 series conference unit and HCS-5300BAT Lithium batteries
- Charges 6 pcs of HCS-5390 / HCS-5391 series conference unit and 2 pcs of HCS-5300BAT Lithium batteries per charging
- Charging status of conference unit displays through the OLED screen of the conference units
- Charging status of Lithium battery displays through LED charging indicators

Controls and Indicators

- 1 power switch
- Lithium battery LED charging indicators
 - ◆ 1 charging indicator + 1 full-charged indicator for each battery slot
 - ◆ Display charging status of HCS-5300BAT lithium battery
 - ◆ Display power status

Technical Specifications

Electrical

Power supply.....AC 100 V- 240 V, 50 Hz/60 Hz
Power consumption.....Max. 200 W
Charging time.....Approx 3.5 hours
Charging capacity.....6 HCS-5390/HCS-5391 units
+ 2 HCS-5300BAT

Mechanical

Dimensions (h×w×d) (including feet)..... 622 × 455 × 48 mm
Weight.....4.9 kg
Color.....black

Ordering Information

HCS-5390CHG.....Charging Unit (6 pcs/case, for HCS-5390
/ HCS-5391 series conference unit + 2
pcs/case, for HCS-5300BAT)

HCS-5300CHG/08 Charging Unit



Features

- Used for charging HCS-5300BAT Lithium batteries
- Charges 8 pcs of HCS-5300BAT batteries per charging
- Uses universal power supply with automatic voltage matching

Controls and Indicators

- Power switch
- Charging indicator (red)
- Fully charged indicator or battery not inserted (green)

Interconnections

- Power output interface
- Power input interface
- Charging lattices

Technical Specifications

Electrical

Power supply.....AC 100 V -240 V 50 Hz/60 Hz
Power consumption.....Max. 200 W
Charging time.....Approx 4 hours
Charging capacity.....8 HCS-5300BAT batteries

Mechanical

Dimensions (h x w x d).....74 x 288 x 300 mm
Weight.....4.5 kg
Color.....White

Ordering Information

HCS-5300CHG/08.....Charging Unit (8 pcs/case,
for HCS-5300BAT)

HCS-5300CHG/06 Charging Unit



Features

- Used for charging HCS-5380 series, HCS-5381C/D, and HCS-5381RC/RD conference unit
- Charges 6 pcs of HCS-5380 series, HCS-5381C/D, and HCS-5381RC/RD conference units per charging
- Power supply: 9 VDC, 6 A adapter

Controls and Indicators

- Charging indicator
- Power indicator

Technical Specifications

Electrical

Power supply.....9 VDC, 6 A adapter
 Power consumption.....Max. 50 W
 Charging time.....Approx 4 hours
 Charging capacity.....6 HCS-5381/5381R units

Mechanical

Dimensions (h x w x d).....21 × 448 × 316 mm
 Weight.....0.4 kg
 Color.....Black

Ordering Information

HCS-5300CHG/06.....Charging Unit (6 pcs/case, for HCS-5380 series, HCS-5381C/D, HCS-5381RC/RD conference unit)

HCS-5300CHG/06A Charging Unit



Features

- Used for charging HCS-5380 series, HCS-5381C/D conference unit
- Charges 6 pcs of HCS-5380 series, HCS-5381C/D conference units per charging
- Power supply: 9 VDC, 6 A adapter

Controls and Indicators

- Charging indicator
- Power indicator

Technical Specifications

Electrical

Power supply.....9 VDC, 6 A adapter
 Power consumption.....Max. 50 W
 Charging time.....Approx 4 hours
 Charging capacity.....6 HCS-5381 units

Mechanical

Dimensions (h×w×d).....21 × 448 × 316 mm
 Weight.....0.4 kg
 Color.....Black

Ordering Information

HCS-5300CHG/06A.....Charging Unit (6 pcs/case, for HCS-5380 series, HCS-5381C/D conference unit)

HCS-5352 1×4 Cable Splitter



Features

- Has one in and four out structure
- Each main unit has 6 digital infrared transceiver interfaces, each interface can connect 4 transceivers if operating distributor HCS-5352

Interconnections

- 4 × 6P-DIN sockets
- 2 m cable with 6P-DIN plug

Technical Specifications

Electrical

Voltage.....33 V DC (supplied from HCS-5300M)
Number of I/O terminals.....1 in / 4 out

Mechanical

Dimensions (h x w x d).....35 × 149 × 90 mm
Weight.....0.32 kg
Color.....Black

Ordering Information

HCS-5352.....Cable Splitter (1 input & 4 outputs,
for HCS-5300T series)

HCS-5300TZJ2 Transceiver Stand



Technical Specifications

Mechanical

Mounting.....Floor-type
Height.....1.1 m ~ 2.7 m, adjustable
Weight.....3.9 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5300TZJ2.....Transceiver Stand (for HCS-5300TD/
HCS-5300TH)

System Connection

