HCS-5100MA/FS/04N
4 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MA/FS/04N accepts and modulates up to 4 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/FS/04N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 4 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 4 channels**
  - **Mono, perfect quality, maximum 2 channels**
  - **Stereo, standard quality, maximum 2 channels**
  - **Stereo, perfect quality, maximum 1 channel**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 8 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **With optical fiber interface, DCS interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly, moreover, with 4 interpretation output channels for recording**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 4 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 4 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4385U/50 Interpreter Unit or HCS-8300M/HCS-4100M Congress Main Unit
- Duplex SC single-mode optical fiber interface and DCS interface (RJ45 standard socket) for connecting to HCS-8300M/HCS-4100M Congress Main Unit
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8 MHz
Frequency response	20 Hz to 10 kHz (-3dB) at standard quality; 20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz	<0.05%
Isolation	>80 dB
Dynamic range	>80 dB
Weighted SNR	>80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MA/FS/04N	4 CHs Digital Infrared Transmitter (compatible with HCS-4385U/50 or HCS-4100M/HCS-8300M, single-mode optical fiber interface)

HCS-5100MA/FS/08N
8 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MA/FS/08N accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/FS/08N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 8 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 8 channels**
  - **Mono, perfect quality, maximum 4 channels**
  - **Stereo, standard quality, maximum 4 channels**
  - **Stereo, perfect quality, maximum 2 channels**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 16 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **With optical fiber interface, DCS interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly, moreover, with 8 interpretation output channels for recording**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4385U/50 Interpreter Unit or HCS-8300M/HCS-4100M Congress Main Unit
- Duplex SC single-mode optical fiber interface and DCS interface (RJ45 standard socket) for connecting to HCS-8300M/HCS-4100M Congress Main Unit
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8 MHz
Frequency response	20 Hz to 10 kHz (-3dB) at standard quality; 20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz	<0.05%
Isolation	>80 dB
Dynamic range	>80 dB
Weighted SNR	>80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

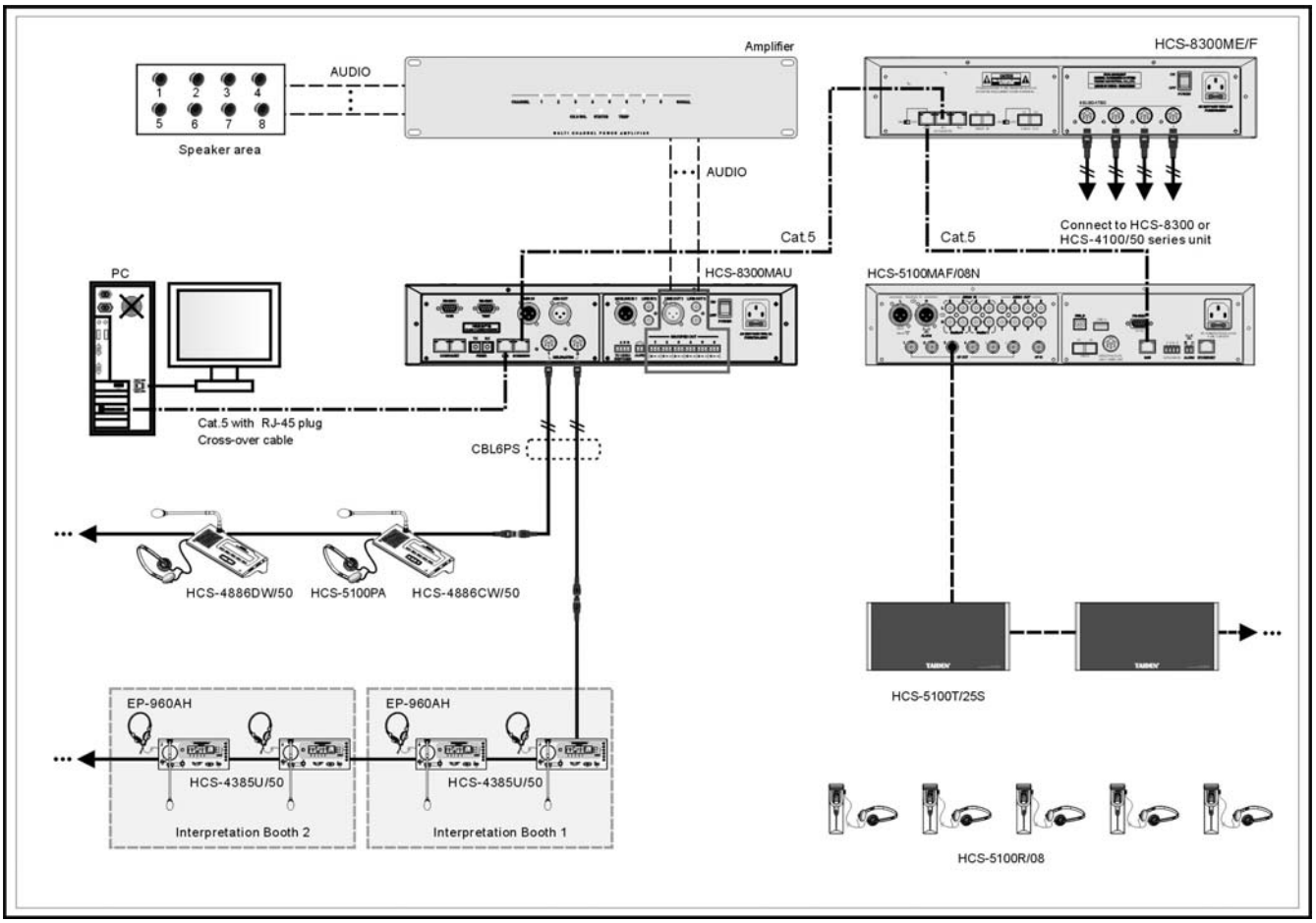
Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MA/FS/08N	8 CHs Digital Infrared Transmitter (compatible with HCS-4385U/50 or HCS-4100M/HCS-8300M, single-mode optical fiber interface)

System Connection



HCS-5100MA/04N
4 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MA/04N accepts and modulates up to 4 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/04N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 4 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 4 channels**
  - **Mono, perfect quality, maximum 2 channels**
  - **Stereo, standard quality, maximum 2 channels**
  - **Stereo, perfect quality, maximum 1 channel**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 8 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **With DCS interfaces and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly, moreover, with 4 interpretation output channels for recording**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 4 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 4 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4385U/50 Interpreter Unit or HCS-8300M/HCS-4100M Congress Main Unit
- DCS interfaces (RJ45 standard sockets) for connecting to HCS-8300M/HCS-4100M Congress Main Unit
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8 MHz
Frequency response	20 Hz to 10 kHz (-3dB) at standard quality; 20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz	<0.05%
Isolation	>80 dB
Dynamic range	>80 dB
Weighted SNR	>80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MA/04N	4 CHs Digital Infrared Transmitter (compatible with HCS-4385U/50 or HCS-4100M/HCS-8300M)

HCS-5100MA/08N
8 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MA/08N accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/08N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 8 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 8 channels**
  - **Mono, perfect quality, maximum 4 channels**
  - **Stereo, standard quality, maximum 4 channels**
  - **Stereo, perfect quality, maximum 2 channels**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 16 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **With DCS interfaces and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly, moreover, with 8 interpretation output channels for recording**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4385U/50 Interpreter Unit or HCS-8300M/HCS-4100M Congress Main Unit
- DCS interfaces (RJ45 standard sockets) for connecting to HCS-8300M/HCS-4100M Congress Main Unit
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8 MHz
Frequency response	20 Hz to 10 kHz (-3dB) at standard quality; 20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz	<0.05%
Isolation	>80 dB
Dynamic range	>80 dB
Weighted SNR	>80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MA/08N	8 CHs Digital Infrared Transmitter (compatible with HCS-4385U/50 or HCS-4100M/HCS-8300M)

HCS-5100MC/04N
4 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MC/04N accepts and modulates up to 4 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/04N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 4 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 4 channels**
  - **Mono, perfect quality, maximum 2 channels**
  - **Stereo, standard quality, maximum 2 channels**
  - **Stereo, perfect quality, maximum 1 channel**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 8 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 4 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8 MHz
Frequency response	20 Hz to 10 kHz (-3dB) at standard quality; 20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz	<0.05%
Isolation	>80 dB
Dynamic range	>80 dB
Weighted SNR	>80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MC/04N	4 CHs Digital Infrared Transmitter

HCS-5100MC/08N
8 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MC/08N accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit through HCS-8300MO series audio output device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/08N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 8 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 8 channels**
  - **Mono, perfect quality, maximum 4 channels**
  - **Stereo, standard quality, maximum 4 channels**
  - **Stereo, perfect quality, maximum 2 channels**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 16 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation ..... DQPSK, according to IEC 61603-7
Modulation frequency
  Carriers 0 to 5 ..... 2 to 6 MHz, according to IEC 61603-7
  Carriers 6 and 7 ..... up to 8 MHz
Frequency response ..... 20 Hz to 10 kHz (-3dB) at standard quality;
  20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz ..... <0.05%
Isolation ..... >80 dB
Dynamic range ..... >80 dB
Weighted SNR ..... >80 dBA
Input range ..... -12 dBV ~ +12 dBV (adjustable)

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

Mechanical

Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MC/08N	8 CHs Digital Infrared Transmitter

HCS-5100MC/16N
16 CHs Digital Infrared Transmitter

The transmitter is the heart of the HCS-5100 system. HCS-5100MC/16N accepts and modulates up to 32 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit and HCS-4100M/50 congress main unit through HCS-8300MO series audio output device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/16N is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7**
- **DQPSK digital modulation/demodulation technology**
- **Capable of distributing a maximum of 16 audio channels**
- **Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls**
- **Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues**
- **Transmitting in 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Each audio channel can be assigned a language name for easy identification**
- **Flexible configuration of channels and channel quality modes:**
  - **Mono, standard quality, maximum 16 channels**
  - **Mono, perfect quality, maximum 8 channels**
  - **Stereo, standard quality, maximum 8 channels**
  - **Stereo, perfect quality, maximum 4 channels**
- **Adjustable sensitivity for each input to enable fine tuning of audio levels**
- **Automatic synchronization to the number of channels in use by the system**
- **"Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used**
- **Combination mode: two N channel IR transmitters can be combined to form a 2N channel system, at most 32 channels**
- **During adjournment, music mode can be used to feed music to all channels**
- **Independent test facility: self-generates diverse frequencies for system debugging**
- **Built-in infrared emitters in transmitter for audio monitoring in operating room**
- **Universal mains power facility allows worldwide use**

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Power switch
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 16 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 2 × USB interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Extension interface
- Power supply socket

Technical Specifications

System Specifications

Modulation ..... DQPSK, according to IEC 61603-7
Modulation frequency
  Carriers 0 to 5 ..... 2 to 6 MHz, according to IEC 61603-7
  Carriers 6 and 7 ..... up to 8 MHz
Frequency response ..... 20 Hz to 10 kHz (-3dB) at standard quality;
20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz ..... <0.05%
Isolation ..... >80 dB
Dynamic range ..... >80 dB
Weighted SNR ..... >80 dBA

Electrical

Unbalanced audio inputs	-12 dBV to +12 dBV nominal
Balanced audio inputs	-6 dBV to +18 dBV nominal
Emergency switch connector	Emergency control input
Headphone output	32 Ohm to 2 kOhm
HF input	Nominal 1 Vpp, minimum 10 mVpp, 75 Ohm
HF output	1 Vpp, 6 V DC, 75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	Maximum 55 W

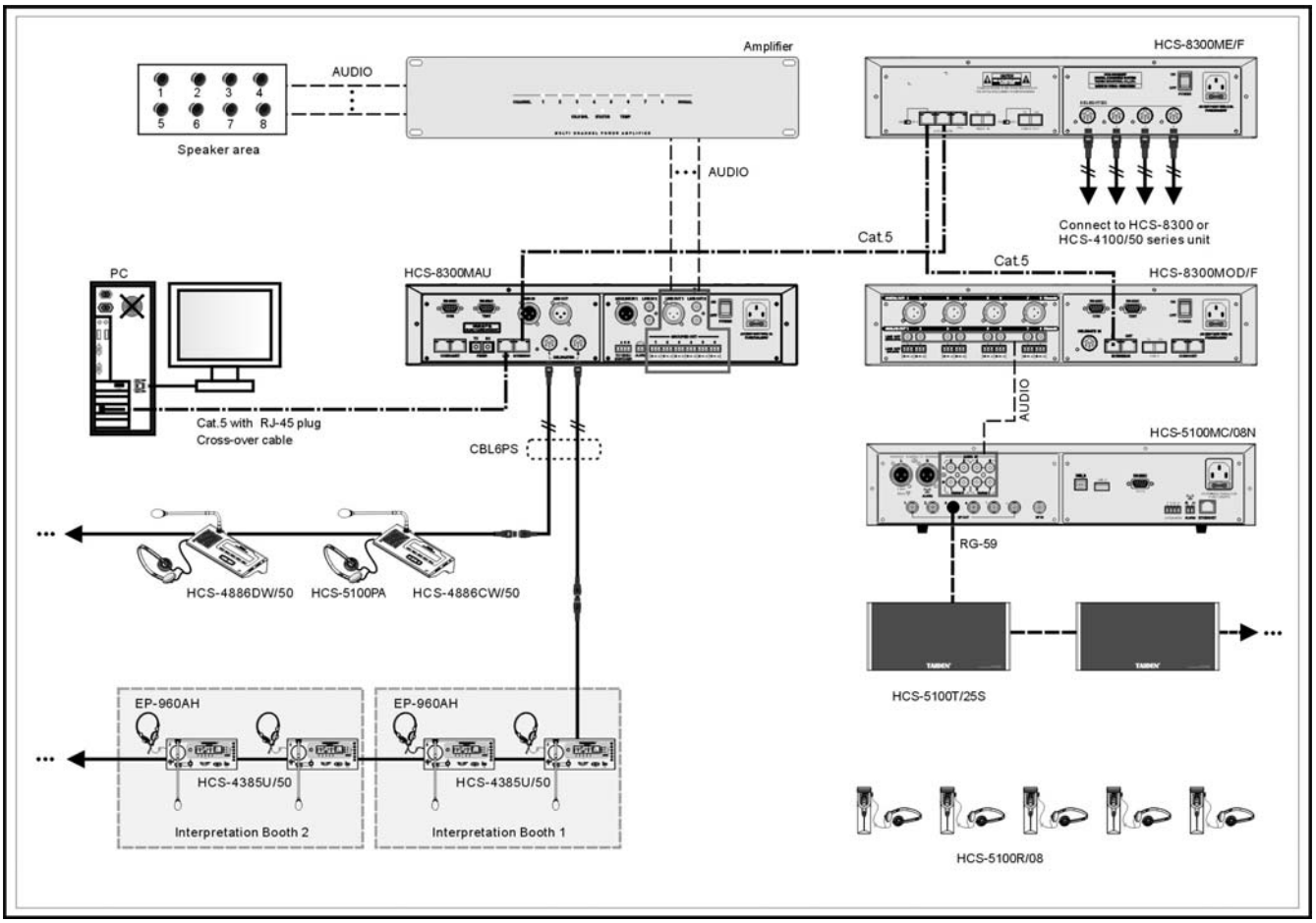
Mechanical

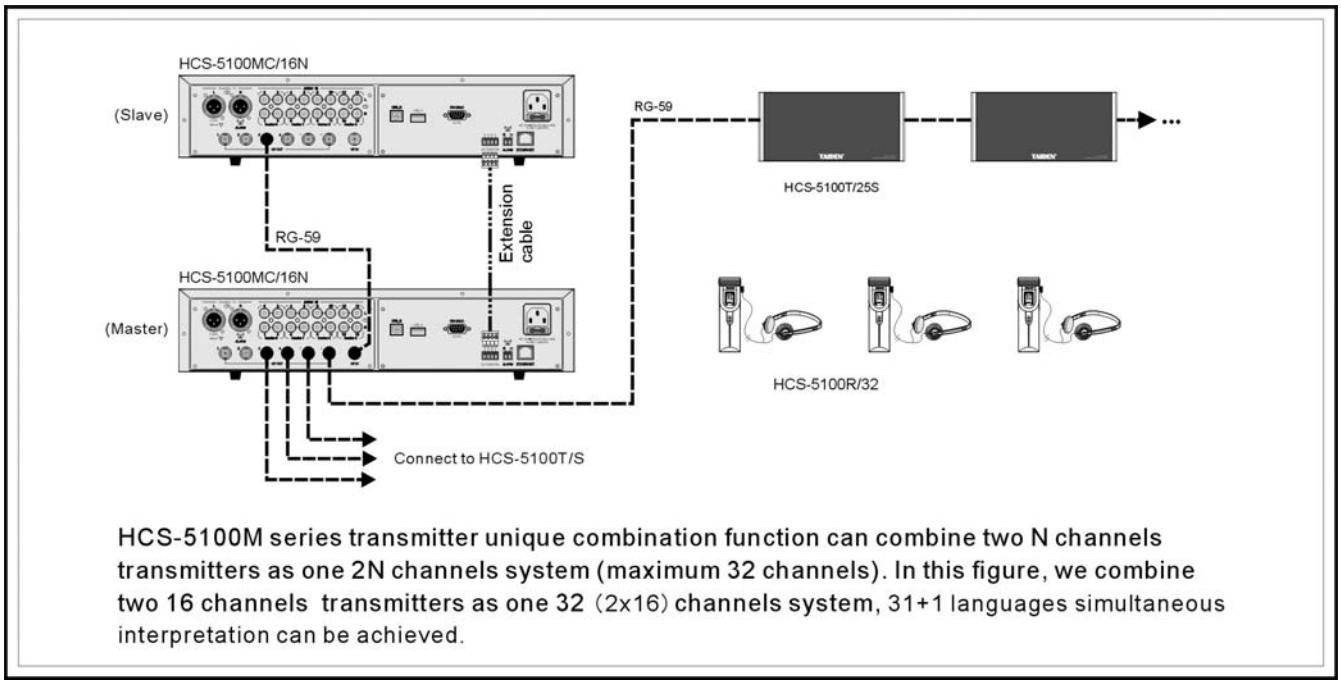
Mounting	Brackets for 19″ rack mounting or fixing to a table top; detachable feet for free-standing use on a table top
Dimensions h x w x d (mm)	99 × 430 × 325
Weight	7.5 kg
Color	White (PANTONE 420 C)

Ordering Information

HCS-5100MC/16N	16 CHs Digital Infrared Transmitter

System Connection





HCS-5100M series transmitter unique combination function can combine two N channels transmitters as one 2N channels system (maximum 32 channels). In this figure, we combine two 16 channels transmitters as one 32 (2x16) channels system, 31+1 languages simultaneous interpretation can be achieved.