

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



Features

- Compliant with ISO 22259
- 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 1~8 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 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- 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
- 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
- With 8 interpretation output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/FS/08A 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/08A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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 Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- Duplex SC single-mode optical fiber interface and DCS interface (2 × RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface 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
- Power supply socket

HCS-5100MA/FS/16A 16 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- 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 1~8 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 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- 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
- 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
- With 16 interpretation output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/FS/16A accepts and modulates up to 16 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/16A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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 output connectors (RCA sockets) for output DCS multi-channel audio
- 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
- 6P-DIN connector for connecting to Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- Duplex SC single-mode optical fiber interface and DCS interface (2 × RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface 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
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency..... 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 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.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 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).....88 x 480 x 418
 Weight.....7 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/FS/16A.....16 CHs Digital Infrared Transmitter
 (compatible with interpreter unit or
 HCS-4100M/HCS-8300M,
 single-mode optical fiber interface)

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



Features

- Compliant with ISO 22259
- 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 1~8 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, support levels indicating of audio input
- 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
- During adjournment, play 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 interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly
- With 4 interpretation output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/04A 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/04A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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 Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface 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
- Power supply socket

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



Features

- Compliant with ISO 22259
- 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 1~8 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 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- 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
- During adjournment, play 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 interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly
- With 8 interpretation output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/08A 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/08A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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 Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface 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
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency..... 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 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.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 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).....88 x 480 x 418
 Weight.....6.8 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/08A.....8 CHs Digital Infrared Transmitter
 (compatible with interpreter unit or
 HCS-4100M/HCS-8300M)

HCS-5100MA/16A 16 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- 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 1~8 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 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- 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
- 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 interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly
- With 16 interpretation output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/16A accepts and modulates up to 16 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/16A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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 Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface 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
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency..... 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 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.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

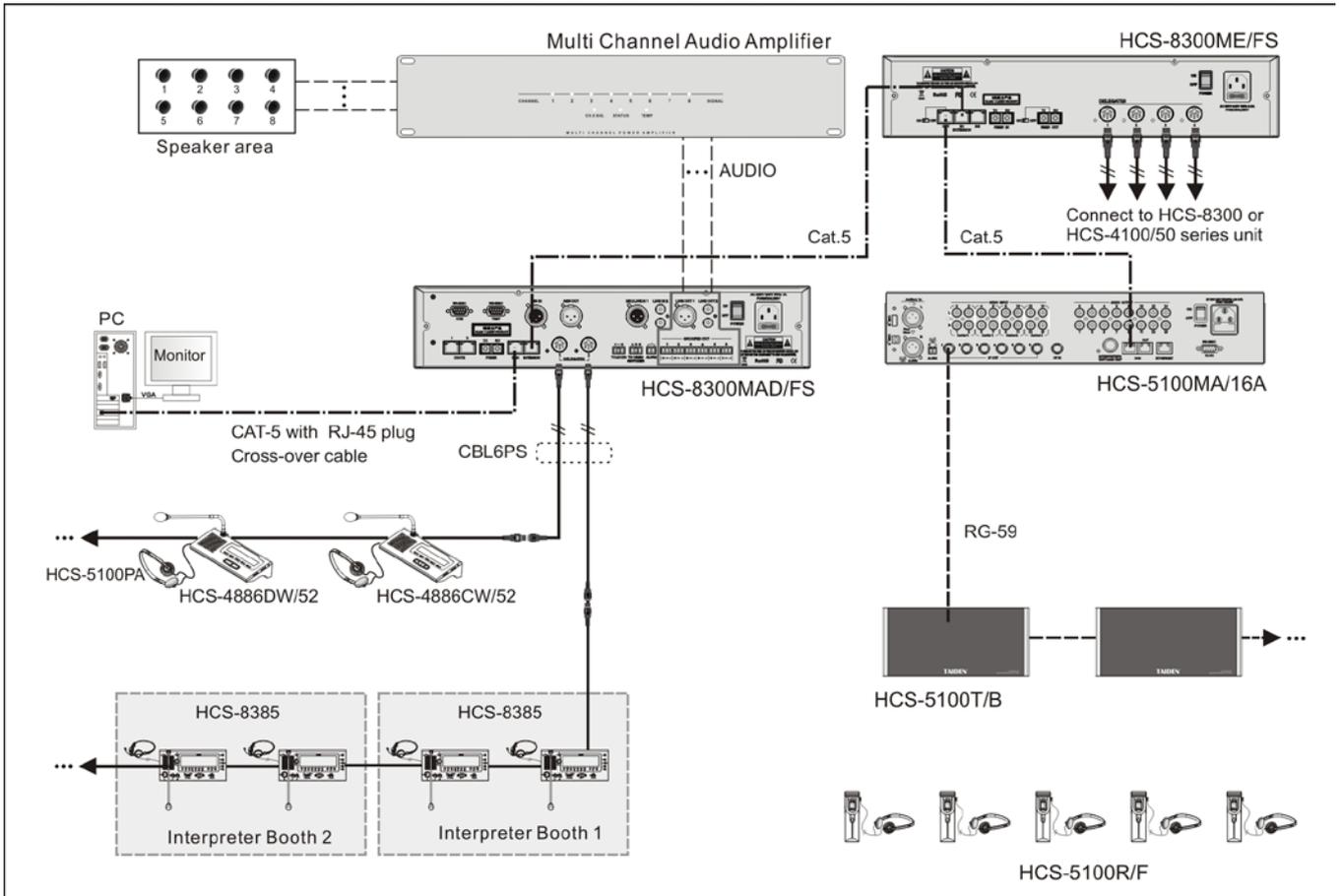
Mechanical

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).....88 x 480 x 418
 Weight.....6.8 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/16A.....16 CHs Digital Infrared Transmitter
 (compatible with interpreter unit or
 HCS-4100M/HCS-8300M)

System Connection



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



Features

- Compliant with ISO 22259
- 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 1~8 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 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
- 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 web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/08AD 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 through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/08AD is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8” LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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
- USB_H 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
- Dante interface for connecting to the Dante network to transmit input and output audio signal
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
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.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 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).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/08AD.....8 CHs Digital Infrared Transmitter
(dante interface)

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



Features

- Compliant with ISO 22259
- 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 1-8 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 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
- 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 web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/16AD accepts and modulates up to 16 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 through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/16AD is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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
- USB_H 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
- Dante interface for connecting to the Dante network to transmit input and output audio signal
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
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.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 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).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/16AD.....16 CHs Digital Infrared
Transmitter (dante interface)

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



Features

- Compliant with ISO 22259
- 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 1~8 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 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
- 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 web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/08A 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 through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/08A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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
- USB_H 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
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
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.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 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).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/08A.....8 CHs Digital Infrared Transmitter

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 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).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/16A.....16 CHs Digital Infrared Transmitter

HCS-5100MC/40A 40 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 40 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 1-8 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 40 channels
 - ◆ Mono, perfect quality, maximum 20 channels
 - ◆ Stereo, standard quality, maximum 20 channels
 - ◆ Stereo, perfect quality, maximum 10 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
- 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 web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/40A accepts and modulates up to 40 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 through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/40A is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- 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
- 40 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
- USB_H 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
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
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.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 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).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/40A.....40 CHs Digital Infrared Transmitter

System Connection

