Digital IR Simultaneous Interpretation System

GONSIN®

IR Transmitter

TC-Z904P/TC-Z908P/TC-Z916P

Functions

- Compliant with IEC 60914, ISO 20109, and ISO 24019 international standards. Supports cross-brand interoperability with infrared simultaneous interpretation systems compliant with IEC 61603-7.
- Utilizes DQPSK digital modulation/demodulation technology, supporting 2–8 MHz high-frequency transmission to effectively eliminate light source interference and ensure stable operation under direct sunlight.
- Features a black tempered glass front panel with a navigation rotary encoder and OLED display, enabling parameter visualization and intuitive menu operation.
- Built-in embedded conference server software supports advanced configuration via a web interface. Language names can be independently assigned to each audio channel for quick identification and efficient management.
- The front panel is equipped with a 3.5 mm stereo headphone jack for channel monitoring. An integrated miniature infrared radiator allows monitoring of receiver audio output for convenient debugging and status verification.
- Provides one front-panel USB port (FAT32-compatible USB storage), supporting manual and automatic recording with real-time recording status display and web-based control. When used with an intelligent speech recognition system, it enables advanced functions such as role-based recording, interpreted audio recording, speech-to-text, and recording translation.
- The number of interpretation channels automatically synchronizes with the channels in actual use, offering 4, 8, or 16 channels. Multi-master mode supports venue combining or 32-channel expansion to accommodate different space and capacity requirements.
- Equipped with six BNC output connectors, supporting connection of up to 30 infrared radiators. A BNC cascade interface is provided to receive HF signals from other transmitter units, enabling transmitter cascading.
- Depending on the model, provides 4, 8, or 16 sets of RCA analog input/output interfaces, supporting multi-language channel modulation to meet multi-channel audio transmission requirements.
- Provides two XLR balanced input interfaces dedicated to original floor audio acquisition, ensuring stable and clear sound quality. Supports direct connection to conference system audio outputs or phantom-powered condenser microphones.
- Includes one fire alarm broadcast audio interface and one fire alarm control interface. Supports integration with fire alarm systems, enabling hard-trigger activation or automatic broadcast switching to seamlessly route alarm audio to interpretation channels. Compliant with GB 50524-2010.
- Supports a music playback mode that automatically outputs background music or test audio to all channels, suitable for use during meeting intervals.
- Supports mono and stereo mode switching. In standard audio quality mode, mono supports up to 16 channels and stereo supports up to 8 channels; in high-quality mode, mono supports up to 8 channels and stereo supports up to 4 channels.
- Provides two network interfaces for connection to conference servers and general network devices, enabling data interaction and communication.
- Provides two terminal interfaces (PS + Ethernet) for connecting interpreter consoles or wireless access point devices, supporting power supply and device expansion to simplify cabling.
- Provides an RS232 third-party control interface, supporting integration with centralized control systems and device linkage for integrated control applications.
- Equipped with AI-powered simultaneous interpretation capabilities, supporting real-time intelligent multilingual translation to enhance meeting efficiency and cross-language communication quality, compliant with ISO/IEC 23773 international standards.

Technical Parameters

Audio Channels	4/8/16 channels, expandable to 32 channels
Audio Frequency Response (including interpretation channels)	20Hz~20KHz
Modulation Method	DQPSK digital modulation and demodulation technology
Modulation Frequency	2~8MHz
Audio Sampling Frequency	44.1KHz
Signal-to-Noise Ratio (SNR)	>96dBA
Channel Separation	>85dB
Dynamic Range	>94dB
Total Harmonic Distortion (THD)	<0.05%
Output Impedance	>1KΩ
HF Input/Output	75Ω
Audio Interfaces (Interfaces vary by model)	RCA input interface: 4/8/16
	RCA output interface: 4/8/16
	XLR input interface: 2
Device Interfaces (Interfaces vary by model)	Terminal interface (RJ45): 2
	Network interface (RJ45): 2
	Recording interface (USB): 1
Control Interfaces (Interfaces vary by model)	Central control interface (RS-232): 1
Fire Alarm Interfaces (Interfaces vary by model)	Fire broadcast audio interface (Phoenix terminal): 1
	Fire broadcast control interface (Phoenix terminal): 1
BNC Interfaces	Output interface: 6;Input interface: 1
Maximum Power Consumption	200W
Power Supply	AC100~240V, 50/60Hz
Dimensions (L × W × H)	483mm×363mm×98mm
Weight	5.51KG
MTBF	≥ 10,000 hours
Domestic Component Localization Rate	100%
Operating Temperature	0~45℃
Storage Temperature	-20~50℃

IR Receiver

TC-J904P/TC-J908P/TC-J916P/TC-J932P

Functions

- Compliant with IEC 60914, ISO 20109, and ISO 24019 international standards. Supports cross-brand interoperability with infrared simultaneous interpretation systems compliant with IEC 61603-7.
- Adopts DQPSK digital modulation/demodulation technology, supporting 2–8 MHz high-frequency transmission to effectively eliminate light source interference and ensure stable operation under direct sunlight.
- Features a streamlined, ergonomic housing design. Supports single- and dual-channel headphone connection with headphone detection; power is automatically cut off when the headphone is disconnected, resulting in zero power consumption.
- Equipped with a large backlit LCD screen that displays channel number, language, battery level, and signal status in real time. Button-based operation allows easy channel selection and volume adjustment.
- The infrared receiving area adopts a 270° ultra-wide-angle design, ensuring excellent audio quality regardless of placement orientation.
- Supports 4 / 8 / 16 / 32 channel selection with automatic working-channel synchronization, matching the actual system channels and automatically hiding inactive channels.
- Built-in embedded receiver software automatically mutes when the signal is weak, receiving only high-quality audio to avoid noise interference. During multi-channel reception, clear audio is maintained without cross-interference.
- Within the effective infrared transmission range, the number of receiving units is unlimited and independent of venue size or system scale. Once powered on, the receiver automatically receives interpretation audio without pairing.
- Built-in rechargeable lithium-ion battery combined with low-power design supports up to 20 hours of continuous operation.(ideal operating conditions)
- Supports test mode for infrared reception performance verification, facilitating device testing and on-site simulation. Screen contrast automatically adjusts according to ambient lighting conditions.

Technical Parameters

Audio Channels	4/8/16/32 (including floor audio)
Modulation Method	DQPSK digital modulation/demodulation technology
Frequency Range	2~8MHz
Maximum System Capacity	Unlimited within signal coverage
Headphone Interface	3.5mm jack
LCD Specifications	34mm×22mm, dot-matrix 96x64
Battery Level Display	Real-time display, low battery alarm
Operating Voltage	2.3V-3.6V
Battery Specifications	3.7V lithium-ion battery
Battery Operating Time	20 hours (ideal operating conditions)
Packaging Method	Aluminum case portable packaging
Dimensions (L × W × H)	159mm×55mm×26mm
Weight	0.12Kg
Operating Temperature	0 ~ 45℃
Storage Temperature	-20 ~ 50℃

IR Radiator

TC-H35P

Functions

- Compliant with IEC 60914, ISO 20109, and ISO 24019 international standards. Supports cross-brand interoperability with infrared simultaneous interpretation systems compliant with IEC 61603-7.
- Adopts DQPSK digital modulation/demodulation technology, supporting 2–8 MHz high-frequency transmission to effectively eliminate light source interference and ensure stable operation under direct sunlight.
- Provides 2 BNC interfaces with daisy-chain connection, supporting connection between the transmitter and downstream radiator panels, featuring automatic gain control and cable delay compensation to ensure convenient system expansion and installation.
- Equipped with status indicators to display standby, operation, protection, and fault states, providing intuitive visual feedback on system operating status and warning information.
- A single unit supports adjustment of up to 32 voice channels, meeting multi-language simultaneous interpretation requirements.
- Supports synchronized power on/off with the main unit and automatically enters standby mode when the signal is disconnected.
- Provides selectable full-power and half-power transmission modes to suit different venue sizes. Built-in thermal protection circuitry automatically switches from full power to half power when overheating occurs and triggers status indicator alerts.
- Supports multiple installation methods, including directional brackets for wall or ceiling mounting and tripod brackets for temporary deployment. All brackets feature locking mechanisms to prevent loosening and support adjustable transmission angles.
- Supports web-based management and visual operation, enabling real-time monitoring and device management. By configuring venue area, radiator panel layout, and angle adjustments, the web interface can simulate infrared coverage to ensure complete signal coverage without blind zones.

Technical Parameters

Modulation Method	DQPSK digital modulation/demodulation technology
Audio Channels	32 (including floor audio)
Frequency Range	2~8MHz
Half-Power Beam Angle	±22°
Transmission Power	Low / High (50% / 100%)
Power Consumption	40W
Transmission Distance	20 m (actual value depends on environment and test method)
Power Supply	AC100~240V 50/60Hz
Weight	3.08KG
Dimensions (L × W × H)	450mm×235mm×95mm
Operating Temperature	0~45℃
Storage Temperature	-20~50℃

Interpreter Console IC-2032N

Functions

- In compliance with IEC60914 international standard
- The design of physical buttons / knobs is reasonable , which is easy to operate; The buttons / knobs are sensitive with good touch, accurate operation response, long service life and without mechanical button sound
- With fully digital audio technology, built-in high-speed CPU
- Interpreter console, conference terminal, power HUB and conference server are all connected by network cables. Flexible cabling reduces project workload and makes large-scale construction projects easier
- It supports hand-in-hand connection, star connection and mixed connection. The system is highly stable and reliable. The breakdown of one terminal won't influence the other terminals , and the malfunction of one terminal cabling will not affect the whole system, ensuring the system stability
- Automatic restoration function: supports hot plug
- Supports 48kHz audio sampling freq, acoustic frequency response can be up to 20Hz to 20kHz
- Built-in high-performance digital audio processor(DSP), helpful to remove the useless low frequency and avoid low-frequency acoustical shock, which is better to improve the clarity of sound
- Support 32 channels simultaneous interpretation(including the floor channel)
- Support direct interpretation and relay interpretation
- 7-inch TFT LCD screen to display setting information ,input and output channel information
- With channel selection button, long press to quickly increase / decrease the channel, short press to increase / decrease the channel, convenient to select channels
- 7 input channels can be preset, with corresponding shortcut keys and input channel occupation indicator
- 3 output channels can be preset , with corresponding shortcut keys. When all interpreter consoles are closed, the output channel can be automatically switched to the floor channel
- Standard cardioid directional electret microphone with indicator ring (On or Off) . Multiple soft gooseneck microphone stems can be selected (standard: 410mm, optional:310mm/510mm)
- Pluggable microphone stem; During the meeting recess, it can be disassembled for equipment maintenance
- Built-in 2W loudspeaker with volume switch; Can play the floor channel or interpreted channel language

- With the same channel interlock function, when the output channel is preset, the occupied channel will skip automatically. Channel output can be set to interlock mode and free mode
- The number of interpreter console in the same room is not limited
- Through software setting, multiple interpreter consoles can be set up in a single language channel. When the interpreter console in the same language channel turns on the microphone, the microphone of the previous interpreter terminal will be automatically turned off
- MUTE key to enable a brief muting of the microphone for cough cut
- Speaking Speed remind function, the interpreter can press the “slow” key to remind the speaker to slow down the speaking speed (The microphone’s indicator ring or screen will flash)
- Left and right headphone output jack (3.5 mm×2), connect the headset to listen to the floor or interpreted channel language, with left and right selection buttons; headphone volume is adjustable
- Left and right microphone input jack (3.5 mm×2), can be connected to external microphone, with left and right selection buttons, to meet different usage scenarios
- Left and right recording output jack (3.5 mm×2), can be connected to recording device, with left and right selection buttons, the output audio depends on the channel listened by the interpreter console
- With message function, text message can be sent to interpreter terminal through management software
- With call service function, interpreters can call the administrator to provide help through the interpreter console
- Setting the interpreter console information can be locked by password, and the interpreter can use the setting function through password and IC card
- No need independent system connection, it can be mixed connected with all conference terminals
- Highly resistant to mobile phone interference
- Every interpreter comes with an unique serial number and the conference system supports automatically or manually assigning ID to the corresponding equipment
- Interpretation timing function (timing unit: hour/minute)

Technical Parameters

Installation Way	Desktop
Connection Way	Network Cable
Display Specifications	7-inch TFT color display
Frequency Range	20Hz~20kHz
Sensitivity	-46 dBV/Pa
Equivalent Noise Level	20dBA(SPL)
Max. SPL	125dB(THD<3%)
THD	<0.05%
SNR	≥96dB
Microphone Type	Cardioid directional electret
Directivity	0°/180°: >20 dB (1 kHz)
MIC Stem Length	410mm (standard); 310mm/510mm (optional)
Input Impedance	2KΩ
Headphone Output Jack	3.5 mm jack×2
Microphone Input Jack	3.5 mm jack×2
Headphone Load	>16Ω
Headphone Volume	10mW
Built-in Loudspeaker	2W/8Ω
Channel Number	32 channel (including the floor channel)
Power supply	24V
Max. Power Consumption	7W
Working Temperature	0~45°C
Storage Temperature	-20~50°C

Charging Case GX-60

Functions

- Aluminum storage flight case for charging & storage
- Accommodates up to 60 units
- Independent management for each charging port, it will automatically charge the unit with low battery, it will stop charging if the unit is fully charged to ensure the security
- Independent LED indicators for charging status
- Charging time: 2.5 hours
- Anti-misplug design for charging port
- GX-60 is suitable for charging IR simultaneous interpretation system receivers

Technical Parameters

Power input	AC100V~240V,50/60Hz
Capacity	60 units
Charging time	2.5 hours
Charging indicator	LED indicator
Dimension (L*W*H)	680mm×430mm×245mm
Weight	11 Kg
Operating temperature	0~45°C
Storage temperature	-20~50°C

Stereo Headphone TC-D3

Technical Parameters

Color	Black
Type	Headband dual-channel headphone
Interface	3.5mm
Impedance	32Ω±15%
Frequency reponse range	20-20KHz
Voltage	0.8V
Input power	30-50mW
Distortion rate	<5%

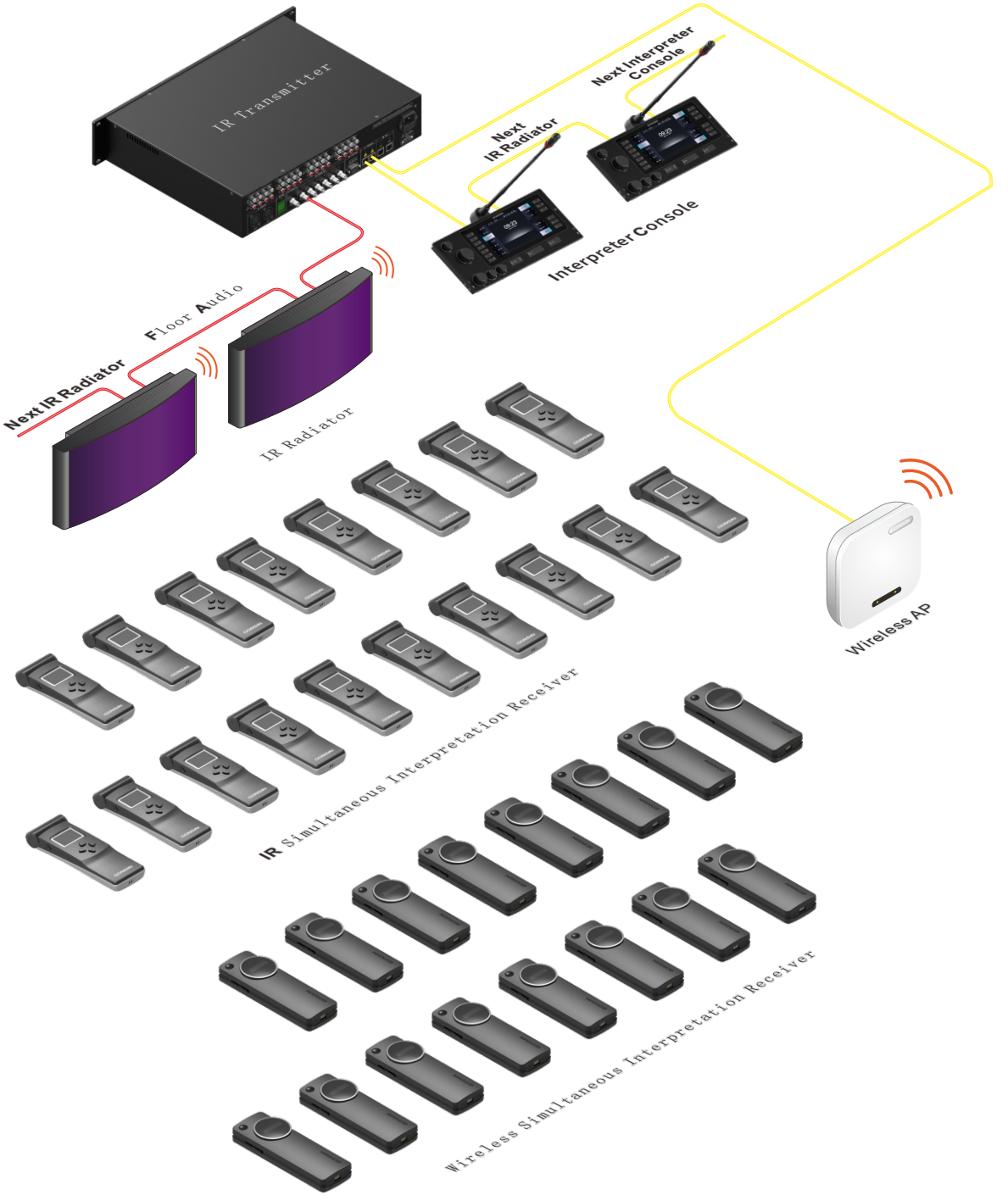
Interpreter Headset TC-D4

- Adopt ergonomic and lightweight design to reduce the pressure on the head when wearing the headset, making it comfortable to wear
- Support manual telescopic head beam to meet most human head shapes
- It has a high-definition noise-cancelling microphone, which can effectively prevent the interference of the surrounding environment, accurately pick up the sound, and record clearly
- Adopt 40MM classic speaker to drive the sound unit, so that the sound of the earphone is clear and lossless, bringing the original sound experience
- Adopt strong anti-violence material, resistant to pulling and folding
- Using long plastic straw, 150-degree angle adjustment, convenient for recording and pickup

Technical Parameters

Product Weight	180g
Microphone Specifications	
MIC	Diameter 6.5mm
Impedance	2200Ω
Sensitivity	-58dB±3dB
Directionality	Directivity
S/N ratio	Above 60dB
Frequency range	20Hz-20kHz
Operating voltage	4.5V

Headset Specifications	
Trumpet	Diameter 40mm
Impedance	32Ω
Sensitivity	105±3dB
Rated power	≥100mW
Frequency response	15Hz-30KHz
Wire length	2.2M
Volume adjustment	Gear tuning
Port	Dual 3.5mm ports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IR Radiator
Wireless AP
IR Simultaneous Interpretation Receiver
Wireless Simultaneous Interpretation Receiver
Coaxial Cable
Network Cable

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