# GONSIN®

Digital Public Address System

IP Public Address System

GX-PB8100 Network PA & Intercom System is a comprehensive AV communication system integrating computer network, VoIP network, PSTN telecommunication network and mobile communication network. The system includes all kinds of network terminals like IP Network Server, Intercom Broadcast Paging Station, Network Fire Collector, Network Audio Collector, Network Audio Decoder, IP Amplifier, IP Speaker, Smart Video Phone, Network Help Intercom, etc. It can operate stably for long under low and high temperature environment, with high performance, low power consumption and 7*24 hours working design. And It can centrally manage all network terminal equipments, and can upgrade and maintain the program source, timing scheme and its equipment. Each terminal can be partitioned freely without line limitation. Support timing settings, according to the schedule of work and rest; Support the audio source of the database in any terminal on-demand server; Support fire alarm access.

This system is suitable for office building cluster, school, station, hospital, hotel, airport, factory, shopping center and other large-scale places.
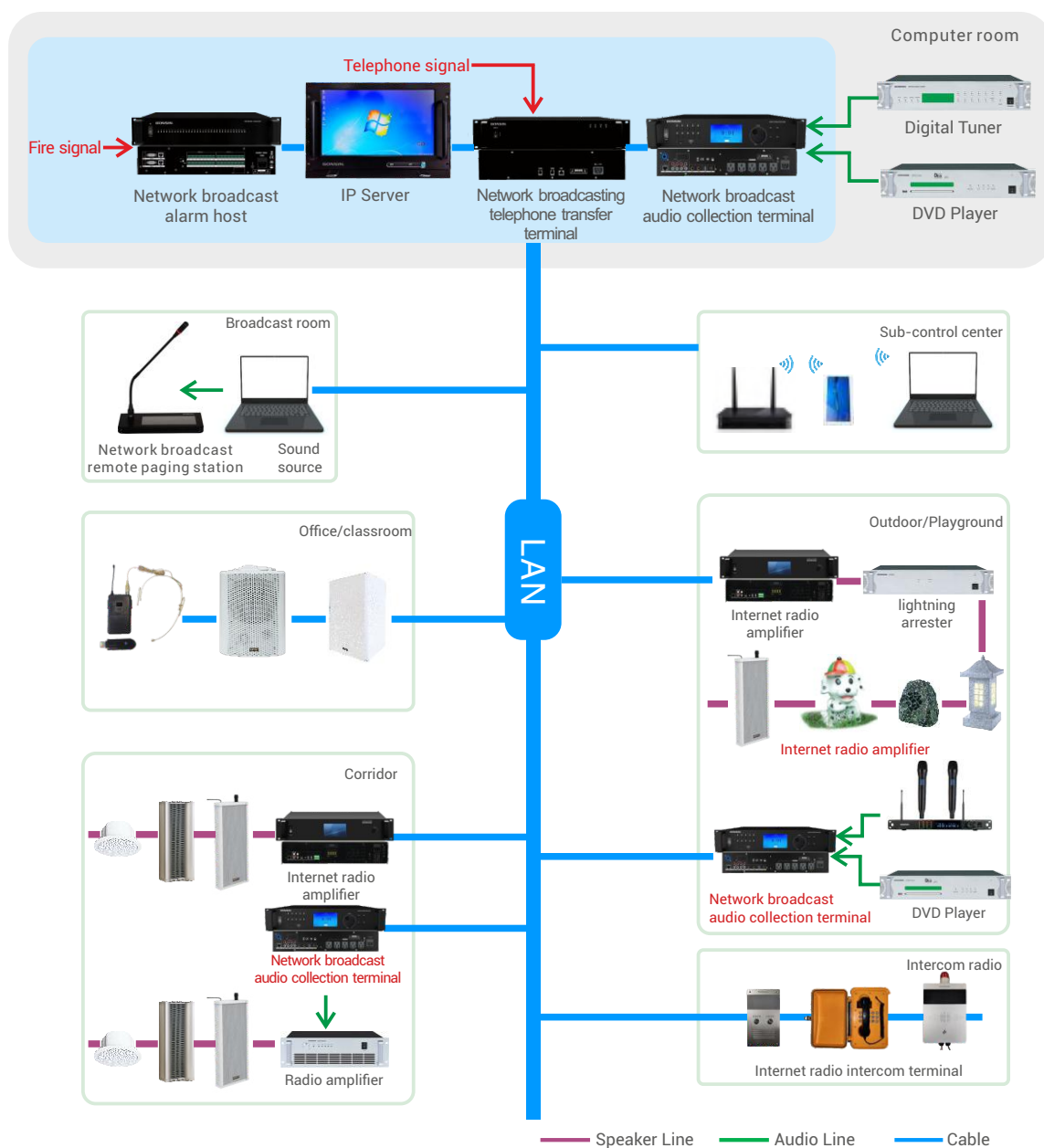
System Function

● **Emergency broadcast**

Support fire alarm linkage, and docking with the fire center, realize that in an emergency, the designated alarm area will give priority to playing the alarm sound. It is simple to set up, powerful, and meets the national fire alarm acceptance requirements

● **Remote paging broadcast**

through the network broadcast remote paging station or mobile terminal software , can realize the whole area, district or designated terminal broadcast or intercom.

● **Emergency broadcast**

Support fire alarm linkage, and docking with the fire center, realize that in an emergency, the designated alarm area will give priority to playing the alarm sound. It is simple to set up, powerful, and meets the national fire alarm acceptance requirements. Remote paging broadcast through the network broadcast remote paging station or mobile terminal software , can realize the whole area, district or designated terminal broadcast or intercom.

● **Voice intercom**

Through the network intercom terminal, you can connect to the designated intercom terminal for two-way intercom by one-key or dial-up call, and realize emergency call or business consultation

● **Text broadcast**

The system is equipped with a leading text-to-speech module, which has the characteristics of good sound quality, humanized voice and non-rigid. The user only needs to input the text in the task box to convert it into audio and transmit it to the designated area

● **Remote control**

The computer installs the network broadcast sub-control software to realize the control of the whole system broadcast task in the local area network or the wide area network.

● **Support mobile phone control**

After the mobile phone is installed with the APP , it can be authorized to perform functional operations on the entire area, partition or designated terminal. It has the functions of real-time file playback, real-time speech, timing tasks, program management, playback control, and terminal status viewing.

● **Support SMS access function**

Send a short message to the short message module through the mobile phone; after the short message module receives the short message, the system converts it into a voice file and broadcasts it to the designated terminal; the set terminal triggers the system alarm, and the alarm task presets the corresponding information and sends it to the designated mobile phone via the short message module. It is mainly applied in reservoirs, power stations, mines, schools, sports venues and other places.

● **Support phone access function**

With the network broadcast telephone transfer terminal, it can realize PSTN, SIP, MGCP telephone access, and realize the function of district or whole district telephone broadcasting.

● **Environmental monitoring function**

It can monitor and record the surrounding environment of the terminal to meet the requirements of teaching evaluation and system failure detection

● **Multiple backup function**

Supports server hot backup. After the system builds a backup server, when the main server fails, the backup server is automatically activated without affecting the normal operation of the system. Supports constant voltage backup function, which can be connected with traditional broadcast constant voltage signals to form a dual backup broadcast system. When the network fails, the system automatically switches to traditional broadcast signals to meet school exams and other important occasions.

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Network Broadcast Control Software

GX-PB8100S-K/GX-PB8100F-K

GX-PB8100S-K

GX-PB8100F-K

Features

- Adopt C/S architecture to have a stable operating experience, and support to build systems in LAN and WAN environments
- With background broadcast, emergency broadcast, remote paging broadcast, voice intercom, text broadcast, on-site monitoring, remote sub-control, multiple backup functions, support SMS access, phone access, mobile phone control.
- It has the function of program source management, providing all terminals with timed playback or real-time on-demand services, and two-way terminals can arbitrarily request program library resources
- The program source supports the collection of analog audio sources (microphone, CD, tuner, etc.) and audio digital files, and the number of program sources is not limited
- Support 320kbps high-quality audio file playback, the system has better sound quality, and has the function of volume analysis and gain adjustment, which can quickly adjust the playback volume of the audio source file to be consistent.
- Support timed tasks, can write timed tasks according to the schedule of work and rest, realize timed ringing and play music, and the number of timed tasks is not limited.
- Timed tasks support power management functions. Devices with controlled power output, such as network broadcast audio collectors and network broadcast audio decoders, can be set to provide regular power supply, which is intelligent and environmentally friendly.
- Support text broadcast function, text content can be input through SMS (collocation) network or server, the system can convert text content into voice and broadcast to designated terminal
- It supports the rebroadcasting of Internet radio stations, which can convert Internet Internet radio programs into Internet broadcasting system audio sources and send them to designated broadcasting terminals for playback
- Customized grouping operations can be performed on all partitions, to achieve broadcast and volume adjustment operations for any single point, grouping, partition or all areas.
- remote control to control the broadcast of the flag raising, sports meeting and other activities that require programs on the playground rostrum.

- It supports remote paging broadcast. The remote paging station or mobile phone terminal software can be broadcast through the network, which can realize the broadcast or intercom of the whole area, zone or designated terminal.

- Remote sub-control function: the computer installs the network broadcast sub-control software to control the entire system playback task in the local area network or wide area network. So as to realize that the leader can remotely control the whole district,Partition, group speech.

- It supports the environmental monitoring function, which can monitor and record the surrounding environment of the terminal to meet the requirements of teaching evaluation and system failure detection.

- Real-time monitoring of the status of all terminals and monitoring of all playback status or on-demand status

- Support fire alarm linkage, and dock with the fire center, so that in emergency situations, the designated alarm area will give priority to playing the alarm sound.

- Support the hosting function, the intercom terminal can be set up for real-time and timed hosting, and transfer the call of the terminal to other terminals, which is convenient for on-duty management

- Support mobile phone WIFI control, authorized mobile phone can realize the whole area, partition, point-to-point playback control, real-time speech timing task management, program management, system status viewing and other operations

- Support wireless remote control function, you can use the remote wireless ■ With the network broadcasting telephone transfer terminal, it can realize PSTN, SIP, MGCP telephone access, and realize the telephone broadcasting function of the district or the whole district

- Supports offline playback of timing tasks, the terminal is equipped with offline storage modules, and the terminal can also play timing tasks when there is no network

- With dual server hot stand-by function, backup servers can be deployed in the same local area network. When the main server of the system fails, it can automatically switch to the backup server for operation

- It supports the constant voltage backup function, which can be connected with traditional broadcast constant voltage signals to form a double backup broadcast system. When the network fails, the system automatically switches to the traditional broadcast signal to meet school exams,and other important occasions

- Support system backup function, you can turn off the set broadcast data and backup it into a file. When the system is reinstalled, the broadcast data can be quickly restored

- Support log query function, which can realize information query such as intercom, paging, emergency call, environmental monitoring, user operation, system operation, etc.

- Support network upgrade function, remote upgrade and maintenance of online terminal.

- Support third-party platform interface development, provide standard SDK package, and realize docking with other system platforms

Network Broadcast Control Software

GX-PB8100A-K/GX-PB8100P-K
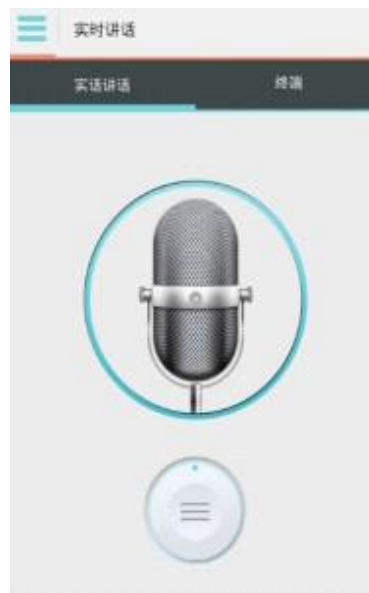
Features

■ Support WIFI access, you can access the broadcasting system through mobile phone, tablet WiFi, and the connection is simple.

■ Support program on-demand, music on the server can be ordered to any one or more terminals within the authority to play.

■ It supports remote paging and can broadcast speech to the terminals within the authority.

■ Support file upload, you can upload the music on the mobile phone to the server, and on-demand designated terminals within the authority.

■ Support timing task management, Pad version software supports timing task management

■ Support user authority management, each user authority can be set through the network broadcast control software, and the user can control after logging in system designated terminal. Support multiple users to log in at the same time, high-privileged users interrupt the tasks of low-privileged users.

■ Support real-time viewing of terminal status, real-time viewing of the playback status and connection status of terminals within the authority, which is convenient for management.

IP Server

GX-PB8101A-K

GX-PB8101A-K

Features

■ Industrial-grade server, built-in SSD solid state drive, has super fast system startup speed, and the system is stable and reliable.

■ Rack-mounted chassis body design, using high-strength aluminum alloy panel, high-quality unpolished galvanized steel plate, can resist 4KV strong electromagnetic interference, dust and impact resistance.

■ Using a 17-inch industrial-grade FHD high-definition touch screen, the control interface is intuitive and easy to understand, and the touch is sensitive.

■ It is equipped with a hidden push-pull keyboard and touchpad, which can be operated without an external keyboard and mouse.

■ High performance, low power consumption, 7*24 hours working design, suitable for long-term stable operation under low temperature and high temperature environment.

■ With USB, COM, VGA, DVI, PCIE interfaces, it is convenient to expand the input and output.

■ With MIC_IN and LINE_IN interfaces, it supports to collect and broadcast external audio sources to the desired terminal for playback at any time

■ Built-in network broadcasting service software to configure, manage, maintain and monitor the status of terminal equipment.

Technical Parameters

Model	GX-PB8101A-K
Configuration	I3 CPU, 4GB memory, 128G SSD hard disk
Display	17.3 inches, 1920*1080dpi, 300cd/
Software operating platform	Windows 7 trial version
Serial port	RS232*5, RS485*1
USB interface	USB3.0*4, USB3.0*2
Display interface	VGA*1, DVI*1
Audio interface	MIC_IN*1, LINE_IN*1, LINE_OUT*1
Network interface	LAN*2, support 10/100/1000Mbps
Others	PS/2*1, PCIEx16*1, PCIEx16*1, PCI*2
Input power	AC100-220V 50/60Hz
Product size W*D*H	485×303×354mm (without handle)
Product weight	18.5Kg
Working temperature	-10℃~60℃
Storage temperature	-20℃~70℃
Working humidity	5%~95% (non-condensing state)
Storage humidity	5%~95% (non-condensing state)

Network Broadcast Remote Paging Station

GX-PB8102A-K

GX-PB8102A-K

Features

- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment.
- Using 7-inch capacitive touch screen, user-friendly user interface, touch the buttons of the screen, you can realize the broadcast or intercom of the whole area, partition or designated terminal
- Equipped with gooseneck microphone, built-in 3W full-range speaker to support hands-free communication.
- With 3.5mm microphone interface, professional microphones can be connected
- With 1 line input, it can be connected to a local audio source, and the local audio source can be collected to a designated terminal or zone for playback
- With 1 USB, you can play MP3 files on the U disk to the designated terminal or partition.
- Support one local line output, and can expand the power amplifier.
- With audio output interface, with earphones or active speakers, local monitoring of server programs can be realized.
- It supports one-key calling of common areas and all areas, 30 common areas can be set according to requirements.
- Brings the electric ringtone prompt function, which can support one-key receiving help, intercom function, and quick connection
- APP sub-control software that supports mobile phones or tablets (wireless WIFI, can control on-demand, paging and other functions in real time)
- With user password and authority management.
- Support remote upgrade pushed by the server.
- Support Simplified Chinese and English language selection.

Technical Parameters

| Model	GX-PB8102A-K
Display	7-inch LCD screen
Audio format	Mp3
Audio bit rate	8Kbps~320Kbps adaptive
Frequency response	40Hz~20KHz (±3dB)
Total harmonic distortion	(THD@1W): ≤1%
Signal to noise ratio	>80dB
Sampling rate	8K~48K
Input level	400mV (standard 3.5mm audio interface)
Output level	0.775V (standard 3.5mm audio interface)
Built-in speaker	8Ω/5W
Transmission rate	10/100Mbps
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
Network delay	≤50ms

Power supply	DC12V/2A
Rated power	<3W
Maximum power consumption	20W
Working temperature	0℃~50℃
Product size	250×150×56mm
Product weight	1.16Kg

Network Broadcast Alarm Host

GX-PB8103A-K/GX-PB8103B-K

GX-PB8103A-K
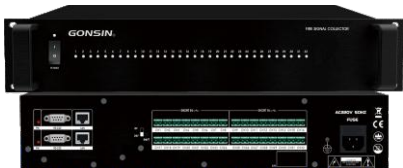
GX-PB8103B-K

Features

- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment.

- The panel is equipped with 16 level indicator lights to display the working status, and supports 16 channels of fire alarm signal access. The access mode can be set to short circuit, 12V-24V signal.

- It has 4 short-circuit outputs, which can be connected to door locks or warning lights to realize joint control GX-PB8103A-K

- It supports the expansion connection of multiple alarm hosts to realize arbitrary expansion of the control area.

- The alarm area can be limited to the accident area or extended to several neighboring areas, which is determined by the server's pre-programming.

- The alarm sound is stored on the server, no external alarm sound source is required, and the alarm playback sound can be customized through the management software.

- It has long-term, continuous, stable, efficient and reliable operating performance.

- The chassis adopts the international 2U rack-mounted sheet metal standard chassis structure, beautiful in appearance, aluminum alloy panel, beautiful and practical

Technical Parameters

Model	GX-PB8103A-K	GX-PB8103B-K
Alarm input interface	16 channels	32 channels
Alarm signal type	0V, 12V, 24V	
Network interface	RJ45*1	RJ45*2
Short circuit output	4 channels	/
Power supply	AC220V±10% 50Hz	
Power consumption	20W	
Product size	485×340×88mm	
Product weight	6Kg	
Environmental humidity	20%-80% relative humidity, no frost	

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Network Broadcast Audio Collection Terminal
GX-PB8104A-K

GX-PB8104A-K

Features

- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve server and other network equipment access and control
- With 4.3-inch color display and one-key shuttle function, the interface is clear and easy to operate
- Built-in audio collection module, with 8K~48K sampling rate, with high-quality sound collection effect,the analog stereo sound source can be converted into a network audio signal
- With FM radio module, U disk player module, no need to connect DVD, tuner and other audio source equipment, also realize real-time sound collection
- With 4 audio line inputs and 2 microphone inputs, the volume of each channel is independently controlled
- With 5 controllable power interfaces, each power supply can be turned on and off automatically or manually.
- The system can be set to supply power regularly, intelligent environmental protection and saving
- With 10 programmable buttons, button tasks can be set freely
- With wireless remote control, it supports remote control terminal playback
- Rack-mounted 2U standard chassis design, aluminum alloy panel, beautiful and practical

Technical Parameters

Model	GX-PB8104A-K
Display	4.3-inch color display
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	AUX_IN*4, MIC_IN*2
Memory interface	USB (U disk)*1, SD (U disk)*1
Controllable power output	5 channels
Other interfaces	USB (extended Bluetooth)*1, FM antenna*1, remote control antenna*1
Support protocol	TCP/IP, UDP, IGMP (multicast)
Frequency response	20Hz~20KHz
Harmonic distortion	THD≤0.1%
Sampling rate	8K~48K
UX sensitivity	0dB
Power supply	AC220V±10% 50Hz
Power consumption	20W
Standby power consumption	<3W
Product size	485×340×88mm
Product weight	5.1Kg
Working temperature	5℃~40℃
Environmental humidity	20%~80% relative humidity

Remote Control

GX-PB8104R-K

Features

■ Use with the network broadcast audio collector GX-PB8104A-K to realize remote control

■ Simple and generous appearance, user-friendly operation mode

■ Super strong remote control distance—more than 500 meters (barrier-free)

■ With 12 shortcut keys, the key function can be customized through software

■ The task key can realize any music playback or real-time call at any time, any number of terminals, and any volume

■ The function keys can realize pause/resume, stop, previous song, next song, volume up, and volume down operations for the current task

■ 10 levels of user priority can be preset

■ 1000 levels of operational task priority can be preset

Technical Parameters

Model	GX-PB8104R-K
Buttons	12, the button function can be customized
Carrier frequency	315Mhz
Input power	9V alkaline battery
Power consumption	≤5W
Product weight	0.18Kg
Working temperature	−20℃~+60℃
Working humidity	10%~9%

Network Broadcast Audio Decoding Terminal

GX-PB8105A-K

Features

■ Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment

■ With 4.3-inch color capacitive touch screen and one-key shuttle function, the interface is clear and easy to operate

■ Through the Android or IOS sub-control software, the on-demand and paging functions can be controlled in real time

■ The built-in independent audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system

■ It has a USB interface, supports MP3 playback, and realizes local playback of audio

- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect

- It has 1 line input and 1 microphone input, supports local audio source playback, and the microphone volume is independently adjustable

- It has 1 line output to connect to the power amplifier for amplified sound output

- With 1 custom short-circuit input, 1 short-circuit output

- With 1 emergency output, with 24V strong cut function

- With 2 controllable power interfaces, each power supply can be automatically or manually turned on and off, the system can be set to supply power at a fixed time, intelligent environmental protection and saving

- An offline storage module can be selected, and it can also realize timing playback and timing ringing even when it is out of the network

- An optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth

- Optional USB 2.4G wireless microphone module to meet the needs of local microphone amplification output

Technical Parameters

Device model	GX-PB8105A-K
Display size	4.3 inch color capacitive touch screen
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface:	AUX_IN*1, MIC_IN*1, LINE_OUT*1
Memory interface	USB (U disk)*1, maximum support 128G
Controllable power output	2 channels, total power ≤2000W
Other interfaces	USB (extended Bluetooth)*1, USB (extended 2.4G wireless microphone)*1, short-circuit input*1, short-circuit output*1, fire short-circuit output*1, 24V strong cut power output*1
Support protocol	TCP/IP, UD, IGMP
Audio format	Mp3
Audio mode	16-bit stereo CD sound quality
Bit rate	8k~768Kbps
AUX sensitivity	-12dB
MIC sensitivity	-40dB
Frequency response	20Hz~20KHz
Harmonic distortion	THD≤0.1%
Signal to noise ratio	≥65dB
Short circuit input/output	0V<5A
Power supply	AC220V±10%
Power consumption	45W
Standby power consumption	<3W
Product size	485×340×88mm
Product weight	6.28Kg
Working temperature	5℃~40℃
Environmental humidity	20%~80% relative humidity, no condensation

Network Broadcast Audio Decoding Terminal

GX-PB8105C-K

Features

■ Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment

■ Through the Android or IOS sub-control software, you can control the on-demand and paging functions in real time

■ Built-in 4 independent audio decoding modules, supporting simultaneous conversion of 4 network audio signals into analog stereo signal output, each channel of audio does not interfere with each other, realizing the playback of background music, emergency paging, alarm signals from the server system, etc.

■ The volume of 4 audio channels can be adjusted independently

■ It has 4 line outputs, which are respectively connected to power amplifiers for amplified sound output.

■ With 4 custom short-circuit inputs and 4 short-circuit outputs,

■ With 4 controllable power ports, each power supply can be turned on and off automatically or manually, and the system can be set to supply power regularly, which is intelligent and environmentally friendly.

■ Optional offline storage module, which can also realize timing play and timing ringing even if it is out of the network.

Technical Parameters

Model	GX-PB8105C-K
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	LINE_OUT*4
Controllable power output	4 channels, total power ≤2000W
Other interfaces	short-circuit input*4, short-circuit output*4
Support protocol	TCP/IP, UD, IGMP
Audio format	Mp3
Audio mode	16-bit stereo CD sound quality
Bit rate	8k~768Kbps
Frequency response	20Hz~20KHz
Harmonic distortion	THD≤0.1%
Signal to noise ratio	≥65dB
Short circuit input/output	0V<5A
Power supply	AC220V±10%
Power consumption	45W
Standby power consumption	<3W
Product size	485×340×88mm
Product weight	6.28Kg
Working temperature	5℃~40℃
Environmental humidity	20%~80% relative humidity, no condensation

Network Broadcast Wall-mounted Terminal

GX-PB8106A-K/GX-PB8106B-K/GX-PB8106C-K/GX-PB8106D-K

GX-PB8106B-K

GX-PB8106C-K

Features

■ Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment

■ Through the Android or IOS sub-control software, you can control the on-demand and paging functions in real time;

■ The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, and alarm signals from the server system.

■ With a USB interface, it supports local playback of MP3 audio in USB

■ Support 8~768Kbps high bit rate format playback, with high fidelity sound effect

■ It has 1 line input, 1 microphone input, supports local audio source playback, and the microphone volume is independently adjustable.

■ It has 1 line output to connect to the power amplifier for amplified sound output.

■ With 1 custom short-circuit input and 1 short-circuit output.

■ It has a 100V constant voltage input interface, supports constant voltage backup function, and can build a dual backup broadcast system to meet important occasions such as school exams.

■ With custom selection of audio source priority, support for local priority, network priority, and mixed output options

■ Built-in 2 * 20 W stereo power amplifier, which can be extended to connect to passive speakers

■ An offline storage module can be selected, and it can also realize timing playback and timing ringing even when it is out of the network.

■ It supports remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PB8106A-K	GX-PB8106B-K	GX-PB8106C-K	GX-PB8106D-K
Network interface	RJ45*1, 100Mbps/10Mbps			
Audio interface	AUX_IN*1, MIC_IN*1, LINE_OUT*1			
Constant voltage input interface	/	100V	/	100V
Memory interface	/		USB*1, maximum support 128G	
Other interfaces	USB (extended Bluetooth)*1, USB (extended 2.4G wireless microphone)*1, short-circuit input*1, short-circuit output*1, fire-fighting short-circuit output*1, 24V strong cut power output*1			
Support protocol	TCP/IP, UD, IGMP			
Audio format	MP3			
Audio mode	16-bit stereo CD sound quality			
Bit rate	8k~768Kbps			
A U X sensitivity	-12dB			
MIC sensitivity	-10dB			
Short circuit input/output	0 V			
Frequency response	20Hz-20KHz			
Harmonic distortion	THD≤0.1%			
Signal to noise ratio	≥70dB			
Output power	2×20W			
Power consumption	<45W			
Protection circuitInput	overload, over temperature, short circuit protection			
Input power	DC24V			
Product size	255×188×45 mm			
Product weight	1.36Kg	1.78Kg	1.48Kg	2.48Kg
Working temperature	5℃~40℃			
Environmental humidity	20%~80% relative humidity			

Webcast on-demand Terminal

GX-PB8107A-K

Features

- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- With 5-inch color capacitive touch screen, the interface is clear and easy to operate
- Through the Android or IOS sub-control software, the on-demand and paging functions can be controlled in real time;
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, which can play background music, emergency paging, alarm signals, etc. from the server system.
- With USB interface, it supports local playback of MP3 audio in USB
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- It has 1 line input to support local audio source playback
- With 1 short-circuit input, you can customize playback tasks, such as welcome music, etc.
- Built-in 2 * 20 W stereo power amplifier, which can be extended to connect to passive speakers
- An offline storage module is optional, and it can also realize timing playback and timing ringing even when it is disconnected from the network
- Optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth.
- Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PB8107A-K
Network interface	RJ45*1, 100Mbps/10Mbps
Memory interface	USB (U disk)*1, maximum support 128G
Other interfaces	USB (extended Bluetooth)*1, short-circuit input*1
Support protocol	TCP/IP, UD, IGMP
Audio format	Mp3
Audio mode	16-bit stereo CD sound quality
Bit rate	8k~768Kbps
Frequency response	20Hz-20KHz
Harmonic distortion	THD≤0.1%
Signal to noise ratio	≥70dB
Output power	2×20W
Power consumption	<45W
Input power	DC24V
Product size	172×50×86mm
Working temperature	5℃~40℃
Environmental humidity	20%~80% relative humidity

Network Broadcasting Telephone Transfer Terminal

GX-PB8108A-K

Features

- Support PSTN, SIP, MGCP telephone access
- Support paging broadcast of external calls, and also internal paging broadcast
- Support remote synchronous broadcasting, zone broadcasting, and point-to-point broadcasting control
- With voice prompt, automatic answering, high intelligent operation
- With password detection, it is safe and stable to use
- With self-detection, signal receiving, sending, amplifying, and anti-interference functions

Technical Parameters

Model	GX-PB8108A-K
VoIP protocol	SIP (RFC3261 and related extensions), MGCP (RFC2705)
Network protocol	PPPoE, DHCP, DNS, NAT/STUN, 802.1p, TFTP, Telnet, etc.
DTMF	DTMF transparent transmission: RFC2833, INFO (SIP)
Telecommunications Standards	FCC Part 15
Client off-hook detection	FXS loop start, DDI (Hong Kong)
Maximum subscriber line length	3000 meters
Telephone interface	RJ-11
Ethernet port	RJ-45, 10/100Base-T, adaptive
Power supply	AC 220V
Power consumption	15W (maximum)
Product size	484×88×355mm
Product weight	4.3Kg
Operating environment	0℃ ~ 40℃, non–condensing humidity 10% ~ 95%
Storage environment	−10℃ ~ +60℃

Bluetooth Module

GX-PB8109A-K

Features

- Use with devices with a Bluetooth expansion interface
- It supports pushing audio to the terminal for playback via mobile phone Bluetooth
- USB standard 5V power supply
- Bluetooth 4.0 technology

Technical Parameters

Model	GX-PB8109A-K
Interface	USB
Protocol	Bluetooth 4.0
Voltage	5V
Product size	26×84×9mm

Network Broadcasting Telephone Transfer Terminal

GX-PB8108A-K

Features

- Use with equipment with a wireless microphone expansion interface
- Support sending audio to the terminal for playback via wireless Bluetooth.
- USB standard 5V power supply
- Skin color headset microphone is standard, and black lavalier microphone or hand-held microphone are optional

Technical Parameters

Model	GX-PB8110A-K
Receiver	
Interface	USB
Voltage	5V
Product size	26*84*9mm
Transmitter	
Carrier frequency band	UHF 740-820MHz
Oscillation mode	phase-locked frequency synthesizer
Transmitting power	10mW
Power supply	1.5V AA battery*2
Working current	<110mA
Product size	64*110*22mm (without antenna)

Offline Storage Module

GX-PB8111A-K

Features

- Use with equipment with offline storage module interface, and be fixedly installed inside the equipment before leaving the factory
- Built-in 4G memory chip, supports timing tasks to be downloaded to the playback terminal and power amplifier
- It supports playing timed tasks even when the network is disconnected

GONSIN®

Internet Radio Amplifier

GX-PA4001/GX-PA4002/GX-PA4003/GX-PA4004/
GX-PA4005/GX-PA4006/GX-PA4007/GX-PA4008/
GX-PA4009/GX-PA4010/GX-PA4011

GX-PA4001

Features

■ Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment.

■ With 4.3-inch color capacitive touch screen, the interface is clear and easy to operate.

■ Through Android or IOS sub-control software, you can control on-demand and paging functions in real time.

■ Built-in 1 channel audio decoding module, supporting network audio signal conversion into analog stereo signal output, realizing playing background music, emergency paging, alarm signal, etc. from the server system.

■ With USB interface, it supports local playback of MP3 audio in USB.

■ Support 8~768Kbps high bit rate format playback, with high fidelity sound effects.

■ It has 1 stereo line input and 1 microphone input, supports local audio source playback, and the microphone volume is independently adjustable.

■ It has 2 mono line output, which can be extended to connect the power amplifier output.

■ It has 2 sets of 100V constant voltage output, connected to constant voltage broadcast speakers, which can meet the requirements of different occasions.

■ With 1 short circuit output, when there is a task, the short circuit triggers the work.

■ With 1 emergency output, with 24V strong cut function.

■ It has a 220V5A intelligent control power interface, which can be turned on and off automatically or manually. The system can be set to supply power regularly, which is intelligent and environmentally friendly.

■ With output short-circuit protection, output limiting protection, overload protection, overheating protection and other protective measures to ensure the safe use of power amplifiers and speakers.

■ With indicator lights such as power indicator, signal indicator, peak clipping indicator, protection indicator, etc., the status of the power amplifier is clear at a glance.

■ It has the characteristics of high efficiency and energy saving, light weight, small size, high power and strong load capacity.

■ An offline storage module is optional, and it can also realize timing playback and timing ringing even when it is disconnected from the network.

■ An optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth.

■ Optional USB 2.4G wireless microphone module to meet the needs of local microphone amplification output.

■ Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PA4001/GX-PA4002/GX-PA4003/GX-PA4004/GX-PA4005/GX-PA4006/ GX-PA4007/GX-PA4008/GX-PA4009/GX-PA4010/GX-PA4011
Output power	60W/120W/240W/360W/500W/600W/800W/1000W/1200W/1500W/2100W
Constant voltage output	100V±5%
Display size	4.3 inch capacitive touch screen
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	AUX_IN*1, MIC_IN*1, LINE_OUT*2
Memory interface	USB (U disk)*1, maximum support 128G
Other interfaces	USB (extension 2.4G wireless microphone)*1, short-circuit output*1, short-circuit input*1, emergency output*1, 24V forced cut power output*1,
Support protocol	AC220V 5A OUT*1TCP/IP, UD, IGMP
Audio format	Mp3
Audio mode	16-bit stereo CD sound quality
Bit rate	8k~768Kbps
AUX sensitivity	-12dB
MIC sensitivity	-40dB
Frequency response	20Hz~20KHz
Harmonic distortion	THD≤0.1%
Signal to noise ratio	≥70dB
Short circuit output	0V<5A
Protection circuit	overload, over temperature, short circuit protection, DC protection
Power supply	AC220V±10% /50Hz
Standby power consumption	<3W
Product size	485×410×90mm
Product weight	8.48Kg/8.48Kg/8.48Kg/8.48Kg/8.5Kg/8.5Kg/8.5Kg/9.5Kg/9.5Kg/9.5Kg/9.5Kg
Working temperature	-5℃~60℃
Environmental humidity	20%~80% relative humidity

Wireless Microphone Module

GX-PA4012/GX-PA4013/GX-PA4014/GX-PA4015/
GX-PA4016/GX-PA4017/GX-PA4018

Features

- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- Through the Android or IOS sub-control software, you can control the on-demand and paging functions in real time
- Built-in 4-channel switch encoding and decoding function
- Built-in 4-channel audio decoding module, which supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system
- It has 1 stereo line input, supports local audio source playback, and the microphone volume is independently adjustable
- With 2-channel mono line output, extended connection power amplifier output
- With 2 sets of 100V constant voltage output, connected to constant voltage broadcast speakers, which can meet the requirements of different occasions
- With 1 short circuit output, when there is a task, the short circuit triggers the work
- With 1 emergency output, with 24V strong cut function
- The 4-channel emergency output free switching function, when there is a task, the emergency output can be linked to other equipment
- It has a 220V5A intelligent control power interface, which can be turned on and off automatically or manually. The system can be set to supply power regularly, which is intelligent and environmentally friendly
- With output short-circuit protection, output limiting protection, overload protection, overheating protection and other protective measures to ensure the safe use of power amplifiers and speakers
- With power indicator, signal indicator, peak clipping indicator, protection indicator
- With indicator lights such as signal indication and network indication function, the status of the power amplifier is clear at a glance
- It has the characteristics of high efficiency and energy saving, light weight, small size, high power, strong load capacity, etc
- An offline storage module is optional, and it can also realize timing playback and timing ringing even when it is disconnected from the network
- An optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth
- Optional USB 2.4G wireless microphone module to meet the needs of local microphone amplification output
- Support remote server management and remote upgrade, which is convenient for users to maintain
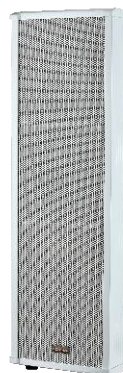
Technical Parameters

Model	GX-PA4012/GX-PA4013/GX-PA4014/GX-PA4015/ GX-PA4016/GX-PA4017/GX-PA4018
Output power	4×60W/4×120W/4×240W/4×360W/4×500W/ 4×600W/4×800W
Constant voltage output	100V±5%
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	AUX_IN*1, MIC_IN*1, LINE_OUT*2
Memory interface	USB (U disk)*1, maximum support 128G
Other interfaces	USB (extension 2.4G wireless microphone)*1, short-circuit output*1, 24V strong cut power output*1, AC220V 5A OUT*1
Support protocol	TCP/IP, UD, IGMP
Audio format	Mp3
Audio mode	16-bit stereo CD sound quality
Bit rate	8k~768Kbps
AUX sensitivity	0dB
MIC sensitivity	-40dB
Frequency response	20Hz~20KHz
Harmonic distortion	THD ≤ 1% (1/4 rated power)
Signal to noise ratio	≥85dB
Short circuit output	0V<5A
Protection circuit	overload, over temperature, short circuit protection
Power supply	AC220V±10%
Standby power consumption	<3W
Product size	485×410×90mm
Product weight	11.2Kg/11.2Kg/11.2Kg/11.2Kg/11.5Kg/11.5Kg/11.5Kg
Working temperature	-10~60 degrees
Environmental humidity	20%~80% relative humidity

GONSIN®

Internet Radio Sound Column

GX-SP8021A-K/GX-SP8041A-K
GX-SP8021B-K/GX-SP8041B-K

GX-SP8021A-K/GX-SP8021B-K   **GX-SP8041A-K/GX-SP8041B-K**
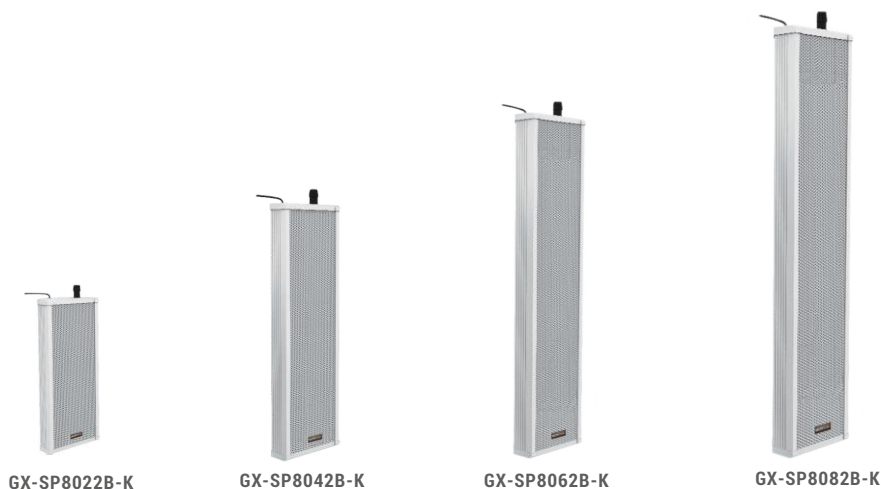
Features

- The cabinet is made of thick aluminum alloy material, and the pure aluminum surface net is hardened and anti-oxidation treatment, which is durable and beautiful.
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, and alarm signals from the server system.
- With 1 custom short circuit input.
- It has 1 line input and supports local audio source playback.
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- GX-SP8021B-K, GX-SP8041B-K support PoE power supply, and can use Gigabit IEEE802.3bt PoE standard switch to supply power through Category 6 network cable, the line length is less than 80 meters
- An offline storage module is optional, and it can also realize timing playback and timing ringing even when it is disconnected from the network
- It supports remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-SP8021A-K	GX-SP8041A-K	GX-SP8021B-K	GX-SP8041B-K
Unit	4" unit*2	4" unit*4	4" unit*2	4" unit*4
Power output	20W	40W	20W	40W
Network interface	RJ45*1, 100Mbps/10Mbps			
Bit rate	8k~768Kbps			
Sampling rate	8K~48K			
Frequency response	80Hz—16KHz			
Harmonic distortion	THD≤0.1%			
Signal to noise ratio	≥70dB			
Power supply	DC24V 2A		DC24V,POE(IEEE802.3bt)	
Product size	380x150x105mm	505x150x105mm	380x150x105mm	505x150x105mm
Product weight	1.97Kg	2.73Kg	2Kg	2.75Kg
Working temperature	−5℃~60℃			
Environmental humidity	20%~80% relative humidity			

Internet Radio Sound Column

GX-SP8022A-K/GX-SP8042A-K
GX-SP8062A-K

GX-SP8022A-K   GX-SP8042A-K   GX-SP8062A-K

Features

- The cabinet is made of thick aluminum alloy material, and the pure aluminum surface net is hardened and anti-oxidation treatment, which is durable and beautiful
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, and alarm signals from the server system
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- Optional offline storage module, can also realize timing play and timing ringing even when disconnected from the network
- It supports remote server management and remote upgrade, which is convenient for users to maintain

Model	GX-SP8022A-K	GX-SP8042A-K	GX-SP8062A-K
Unit	5"full frequency*1, 1.5"treble*1	5"full frequency*2, 1.5"treble*1	5"full frequency*3, 1.5"treble*1
Power output	20W	40W	60W
Network interface	RJ45*1, 100Mbps/10Mbps		
Bit rate	8k~768Kbps		
Sampling rate	8K~48K		
Frequency response	80Hz—16KHz		
Harmonic distortion	THD≤0.1%		
Signal to noise ratio	≥70dB		
Input Power	AC220 V		
Protection circuit	overload, over temperature, short circuit protection		
Product size	520x227x125mm	720x227x125mm	920x227x125mm
Working temperature	-5℃~60℃		
Environmental humidity	20%~80% relative humidity		

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Internet Radio Sound Column

**GX-SP8022B-K/GX-SP8042B-K
GX-SP8062B-K/GX-SP8082B-K**

| GX-SP8022B-K | GX-SP8042B-K | GX-SP8062B-K | GX-SP8082B-K |

Features

- The cabinet is made of thick aluminum alloy material, and the pure aluminum surface net is hardened and anti-oxidation treatment, which is durable and beautiful
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, and alarm signals from the server system
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- Optional offline storage module, can also realize timing play and timing ringing even when disconnected from the network
- Configure custom buttons to facilitate user-defined selections. You can choose one-key alarm, one-key on-demand and other functions
- Support the Bluetooth push function, which can push the mobile phone audio source to the terminal for playback
- It supports remote server management and remote upgrade, which is convenient for users to maintain

Technical Parameters

Model	GX-SP8022B-K	GX-SP8042B-K	GX-SP8062B-K	GX-SP8082B-K
Unit	5"full frequency*1, 1.5"treble*1	5"full frequency*2, 1.5"treble*1	5"full frequency*3, 1.5"treble*1	5"full frequency*4, 1.5"treble*1
Power output	20W	40W	60W	80W
Network interface	RJ45*1, 100Mbps/10Mbps			
Bit rate	8k~768Kbps			
Sampling rate	8K~48K			
Frequency response	80Hz—16KHz			
Harmonic distortion	THD≤0.1%			
Signal to noise ratioInput	≥70dB			
Power	AC220 V			
Protection circuit	overload, over temperature, short circuit protection			
Product size	520x227x125mm	720x227x125mm	920x227x125mm	1120x227x125mm
Working temperature	−5℃~60℃			
Environmental humidity	20%~80% relative humidity			

Internet Radio Speakers

GX-SP8024A-K/GX-SP8024B-K

GX-SP8024A-K

GX-SP8024B-K

Features

- Use thickened fireproof ABS material box, hardened, anti-oxidation treatment pure aluminum surface net, beautiful and generous
- The sound is clear and bright, wall-mounted installation, simple and convenient
- Suitable for indoor places such as classrooms, shopping malls, corridors, etc.

Technical Parameters

Model	GX-SP8024A-K	GX-SP8024B-K
Color	White	Black
Unit	6"full frequency*1, 1.5"high pitch*1	
Unit power	25W	
Audio interface	SPK_IN*1	
Frequency response:	20Hz~18KHz	
Product size:	215*193*235mm	
Product weight:	4Kg	
Working temperature:	5℃~40℃	
Environmental humidity:	20%~80% relative humidity	

Internet Radio Speakers

GX-SP8025A-K

GX-SP8025A-K

Features

- The cabinet is made of wooden material, which is durable and beautiful
- The sound is clear and bright, wall-mounted installation, simple and convenient
- Suitable for indoor places such as classrooms, shopping malls, corridors, etc.

Technical Parameters

Model	GX-SP8025A-K
Color	White
Unit	6"full frequency*1, 1.5"high pitch*1
Unit power	20W
Audio interface	SPK_IN*1
Frequency response	20Hz~18KHz
Product size	280*150*190mm
Product weight	2Kg
Working temperature	5℃~40℃
Environmental humidity	20%~80% relative humidity

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Internet radio speakers

GX-SP8024C-K/GX-SP8024D-K
GX-SP8024E-K/GX-SP8024F-K

Features

- The cabinet is made of thick fireproof ABS material, and the pure aluminum surface net is hardened and anti-oxidation treatment, which is durable and beautiful.
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment
- Through the Android or IOS sub-control software, the on-demand and paging functions can be controlled in real time;
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system.
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- It has 1 line input, 1 microphone input, supports local audio source playback, and the microphone volume is independently adjustable.
- It has 1 line output to connect to the power amplifier for amplified sound output.
- With 1 custom short-circuit input and 1 short-circuit output.
- Built-in 2 * 2 5 W stereo power amplifier, which can be used with 1 passive speaker
- It has a 100V constant voltage input interface, supports constant voltage backup function, and can build a dual backup broadcast system to meet important occasions such as school exams.
- With custom selection of audio source priority, support for local priority, network priority, and mixing output options
- An offline storage module can be selected, and it can also realize timing playback and timing ringing even when it is out of the network.
- An optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth.
- Optional USB 2.4G wireless microphone module to meet the needs of local microphone amplification output.
- Support environmental monitoring function.
- Support remote server management and remote upgrade, which is convenient for users to maintain.
- The sound is clear and bright, wall-mounted installation, simple and convenient;
- Applicable to indoor places such as classrooms, shopping malls, corridors, etc.

Technical Parameters

Model	GX-SP8024C-K	GX-SP8024D-K	GX-SP8024E-K	GX-SP8024F-K
Color	White	Black	White	Black
Unit	6"full frequency*1, 1.5"high pitch*1			
Network interface	RJ45*1, 100Mbps/10Mbps			
Audio interface	AUX_IN*1, MIC_IN*1, LINE_OUT*1, SPK_OUT*1			
Constant pressure input interface	\	\	100V	100V
Other interfaces	USB (extended Bluetooth)*1, USB (extended 2.4G wireless microphone)*1, short-circuit input*1, short-circuit output*1			
Support protocol	TCP/IP, UDP, IGMP			
Audio format	MP3			
Audio mode	16-bit stereo CD sound quality			
Bit rate	8k~768Kbps			
AUX sensitivity	-12dB			
MIC sensitivity	-10dB			
Short circuit input	0 V			
Frequency response	20Hz-20KHz			
Harmonic distortion	THD≤0.1%			
Signal to noise ratio	≥70dB			
Output power	2×20W			
Power consumption	<45W			
Protection circuit	overload, over temperature, short circuit protection			
Input power	DC24V			
Product size	280*150*190mm			
Product weight	4. 3KG	4.3KG	4.72KG	4.72KG
Working temperature	5℃~40℃			
Environmental humidity	20%~80% relative humidity			

Internet radio speakers

GX-SP8025B-K/GX-SP8025C-K
GX-SP8025D-K/GX-SP8025E-K

Features

■ The cabinet is made of wooden material, which is durable and beautiful.

■ Based on TCP/IP, UDP, and IGMP protocols, it supports LAN and WAN transmission, and can be installed anywhere the network can reach, realizing the inquiry and control of servers and other network equipment

■ Through the Android or IOS sub-control software, the on-demand and paging functions can be controlled in real time

■ The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, which can play background music, emergency paging, and alarm signals from the server system.

■ Support 8~768Kbps high bit rate format playback, with high fidelity sound effect

■ It has 1 line input and supports local audio source playback.

■ With 1 custom short-circuit input.

■ Built-in 2×20W stereo power amplifier, which can be connected with 1 passive speaker

■ It has a 100V constant voltage input interface, supports constant voltage backup function, and can build a double backup broadcasting system to meet the use of important occasions such as school exams

■ An offline storage module is optional, and it can also realize timing playback and timing ringing even when it is disconnected from the network.

■ Optional USB Bluetooth module can be used to push audio to the terminal for playback via mobile phone Bluetooth.

■ Support remote server management and remote upgrade, which is convenient for users to maintain.

■ The sound is clear and bright, and the wall-mounted installation is simple and convenient.

■ Applicable to indoor places such as classrooms, shopping malls, and corridors.

Technical Parameters

Model	GX-SP8025B-K	GX-SP8025C-K	GX-SP8025D-K	GX-SP8025E-K
Color	White			
Unit	4.5" coaxial unit*1			
Network interface	RJ45*1, 100Mbps/10Mbps			
Audio interface	AUX_IN*1, SPK_OUT*1			
Constant pressure input interface	\	100V	\	100V
Other interfaces	USB (extended Bluetooth)*1, short-circuit input*1			
Support protocol	TCP/IP, UDP, IGMP			
Audio format	MP3			
Audio mode	16-bit stereo CD sound quality			
Bit rate	8k~768Kbps			
AUX sensitivity	-12dB			
Short circuit input	0 V			
Frequency response	20Hz-20KHz			
Harmonic distortion	THD≤0.1%			
Signal to noise ratio	≥70dB			
Output power	2×20W			
Power consumption	<45W			
Protection circuit	overload, over temperature, short circuit protection			
Input power	DC24V		DC24V、POE(IEEE802.3bt)	
Product size	280*150*190mm			
Product weight	2.16KG	2.55Kg	2.18Kg	2.58Kg
Working temperature	5℃~40℃			
Environmental humidity	20%~80% relative humidity			

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Internet radio speakers

GX-SP8027A-K
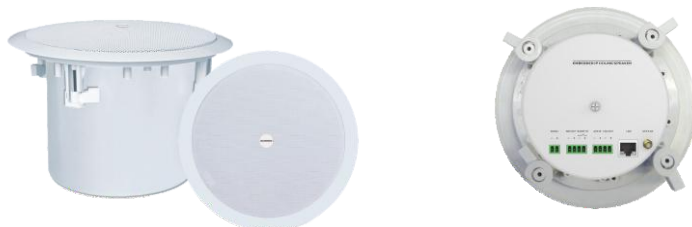
Features

- Using a 5-inch coaxial full-frequency unit, the sound is clear and loud.
- Ultra-narrow side and carbon alloy fine-hole aluminum mesh design, wide sound diffusion angle, stylish appearance.
- Equipped with a rear cover to achieve stronger low-frequency sound effects.
- Powerful movable clamp design, easy to install, durable and reliable.
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment
- It has 1 line input and supports local audio source playback.
- It has 1 channel of 20W speaker output, which can be extended to connect a 20W constant impedance speaker to realize power expansion
- With 1 short circuit input.
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system.
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- Optional offline storage module, it can also realize timing play and timing ringing when disconnected from the network
- Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-SP8027A-K
Power output	20W
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	AUX_IN*1, LINE_OUT*1, SPK_OUT*1
Other interfaces	short-circuit input *1
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
Audio bit rate	8Kbps~320Kbps adaptive
Frequency response	20Hz~20KHz (±3dB)
Signal to noise ratio	≥75dB
Total harmonic distortion	≤1%
Power amplifier rated power	2*20W
Maximum power consumption	45W
Power supply	DC 24V/2A
Hole size	170mm in diameter
Product size	diameter 200mm*100mm
Product weight	1.53Kg

Internet radio speakers

GX-SP8027B-K

Features

- Use a 5-inch full-frequency unit, moderate volume, and support POE power supply.
- Ultra-narrow side and carbon alloy fine-hole aluminum mesh design, wide sound diffusion angle, stylish appearance.
- Equipped with a rear cover to achieve stronger low-frequency sound effects.
- Powerful movable clamp design, easy to install, durable and reliable.
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment
- It has 1 line input and supports local audio source playback.
- It has 1 4W speaker output, which can be extended to connect a 4W fixed impedance speaker
- With 1 short circuit input.
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system.
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- Adopt IEEE802.3af POE standard, support POE power supply
- Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-SP8027B-K
Power output	8W (no speaker output connected),
Network interface	4W (connected speaker output)
Audio interface	RJ45*1, 100Mbps/10Mbps
Other interfaces	AUX_IN*1, LINE_OUT*1, SPK_OUT*1
	short-circuit output *1
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
Audio bit rate	8Kbps~320Kbps adaptive
Frequency response	20Hz~20KHz (±3dB)
Signal to noise ratio	≥75dB
Total harmonic distortion	≤0.3%(@1W)
Power amplifier rated power	1*8W or 2*4W dual mode selection
POE standard	support IEEE802.3af
Power supply	DC 12V/1.5A or POE power supply
Hole size	160mm in
Product size	diameterdiameter 200mm*100mm
Product weight	0.9Kg

Internet Radio Intercom Terminal

GX-PB8221A-K/GX-PB8221B-K/GX-PB8221C-K

Features

- Use a 5-inch full-frequency unit, moderate volume, and support POE power supply.
- Ultra-narrow side and carbon alloy fine-hole aluminum mesh design, wide sound diffusion angle, stylish appearance.
- Equipped with a rear cover to achieve stronger low-frequency sound effects.
- Powerful movable clamp design, easy to install, durable and reliable.
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment
- It has 1 line input and supports local audio source playback.
- It has 1 4W speaker output, which can be extended to connect a 4W fixed impedance speaker
- With 1 short circuit input.
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system.
- Support 8~768Kbps high bit rate format playback, with high fidelity sound effect
- Adopt IEEE802.3af POE standard, support POE power supply
- Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PB8221A-K/GX-PB8221B-K/GX-PB8221C-K
Number of buttons	GX-PB8221A-K*1;GX-PB8221B-K*2;GX-PB8221C-K*16
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	SPK_OUT(30W)*1, LINE_OUT*1, MIC_IN*1
Other interfaces	short-circuit input*2, short-circuit output*2
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
MIC sensitivity	10mV/600Ω
Sampling rate	8K~48KHz
Audio bit rate	8Kbps~320Kbps adaptive
Frequency response	20Hz~20KHz
Harmonic distortion	≤0.1%
Signal to noise ratio	≥80dB
Output power	30W/8Ω
Input power	DC24V/2A
Power	Standby <1W, maximum working power <50W
Protection level	Ip65
Product size	194x108x57mm
Product weight	1.3Kg
Working temperature	-20℃~+60℃
Environmental humidity	10%~90% RH (non-condensing)

Internet Radio Intercom Terminal

GX-PB8222A-K

Features

■ Wall-mounted and embedded metal shell structure, which can be widely used in highway tunnels for emergency help

■ Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can be reached, to achieve access and control of servers and other network equipment

■ The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, alarm signals, etc. from the server system.

■ With a help button, one-key connection to the designated intercom terminal for two-way intercom

■ With 1 RJ45 network port, 1 optical fiber interface, suitable for long-distance occasions

■ It has two 30W power amplifier output ports, which can be connected to 8 ohm 30W speakers for broadcast amplification

■ It has a 1-channel monitor microphone interface, which can monitor the environment in real time/timing by accessing the monitor microphone

■ With 1 short-circuit input and 1 short-circuit output interface, it supports linkage with other systems

■ It has 1 alarm light to realize the sound and light linkage alarm

■ It supports remote server management and remote upgrade, which is convenient for users to maintain.

■ It has a 24V active pickup connection port, which can be used for monitor input expansion

■ It has a mixed broadcast audio source output, which is used for broadcast amplification of an external power amplifier

■ Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PB8222A-K
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	SPK_OUT(30W)*2
Other interfaces	short-circuit input*1, short-circuit output*1
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
Audio encoding	PCM/ADPCM/G711
Recording sampling rate	8K~48KHz
Play sampling rate	8K~48KHz
Intercom sampling rate	16KHz
Audio bit rate	8k~320Kbps (intercom 64Kbps)
Frequency response	200Hz~5000Hz (intercom), 100Hz~16KHz (broadcast)
Harmonic distortion	THD≤1%
Signal-to-noise ratio	>65dB (intercom), >80dB (broadcast)
Output power	30W
Input power	AC100~265V
Protection level	Ip65
Intercom delay	<100mS
Mean time between failures (MTBF)	≥500,000 hours
Product size	400*290*86mm(not counting the size of warning lights and waterproof connectors)
Product weight	5.5Kg-
Working temperature	40℃~70℃
Storage temperature	-40~85℃
Environmental humidity	10~95% RH (non-condensing)
Storage humidity	5~90% RH (non-condensing)

Internet Radio Intercom Terminal

GX-PB8224A-K

Features

- Explosion-proof and fire-proof design, which can be widely used in dial-up intercom communication and emergency broadcasting in industrial and mining enterprises and in relatively harsh environments
- Based on TCP/IP, UDP, IGMP protocol, support LAN and WAN transmission, can be installed anywhere the network can reach, to achieve access and control of servers and other network equipment
- The built-in audio decoding module supports the conversion of network audio signals into analog stereo signal output, and realizes the playback of background music, emergency paging, and alarm signals from the server system.
- With 15 input buttons, which can be used for two-way intercom dialing and one-key help
- Built-in 5W speaker and high-sensitivity microphone, support two-way intercom with other intercom terminals
- With 1 short-circuit input and 1 short-circuit output interface, it supports linkage with other systems
- It has a 24V alarm lamp output interface, which can be connected to the alarm lamp to realize the sound and light linkage alarm
- It has a 30W power amplifier output port, which can be connected to 8 ohm 30W speakers for broadcast amplification
- Support remote server management and remote upgrade, which is convenient for users to maintain.

Technical Parameters

Model	GX-PB8224A-K
Network interface	RJ45*1, 100Mbps/10Mbps
Audio interface	SPK_OUT(30W)*1
Other interfaces	short-circuit input*1, short-circuit output*1, 24V warning light output*1
Support protocol	ARP, UDP, TCP/IP, ICMP, IGMP (multicast)
Audio format	Mp3
Sampling rate	8K~48KHz
Bit rate	8Kbps~320Kbps adaptive
Short circuit input/output	0 V
Frequency response	100Hz - 18KHz
Harmonic distortion	THD≤1%
Signal-to-noise ratio	≥70dB
Output power	30W
Standby power consumption	<5W
Maximum power consumption	<50W
Input power	AC220V/50Hz
Protection level	Ip65
Product size	320×310×130 (mm)
Product weight	5.2Kg
Working temperature	-20℃~+60℃
Environmental humidity	5%~90% relative humidity

GONSIN®

# Analog Broadcasting System

5-zone Pre-amplifier

GX-PA6001/PA6002/PA6003/PA6004/PA6005

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- Itself can be considered as a full set of PA system
- Has 5 zones, any for your selection for the speakers
- Support Bluetooth connection, built-in USB interface , MP3 decoder; compatible with the format of MP3 and WAV
- Has 2 input MICs, MIC 1 has priority function; The volume of each channel can be adjusted individually.
- Has 2 input channels, connect with sound source signal; The volume of each channel can be adjusted individually.
- One line output, can be connected to other amplifiers to expand the power.
- With treble and bass adjustment
- Has protection warning function of working abnormal; It is reliable.
- Adjustment with mute button, mute depth is adjustable.

Connect mode
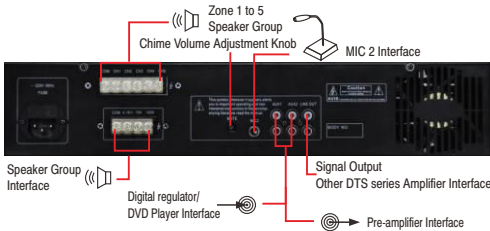
Technical Parameters

Model	GX-PA6001	GX-PA6002	GX-PA6003	GX-PA6004	GX-PA6005
Rated output power	70W	130W	220W	320W	420W
Power consumption	100W	185W	320W	450W	600W
Output way	70V-100V				
Power supply	AC 220V-240V/50Hz-60Hz				
Product dimension	485x325x88mm				
Packing dimension	560x430x370mm(2PCS)				
Net weight	3.6Kg	5.05Kg	5.65Kg	6.1Kg	3.6Kg
Gross weight	4.5Kg	6Kg	5.5Kg	7Kg	4.5Kg

Power Amplifier
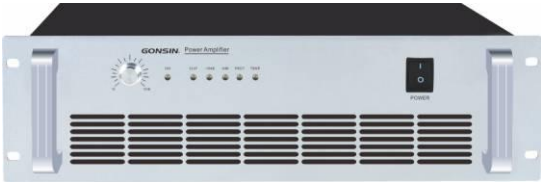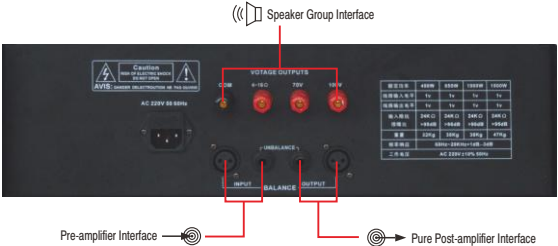
GX-PA6011/GX-PA6012/GX-PA6013

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- 1 TRS 6.5 audio jack and 1 XLR audio jack input
- 1 TRS 6.5 audio jack and 1 XLR audio jack output, convenient for cascading the next power amplifier
- With signal indicator, protection indicator, distortion indicator, start indicator, and power indicator
- Has protection warning function of working abnormal; It is reliable.
- With automatic induction temperature control fan system, low noise, good heat dissipation effect, fan speed increases automatically with the increase of temperature
- 3 power output modes: 100V constant voltage output, 70V constant voltage output and 4~16 Ω constant resistance output

Technical Parameters

Model	GX-PA6011	GX-PA6012	GX-PA6013
Rated output power	350W	500W	700W
Power consumption	500W	700W	1000W
Output way	70V; 100V; 4-16Ω		
Power supply	AC 220V-240V/50Hz-60Hz		
Product dimension	485×418×88mm		
Packing dimension	545*490*170MM		
Net weight	15.9Kg	18.4Kg	19.7Kg
Gross weight	17.9Kg	20.2Kg	21.7Kg

Power Amplifier

GX-PA6014/GX-PA6015

Connect mode

Speaker Group Interface

Pre-amplifier Interface

Pure Post-amplifier Interface

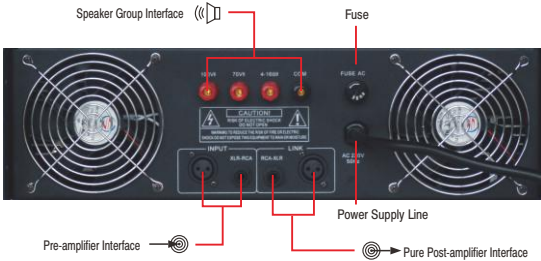## Features

- Standard 3U chassis, aluminum panel, convenient and beautiful
- 1 TRS 6.5 audio jack and 1 XLR audio jack input
- 1 TRS 6.5 audio jack and 1 XLR audio jack output, convenient for cascading the next power amplifier
- With signal indicator, protection indicator, distortion indicator, start indicator, and power indicator
- Has protection warning function of working abnormal; It is reliable.
- With automatic induction temperature control fan system, low noise, good heat dissipation effect, fan speed increases automatically with the increase of temperature
- 3 power output modes: 100V constant voltage output, 70V constant voltage output and 4 ~ 16 Ω constant resistance output

Technical Parameters

Model	GX-PA6014	GX-PA6015
Rated output power	1000W	1300W
Power consumption	1500W	1800W
Output way	70V; 100V; 4-16Ω	
Power supply	AC 220V-240V/50Hz-60Hz	
Product dimension	483×422×132mm	
Packing dimension	545×490×220mm	
Net weight	24.5Kg	26.2Kg
Gross weight	27.1Kg	28.6Kg

Power Amplifier

GX-PA6016/GX-PA6017

Connect mode

Speaker Group Interface

Fuse

Pre-amplifier Interface

Power Supply Line

Pure Post-amplifier Interface

Features

- Standard 3U chassis, aluminum panel, convenient and beautiful
- 1 TRS 6.5 audio jack and 1 XLR audio jack input
- 1 TRS 6.5 audio jack and 1 XLR audio jack output, convenient for cascading the next power amplifier
- With signal indicator, protection indicator, distortion indicator, start indicator, and power indicator
- Has protection warning function of working abnormal; It is reliable.
- With automatic induction temperature control fan system, low noise, good heat dissipation effect, fan speed increases automatically with the increase of temperature
- 3 power output modes: 100V constant voltage output, 70V constant voltage output and 4 ~ 16 Ω constant resistance output

Technical Parameters

Model	GX-PA6016	GX-PA6017
Rated output power	1500W	2000W
Power consumption	2000W	3000W
Output way	70V; 100V; 4-16Ω	
Power supply	AC 220V-240V/50Hz-60Hz	
Product dimension	483×471×132mm	
Packing dimension	565×555×225mm	
Net weight	34.1Kg	40.8Kg
Gross weight	36.4Kg	48.6Kg

Pre-amplifier

GX-PB1401

Connect mode

Pure Post-amplifier Interface
Fuse
Digital regulator/DVD Player Interface
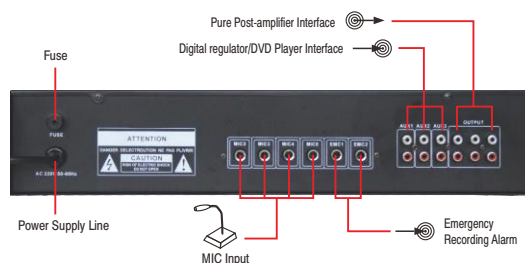
Power Supply Line
MIC Input
Emergency Recording Alarm

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- With USB interface, support U disk to access
- Has 5 input MICs, MIC 1 has priority function; The volume of each channel can be adjusted individually.
- Has 3 input channels, connect with sound source signal; The volume of each channel can be adjusted individually.
- Has 2 input emergency channel, connect with emergency recording alarm
- 3 line output, can be connected to other amplifiers to expand the power.
- Microphone input and line input support mixed output(except MIC 1 input)
- With treble and bass adjustment
- Adjustment with mute bottom,; with bell reminder function

Technical Parameters

Model	GX-PB1401
MIC input	600Ω 1.8mv,imbalance
Input	10kΩ, 200mv,imbalance
Output	600Ω, 1V 0dBV
Frequency response	15Hz~16KHz
SNR	MIC:65dB AUX:85dB
Tone adjustment	BASS:+10dB@100Hz TREBLE:+10dB@15KHz
Power supply	AC 220V~240V/50Hz~60Hz
Product dimension	484x338x88mm
Packing dimension	560x430x370mm
Net weight	4.58Kg
Gross weight	5.70Kg

Recording Alarm Generator

GX-PB1402

Connect mode

Fuse
DVD Player Interface

Power Supply Line
MIC Input
Short Circuit Alarm Input
Pre-amplifier Interface
5-zone Pre-amplifier Interface

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- When there is an alarm short-circuit signal, the alarm can be automatically triggered, with 2 types of sound sources for optional built-in siren or curing recording.
- After the alarm is automatically triggered, the alarm will stop when the alarm signal disappears
- After the alarm is automatically triggered, the alarm signal disappears and the STOP button is manually pressed to stop the alarm sound
- 3 types of alarm audio: 1 microphone recording input line, 1 recording input line, and built-in siren audio
- With 1 minute digital recording and 1 alarm signal output; With automatic and manual function
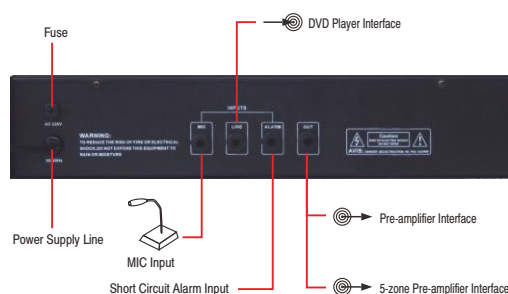
Technical Parameters

Model	GX-PB1402
MIC input	10Mv (-54Dbv), 600ohms(Ω), imbalance
Input	250Mv (-54Dbv), 10Kohms(Ω), imbalance
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	485x339x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	4.61Kg
Gross weight	5.72Kg

Digital Tuner

GX-PB1403

Connect mode

Access 5-zone Pre-amplifier
or Pre-amplifier

Am Antenna
FM Antenna 75 Ω Input

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- Equipped with high brightness dynamic VFD LCD, the display content is clear and eye-catching.
- Stereo two band reception: Am or FM
- With radio frequency automatic search and storage function and power-off memory function
- AM and FM two groups of receiving antenna input
- 1 channel audio signal stereo audio output
- Support remote control
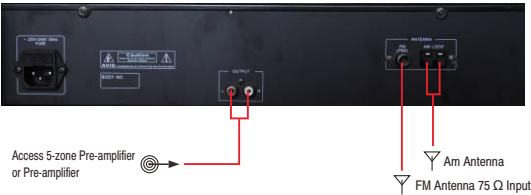
Technical Parameters

Model	GX-PB1403
Output frequency range	20-20KHz
SNR	>80 dB
Frequency range	AM 522kHz-1620kHz FM 87.5MHz-108MHz
Number of stations	99
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	485x339x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	3.89Kg
Gross weight	5.18Kg

DVD player

GX-PB1404

Connect mode

Fuse

Video Display
Access 5-zone Pre-amplifier or Pre-amplifier

Power Supply Line

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- Equipped with high brightness dynamic VFD LCD, the display content is clear and eye-catching.
- Adopt imported digital movement, with super error correction function
- Automatic playback control, full digital servo, super shock resistance
- Support CD, VCD, MP3, DVD and other formats
- 1 channel stereo audio output; 1 channel video signal output
- With USB interface, support U disk to access
- Support remote control

Technical Parameters

Model	GX-PB1404
Output frequency range	20-20KHz
SNR	>80 dB
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	485x339x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	4.06Kg
Gross weight	5.28Kg

Power Supply Sequencer

Connect mode

Short Circuit Signal Interface

Power Supply Line

Powered Devices Interface

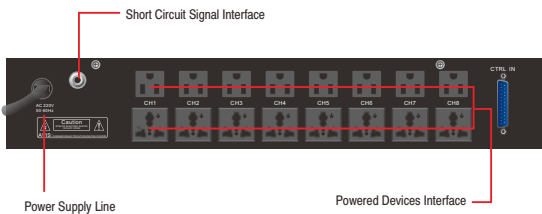## Features

■ Standard 2U chassis, aluminum panel, convenient and beautiful
■ With 8-bit LED indicator, it is easy to know the the channel status.
■ 8 groups of 16 channels power outputs, with each output AC220V
■ Equipped with electronic lock switch, with manual and automatic modes
■ 8 groups of 16 channels power sockets are connected or disconnected in turn with 1second response.
■ The total capacity of power socket is 6 kVA.
■ 1 short circuit fire-fighting signal input interface; support timer, intelligent controller connection, so as to realize automatic control
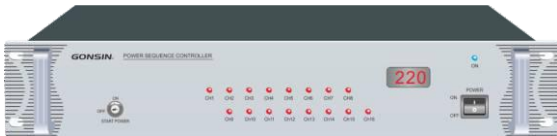■ 1 short circuit trigger signal input

Technical Parameters

Model	GX-PB1405
Total capacity	6 KVA
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	50W
Product dimension	484x335x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	5.19Kg
Gross weight	6.37Kg

Power Supply Sequencer

Connect mode

Short Circuit Signal Interface

Power Supply Line

Powered Devices Interface

Features

■ Standard 2U chassis, aluminum panel, convenient and beautiful
■ With 8-bit LED indicator, it is easy to know the the channel status.
■ 16 channels power outputs, with each output AC220V
■ Equipped with electronic lock switch, with manual and automatic modes
■ 16 channels power sockets are connected or disconnected in turn with 1second response.
■ The total capacity of power socket is 6 kVA.
■ 1 short circuit fire-fighting signal input interface; support timer, intelligent controller connection, so as to realize automatic control
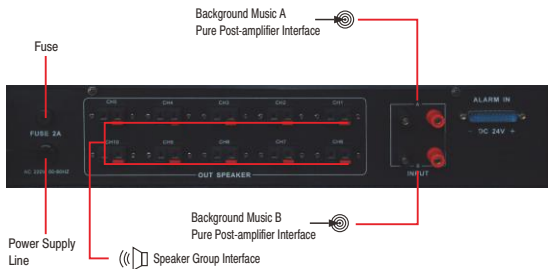■ 1 short circuit trigger signal input
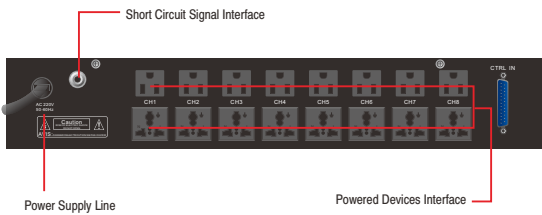
Technical Parameters

Model	GX-PB1406
Total capacity	6 KVA
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	50W
Product dimension	484x335x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	5.19Kg
Gross weight	6.37Kg

10-zone matrix

GX-PB1407

Connect mode

Fuse

Background Music A
Pure Post-amplifier Interface

ALARM IN
DC 24V

Background Music B
Pure Post-amplifier Interface

Power Supply
Line

Speaker Group Interface

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- Support 2 channel power amplifier input and 10 channel group output
- A-channel power amplifier output in 1-5 zones ; B-channel power amplifier output inl 6-10 zones.
- AB input terminals can be connected in parallel to control 1-10 zone output
- 10 zones with independent sound control and status indicator
- 1 short circuit fire-fighting signal input interface; support timer, intelligent controller connection, so as to realize automatic control
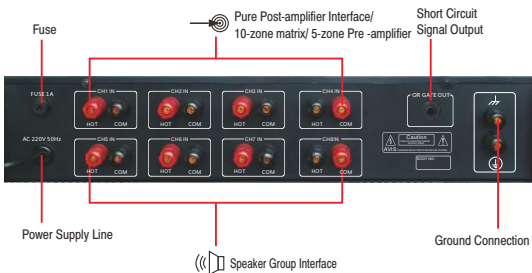
Technical Parameters

Model	GX-PB1407
Total power of zones	≤3KW
Power of each zone	≤700W
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	485x339x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	4.55Kg
Gross weight	5.79Kg

Digital Arrester

GX-PB1408

Connect mode

Fuse

Pure Post-amplifier Interface/
10-zone matrix/ 5-zone Pre -amplifier

Short Circuit
Signal Output

Power Supply Line

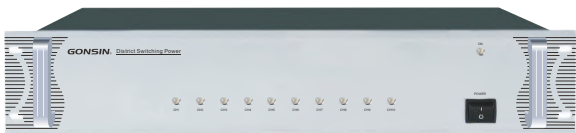Speaker Group Interface

Ground Connection

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- With lightning protection, overvoltage protection and leakage protection functions
- Automatically cut off the output when lightning strikes to protect the downstream equipment
- With 4 independent input connection power amplifier
- With 4 groups of independent outputs connected to speaker groups
- 1 set of grounding lines connected to other equipment shells
- 1 set of grounding circuit output is connected to the earth, and the lightning is automatically introduced into the earth
- 1 alarm output 0V(short circuit)
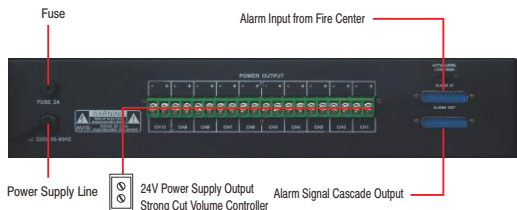
Technical Parameters

Model	GX-PB1408
Threshold voltage	280V
Leakage protection current	≥10mA
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	485x339x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	7Kg
Gross weight	8Kg

District Switching Power

GX-PB1409

Connect mode

Fuse

Alarm Input from Fire Center

Power Supply Line

24V Power Supply Output
Strong Cut Volume Controller

Alarm Signal Cascade Output

Features

- Standard 2U chassis, aluminum panel, convenient and beautiful
- 10 channels alarm signal output, 10 channels alarm connection output
- 10 channels 24DC power output with alarm control.
- Support driving strong switching strong cut tone controller with 24V
- The alarm control zone can be expanded to 120.
- Support short circuit alarm and 24V alarm

Technical Parameters

Model	GX-PB1409
Alarm input	10channels
Control output	10channels;canbeexpandedto120
Power supply	AC 220V-240V/50Hz-60Hz
Power consumption	15-20W
Product dimension	484x316x88mm
Packing dimension	560x430x370mm(2PCS)
Net weight	5.87Kg
Gross weight	7.19Kg

Microphone with chime

GX-PB1410

Features

- Pre-announcement chime; Adjustable volume
- With light ring indicator light, microphone status is clear to know.
- Equipped with high-fidelity circuit, high-quality electret head, with clear sound effect

Technical Parameters

| Model	GX-PB1410
Energy exchange mode	Electret
Directivity	Cardioid
Frequency Response	40~16000Hz
Sensitivity	-43dB±2dB
Pre-announcement Sensitivity	-50dB±2dB
Audio cable length	10m
SNR	66dB
Power supply	DC 9V/AC 12V,DC 3V/AC 220V (Automatic manual switch)
Net weight	2Kg

◈ Ceiling Speaker

GX-SP105B

Power taps	20/10/5/2.5W/8Ω
Line voltage	100V/70V
Sensitivity (1m,1W)	88dB
Frequency response	100~20kHz
Dimension (mm)	Φ203*145
Hole for mounting	Φ170
Material(panel)	ABS
Material(cover)	IRON
Weight(kg)	1.7

GX-SP106B

Power taps	30/15/7.5/3.8W/8Ω
Line voltage	100V/70V
Sensitivity (1m,1W)	88dB
Frequency response	90~20kHz
Dimension (mm)	Φ230*150
Hole for mounting	Φ200
Material(panel)	ABS
Material(cover)	IRON
Weight(kg)	2.2
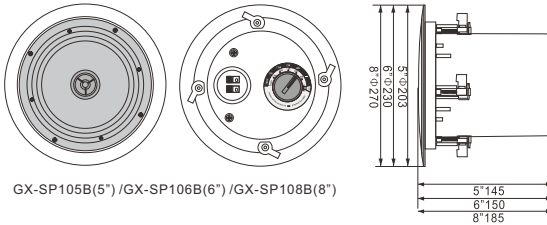
GX-SP105B(5") /GX-SP106B(6") /GX-SP108B(8")

5"Φ203
6"Φ230
8"Φ270

5"145
6"150
8"185

GX-SP108B

Power taps	40/20/10/5W/8Ω
Line voltage	100V/70V
Sensitivity (1m,1W)	88dB
Frequency response	50~20kHz
Dimension (mm)	Φ270*185
Hole for mounting	Φ240
Material(panel)	ABS
Material(cover)	IRON
Weight(kg)	3.1

GX-SP105DP

Rated power	20W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	100~20kHz
Dimension (mm)	Φ203*80
Hole for mounting	Φ170
Material	ABS
Weight(kg)	1.25

GX-SP106DP

Rated power	30W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	90~20kHz
Dimension (mm)	Φ230*90
Hole for mounting	Φ200
Material	ABS
Weight(kg)	1.6

GX-SP108DP

Rated power	40W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	50~20kHz
Dimension (mm)	Φ270*105
Hole for mounting	Φ240
Material	ABS
Weight(kg)	2.1

5"Φ203
6"Φ230
8"Φ270

5" 80
6" 90
8" 105
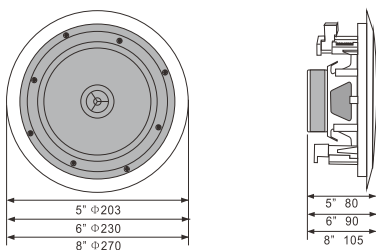
GX-SP105DP(5") /GX-SP106DP(6") /GX-SP108DP(8")

GX-SP104EP

Rated power	6W
Line voltage	100V
Sensitivity (1m,1W)	90dB
Frequency response	110~15kHz
Dimension (mm)	Φ180*50
Hole for mounting	Φ155
Material	IRON
Weight(kg)	0.65

GX-SP105EP

Rated power	6W
Line voltage	100V
Sensitivity (1m,1W)	90dB
Frequency response	110~15kHz
Dimension (mm)	Φ200*67
Hole for mounting	Φ170
Material	IRON
Weight(kg)	0.7
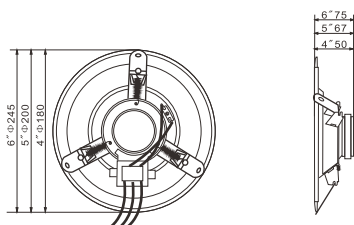
GX-SP104EP(4") /GX-SP105EP(5") /GX-SP106EP(6")

GX-SP106EP

Rated power	6W
Line voltage	100V
Sensitivity (1m,1W)	90dB
Frequency response	110~15kHz
Dimension (mm)	Φ245*75
Hole for mounting	Φ225
Material	IRON
Weight(kg)	1

GX-SP106FP

Rated power	6W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	100~18kHz
Dimension (mm)	Φ200*90
Hole for mounting	Φ175
Material(panel)	IRON
Material(cover)	IRON
Weight(kg)	0.9

GX-SP103GP

Rated power	6W
Line voltage	100V
Sensitivity (1m,1W)	87dB
Frequency response	120~20kHz
Dimension (mm)	Φ103*80
Hole for mounting	Φ95
Material	ABS
Weight(kg)	0.4
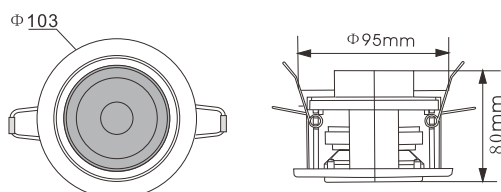
Wall In Fitted Speaker

GX-SP105HR(5")   GX-SP105HP(5")
GX-SP106HR(6")   GX-SP106HP(6")
GX-SP108HR(8")   GX-SP108HP(8")
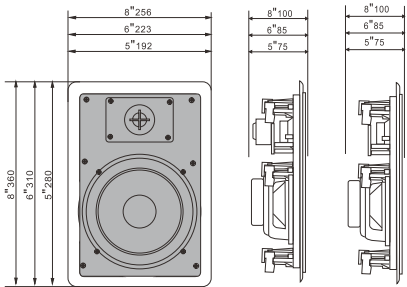
GX-SP105HR

Max/Rated power	40/20W
Impedance	8Ω
Sensitivity (1m,1W)	88dB
Frequency response	90~20kHz
Dimension(mm)	280*192*75
Hole for mounting	250*160
Material	ABS
Weight (kg)	1.3

GX-SP106HR

Max/Rated power	60/30W
Impedance	8Ω
Sensitivity (1m,1W)	88dB
Frequency response	80~20kHz
Dimension(mm)	310*223*85
Hole for mounting	270*190
Material	ABS
Weight (kg)	1.8

GX-SP108HR

Max/Rated power	80/40W
Impedance	8Ω
Sensitivity (1m,1W)	88dB
Frequency response	40~20kHz
Dimension(mm)	360*256*100
Hole for mounting	325*220
Material	ABS
Weight (kg)	2.2

GX-SP105HP

Rated power	20W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	90~20kHz
Dimension(mm)	280*192*75
Hole for mounting	250*160
Material	ABS
Weight (kg)	1.5

GX-SP106HP

Rated power	30W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	80~20kHz
Dimension(mm)	310*223*85
Hole for mounting	275*190
Material	ABS
Weight (kg)	2

GX-SP108HP

Rated power	40W
Line voltage	100V
Sensitivity (1m,1W)	88dB
Frequency response	40~20kHz
Dimension(mm)	360*256*100
Hole for mounting	325*220
Material	ABS
Weight (kg)	2.7

◆ Fashion Speaker

GX-SP204B/W

Power taps	20/10/5/2.5 W/8Ω
Line voltage	100V/70V
Sensitivity (1m,1W)	89dB
Frequency response	90~20kHz
Dimension (mm)	210*130*127
Material	HIPS
Weight(kg)	2.1

212

130

125
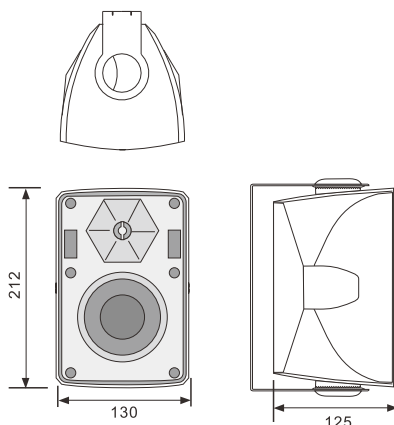
GX-SP205B/W

Power taps	3.75/7.5/15/30W /8Ω
Line voltage	70V/100V
Sensitivity (1m,1W)	88dB
Frequency response	90~20kHz
Dimension (mm)	255*178*155
Material	HIPS
Weight(kg)	3.1
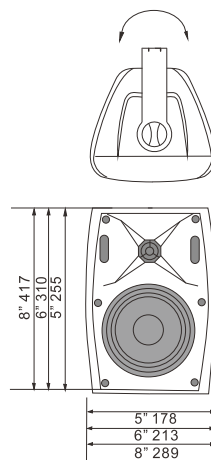
GX-SP206B/W

Power taps	5/10/20/40W /8Ω
Line voltage	70V/100V
Sensitivity (1m,1W)	87dB
Frequency response	90~20kHz
Dimension (mm)	310*213*195
Material	HIPS
Weight(kg)	3.7

8" 417
6" 310
5" 255

5" 178
6" 213
8" 289
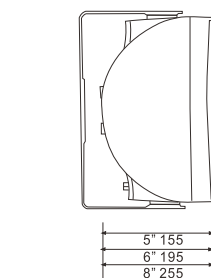
GX-SP208B/W

Power taps	7.5/15/30/60W /8Ω
Line voltage	70V/100V
Sensitivity (1m,1W)	88dB
Frequency response	40~20kHz
Dimension (mm)	417*289*255
Material	HIPS
Weight(kg)	6.6

5" 155
6" 195
8" 255

GX-SP205B/W(5")
GX-SP206B/W(6")
GX-SP208B/W(8")

◈ Indoor Column Speaker

Mounting bracket

COM 70V 100V

GX-SP320A   GX-SP330A   GX-SP340A
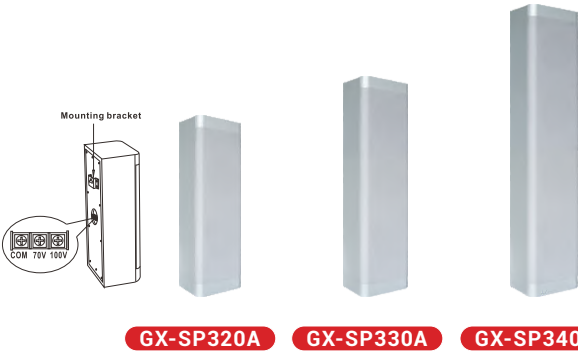
Model	GX-SP320A	GX-SP330A	GX-SP340A
Rated power	20W	30W	40W
Line voltage	100V/70V	100V/70V	100V/70V
Sensitivity (1m,1W)	92dB	93dB	94dB
Frequency response	130~15kHz	130~15kHz	130~15kHz
Dimension (mm)	360*160*115	485*160*115	610*160*115
Material	M.D.F	M.D.F	M.D.F
Weight(kg)	3	4	5

◈ Outdoor Column Speaker

GX-SP310B   GX-SP320B   GX-SP330B   GX-SP340B   GX-SP350B   GX-SP360B
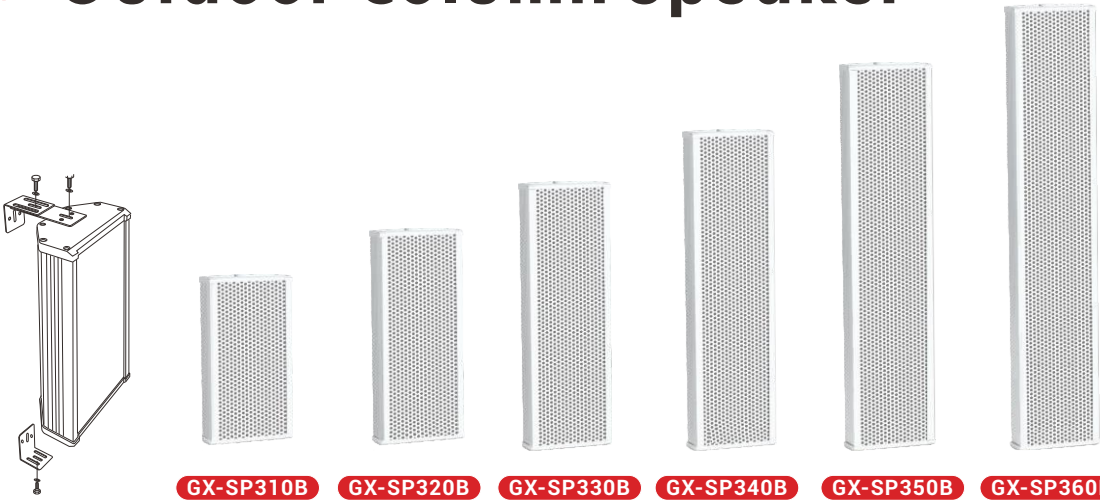
Model	GX-SP310B	GX-SP320B	GX-SP330B	GX-SP340B	GX-SP350B	GX-SP360B
Max/Rated power	20W/10W	40W/20W	60W/30W	80W/40W	100W/50W	120W/60W
Line voltage	100V	100V	100V	100V	100V	100V
Sensitivity (1m,1W)	93dB	94dB	95dB	96dB	97dB	98dB
Frequency response	140~15kHz	140~15kHz	140~15kHz	140~15kHz	140~15kHz	140~15kHz
Dimension (mm)	304*227*125	520*227*125	736*227*125	952*227*125	1168*227*125	1384*227*125
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Weight(kg)	3.2	5	6.8	8.6	10.5	12.5
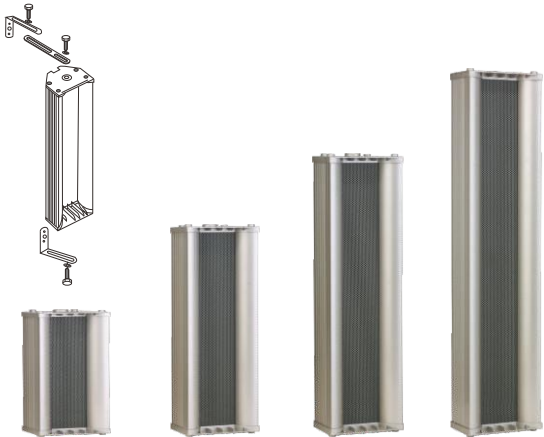
Model	GX-SP310C	GX-SP320C	GX-SP330C	GX-SP340C
Rated power	10W	20W	30W	40W
Line voltage	100V	100V	100V	100V
Sensitivity (1m,1W)	89dB	92dB	93dB	94dB
Frequency response	100~20kHz	100~20kHz	100~20kHz	100~20kHz
Dimension (mm)	258*151*125	378*151*125	498*151*125	618*151*125
Material	Aluminium	Aluminium	Aluminium	Aluminium
Weight(kg)	2.2	3.0	4.0	4.8

GX-SP310C   GX-SP320C   GX-SP330C   GX-SP340C

| GX-SP310D | GX-SP320D | GX-SP330D | GX-SP340D |

Model	GX-SP310D	GX-SP320D	GX-SP330D	GX-SP340D
Max/Rated power	15W/10W	30W/20W	45W/30W	60W/40W
Line voltage	100V	100V	100V	100V
Sensitivity (1m,1W)	88dB	91dB	92dB	93dB
Frequency response	100~15kHz	100~15kHz	100~15kHz	100~15kHz
Dimension (mm)	253*152*100	375*152*100	493*152*100	613*152*100
Material	Aluminium	Aluminium	Aluminium	Aluminium
Weight(kg)	1.6	2.5	3.3	4

◈ Wall Mounted Speaker
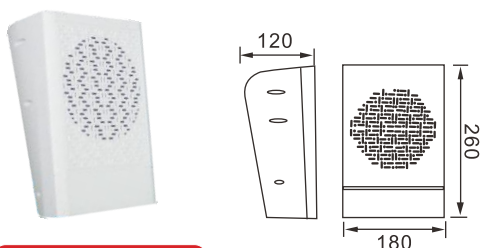
GX-SP306E/310E

Model	GX-SP306E	GX-SP310E
Rated power	6W	10W
Line voltage	100V	100V
Sensitivity (1m,1W)	92dB	92dB
Frequency response	150~15kHz	150~15kHz
Dimension(mm)	260*180*120	260*180*120
Material	HIPS	HIPS
Weight (kg)	1	1.1
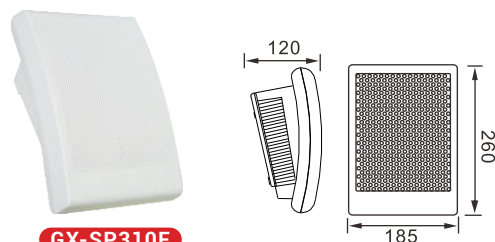
GX-SP310F

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	150~15kHz
Dimension(mm)	260*185*120
Material	HIPS
Weight (kg)	1.3

GX-SP310G

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	150~15kHz
Dimension(mm)	275*182*120
Material	HIPS
Weight (kg)	1.4
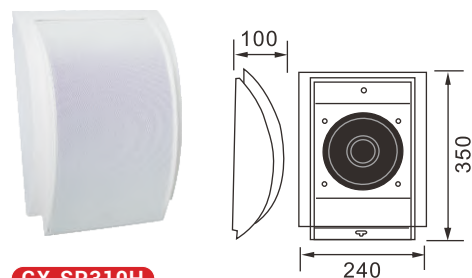
GX-SP310H

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	150~15kHz
Dimension(mm)	350*240*100
Material	HIPS
Weight (kg)	1.7

◆ Hanging Speaker
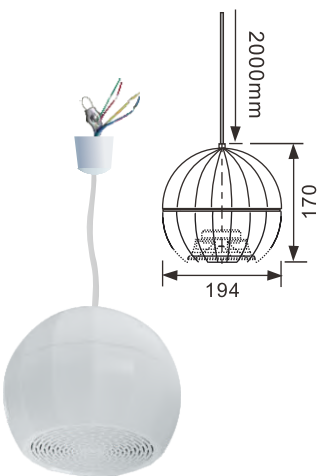
GX-SP410A

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	150~15kHz
Dimension (mm)	Φ180
Material	HIPS
Weight(kg)	1
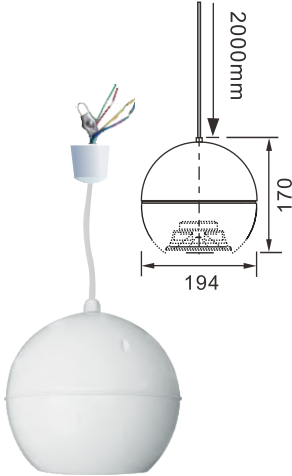
GX-SP410B

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	150~15kHz
Dimension (mm)	Φ180
Material	HIPS
Weight(kg)	1.1
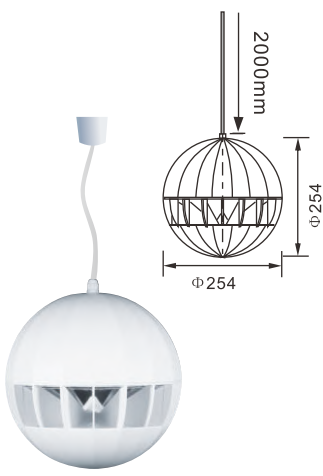
GX-SP410C

Rated power	20W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	80~18kHz
Dimension (mm)	Φ254
Material	ABS
Weight(kg)	2.2
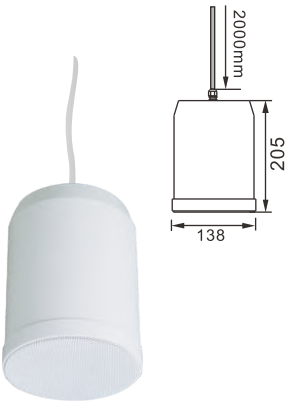
GX-SP410D

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	91dB
Frequency response	130~15kHz
Dimension (mm)	Φ138*205
Material	ABS
Weight(kg)	1.3
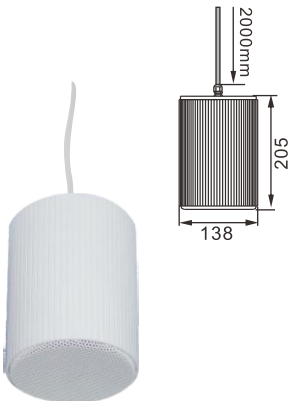
GX-SP410E

Rated power	10W
Line voltage	100V
Sensitivity (1m,1W)	91dB
Frequency response	130~15kHz
Dimension (mm)	Φ138*205
Material	Aluminium
Weight(kg)	2
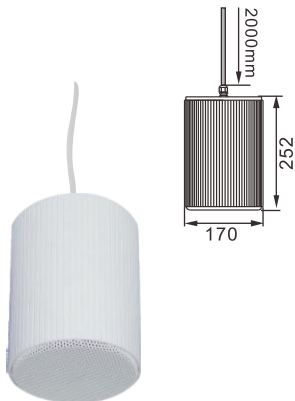
GX-SP420E

Rated power	20W
Line voltage	100V
Sensitivity (1m,1W)	92dB
Frequency response	110~15kHz
Dimension (mm)	Φ170*252
Material	Aluminium
Weight(kg)	2. 8

◗ Projector Speaker

GX-SP510A/520A
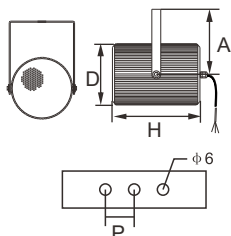
Model	GX-SP510A	GX-SP520A
Rated power	10W	20W
Line voltage	100V	100V
Sensitivity (1m,1W)	91dB	92dB
Frequency response	130~15kHz	110~15kHz
Dimension D*H(mm)	Φ138*205	Φ170*252
Installation hole spacing P(mm)	30	60
Support length A(mm)	130	184
Material	Aluminium	Aluminium
Weight (kg)	2	2.8

GX-SP510B/520B
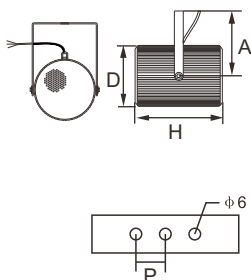
Model	GX-SP510B	GX-SP520B
Rated power	10W	20W
Line voltage	100V	100V
Sensitivity (1m,1W)	91dB	92dB
Frequency response	130~15kHz	110~15kHz
Dimension D*H(mm)	Φ138*205	Φ170*252
Installation hole spacing P(mm)	30	60
Support length A(mm)	130	184
Material	Aluminium	Aluminium
Weight (kg)	2.4	3.4

GX-SP615/630/650
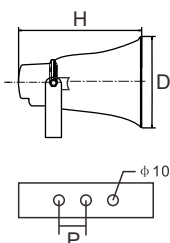
Model	GX-SP615	GX-SP630	GX-SP650
Rated power	15W	30W	50W
Line voltage	100V	100V	100V
Sensitivity (1m,1W)	106dB	107dB	109dB
Frequency response	450~5kHz	380~6.5kHz	380~6.5kHz
Dimension D*H(mm)	Φ200*230	Φ246*292	Φ325*350
Installation hole spacing P(mm)	25	50	50
Material	Aluminium	Aluminium	Aluminium
Weight (kg)	1.3	2.1	2.3

GX-SP6100
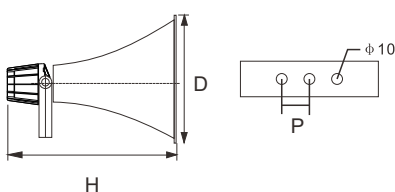
Rated power	100W
Line voltage	100V
Sensitivity (1m,1W)	110dB
Frequency response	150~6kHz
Dimension D*H(mm)	Φ504*539
Installation hole spacing P(mm)	50
Material	Aluminium
Weight (kg)	5.1

◆ Garden Speaker

GX-SP712A

Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	220×210×230 mm
Carton dimension	243×230×245mm
Net weight	3.0±0.3kg
Gross weight	3.4±0.3kg

GX-SP712B

Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	200×210×210mm
Carton dimension	233×213×245mm
Net weight	3.0±0.3 kg
Gross weight	3.5±0.3 kg

GX-SP712C

Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	230×210×255 mm
Carton dimension	257×220×295mm
Net weight	3.0±0.3 kg
Gross weight	3.4±0.3 kg

GX-SP713B

Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	370×290×260 mm
Carton dimension	390×310×320mm
Net weight	4.9±0.5kg
Gross weight	5.4±0.5kg

GX-SP713D

Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	470×310×280 mm
Carton dimension	485×325×320mm
Net weight	4.5±0.5 kg
Gross weight	5.0±0.5 kg

GX-SP713G

Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	340×265×275 mm
Inner carton size	345×265×290mm
Outer carton size	360×280×315 mm
Net weight	4.2±0.4 kg
Gross weight	5.4±0.5 kg

GX-SP713J

Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	385×265×445 mm
Carton dimension	395×280×495mm
Net weight	6.5±0.7kg
Gross weight	7.7±0.7kg

GX-SP713K

Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	410×380×335mm
Inner carton size	410×380×350mm
Outer carton size	425×395×375mm
Net weight	7.6±0.8kg
Gross weight	9.3±0.9Kg

GX-SP713L

Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	470×430×540 mm
Inner carton size	480×440×555mm
Outer carton size	495×455×580mm
Net weight	8.2±0.8 kg
Gross weight	9.0±0.9 kg

GX-SP714A

Speaker Size	6.5 " Bass × 2, 2 " Treble
Rated power	40W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	335×273×510 mm
Outer carton size	350×280×540mm
Net weight	6.0±0.6 kg
Gross weight	6.5±0.7 kg

GX-SP714B

Speaker Size	5.25 " waterproof coaxial × 2
Rated power	40W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	335×273×510 mm
Outer carton size	350×280×540mm
Net weight	6.2±0.6kg
Gross weight	6.7±0.7 kg

GX-SP715B

Speaker Size	8 " Bass 2 " Treble
Rated power	50W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	590×320×285 mm
Outer carton size	610×325×325mm
Net weight	9.0±0.9 kg
Gross weight	10±1.0 kg

GX-SP715C

Speaker Size	8 " Bass, 2 " Treble
Rated power	50W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	700×380×335 mm
Outer carton size	720×380×370mm
Net weight	10.6±1.1 kg
Gross weight	12±1.2 kg

GX-SP718A

Speaker Size	8 " Bass, 2 " Treble × 2
Rated power	80W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	610×345×370 mm
Outer carton size	630×365×415mm
Net weight	15±1.5 kg
Gross weight	16.2±1.5 kg
Two azimuth playback	

GX-SP718C

Speaker Size	6.5 " waterproof coaxial × 4
Rated power	80W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	760×685×400 mm
Outer carton size	780×700×415mm
Net weight	23±2.3 kg
Gross weight	25±3 kg
Four azimuth playback	

◆ Cartoon Speaker

GX-SP721A

Shape	Squirrel
Speaker Size	4 " waterproof coaxial
Rated power	10W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	290×275×470mm
Inner carton size	295×285×485MM
Outer carton size	310×300×510MM
Net weight	5.3±0.5kg
Gross weight	7.2±0.7kg

GX-SP722C

Shape	Panda
Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	415×375×460MM
Outer carton size	430×390×485MM
Net weight	5.1±0.5kg
Gross weight	7.7±0.8kg

GX-SP722E

Shape	Spotted dog
Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	340×335×525mm
Inner carton size	350×345×530MM
Outer carton size	365×360×555MM
Net weight	5.7±0.6kg
Gross weight	7.7±0.7kg

GX-SP722F

Shape	Penguin
Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	370×305×415mm
Inner carton size	380×320×425MM
Outer carton size	395×335×450MM
Net weight	5.3±0.5kg
Gross weight	7.2±0.7kg

GX-SP732A

Shape	Tree
Speaker Size	5.25 " waterproof coaxial
Rated power	20W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	φ 425×300 mm
Inner carton size	410×385×310MM
Outer carton size	425×400×335MM
Net weight	5.5±0.6kg
Gross weight	7.5±0.8kg

GX-SP732B

Shape	Stump
Speaker Size	6.5 "
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	380×375×305mm
Inner carton size	385×380×310mm
Outer carton size	400×395×335mm
Net weight	4.3±0.4Kg
Gross weight	6. 8±0. 7Kg

GX-SP732C

Shape	Mushroom
Speaker Size	6.5 " waterproof coaxial
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	φ 420×450
Outer carton size	435×420×460mm
Net weight	4.8±0.5kg
Gross weight	7.1±0.7kg
360° play	

GX-SP733AG/AR/AY

Shape	Mushroom
Speaker Size	3×5 " ×2, 2 " ×2
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Material	Glass steel
colour	Green/Red/Yellow
Speaker Size	φ 370×395mm
Outer carton size	450×400×400mm
Net weight	5.4±0.5kg
Gross weight	6.8±0.7kg
360° play	

GX-SP743B

Speaker Size	6.5 "
Rated power	30W
Speaker input	70/100V
Speaker cable	50CM
Protection grade	IP 44
Speaker Size	φ 320×365
Net weight	6.5 ±0.5Kg
360° play	

◆ Lighting Speaker

GX-SP781C

Speaker Size	4 " coaxial
power	10W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	250×250×510 mm
Carton size	560×290×285mm
Net weight	6.3±0.6 kg
Gross weight	7.4±0.7 kg

GX-SP781B

Speaker Size	4 " coaxial
power	10W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	φ 220×420mm
Net weight	5.1±0.6 kg

GX-SP781E

Speaker Size	4 " coaxial
power	10W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	160×160×750 mm
Carton size	840×240×245mm
Net weight	6±0.6 kg
Gross weight	7±0.6 kg

GX-SP781J

Speaker Size	4 " coaxial
power	10W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	390×365×735 mm
Carton size	435×405×785mm
Net weight	8.5±0.9kg
Gross weight	9.7±1kg

GX-SP781K

Speaker Size	4 " coaxial
power	10W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	265×265×765 mm
Carton size	315×315×835mm
Net weight	9.5±0.9 kg
Gross weight	11.2±1.0 kg

GX-SP782A

Speaker Size	5.25 " waterproof coaxial
power	20W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	320×320×785mm
Carton size	860×370×320mm
Net weight	6.0±0.6 kg
Gross weight	8±0.7 kg

GX-SP782B

|	
Speaker Size	5.25 " waterproof coaxial
power	20W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	455×375×810mm
Carton size	880×495×450mm
Net weight	9.7±1.0 kg
Gross weight	11.7±1 kg

GX-SP783B

Speaker Size	6.5 " waterproof coaxial
power	30W
Speaker input	70/100V
Speaker cable	50CM
Voltage of light fixture	110/230V
Power of light fixture	≤25W
Lamp base specification	E27
Light fixture cable	50CM
Protection grade	IP 44
Light Bulb	Self-equipped with LED or incandescent lamp
Speaker Size	330×290×700 mm
Carton size	770×395×340mm
Net weight	10±1.0 kg
Gross weight	11.5±1 kg

◆ Volume Controller

GX-VC130/160/1120
GX-VC130T/160T/1120T
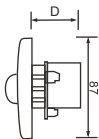
Model	GX-VC130	GX-VC160	GX-VC1120
Rated power	30W	60W	120W
Gear		5	
Material		ABS	
Appearance size		87*87mm	
Depth (D)	40mm	50mm	50mm
Strong insertion function	No	No	No

Model	GX-VC130T	GX-VC160T	GX-VC1120T
Rated power	30W	60W	120W
Gear		5	
Material		ABS	
Appearance size		87*87mm	
Depth (D)	40mm	50mm	50mm
Strong insertion function	Yes	Yes	Yes
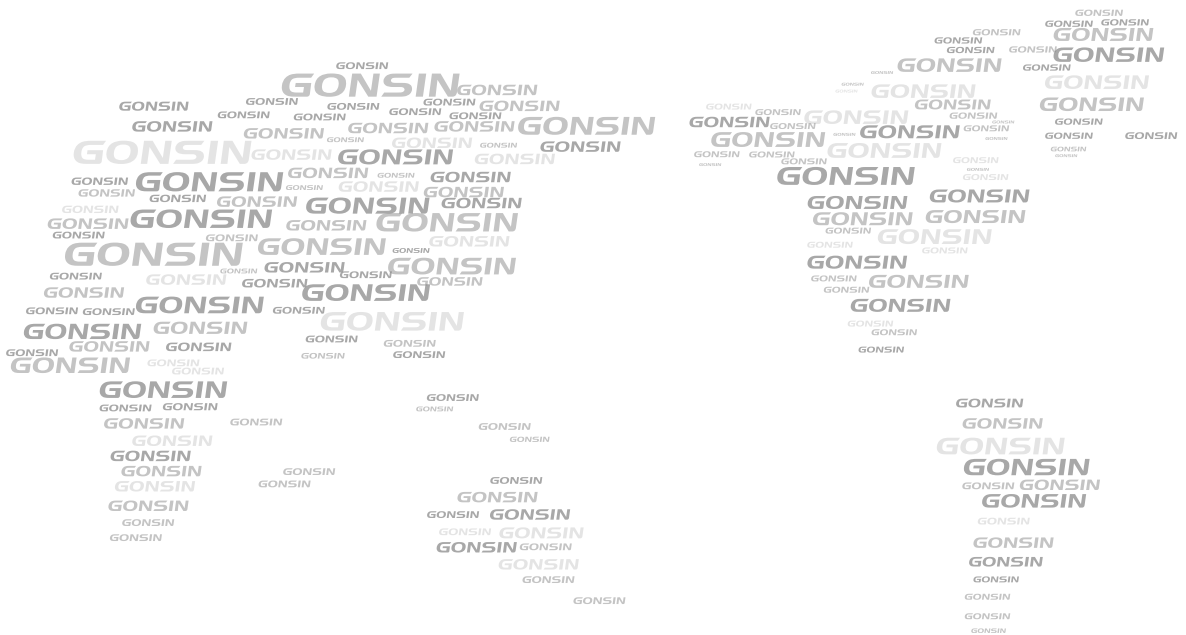
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