

TAKSTAR®

2026-2027

IP NETWORK

PUBLIC ADDRESS SYSTEM

◆ IP Network PA System

◆ Smart Analog Peripherals



COMPANY INTRODUCTION

Established in 1995, Takstar is a renowned Chinese national brand, committed to delivering professional audio processing solutions globally. Our company provides personal audio, professional audio, and engineering application devices and services. With innovative tech and high-quality products, we help users enjoy premium audio experiences and serve as their trusted audio partner.

Integrating R&D, design, manufacturing, sales and service, Takstar possesses a professional domestic electro-acoustic R&D team. As a globally recognized manufacturer, it adheres to independent innovation, upholds its national brand mission, and strives for long-term contributions to the electro-acoustic industry.



**Takstar Industrial Park
covers an area of 30,000m².**



OUR TOP PRIORITY

It is our assignment to guarantee a comfortable audio experience and at the same time provide creative solutions for users all around the world.

COMPANY CHALLENGES

Innovation Procedural Optimization Strict Quality Control Satisfy Customers



**Takstar Innovation Park
covers an area of 180,000m².**



CERTIFICATION

Leveraging a strong foundation in industrial manufacturing and deep reserves in research and development, we focus our technical expertise on key areas such as acoustics, wireless technologies, and human factors engineering. Our capabilities include product design, functional structure development, and electronic circuit engineering. We have been recognized many times as one of Guangdong's Top 500 Manufacturing Enterprises, a National High-Tech Enterprise, and a National Intellectual Property Advantaged Enterprise.

We have successfully achieved certification to **ISO 9001**, **SA 8000**, **ISO 45001** and **ISO 14001** quality and environmental management systems to ensure safe and healthy development of our products, operations and people. In addition, our assets, business continuity and IT service management have been certified against international/national standards, demonstrating our commitment to operational excellence across the organization.



ISO 14001:2015
Environmental Management



SA 8000:2014
Social Responsibility



ISO 9001:2015
Quality Management



ISO 45001:2018
Occupational Health & Safety



ISO 55001:2014
Assets Management



GB/T 23794-2015



GB/T 31950-2015



ISO/IEC 27001:2013



ISO 28000:2007



ISO/IEC 20000-1:2018



GB/T 30146-2013



GB/T 27922-2011



RoHS



BQB Certification



FCC



CE



UKCA Certification

CORPORATE HONORS



Workshop Facilities

Takstar's manufacturing base has processing and production capabilities including a central laboratory, a soundproof B&K anechoic chamber, as well as various workshops for SMT, wireless electronics, professional condenser microphones, cartridges, speaker cabs, diecast metal parts, printing and packaging. We make good use of over 10,000 sets of advanced manufacturing and automated production equipment, over 500 sets of advanced testing equipment, a modern ERP system and state-of-the-art quality control.

Right now, our team surpasses a number of 2,500 technicians who serve in each business field and more than 100 top-level R&D engineers. Our products range from microphones of various kinds up to headphone amps, integrated applications and audio systems, all with huge annual production capacities.



Production Line



SMT Workshop



Dust-Free Capsule Workshop



Wave Soldering Machine



CNC Horizontal Injection Molding Machine



High-Accuracy CNC Lathe



CNC Horizontal Die-Casting Machine



Full Automatic Ultrasonic Cleaning Line



Dust-Free Automatic Spray-Painting Flow Line



Automatic Pressing Machine



Automatic Screwing Machine



Laser Marking Machine

Testing Equipment

Takstar has established strict quality management in accordance to ISO9001:2015. The central laboratory of over 400 sq. meters has 100+ professional QC staff working with advanced testing equipment and utilizing different, highly demanding ways of scientific inspection.

Not only does that cover electro-acoustic testing, but also tests for environmental protection, reliability and electromagnetic interference as well as multiple state-of-the-art anechoic chambers and highly advanced Danish B&K / American AP test systems to guarantee premium-quality audio properties of our products.

Starting with incoming stock material, everything is checked in a strict step-by-step manner by our QC staff: purchase of raw material, component processing, manufacturing, storage and, finally, product delivery.



Anechoic Chamber



Central Laboratory



Audio Precision



B&K Analyzer



Electroacoustic Instrument



X-Ray Fluorescence Tester



3D Measuring Instrument



Temperature & Humidity Testing Machine



Drop Test Equipment



Bluetooth Headset Acoustic Auto-Test System



Bluetooth Headset RF Auto-Test System



Bluetooth Basic Function Test System

IT IS OUR ASSIGNMENT TO GUARANTEE A COMFORTABLE AUDIO EXPERIENCE AND AT THE SAME TIME PROVIDE CREATIVE SOLUTIONS FOR USERS ALL AROUND THE WORLD.





CONTENTS

◆ Solution	001
◆ SG Series	015
◆ MG Series	030



Solution



Application



Campus



Hotel/Building



Park



Commercial Complex

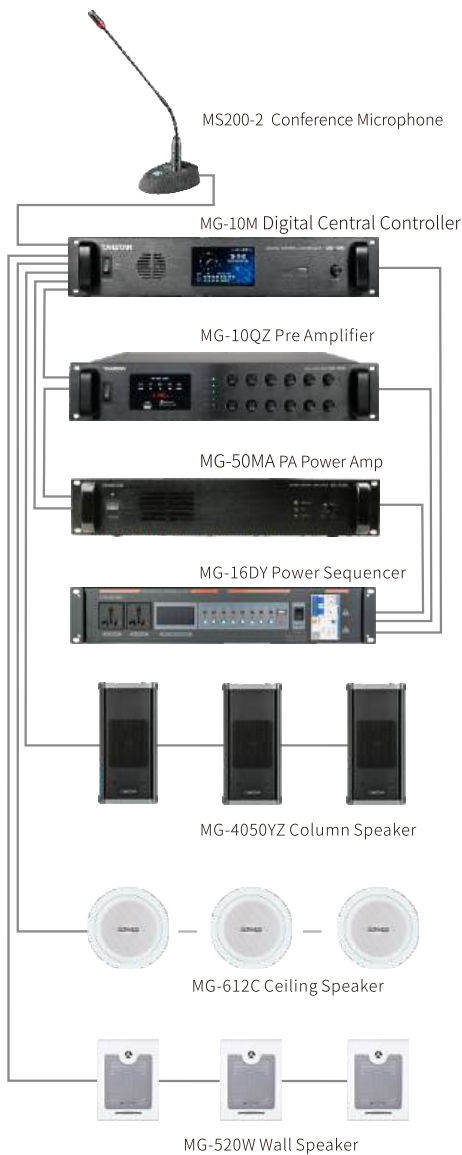


Prison



Village

System Deployment



Application

Shopping mall, community, station, school, park, enterprise



Campus PA System

Function Description

Conference Mic

Low feedback; red ring status LED; screw-on gooseneck; mute switch; dual power supply (battery/phantom power, auto detect).

Digital Central Controller

Microcomputer control, single jog wheel, graphical UI, multi-level tree menu. Supports programmable scheduled task for fully automatic power on/off and PA zone management. Built-in HD FM radio, FM 88-108MHz with FM recording function.

Pre Amplifier

MP3 decoding, FM radio; USB/SD card media playback; convenient remote control; 2CH MIC IN, 2CH LINE IN, 1CH AUX OUT.

16-Channel Power Sequencer

Controllable output delay time; 16 controllable channels + 2 bypass channels; 8 independent switches; 30A max current per channel; RCD protection; one-button bypass function; USB port (compatible with LED lights); per-channel LED indicators; real-time voltage display; high-quality universal sockets.

Ceiling Speaker

Full range speaker cone, transparent tone, flat frequency response. Powerful clip for quick and convenient installation.

Power Amplifier

Advanced high-efficiency amplifying circuit, high output power, strong load capacity. Newly designed fan cooling system for reliable performance. RCA/XLR connectors, adjustable volume.

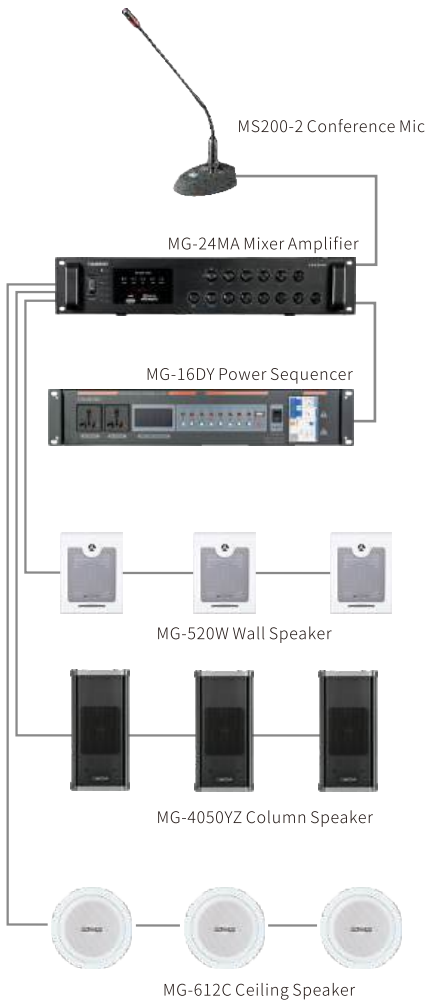
Outdoor Column Speaker

Rugged, waterproof, UV-resistant Aluminum enclosure. Transparent tone, exquisite contour, professional dust-proof design.

Recommended Configuration

Application	Type	Model
■ Campus	Digital Central Controller	MG-10M
	Pre Amplifier	MG-10QZ
	Power Amplifier	MG-50MA
	Power Sequencer	MG-16DY
	Wall Speaker	MG-520W
	Outdoor Column Speaker	MG-4050YZ
	Ceiling Speaker	MG-612C
	Conference Microphone	MS200-2

System Deployment



Application

Hotel, shopping mall



Mall PA System

Function Description

Conference Mic

Low feedback; red ring status LED; screw-on gooseneck; mute switch; dual power supply (battery/phantom power, auto detect).

Mixer Amplifier

6 independent zone outputs with individual volume control and 100V output voltage. 2 auxiliary (AUX) line inputs, 1 emergency (EMC) input, 2 mic inputs and 1 auxiliary output for cascading with the next power amplifier. All inputs feature bass, treble & independent volume control. Mic 1 and EMC input with top priority for muting other signals. Built-in wireless playback/MP3 module for easy mobile program streaming. Multi-indicator light display; AC voltage fluctuation protection including over-voltage and under-voltage protection.

Ceiling Speaker

Full range speaker cone, transparent tone, flat frequency response. Powerful clip for quick and convenient installation.

16-Channel Power Sequencer

Controllable output delay time; 16 controllable channels + 2 bypass channels; 8 independent switches; 30A max current per channel; RCD protection; one-button bypass function; USB port (compatible with LED lights); per-channel LED indicators; real-time voltage display; high-quality universal sockets.

Ceiling Speaker

Full range speaker cone, transparent tone, flat frequency response. Powerful clip for quick and convenient installation.

Outdoor Column Speaker

Rugged, waterproof, UV-resistant Aluminum enclosure. Transparent tone, exquisite contour, professional dust-proof design.

Recommended Configuration

Application	Type	Model
■ Small/Medium/Large Shopping Mall	Mixer Amplifier	MG-24MA
	Power Sequencer	MG-16DY
	Wall Speaker	MG-520W
	Outdoor Column Speaker	MG-4050YZ
	Ceiling Speaker	MG-612C
	Conference Microphone	MS200-2
Note: The output power of the Mixer Amplifier should match the total power of wall/outdoor/ceiling speakers.		



Hotel/Building PA Solution

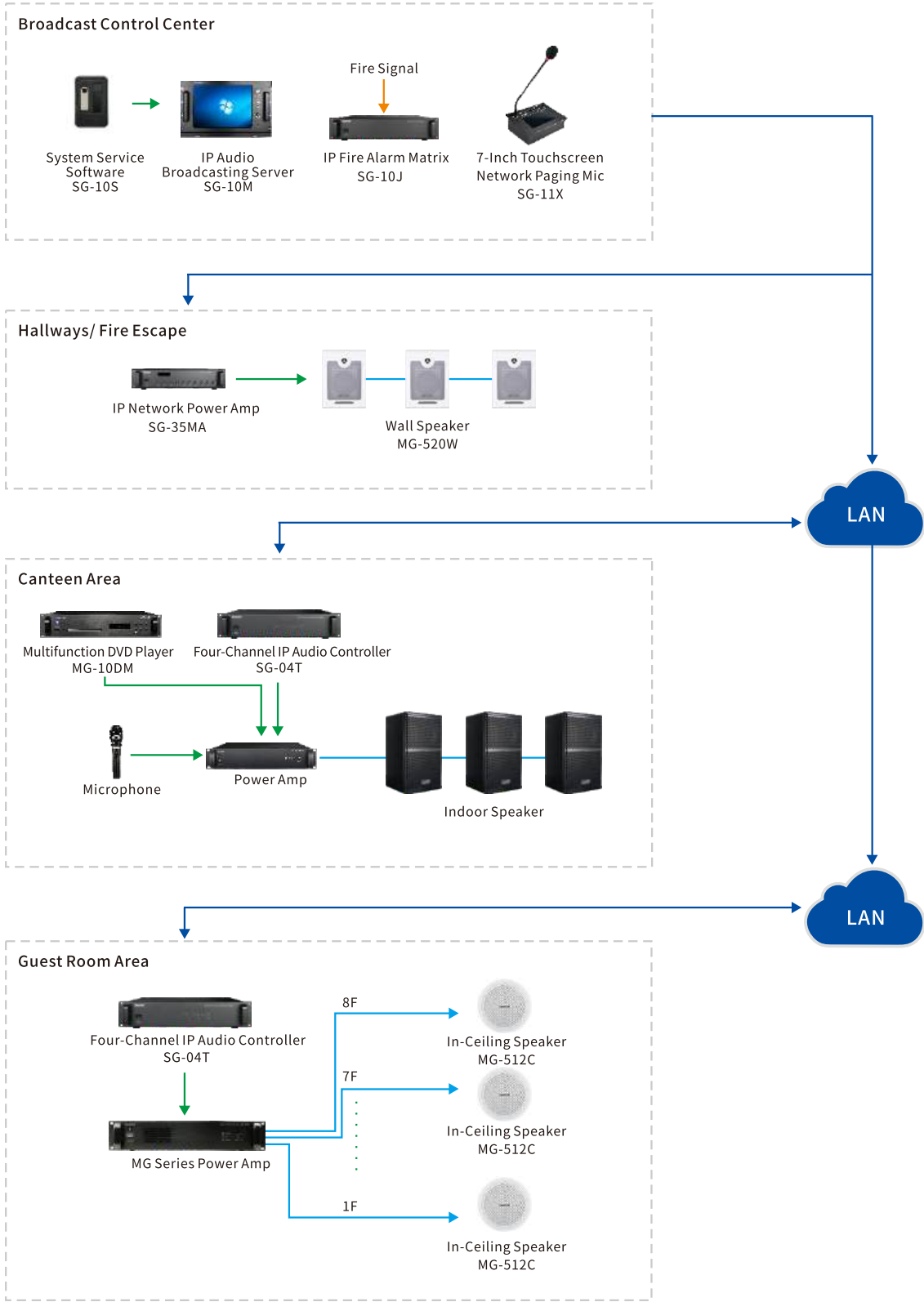
■ Industry Background

Public address system has become an indispensable part of modern day building design, especially for highly populated skyscrapers. In day to day life, it can help create a soothing work environment by playing background music, and shall any emergency occur such as a fire, it can also be used to instruct and evacuate everyone inside the building in an orderly and timely manner, minimizing casualties.

■ Overall Objective

In conformity with international trends, Takstar has combined both the BGM broadcast system and fire alarm broadcast system into one PA system for hotels & buildings. Other than regular broadcast and music playing functions, this integrated PA system is also able to, in case of a fire, send out emergency broadcast in affected region automatically or in manually selected region as well.

System Deployment



- Audio Cable
- Network Cable
- RVV Cable



Park PA Solution

■ Industry Background

Public address system has become an essential part of modern day design in park & scenic areas, especially where there are crowds. In day to day life, it can help create a soothing touring environment by playing background music, and shall any emergency occur such as a fire, it can also be used to instruct and evacuate tourists in an orderly and timely manner, minimizing casualties.

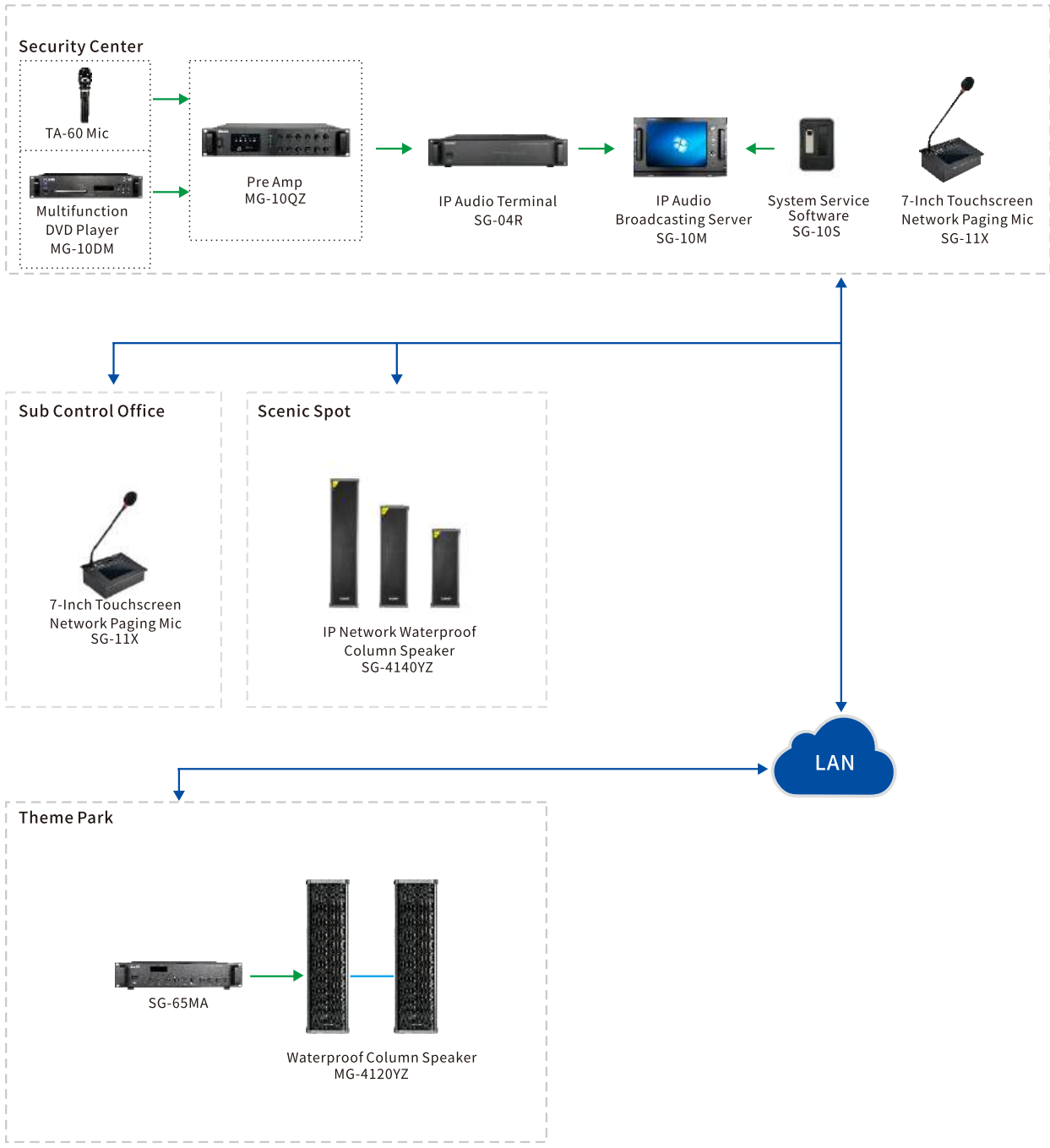
■ Overall Objective

In conformity with international trends, Takstar has combined both the BGM broadcast system and Fire Alarm Broadcast system into one PA system for parks & scenic spots. Other than regular broadcast and music playing functions, this integrated PA system is also able to, in case of a fire, send out emergency broadcast in affected region automatically or in manually selected region as well.

■ Main Functions

- ① Integrate into existing fiber optic network, saving resources.
- ② Unattended operation, auto BGM broadcasting for park-wide visitors.
- ③ Broadcast different music to different zones at different volume levels.
- ④ Broadcast to individual terminal, specific zones or the whole area via IP mic, for quick alert or guidance.
- ⑤ Set up multiple paging stations (e.g., guard station, service station), for easy access.
- ⑥ Set up help stations for emergency intercom with on-duty personnel at the security center.

System Deployment



- Audio Cable
- Network Cable
- RVV Cable



Commercial Complex PA Solution

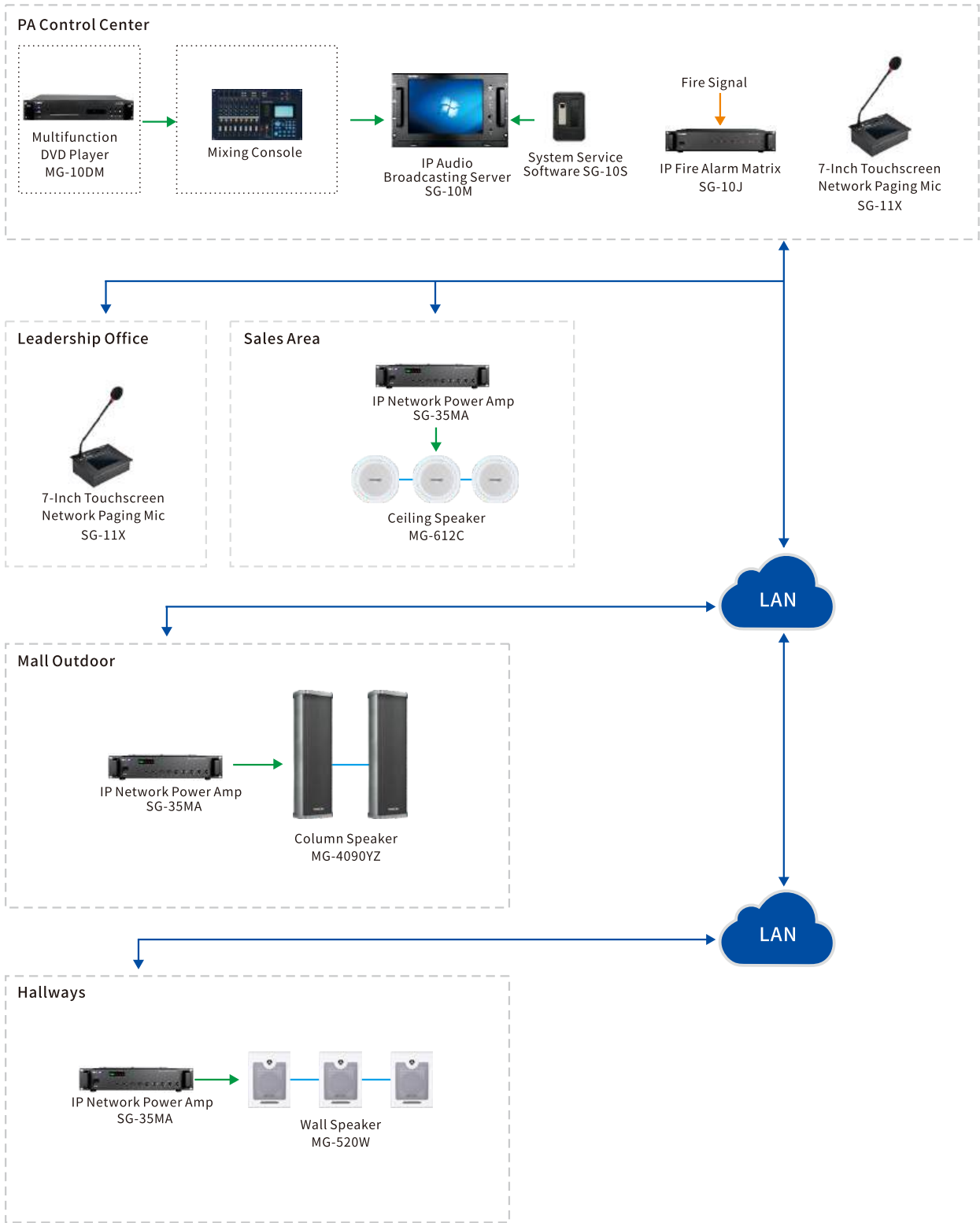
■ Industry Background

As urbanization accelerates, commercial complex, a new real estate form, has emerged as a main force in urban construction, partly because that, in its variable forms, it is in line with the many different demands of modern consumers and city development. However, the complex nature of commercial complex warrants better security measures and higher efficiency, such as centralized management and real-time monitoring.

■ Main Functions

- ① By integrating into existing computer network or setting up a dedicated PA network, connecting with IP network audio terminal, the large commercial complex PA system can provide up to 8 channels of quality music broadcasting. It is suitable for information dissemination and BGM application in hotels, large shopping malls, office buildings, parking lots, and it can also provide regular bell ringing function for office buildings.
- ② Centralized management with many sub stations expandable (e.g., mall broadcast room, office building PA station, hotel broadcast room, parking lot broadcast room) to achieve PA service within the parking lot, different floors and the whole complex.
- ③ Fire alarm linkage. Under emergency, automatically trigger alarm on the area and neighboring areas based on preset. Each floor uses cost-effective IP audio terminals, each terminal and amp can manage audio signal of multiple floors.

System Deployment



- Audio Cable
- Network Cable
- RVV Cable



Campus PA Solution

■ Industry Background

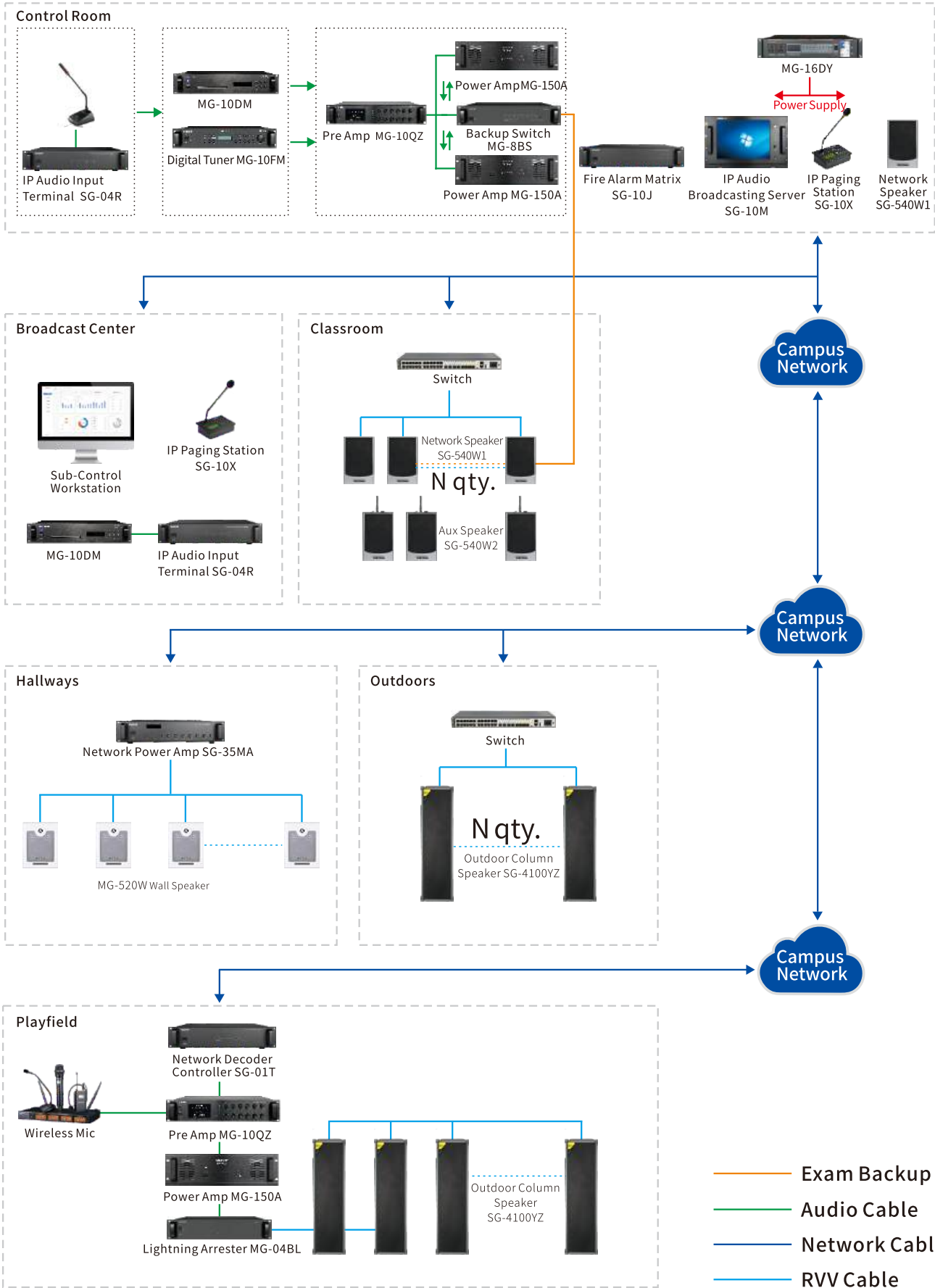
Campus PA system is mainly used for dissemination of information, playback of school bells, and multimedia education including English listening task broadcast. It replaces traditional electric bell system with automatic PA system, and has a plethora of functions such as: scheduled playback, remote zone broadcast, remote class preparation, multimedia teaching, and remote PA paging.

■ Main Functions

Designed with school demands in mind, in the principle of being Practical, Reliable, Open, Compatible & Standardized, the campus PA system, consisting of campus PA and fire alarm PA functions, is able to achieve the following:

- ① School Broadcast Room: the brain of the IP Network PA System, controls Scheduled Classbell, BGM Broadcast, English Listening Exam Broadcast, Two-Way Intercom between terminals, Remote Paging, Monitoring of broadcast contents.
- ② Classroom Area: core school area. Each classroom can deploy IP Network PA Terminals which can also be used for sound reinforcement by connecting to a multimedia computer.
- ③ Campus Radio: broadcast campus information in students' leisure time, enriching campus life.
- ④ Conduct intercom or PA remotely in Leadership Office towards the whole campus or particular schools.

System Deployment





Hospital PA Solution

■ Project Requirements

- ① Deploy speakers in each floor with fire alarm function. Reliable, visualized computer control.
- ② Some clinic speakers are required to be turned off at regular hours, but should be able to receive emergency broadcast at any time.
- ③ Leaders should be able to speak to the whole hospital or certain departments in their own offices.
- ④ Different places (e.g., department, outpatient lobby) should be able to play different audio at the same time.

■ Main Functions

① Fire Alarm

Each floor is considered a fire control zone. The fire alarm will automatically trigger on the floor that receives fire signal, or be set so that the upper and lower floors are also alerted for more thorough warning.

② Automatically force turn on speaker during alarm

The system will also use the 24V override power to turn on any speakers that are off for emergency alarm broadcast.

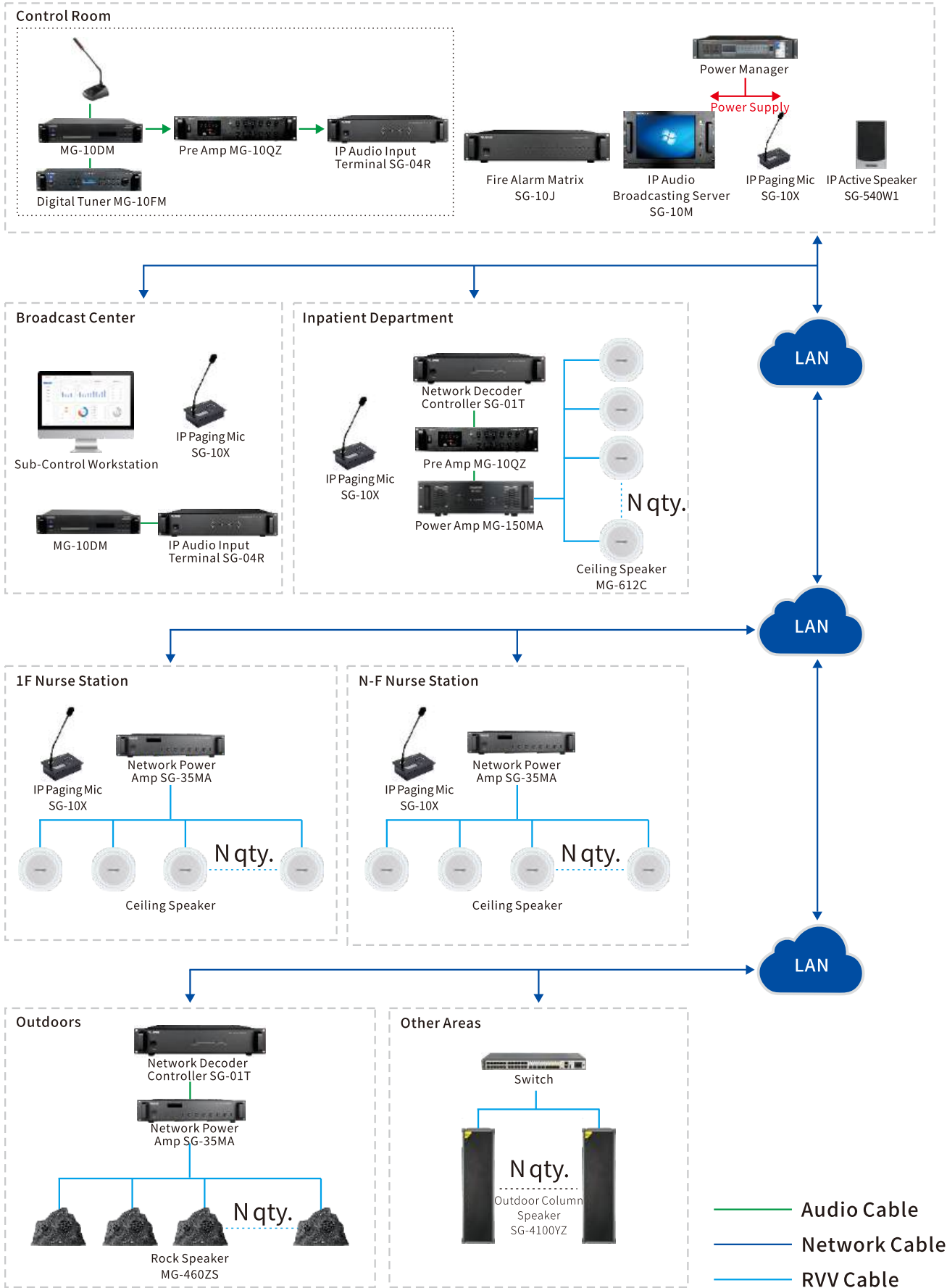
③ Scheduled program broadcast to different areas

The system is able to play different audio in areas wherever appropriate. For example, soothing music in rehabilitation area, or drug introduction at pharmacy section.

④ Direct address by the director to a department

The director is able to, in his office, page certain departments or divisions for address. A paging station is also set in the duty office for the duty staff to deliver information timely.

System Deployment





IP Network PA System

SG Series



SG-10M IP Audio Broadcasting Server

Features

- **Wide Compatibility:** Supports various operating systems including Microsoft Windows Server 2008 (all editions), Windows 7, Windows 10, Windows Small Business Server 2008, Red Hat Linux, and SUSE Linux. Ensures secure access with power-on and privilege passwords.
- **User-Friendly Design:** The Server is housed in a rugged industrial chassis and features a touch screen for intuitive control. It comes with robust IP broadcast control software, extensive media library, and allows users to upload or create their own recorded programs.
- **Audio Management:** Manages audio streaming services, scheduled tasks, terminal management, and user permissions. Organizes program library resources for efficient playback, providing both scheduled and on-demand media services to all network adapters, and fulfilling playback requests from audio workstations.
- **Digital Transmission:** Utilizes LAN or internet with independent IPs for digital transmission, supporting dedicated 100Mbps networks. Offers unlimited transmission range with the capability to manage dozens to hundreds of program sources, integrating multiple networks seamlessly.
- **Comprehensive Broadcasting Features:** Supports two-way intercom, broadcast monitoring, on-demand playback, real-time audio capture, terminal selection, one-click intercom, scheduled program playback, online speeches, internet radio broadcasting, automatic triggering of audio terminal devices, and fire alarm broadcasting.

Specifications

- Screen: 15-inch
- Touch Screen: Resistive touch
- Resolution: 1024 x 768
- Dimensions: 484 x 310 x 348 mm
- Display Area: 305 x 230 mm
- Motherboard: Industrial-grade, supports 24/7 continuous operation
- Processor: Intel Core i5 dual-core
- Graphics: Integrated Intel® HD Graphics, supports dual display mode
- RAM: 8GB DDR3 (16GB option available)
- Storage: Standard 128GB SSD (mSATA interface) (Options available: 256GB, 512GB, or 1TB)
- Power Supply: Mingwei industrial power supply
- Expansion: 1 x mini PCIe slot, optional Wi-Fi/4G/Wireless
- Serial Ports: 6 x COM ports
- Front I/O Interfaces: 1 x Power switch; 1 x Volume control; 1 x MIC input; 2 x USB 2.0 ports
- Rear I/O Interfaces: 1 x 3.5mm MIC-in; 1 x 3.5mm Line-out; 2 x Ethernet ports; 2 x USB 3.0 ports; 1 x VGA port; 1 x HDMI port; 2 x RCA output connectors; 2 x RCA input connectors
- Operating Temperature: -10°C to 50°C
- Storage Environment: -20°C to 60°C
- Humidity: 5% to 95% non-condensing
- Installation: Rack mountable or desktop placement
- Construction: 7U aluminum alloy black brushed panel, integrated touch screen and digital matrix keyboard in a single chassis
- Keyboard/Mouse: Pull-out keyboard and touchpad mouse located at the bottom of the chassis
- Chassis Color: Black



SG-10S System Service Software Package

Features

- 16 timed tasks for arbitrary call; auto/manual program switching with mute function.
- Includes IP audio server software, management software, configuration tool, and sub-control software.
- Server software supports dual decoding and simultaneous dual-task operation (requires terminals).
- Terminals in relay system form a tree hierarchical network topology; each terminal can forward audio streams, multi-level diffusion of server audio data.
- Each terminal supports up to 100 subordinate terminals; unlimited hierarchy levels; total system terminals up to 10,000 or other values.
- Devices feature audio capture & forwarding capability; can broadcast to local/subordinate terminals without server tasks.
- Direct access to standard TCP/IP networks; supports multi-network integration via existing networks.
- Embedded system architecture prevents broadcast host from virus attacks.
- Powerful control: manage online network broadcast terminals (independent zoning, IP/volume control, online status detection).
- Supports Android client for mobile terminal control.
- Supports text announcement editing for scrolling display (adjustable speed); timed/manual insertion; synchronous text & music transmission (requires terminals).
- IP network software encryption device; registration via dongle; set authorized terminal quantity and time limit during registration.



SG-10X IP Paging Microphone

Features

- Professional Paging Mic Design: With a Chinese LCD screen, 10 task zone shortcuts, and 6 function buttons.
- Fast Startup Time ≤ 1 Second: High-speed industrial chip inside.
- Integrated Mic: For authorized zone broadcasts, with an automatic red indicator during use.
- Built-in Speaker: Enables two-way communication for calling and receiving calls.
- Ethernet Connectivity: Connects via Ethernet for automatic IP acquisition and strong cross-network capabilities.
- Two-way Paging: Supports two-way paging between terminals and built-in monitoring speaker (optional function).
- Flexible Paging Options: Allows point-to-point, point-to-multipoint, and multipoint-to-multipoint paging under management system authorization.
- User Controls: In calling mode, use CALL for mute, FAST for AGC, UP/DOWN for volume control (-40dB to 0dB), and ENTER for mic gain adjustment (+0.5dB to +4dB).

Specifications

- Network Interface: Standard RJ45 input
- Network Protocols: TCP/IP, UDP, IGMP (multicast)
- Power Supply: DC 12V 1A, $\pm 0.1V$
- Digital Audio Formats: ADPCM; MP3/MP2
- Bitrate: 8-128K
- Transmission Rate: 10/100Mbps auto-sensing
- Audio Mode: 16-32 bit stereo CD quality
- Standby Power: 0.2W
- Operating Power Consumption: $\leq 10W$
- Auxiliary Input/Output Signals:
 - 1 MIC input, bandwidth 200Hz-15kHz, sensitivity 3mV-10mV
 - 1 LINE input, bandwidth 200Hz-20kHz, max level 1.5V p-p
- Audio Output: Bandwidth 200Hz-3.5kHz, max level 1.5V p-p
- Output Frequency Response: 20Hz-20kHz
- Harmonic Distortion: $\leq 0.1\%$
- Signal-to-Noise Ratio: $>82dB$
- Built-in Speaker Output Impedance: 4 Ω , 3W
- Operating Environment: -15°C to 65°C; 10% to 90% Humidity
- Weight: Approximately 1.3 kg
- Dimensions: 230mm x 150mm x 70mm



SG-11X 7-Inch Touchscreen IP Paging Mic

Features

- With USB, SD card interface, FM radio function, wireless capability, and 1CH line input and output.
- Built-in volume control and one-touch mute function.
- 7-inch TFT true color LCD touchscreen with a resolution of 800 x 480, display size 154 x 86 mm, automatic backlight off, and 8 quick access digit/zone buttons for one-touch paging.
- Pro desktop mic design with a black anodized aluminum brushed panel and black plated buttons.
- Utilizes a high-sensitivity quality mic capsule for balanced input and clear, noise-free audio.
- User-friendly interface for direct operation on the mic without software config; easily call any terminal or group.
- Incorporates embedded PC technology and a high-speed industrial chip for startup in ≤ 1 second.
- Includes a gooseneck mic for broadcasting in designated areas; a red circular indicator light illuminates during calls.
- Strong cross-gateway and cross-router capabilities; connects easily via any Ethernet port.
- Supports point-to-point and point-to-multipoint paging broadcasts under management system authorization.
- Remote upgrade functionality for product software updates without on-site intervention, ensuring convenience.
- Adjustable volume suitable for various applications.
- Real-time adjustment of terminal volume and MIC gain; stores local terminal lists and supports independent group editing and quick group selection.
- Features a 4-wire resistive touchscreen to prevent accidental touches.
- Supports touchscreen calibration with optimized algorithms for durability, withstanding over 1 million touches.

Specifications

- | | |
|--|--|
| • Network Interface: Standard RJ45 input | • Audio Output: Bandwidth 200 Hz - 3.5 kHz, level MAX 1.5V p-p |
| • Network Protocols: TCP/IP, UDP, IGMP (multicast) | • Output Frequency: 20 Hz - 20 kHz |
| • Power Supply: DC 12V, 1A $\pm 0.1V$ | • Total Harmonic Distortion: $\leq 0.1\%$ |
| • Digital Audio Format: OGG encoding | • Signal-to-Noise Ratio: > 82 dB |
| • Bitrate: 80-128K | • Built-in Speaker Output Impedance: 4 Ω , 3W |
| • Transmission Rate: Adaptive 10/100 Mbps | • Operating Temperature: -15 $^{\circ}C$ to 65 $^{\circ}C$ |
| • Audio Mode: 16-32 bit stereo CD quality | • Operating Humidity: 10% - 90% |
| • Standby Power: 0.2W | • Power Consumption: $\leq 10W$ |
| • Operating Power: $\leq 10W$ | • Product Weight: Approximately 1.6 kg |
| • Auxiliary Input/Output: RCA connectors | • Product Dimensions: 250 mm x 180 mm x 85 mm |



SG-10D IP Intercom Panel

Features

- Sleek, minimalist design with a durable anodized aluminum brushed panel; supports flush or surface mounting (with back box).
- Integrates embedded computer and DSP audio processing with a high-speed industrial chip for startup in under 1 second.
- One-button call initiation for target terminals, enabling simple full-duplex communication.
- Built-in 3W high-fidelity speaker for clear, loud audio.
- High-sensitivity mic for broad sound capture and accurate sound reproduction.
- Supports two-way intercom and broadcast reception.
- Includes local emergency button input.
- DC power supply interface with an external adapter, adjustable from 11.5V to 24.5V.
- Built-in 2 x 10W amplifier for connecting two external 8Ω 10W speakers.
- Sturdy aluminum back box for flush or surface installation.
- Connects easily via Ethernet, supporting inter-network and cross-router use.

Specifications

- | | |
|---|--|
| <ul style="list-style-type: none"> • Built-in Speaker Audio Output • Network Interface: RJ45 input • Supported Protocols: TCP/IP, UDP, IGMP (multicast) • Audio Formats: MP3, MP2 • Sampling Rate: 8 kHz – 48 kHz • Transmission Rate: 10/100 Mbps • Audio Mode: 16-bit stereo CD quality • Output Frequency: 20 Hz – 16 kHz • Total Harmonic Distortion: $\leq 0.3\%$ • Sensitivity: 89 dB • Signal-to-Noise Ratio: >78 dB • Auxiliary Line Input Level: 350 mV (industrial standard terminal) • Built-in Speaker Output Impedance & Power: 8Ω / 3 W • External Speaker Output Impedance & Power: 4Ω, 10 W (industrial standard terminal) | <ul style="list-style-type: none"> • Line Out Output Level: 1 V (industrial standard terminal) • Operating Temperature: -35 °C to +55 °C • Operating Humidity: 20% – 80% relative humidity, non-condensing • Power Consumption: ≤ 3 W • Input Power: DC 12 V • Protection Rating: IP55 |
|---|--|



SG-01T/SG-04T IP Audio Controller

Features

- Rack-mountable standard 2U height with a premium polished aluminum panel.
- Fixed static IP address ensures stability during network changes.
- Embedded PC & DSP audio processing, with a built-in network audio decoder for seamless audio stream reception and decoding.
- High-speed industrial-grade ARM chip for fast milliseconds boot times and stable operation, featuring both automatic and manual power switch options.
- SG-01T: 1CH network signal input and 1CH stereo audio output provide high-quality digital audio transmission with CD-level sound quality (adaptive bit rates of 32-320 kbps).
- SG-01T: 2CH power control outputs (220V), max 2000W load. Automatically controls external amplifier power and supports pre-power -on functionality with one relay output for triggering other devices.
- SG-04T: 4CH network signal input and 4CH stereo audio output provide high-quality digital audio transmission with CD-level sound quality (adaptive bit rates of 32-320 kbps).
- SG-04T: 4CH power control outputs (220V), max 2000W load. Automatically controls external amplifier power and supports pre-power -on functionality.
- Intelligent power management via built-in CPU monitoring, auto sleep mode during inactivity (standby power $\leq 0.2W$) and auto wake-up for playback tasks.
- Remote volume control, automatically adjusts volume to preset levels for background music, emergency broadcasts, and fire alarms during startup and playback.
- Full digital control over treble, bass, and master volume for accurate adjustments. Receives broadcasts via network, including microphone paging, automatic fire alarm override, telephone paging and more.
- Multi-use cable: Leverages existing network resources, compatible with TCP/IP protocols, allowing integration with broadcasting, computing, and monitoring networks. Supports cross-gateway, cross-router & Internet transmission, network-based IP & network configuration, plus remote firmware update: remotely updatable without on-site operation for convenience & speed.
- Software-based remote adjustment for treble and bass. With an on-device IP reset switch to restore factory settings.

Specifications

Model	SG-01T	SG-04T
Network Interface	1 x RJ45, 10M/100M	4 x RJ45, 10M/100M
Network Protocols	TCP/IP, UDP	
Audio Formats	MP3/MP2	
Bitrate Support	32K-320K	
Frequency Response	20Hz-20kHz	
Sensitivity	92dB	
SNR	Line $\geq 90dB$; Mic $\geq 88dB$	
Analog Audio Inputs		
Mic Input	10mV, 6.3mm mono jack	
Line Input Frequency Response	20Hz-20kHz	
Line Input	Stereo, 1V p-p, 10K RCA connector	
Input Power	AC 220V $\pm 10\%$, 50-60Hz	
Standby Power	0.2W	
Line Output	Stereo, 1V p-p, 1K RCA connector	
Size	485 (W) x 330 (D) x 88 (H) mm	
Weight	Approx. 5.8kg	



SG-01R/SG-04R IP Audio Input Terminal

Features

- Standard 2U rack-mount design with a premium polished aluminum panel.
- Fixed static IP address ensures stability during network changes.
- Utilizes embedded PC technology and DSP audio processing, with a built-in network voice codec for seamless audio stream reception and decoding; high-speed ARM chip enables millisecond boot times.
- SG-01R: 1CH RJ45 interface for downloading adaptable IP addresses.
- SG-01R: Supports one audio source per device.
- SG-01R: Includes 1CH LINE/MIC input and 1CH independent TCP/IP encoding; separate volume control for high-quality, noise-free audio with one-way calling.
- SG-04R: Supports 4×N audio matrix switching function per device.
- SG-04R: Includes 4CH LINE/MIC input and 4CH independent TCP/IP encoding; separate volume control for high-quality, noise-free audio with one-way calling.
- Transmits multiple audio programs over the network.
- CD-quality audio with bitrates from 32-320 kbps.
- System configured: Press panel button 1 to directly activate corresponding zone's broadcast terminals.
- Exceptional cross-gateway and cross-router connectivity through any Ethernet port.
- Remote upgrade capability for program updates without on-site intervention.
- Stacking support for multiple units within a single system without limits.
- Rear panel IP address reset switch for restoring factory settings.

Specifications

Model	SG-01R	SG-04R
Network Interface	1 x RJ45, 10M/100M	4 x RJ45, 10M/100M
Network Protocols	TCP/IP, UDP	
Audio Formats	MP3/MP2	
Bitrate Support	32K-320K	
Frequency Response	20Hz-20kHz	
Sensitivity	92dB	
SNR	Line ≥90dB; Mic ≥88dB	
	Analog Audio Inputs	
Mic Input	10mV, 6.3mm mono jack	
Line Input Frequency Response	20Hz-20kHz	
Line Input	Stereo, 1V p-p, 10K RCA connector	
Input Power	AC 220V±10%, 50-60Hz	
Standby Power	0.2W	
Line Output	Stereo, 1V p-p, 1K RCA connector	
Size	485 (W) x 330 (D) x 88 (H) mm	
Weight	Approx. 5.4kg	Approx. 5.6kg



SG-10K IP Wireless Controller

Features

- Standard 2U rack-mount design with a polished aluminum front panel.
- Embedded PC technology and high-speed industrial processor for quick startup and enhanced stability.
- One RJ45 network output allows connection to any nearby network point, independent of control room location.
- Robust cross-gateway and cross-router capabilities for easy connection via any Ethernet port.
- Supports 16 levels of user and operational task priorities.
- Remote wireless control effective up to 300 meters in open areas.
- 12 keys for music selection (1-10), play/pause (11) and exit (12).
- Remote firmware updates via network for convenient maintenance.
- Scalable system, stack multiple units without limitations.
- IP address reset switch for easy restoration of factory settings.

Specifications

- Communication Protocol: TCP/IP
- Communication Interface: 1 x RJ45
- Operating Frequency: 315MHz (433MHz optional)
- Operating Temperature: +0 to +40°C
- Humidity Range: 45% to 85% RH
- Atmospheric Pressure: 86kPa to 106kPa
- Standby Power Consumption: $\leq 0.1W$
- Operating Power Consumption: $\leq 5W$
- Input Power: AC 220V $\pm 10\%$, 50-60Hz
- Dimensions: 485 (W) x 330 (D) x 88 (H) mm
- Weight: Approx. 5.3 kg



IP Fire Alarm Matrix

Features

- Standard 2U rack-mountable design; Black aluminum alloy panel with oxidation brushed finish, dark gray bake-painted chassis.
- Intelligent fire alarm interface with contact closure and DC voltage input support.
- Static IP address for stable network operation.
- Alarm signal priority with automatic override.
- 16 alarm signal inputs with corresponding indicator lights.
- 16 broadcast zone automatic activation, expandable to 1024 zones, with up to 80 adjacent zones automatically triggered.
- Programmable alarm rules (N, N±1, N±2, N±3, N±4).
- Customizable alarm ringtones based on location and alarm source.
- Intelligent power management: CPU-controlled amplifier sleep mode ($\leq 0.2W$ standby) with automatic activation upon playback.
- Remote network firmware upgrade capability.
- Multi-unit stacking for unlimited system expansion.
- IP address reset switch for restoring factory settings.

Specifications

- Input Power: AC~220V / 50Hz \pm 5%
- Operating Modes: TEST, ALERT, EVAC, CLEAR
- Display: LED Status Indicators
- Alarm Modes: Selectable zone alarm modes; ALERT, EVAC, TEST
- Alarm Input: 16 Dry Contact Closure Inputs
- Communication Protocol: TCP/IP
- Fuse: AC FUSE
- Power Consumption: 5W
- Dimensions: 485(W) x 330(D) x 88(H) mm
- Timekeeping: 24-hour (HH-MM-SS) / Weekly / Calendar
- Communication Interface: 1 x RJ45 (for connection to digital broadcast control center)
- Weight: Approximately 5.8 kg



SG-15/35/65MA IP Network Power Amplifier

Features

- **Fault Detection:** Automatic fault detection with LED indicators for overload, over-temperature, and over-voltage protection; with limiter circuit processing to prevent output audio distortion.
- **Safety Features:** Comprehensive short circuit and high-temperature protection circuits for enhanced safety.
- **Audio Output Interface:** One audio output for cascading multiple devices, monitoring, or driving powered speakers.
- **Intelligent Power Management:** Automatically enters sleep mode during inactivity ($\leq 0.2W$ standby power) and wakes for playback tasks, with options for scheduled power-on.
- **Remote Volume Control:** Automatically adjusts to preset default volumes for background music, emergency broadcasts, and fire alarms during auto-startup and playback.
- **Broadcast Reception:** Capable of receiving various broadcast programs via the network, including mic paging and automatic fire alarms.
- **Network Utilization:** Efficiently leverages existing network infrastructure, compatible with TCP/IP, allowing connections anywhere on an Ethernet network, supporting multi-network integration and remote IP configuration.
- **Remote Software Updates:** Allows for easy software updates via the network without on-site access.
- **Customizable Audio Settings:** Remote adjustment of treble and bass based on playback content for enhanced audio performance.

Specifications

Model	SG-15MA	SG-35MA	SG-65MA
Rated Power	150W	350W	650W
Gross Weight	About 13.5kg	About 15.8kg	About 19kg
Operating Temperature	-10°C~65°C		
Operating Humidity	20% to 80% relative humidity, non-condensing		
Power Supply	AC220V/50HZ		
Network Interface	RJ45		
Transmission Rate	10Mbps/100Mbps		
Supported Protocols	TCP/IP, UDP, IGMP (Multicast)		
Audio Format	MP3/MP2		
Audio Mode	16-32 bit stereo CD quality		
Sampling Rate	8K~48K		
Bit Rate	8K~512Kbps		
EMC Input Sensitivity	775mV		
AUX Input Sensitivity	350mV		
MIC Input Sensitivity	10mV		
Standby Power Consumption	$< 0.2W$		
Frequency Response	50Hz~18kHz +1/-3dB		
Harmonic Distortion	THD $\leq 0.1\%$		
Signal-to-Noise Ratio	$\geq 85dB$		
Transmission Method	4-16 Ω output, 70V/110V output		
Dimensions (W*H*D)	480mm*88mm*420mm		



SG-540W1/W2 IP Active Speaker

Features

- Utilizes embedded PC tech, DSP audio processing, and industrial-grade ARM chip for rapid startup and enhanced stability.
- Dual-channel amplifier (2*20W/8Ω) with built-in network audio decoding.
- Independent IP address, receives custom scheduled broadcasts directly from the server.
- Delivers high-fidelity CD-quality digital audio with an adaptive bitrate of 32-320kbps, ensuring noise-free playback.
- Independent volume and balance adjustments, plus digital treble and bass controls for precise sound tuning.
- Supports handheld and network mics for two-way communication and broadcasting to specified terminals.
- RS232 interface for connection and control of additional devices.
- Expandable audio capture function to transmit on-site audio back to central control room for real-time monitoring.
- Offers 1CH stereo line input and 1CH mic input for external audio sources with adjustable volume.
- Wooden exterior for aesthetic appeal and high-fidelity audio quality.
- With power and data indicator lights for easy device status monitoring.
- Master speaker includes an auxiliary output for connecting a secondary speaker.
- Expandable 110V signal input, auto switchable to constant voltage mode in case of IP network or speaker power failure, for dependable performance during critical periods.
- Remote software-based bass and treble adjustments to tailor to playback content.
- Smart Power Management, auto sleep mode during inactivity, maintaining low standby power ($\leq 0.2W$) and waking for playback tasks.
- Remote volume control, auto adjust volume (BGM, emergency, fire alarm) to pre-set system levels upon automatic startup and playback tasks.
- Receives diverse broadcast programs over the network, including intercom and emergency alerts.

Specifications

SG-540W1

- Network Interface: RJ45, 10M/100M
- 110V Signal Input (optional)
- 2.4G Wireless Module (optional)
- Network Protocols: TCP/IP, UDP, ICMP, IGMP (multicast)
- Audio Formats Supported: MP3, MP2
- Bitrate Range: 32K-320K
- Frequency Response: 20Hz - 20kHz
- Sensitivity: 95dB
- SNR: Line: $\geq 90dB$; Mic: $\geq 88dB$
- Rated Power: Stereo 2*20W; Max Power 2*30W; Industrial standard terminal
- Power Supply: AC 220V $\pm 10\%$, 50-60Hz / External DC 12V/5A (optional)
- Speaker Impedance: 5": 8Ω; 2.5": 8Ω; with crossover
- Speaker Units: 1*5" + 1*2.5"
- Standby Power: 0.2W
- Weight: Approx. 3kg
- Dimensions: 200mm (H) * 170mm (W) * 330mm (D)
- Installation: Wall-mounted or tabletop

SG-540W2

- Rated Power: 20W; Max Power: 30W
- Speaker Impedance: 5": 8Ω; 2.5": 8Ω; with crossover
- Speaker Units: 1*5" + 1*2.5"
- Dimensions: 330mm (H) * 200mm (W) * 170mm (D)
- Installation: Wall-mounted or tabletop



SG-640C IP Ceiling Speaker

Features

- In-ceiling design with integrated network audio decoding, digital power amp, and speaker.
- High-fidelity built-in speaker.
- Two power options: PoE by default (IEEE 802.3at compliant), or DC supply optional.
- Standard RJ45 interface for connection to Ethernet or PoE switches; supports cross-segment and cross-router connections.

Specifications

- Network Interface: RJ45, 10M/100M
 - Network Protocols: TCP/IP, UDP
 - Audio Format: MP3
 - Supported Bitrate: 32K-320K
 - Frequency Bandwidth: 20Hz-20kHz
 - Sensitivity: 92dB
 - Max Sound Pressure Level: 98dB
 - Frequency Response: 70Hz-12kHz
 - Signal-to-Noise Ratio: ≥ 90 dB; Mic: ≥ 88 dB
 - Power Supply: External DC 12V/3A
 - Rated Power (AES): 40W
 - Standby Power Consumption: 0.2W
 - Product Weight: Approx. 1.1 kg
- Speaker Specs
- Speaker Diameter: 6.5 inches
 - Magnet Specs: $\varnothing 70 \times \varnothing 32 \times 10$ (Y25)
 - Voice Coil Specs: PSV 20.4*20*7.3*0.12*2 FPESVW
 - Frame Material: Iron
 - Cutout Size: 196mm
 - External Dimensions: 230mm



SG-4070YZ/SG-4100YZ/SG-4140YZ IP Network Waterproof Column Speaker

Features

- Utilizes embedded PC tech, DSP audio processing, and industrial-grade ARM chip for rapid startup and enhanced stability.
- Built-in network audio decoding module; speaker output at 70W/100W/140W (AES).
- Independent IP address, receives custom scheduled broadcasts directly from the server.
- Delivers high-fidelity CD-quality digital audio with an adaptive bitrate of 32-320kbps, ensuring noise-free playback.
- Independent volume and balance adjustments, plus digital treble and bass controls for precise sound tuning.
- Smart power management, auto sleep mode during inactivity, maintaining low standby power ($\leq 0.2W$) and waking for playback tasks.
- Remote volume control, auto adjust volume (BGM, emergency, fire alarm) to pre-set system levels upon automatic startup and playback tasks.
- Receives diverse broadcast programs over the network, including intercom and emergency alerts.
- Single-cable solution, leverages existing network infrastructure, compatible with TCP/IP for seamless integration across broadcasting, computing, and monitoring systems.
- Remote network update support for easy maintenance.
- Remote software-based bass and treble adjustments to tailor to playback content.
- IP reset switch to restore factory settings.

Specifications

- | | |
|--|---|
| <ul style="list-style-type: none"> • Model: SG-4070YZ • Rated Power (AES) : 70W • Max SPL: 107dB • Dimensions (mm): 165*145*440 • Net Weight: 3.75kg | <ul style="list-style-type: none"> • Network Interface: RJ45; 10M/100M • Driver Size: 4 inches • Network Protocol: TCP/IP; UDP • Audio Format: MP3 • Supported Bit Rate: 32K-320K • Bandwidth: 20Hz-20kHz • Sensitivity: 92dB • SNR: $\geq 90dB$; Mic: $\geq 88dB$ • Power Supply: 12V/5A • Standby Power: 0.2W |
| <ul style="list-style-type: none"> • Model: SG-4100YZ • Rated Power (AES) : 100W • Max SPL: 109dB • Dimensions (mm): 165*145*580 • Net Weight: 5.5kg | |
| <ul style="list-style-type: none"> • Model: SG-4140YZ • Rated Power (AES) : 140W • Max SPL: 111dB • Dimensions (mm): 165*145*740 • Net Weight: 7.25kg | |



SG-6240YZ IP Network Waterproof Column Speaker

Features

- Utilizes embedded PC tech, DSP audio processing, and industrial-grade ARM chip for rapid startup and enhanced stability.
- Built-in network audio decoding module.
- Independent IP address, receives custom scheduled broadcasts directly from the server.
- Delivers high-fidelity CD-quality digital audio with an adaptive bitrate of 32-320kbps, ensuring noise-free playback.
- Smart power management, auto sleep mode during inactivity, maintaining low standby power ($\leq 0.2W$) and waking for playback tasks.
- Remote volume control, auto adjust volume (BGM, emergency, fire alarm) to pre-set system levels upon automatic startup and playback tasks.
- Receives diverse broadcast programs over the network, including intercom and emergency alerts.
- Single-cable solution, leverages existing network infrastructure, compatible with TCP/IP for seamless integration across broadcasting, computing, and monitoring systems.
- IP reset switch to restore factory settings.

Specifications

- Rated Power (AES): 240W
- Sensitivity: 92dB
- Maximum Sound Pressure Level: 116dB
- Signal-to-Noise Ratio: ≥ 90 dB; Mic: ≥ 88 dB
- Frequency Response: 70Hz - 15kHz
- Driver: 6" \times 5 + 1 internal magnet horn tweeter
- Dimensions: 206*140*1185 mm
- Network Interface: RJ45, 10M/100M
- Network Protocols: TCP/IP, UDP
- Audio Format: MP3
- Supported Bit Rate: 32K - 320Kbps
- Bandwidth: 20Hz - 20kHz
- Power Supply: 24V 5A
- Standby Power: 0.2W



Smart Analog Peripherals

MG Series



MG-10M Digital Central Controller

Features

- ARM+DSP chip architecture, embedded real-time operating system (RTOS), 4.3-inch capacitive touch screen, graphical interface, full touch operation.
- Supports PC-side editing of timing programs and custom remote control functions.
- Powerful timing function, using real-time clock (RTC) chip with automatic compensation to achieve accuracy down to the second.
- Adopts RS485 control bus, MODE BUS protocol, two-way communication, can control peripheral devices and can also be controlled by third-party online devices for easy third-party system integration (optional).
- Supports remote paging station access, which can achieve remote call, audio access, on-demand broadcast, zone control, power control and other operations.
- Fire emergency broadcast function, supports local triggering and triggering by external fire alarm matrix, and triggering actions can be customized for each external trigger signal. Supports adjacent zone alarm.
- Built-in 4GB flash memory securely soldered on the circuit board. Expandable with external TF card up to 32GB.
- High-speed USB2.0 interface, through which a computer can directly access the host's memory and TF card, upload and download music files and program files.
- Browse and customize playlists locally, view file names in rolling Chinese/English format. No need to generate playlist or number songs on a computer.
- Programmable locally or on computer. Supports 4 sets of programs, each can contain 180 timed events.
- Integrated FM radio function. Supports preset, automatic or manual search of stations.
- One local mic input, two AUX inputs, four audio outputs, and one remote mic signal synchronous output.
- Remote mics can be connected on all three COM ports, either individually or daisy-chained, supporting a maximum of 16 remote paging mics.
- Local mic settings: mixing, auto evade, evade level, automatic zone triggering and recover time; all configurable in system Settings.
- Edit, browse and run temporary timed tasks locally, quickly setting up various running tasks.
- Supports simple mixer function, intuitive emulated fader on touch screen to adjust the volume of each audio source.
- Powerful decoding capability, supports multiple audio encoding formats, such as MP3, WMA, WAV, etc.
- No restriction on the number of music files you can store, as long as the capacity allows. View all music files at will without restrictions.
- Can control peripheral devices such as CD player, radio, zone selector, power sequencer, override power, fire alarm matrix and so on.
- Supports long-distance remote control (>300 meters) (optional).

Specifications

- Storage Method: built-in 4GB flash memory or external TF card
- Supported Audio Formats: MP3, WMA, WAV
- Radio Mode: FM 87.0-108MHz
- Output: LINE 500mV Unbalanced
- Overall S/N Ratio: ≥ 85 dB
- Overall Distortion: $<0.1\%$ (1kHz)
- Frequency Response: 20Hz-20kHz ± 3 dB
- Controllable Power Output: -220V/50Hz <3 A
- Net Weight: 5.1kg
- Gross Weight: 6.4kg
- Dimensions (mm): 485x350x90 mm



MG-10QZ Pre Amplifier

Features

- 5 mic inputs, 3 line inputs, 1 emergency line input, and 2 line outputs.
- Highest priority (override) for Mic 1 and emergency line; MIC2/3/4/5 and AUX1/2/3 are at same priority level.
- Independent volume control for each input channel.
- Built-in MP3 decoder and wireless player, switchable playback modes.
- Supports USB flash drive and SD card for convenient stored music playback.
- Features independent treble and bass control.
- Multiple indicator lights for power, signal, and clipping indication.

Specifications

- Power Supply: AC220V / 3A
- MIC Sensitivity: -40dB
- AUX Sensitivity: -12dB
- Line Output: 0dB
- Frequency Response: 20-20kHz ($\leq \pm 3$ dB)
- Harmonic Distortion: $\leq 1\%$
- Signal-to-Noise Ratio: ≥ 85 dB
- Operating Temperature: 5°C-45°C
- Operating Humidity: 20%-80% relative humidity, non-condensing
- Power Consumption: <10W
- Dimensions (mm): 483 × 342 × 90
- Weight: Approx. 5kg
- Audio Priority Levels: MIC1 = EMC1 > MIC2 = MIC3 = MIC4 = MIC5 = LINE1 = LINE2 = LINE3
- Fuse: 5 × 20mm 3A
- Physical Interfaces:
Audio Inputs: 4 × RCA connector sets, 5 × 6.35mm mic jacks
Audio Outputs: 2 × RCA connector sets
Power Socket: 1 × IEC socket
- Player Decoding Format: MP3
- USB Drive Support: Up to 32GB, FAT32



MG-05MA Integrated Broadcast Amplifier

Features

- Built-in Wireless module for easy mobile Wireless streaming.
- Integrated MP3 decoder for flexible playback modes.
- Supports USB flash drives and SD cards for easy song swapping.
- Utilizes advanced and efficient power amplification circuitry.
- Features 1 microphone input and 2 line inputs.
- Provides 100V High-Z output and 4Ω Low-Z output.
- Supports treble and bass adjustment, and separate volume controls.

Specifications

- High Impedance Output: 100V
- Low Impedance Output: 4Ω
- Rated Power: 50W
- AUX Sensitivity: -12dB
- MIC Sensitivity: -40dB
- Frequency Response: 80Hz~20kHz \pm 5dB
- Total Harmonic Distortion (THD): \leq 0.1%
- Signal-to-Noise Ratio (SNR): \geq 70dB
- Operating Temperature: -5°C to 80°C
- Operating Humidity: 20%~80% RH, non-condensing
- Product Weight: 1.9kg
- Dimensions: 280×62×183mm
- Power Supply: 220V/50Hz



MG-12MA/MG-24MA/MG-36MA/MG-50MA/MG-65MA Integrated Broadcast Amplifier

Features

- 6 independent zone outputs with separate volume control, and 100V output voltage.
- Includes 2 AUX line inputs, 1 Emergency (EMC) input, 2 mic inputs, and 1 auxiliary output for cascading to another amplifier.
- Bass and treble adjustments, along with separate volume controls for all inputs.
- Mic 1 and Emergency EMC input have the highest priority, can override other input signals.
- Built-in Wireless/MP3 module for easy mobile streaming for program playback.
- Multiple indicator LED lights for power, signal, clipping, and protection status.
- Active fan cooling for efficient heat dissipation and long-term operation.
- Mains power fluctuation protection for over-voltage and under-voltage safeguards.

Specifications

Model	MG-12MA	MG-24MA	MG-36MA	MG-50MA	MG-65MA
Rated Power	120W	240W	360W	500W	650W
Product Weight	9.3kg	11.5kg	12.6kg	15.8kg	17.1kg
Dimensions	483*342*90mm			483*410.5*90mm	
High-Z Output	100V				
AUX Sensitivity	-12dB				
MIC Sensitivity	-40dB				
Treble/Bass	±10dB				
Freq. Response	80Hz-16kHz±2dB				
THD	THD≤0.1%				
SNR	≥70dB				
Temperature	-5°C~80°C				
Operating Humidity	20%~80% RH, non-condensing				
Power Supply	~220V/50Hz				



MG-50A/100A Broadcast Pure Power Amplifier

Features

- Standard chassis design, with 2U brushed aluminum alloy front panel.
- User-friendly pull handles for both aesthetics and practicality.
- 100-70V constant voltage output and 4-16 Ω constant impedance output.
- 4-segment LED level meter, allowing operating status to be clear at a glance.
- 6.35mm jack and XLR connector for convenient loop-through connection.
- Output short circuit, over-current, and overload protection as well as overheating alarm, saturation alarm, and distortion alarm.
- Equipped with compression and limiting function to ensure no distortion.

Specifications

Model	MG-50A	MG-100A
Rated Power	500W	1000W
Frequency Response	20Hz-20kHz	20Hz-20kHz
Sensitivity	230mV	230mV
Signal-to-Noise Ratio	>80dB	>80dB
Harmonic Distortion	<0.3%	<0.3%
Power Supply	AC220V/50Hz	AC220V/50Hz
Fuse	10A	10A
Net Weight (kg)	17.76kg	21.5kg
Gross Weight (kg)	18.24kg	22.78kg
Dimensions	482*445*90mm	482*445*90mm



MG-150A/200A Broadcast Pure Power Amplifier

Features

- Standard chassis design, with 3U brushed aluminum alloy front panel.
- User-friendly pull handles for both aesthetics and practicality.
- 70-100V constant voltage output and 4-16Ω constant impedance output.
- 5-segment LED level meter, allowing operating status to be clear at a glance.
- 6.35mm jack and XLR connector for convenient loop-through connection.
- Output short circuit, over-current, and overload protection as well as overheating alarm, saturation alarm, and distortion alarm.

Specifications

Model	MG-150A	MG-200A
Rated Power	1500W	2000W
Frequency Response	100Hz-16kHz	100Hz-16kHz
Sensitivity	1000mV	1000mV
Signal-to-Noise Ratio	>80dB	>80dB
Harmonic Distortion	<0.1%	<0.1%
Power Supply	AC220V/50Hz	AC220V/50Hz
Fuse	10A	10A
Net Weight (kg)	28.59kg	30.56kg
Gross Weight (kg)	30.3kg	32.1kg
Dimensions	485*480*132mm	485*480*132mm



MG-612C/MG-512C In-Ceiling Speaker

Features

- Full range composite speaker cone, transparent tone, flat frequency response.

Specifications

MG-612C

- Rated Power: 12W (AES)
- Voltage Input: 70-100V
- Sensitivity: 91dB (1M/1W)
- Maximum SPL: 97dB
- Frequency Response: 90-16,000Hz
- Speaker Size: Ø158mm
- Cutout Size: Ø168mm
- Dimensions: Ø198 × 55mm
- Color: White

MG-512C

- Rated Power: 12W (AES)
- Voltage: 100V
- Max SPL: 99dB
- Dimension: Ø185*65mm
- Hole Cut: Ø165mm
- Frequency Response: 100-17kHz
- Panel Material: ABS
- Color: white
- Sensitivity: (1W/1M) 91dB

MG-520C In-Ceiling Speaker

Features

- Full range composite speaker cone, transparent tone, flat frequency response.

Specifications

- Rated Power: 10/20W (AES)
- Voltage: 70V/100V
- Max SPL: 99dB
- Dimension: Ø200*61mm
- Hole Cut: Ø175mm
- Frequency Response: 100-18kHz
- Panel Material: IRON
- Color: white
- Sensitivity: (1W/1M) 93dB



MG-520W Wall Speaker

Features

- Clear and pleasant sound, balanced frequency response for music playback
- Bright audio, stylish look, professional dust-proof design

Specifications

- Rated Power: 20W (AES)
- Constant Voltage Input: 70-100V
- Sensitivity: 92dB (1m/1W)
- Max Sound Pressure Level: 99dB
- Frequency Response: 90-16000Hz
- Driver Dimensions: Ø158mm, Ø55mm
- External Dimensions: 275*200*105mm
- Color: White



MG-620W Wall Speaker

Features

- Equipped with a 6.5-inch woofer and a 1-inch dome tweeter for a wide frequency response.
- Delivers clear, captivating sound with balanced music playback response.
- Lightweight ABS plastic enclosure ensures durability and corrosion resistance.

Specifications

- Rated Power (AES): 10W/20W
- Frequency Response: 110Hz-12kHz
- Sensitivity: 87dB
- Input Voltage: 110V
- Max SPL: 99dB
- Wiring Method: Push-type terminal
- Product Size: 182*115*270mm
- Net Weight: 1.15kg





MG-4050YZ/MG-4090YZ/MG-4120YZ Waterproof Broadcast Column Speaker

Features

- MG-4 series are professional waterproof outdoor aluminum column speakers with 4.5-inch constant-voltage drivers.
- Designed with all-weather materials, moisture-proof, waterproof and UV-resistant.
- Drivers utilize 4.5-inch full-range moisture-proof and waterproof composite material diaphragm, producing warm sound and rich vocals.
- Corrosion-resistant aluminum grille cover reduces weight and simplifies installation and maintenance.

Specifications

Product Type	Waterproof Column Speaker for Public Address		
Product Model	MG-4050YZ	MG-4090YZ	MG-4120YZ
Speaker Power (AES)	50W	90W	120W
Input Voltage	100V	100V	100V
Sensitivity	89dB	92dB	94dB
Max SPL	105dB	111dB	114dB
Frequency Response	100-16000Hz	100-16000Hz	100-16000Hz
Driver Quantity	1	2	3
Driver Dimensions	4 inches	4 inches	4 inches
External Dimensions (mm)	129X106X261	129X106X327	129X106X448
Installation Method	Wall mount	Wall mount	Wall mount
Mounting Accessory	L-shape brackets + pack of screws	L-shape brackets + pack of screws	L-shape brackets + pack of screws
Product Weight	1.5kg	2.17kg	2.95kg



MG-812YZ/MG-824YZ/MG-836YZ/MG-848YZ Waterproof Broadcast Column Speaker

Features

- Professional waterproof, moisture-proof, and dust-proof design for all-weather outdoor use.
- High-fidelity speaker with quick response, bright sound and far coverage.
- All-aluminum alloy casing, elegant, durable, not easy to discolor and deform.

Specifications

Model	MG-812YZ		MG-824YZ		MG-836YZ		MG-848YZ	
Input Voltage	70V	100V	70V	100V	70V	100V	70V	100V
Power (Red-Blue) AES	30W	60W	60W	120W	90W	180W	120W	240W
Power (Red-White) AES	60W	120W	120W	240W	180W	360W	240W	480W
Sensitivity	92dB		95dB		97dB		98dB	
Max SPL	109dB/112dB		115dB/118dB		119dB/122dB		121dB/124dB	
Frequency Response	80-18kHz							
Woofer	8" driver		2 x 8" driver		3 x 8" driver		4 x 8" driver	
Tweeter	25mm voice coil resin film horn tweeter						2 x 25mm voice coil resin film horn tweeter	
Product Size	440x250x230mm		675x250x230mm		915x250x230mm		1325x250x230mm	
Product Weight	Approx. 6.9kg		Approx. 10.4kg		Approx. 13.5kg		Approx. 19.2kg	



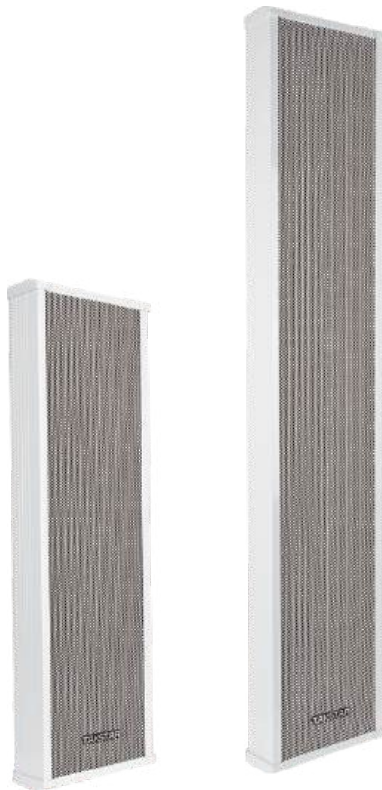
MG-3030YZ/MG-3060YZ/MG-3100YZ/MG-3140YZ Professional Broadcast Column Speaker

Features

- Professional outdoor constant-voltage speakers with 3-inch drivers.
- Designed with all-weather materials, moisture-proof, waterproof and UV-resistant.
- Greatly simplified installation process using included mount parts.
- Drivers utilize 3-inch full-range moisture-proof and waterproof composite material diaphragm, producing warm sound and rich vocals.
- Corrosion-resistant aluminum grille cover reduces weight and simplifies installation and maintenance.

Specifications

Product Type	Professional Column Speaker for Public Address			
Product Model	MG-3030YZ	MG-3060YZ	MG-3100YZ	MG-3140YZ
Speaker Power (AES)	30W	60W	100W	140W
Input Voltage	100V	100V	100V	100V
Sensitivity	89dB	90dB	92dB	95dB
Max SPL	103dB	107dB	112dB	116dB
Frequency Response	150-16000Hz	150-16000Hz	150-16000Hz	150-16000Hz
Driver Quantity	1	2	4	6
Driver Dimensions	3 inches	3 inches	3 inches	3 inches
External Dimensions (mm)	94.5X92.5X210	94.5X92.5X289	94.5X92.5X486	94.5X92.5X684
Installation Method	Wall mount	Wall mount	Wall mount	Wall mount
Mounting Accessory	L-shape brackets + pack of screws	L-shape brackets + pack of screws	L-shape brackets + pack of screws	L-shape brackets + pack of screws
Product Weight	0.93kg	1.42kg	2.47kg	3.47kg



MG-6120YZ/MG-6200YZ Broadcast Waterproof Column Speakers

Features

- IP45 waterproof, suitable for various outdoor occasions with stable broadcasting.
- Full aluminum alloy housing, sunproof, shatterproof, durable and non-deformable.
- Clear and bright sound, elegant appearance, professional dustproof design for effective internal structure protection.
- Long-range design enhances coverage and enables longer transmission distance.
- Dedicated mounting bracket for easy installation and fixation of the column speaker.

Specifications

Model	MG-6120YZ		MG-6200YZ	
Input Voltage	70V	100V	70V	100V
Power (Yellow-Blue) AES	30W	60W	50W	100W
Power (Yellow-Brown) AES	60W	120W	100W	200W
Sensitivity	95dB		97dB	
Max SPL	115dB		120dB	
Frequency Response	140-15kHz			
Woofers	6" unit × 3		6" unit × 5	
Mounting Diagonal Dimension (mm)	660±5		1080±5	
Waterproof Rating	IP45		IP45	
Material	Aluminum Alloy		Aluminum Alloy	
Weight (kg)	Approx. 6.2kg		Approx. 10.2kg	
Product Dimensions	740×227×125mm		1160×227×125mm	



MG-460ZS Rock Speaker

Features

- Clear and balanced sound quality with a wide frequency response.
- Constructed from durable ABS material.
- Waterproof protection against rain damage.
- Realistic design that seamlessly blends with the environment.

Specifications

- Frequency Response: 120Hz-16kHz
- Sensitivity (1m, 1W): 95dB
- Maximum Sound Pressure Level: 109dB
- Input Voltage: 100V
- Power Rating: 60W (AES)
- Woofer: 4" driver
- Tweeter: 3" driver
- Color: Gray
- Weight: Approx. 2.6 kg
- Dimensions: 485x340x90mm

MG-16DY Power Sequencer

Features

- 1-second controllable output delay.
- 16 controllable channels + 2 pass-through channels (18 total).
- 16 controllable channels divided into 8 independent switches, max 30A per channel.
- Residual current protection switch for safety against short circuits, overloads, and leakage.
- One-button pass-through function for harsh environments.
- USB interface for LED lighting connection.
- LED indicators for each channel to show operational status.
- Real-time voltage display for monitoring device voltage.
- High-quality universal sockets ensure secure connections with various plugs.

Specifications

- Number of Channels: 16
- Number of Auxiliary Channels: 2
- Power Capacity per Channel: 220V/30A, 6600W/channel
- Sequencing Switch Time Interval: 1 second
- Indicator Lights: Power/Channel On
- Input/Output Sockets: Universal Connectors
- Power Supply: 220V/50Hz
- Dimensions: 482mm × 88mm × 210mm
- Weight: 4.28kg
- Warranty: 1 year



MG-10FM Digital Tuner

Features

- LCD Display Screen
- FM Tuning: Automatic and manual station scan with stereo output.
- Upward and downward frequency scanning to find all stations within range, automatically saving them in order.
- Direct frequency entry, e.g., inputting 106.10MHz.
- Manual station search with the option to manually save stations.
- Stores over 30 stations with direct selection capability.
- Power Loss Protection: Retains memory even after power disconnection.

Specifications

- Frequency Range: FM 87-108.5 MHz
- Memory Capacity: Stores up to 30 FM stations
- Noise limit sensitivity (FM): Better than 3.5 μ V
- Single signal Selectivity performance: Greater than 40 dB
- Signal-to-Noise Ratio (FM): Greater than 46 dB
- Power Supply: AC 220V/50Hz
- Maximum Current Consumption: Less than 200 mA
- Maximum Output Power: \geq 100 mW
- Stereo Separation: \geq 40 dB
- Dimensions: 485 x 360 x 90 mm
- Net Weight: 4.62 kg



MG-10DM Multifunction DVD Player

Features

- Compatible with multiple disc formats: DVD, CD, MP3, VCD, and HDCD.
- Supports SD/SDHC/USB playback in WAV, MP3, MP2, and WMAAAC formats.
- Capable of playing various music file formats from USB drives.
- Offers multiple playback modes and advanced electronic anti-shock features.
- Equipped with 10-second smart anti-shock technology, utilizing a pre-loading cache mechanism to effectively eliminate vibration interference, ensuring smooth audio playback.

Specifications

- Display: VFD Display Screen + Power LED
- Audio Output: 775mV
- Input Power: 220V/50Hz
- Audio Output Frequency Range: 50-18,000Hz
- Power Consumption: 30W
- Protection: AC Fuse 1A
- Dimensions: 485*360*90 mm
- Net Weight: 3.9 kg
- Gross Weight: 5.28 kg





MG-10FQ 10-Channel Zone Controller

Features

- Independent Zone Control: 10 independent zone switches enable seamless switching without interference.
- Audio Inputs: 4 audio inputs — 2 for background music and 2 for emergency announcements.
- Status Indicators: Green light for background music, red light for emergency priority.
- Zone Management: Two groups (A: zones 1-5, B: zones 6-10) with max output of 2000W per group and 600W per zone.
- Short-Circuit Control: Two types of input signals for all-zone activation and individual zone activation.
- Short-Circuit Outputs: Outputs for both all-zone and individual zone short-circuit signals.
- Dual Relay Design: Dual relay circuitry with ≥ 80 dB isolation to prevent crosstalk.
- Compact Design: 2U rackmount with an aluminum alloy front panel for durability and aesthetics.

Specifications

- Power Supply: AC 220V / 3A
- Input Channels: 2 + 2
- Output Channels: 10 (CH1-CH10)
- Channel Switching Capacity: 150V / 6A
- Power Consumption: 15W
- Dimensions: 483 x 342 x 90 mm

MG-8BS Backup Amplifier Switcher

Features

- Signal carrier detection to prevent interference between audio source and amplifier circuits, reducing false triggers.
- Manual channel switching for convenient self-testing.
- Configurable detection method: signal carrier detection or signal amplitude detection.
- Automatic power amplifier switch-back when a failed primary amplifier is back online.

Specifications

- No. of Controllable Channels: 8
- Channel Operating Capacity: 150V/10A
- Amplifier Gain Requirements: >10dB
- Input Detection Threshold: <50mV
- Power Supply: AC 220V/50~60Hz
- Dimensions: 485x320x88
- Net Weight: 5.3kg
- Gross Weight: 6.35kg



MG-04BL Lightning Protector

Features

- Ground Terminal: Securely connect to earth ground.
- Short Circuit Output: Sends a signal when protection activates.
- Amplifier Signal Output Terminals CH1-CH4: Connects to respective speakers; "HOT" to +, "COM" to -.
- Amplifier Input Terminals CH1-CH4: Connects to respective amplifier output; "HOT" to +, "COM" to -.
- Auto Cutoff: Disconnects output during lightning strike.
- 2U Design: Aluminum alloy panel for durability and aesthetics.

Specifications

- Channels: Four groups (CH1 to CH4)
- Input Capacity: 70/100V, 10A audio signal per channel
- Output Capacity: 70/100V, 10A audio signal per channel
- Continuous Operating Voltage: 240V (RMS)
- Protection Voltage: 280V (RMS)
- 2ms Square Wave Current Capacity: Peak current: 50A
- Short Circuit Output Level: (OV) short circuit signal
- Power Supply: AC220V \pm 10%, 50-60Hz
- Power Consumption: Less than 25W
- Dimensions: 484 \times 350 \times 88 mm



TAKSTAR®

It is our assignment to guarantee a comfortable audio experience and at the same time provide creative solutions for users all around the world.

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