

PRODUCT CATALOG

Security » Transport » Industry » Commerce » Education »
Retail Business » Mosque

SPON



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sponcomm.com

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COMPANY PROFILE

SINCE 2004

SPON Communications is a trusted IP audio manufacturer with over 20 years of innovation and industry experience. To date, we have delivered more than 6 million intercom devices worldwide.

Headquartered in Hunan, China, SPON operates a 57,000 m² integrated facility that brings together R&D, design, manufacturing, and sales under one roof.

As a technology-driven company, SPON consistently invests in innovation—13% of our annual revenue is dedicated to R&D—ensuring continuous advancements in IP audio, intercom, and intelligent communication technologies.

4

Lines.
Safer. Connected.



PA System



Intercom System



Conference System



Surveillance Mic

57K

m² of Expansive Facility
Space

500+

Employees

200+

Core Patents



COMPANY SPON HISTORY

2002

Pioneered IP Audio in China

Launched the first IP Audio in digital language labs. Introduced the first IP campus PA products.

2007

SPON Brand Strategy Launched

Launched the SPON brand, featuring NAS series two-way IP PA products.

2009

Banking Emergency Call Solution Released

Customized IP emergency help system for banks, bringing advanced network communication to the financial industry.

2008

IP Intercom System Introduced

Released internal IP communication system, integrating IP PA with IP intercom

2017

SPON Industrial Park Development

We acquired 23 acres of land and built a 20,000+ m² high-tech facility, now fully operational with advanced network audio production lines.

2016

XCoIP Technology Launched

Introduced XCoIP for cross-platform, cloud-based, and reliable audio communication.

2024

Core Acoustic Technologies Released

Launched HIAT, SAT, and AiAT—three self-developed acoustic technologies—building a full-chain technical ecosystem for future intelligent audio.

2025

Sonfidus Voice Alarm System Released

Launched the Sonfidus voice alarm and evacuation system, featuring multi-protocol audio integration, large-scale network matrix switching, and high-reliability performance.



Why Choose Us



Exceptional Stability

Over 10 million devices are running continuously around the world, delivering reliable performance day and night.



Highly Customizable Solutions

We customize hardware and software to fit your needs — from size and materials to interface and software features. We invest 13% of annual revenue into R&D, ensuring continuous innovation and flexibility.



High Quality Assurance

With a strict quality management system, we maintain excellence at every stage—from R&D and material sourcing through flexible production to final assembly.



Extensive Product Range

With over 3,000 product types, we offer a wide range of solutions for various applications and industries

Core Technology

Through our dedicated focus on audio and technical expertise, SPON offers complete audio solutions. That's why we're a leading name in the audio communication industry.

01

Audio Collection & Processing

To get clear sound, collection and processing are key. At SPON, we use advanced technologies like **microphone arrays**, **noise reduction**, and **echo cancellation**. We put these technologies into products like 128MIC pickups, horn detectors, outdoor Surveillance MIC, and VMIC acoustic imagers. Together, they make sure our devices can pick up sound clearly.

Audio Transmission

02

For audio systems to perform optimally, high-quality, fast transmission is essential. SPON employs the **SIP standard protocol**, **Forward Error Correction**, and **high-quality audio codec technology**. We also support standards like DANTE and AES67. Our reliable, high-speed systems prevent audio signal loss or delay.

03

Audio Playback

Playback quality is critical. Our phased array sound columns, built with **acoustic beamforming technology**, excel in airports, stations, theaters, and outdoor environments. Our balanced sound speakers deliver consistent volume across any room, ensuring clear, high-quality audio for all listeners.

Audio Analysis

04

As AI advances, intelligent audio analysis becomes increasingly important. SPON analyzes and tags sound, **converts speech to text**, applies **deep noise suppression algorithms**, and recognizes abnormal sounds. This technology can monitor equipment such as wind turbines for proper operation. Substantial investment in research has enabled us to develop advanced deep learning algorithms for these applications.

TRUSTED WORLDWIDE

From bustling cities to remote communities, our systems provide reliable communication and safety where they are needed most. This global footprint reflects not only our technological strength but also the trust we've built with partners and customers around the world.



Our Partners

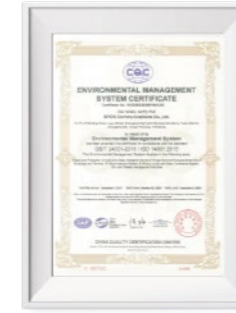


Global Certifications

Our commitment to quality, safety, and sustainability is recognized through internationally trusted certifications. These standards demonstrate that our products, manufacturing processes, and management systems meet strict global requirements.



ISO9001



ISO14001



ISO20000



ISO27001



ISO45001



EMC



BCTC



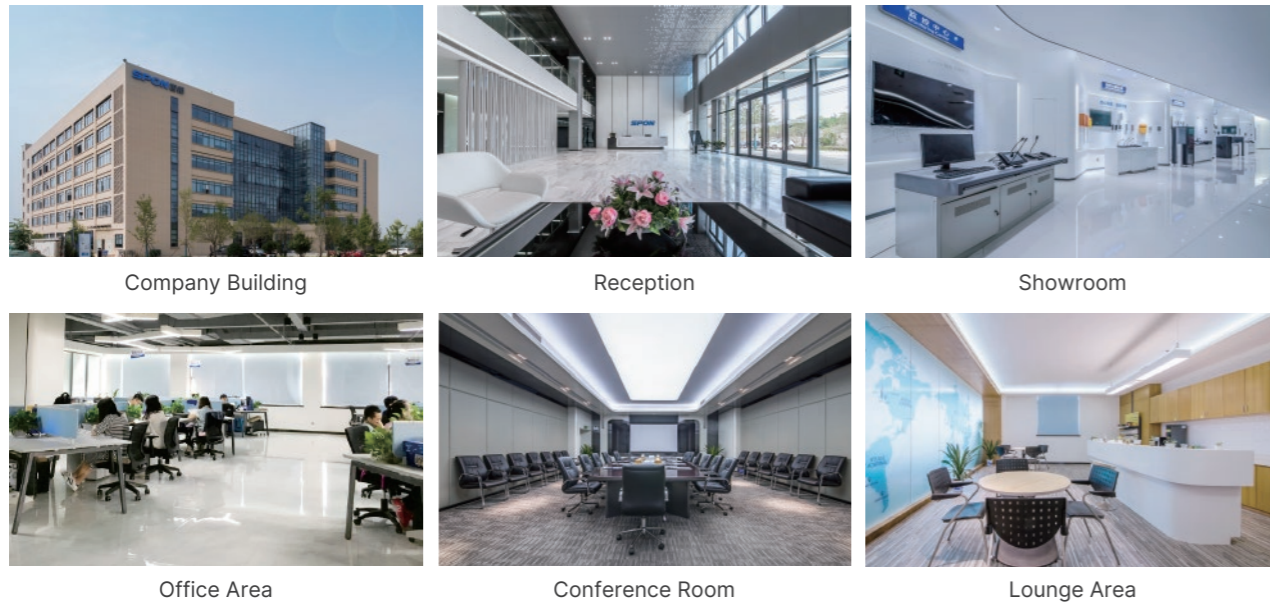
CE Certificate

Our Commitment to Quality

Quality is built into every step—from R&D to production—delivering reliability, trust, and real customer value.



SPON OFFICE BUILDING



Company Building

Reception

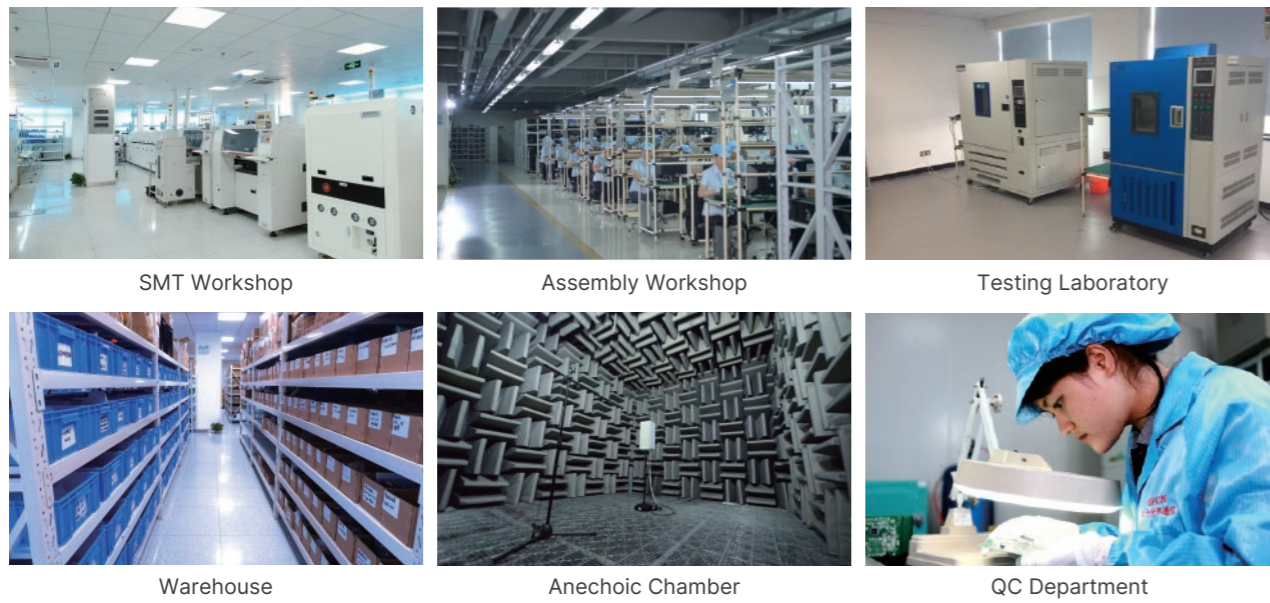
Showroom

Office Area

Conference Room

Lounge Area

SPON DUST-FREE WORKSHOP



SMT Workshop

Assembly Workshop

Testing Laboratory

Warehouse

Anechoic Chamber

QC Department

SPON GLOBAL MARKETING



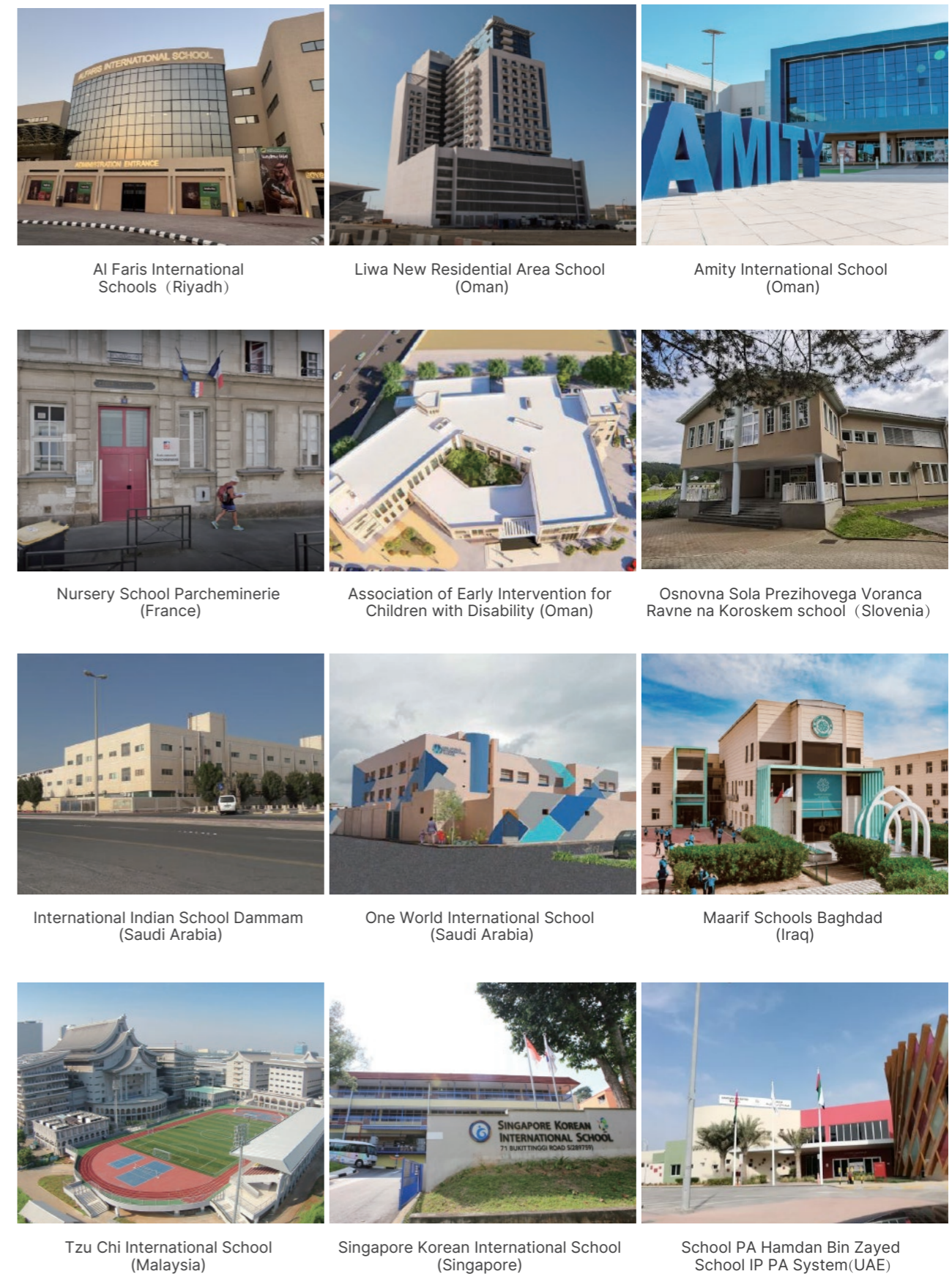
Intersec Dubai

IFSEC UK

ISE SPAIN

PROJECT CASES

SCHOOL



Al Faris International Schools (Riyadh)

Liwa New Residential Area School (Oman)

Amity International School (Oman)

Nursery School Parcheminerie (France)

Association of Early Intervention for Children with Disability (Oman)

Osnovna Sola Prezihovega Voranca Ravne na Koroskem school (Slovenia)

International Indian School Dammam (Saudi Arabia)

One World International School (Saudi Arabia)

Maarif Schools Baghdad (Iraq)

Tzu Chi International School (Malaysia)

Singapore Korean International School (Singapore)

School PA Hamdan Bin Zayed School IP PA System (UAE)

PROJECT CASES

PRISON



Darussalam Prison (Brunei)

Al Awir Central Prison (UAE)

New Bilibid Prison (the Philippines)



Changi Prison Complex (Singapore)

Sremska Mitrovica Prison (Serbia)

Dob pri Mirni Prison (Slovenija)

FACTORY



Pakistan Cables Nooriabad Factory (Pakistan)

Oruçoğlu Yağ Sanayi (Turkey)

CPF Food Factory (Thailand)



Abul Kalam Spinning Mill (Bangladesh)

EXXONMOBIL factory (Singapore)

Akij Plastics Chhatak Plant (Bangladesh)

PROJECT CASES

SAFE CITY



Manila Bay (Philippines)

Safe City Intercom Project (Ecuador)

Bahria Enclave Islamabad (Pakistan)



Etihad Modern Art Gallery (UAE)

King Salman Park (Saudi Arabia)

Port of Guayaquil (Ecuador)

EXPRESSWAY



Khobar-Dammam-Dhahran Expressway-Highway 613 (Saudi Arabia)

Jeddah - Makkah Expressway (Saudi Arabia)

Islamabad-Murree-Muzaffarabad Expressway - E75 Expressway (Pakistan)



Al Khor Expressway (Qatar)

Autoroute du Soleil - A7 (France)

A4 Motorway (Matosinhos - Amarante) (Portugal)

PROJECT CASES

HOSPITAL



Centro Hospitalar Universitário
(Portugal)



Aster Sanad Hospital Riyadh
(Saudi Arabia)



Pranangklao Hospital
(Thailand)



Royale Hayat Hospital
(Kuwait)



Santa Maria Nuova Hospital
(Italy)



Hospital De Montereau
(France)

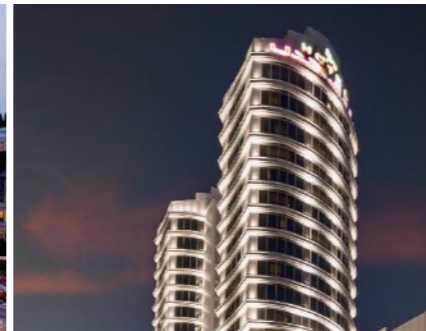
COMMERCIAL BUILDING



King Abdullah Financial District
(Saudi Arabia)



Selangor Darul Ehsan Shopping Center
(Malaysia)



Hadab Hotel
(Saudi Arabia)



Hilton Hotel
(Malaysia)



Radisson Blu Hotel Muscat
(Oman)



KINGSQUARE Condo
(Thailand)

Application Solutions

Powering Every Industry.



School Solution

IP PA & Intercom System

Campus Announcements

- Administrative and teaching notices can be broadcast instantly with one click, ensuring messages reach the entire campus in real time.

Scheduled Broadcasting

- Class bells and break-time music are played automatically, helping maintain a consistent and efficient campus schedule.

Background Music

- Supports scheduled, random, and playlist-based music playback to enrich the campus atmosphere.

Even Sound Coverage

- Balanced classroom sound distribution ensures consistent audio quality in every corner, reducing listening fatigue.

Visual Information Display

- LED clocks display real time and notifications, delivering information clearly and improving classroom management efficiency.

Intercom & Emergency Assistance

- In case of equipment issues or campus incidents, users can request assistance from the control center through two-way intercom.

Emergency Broadcasting

- Emergency broadcasts can be activated with one touch, overriding all current audio to ensure rapid guidance during critical situations.

Zoned Broadcasting Management

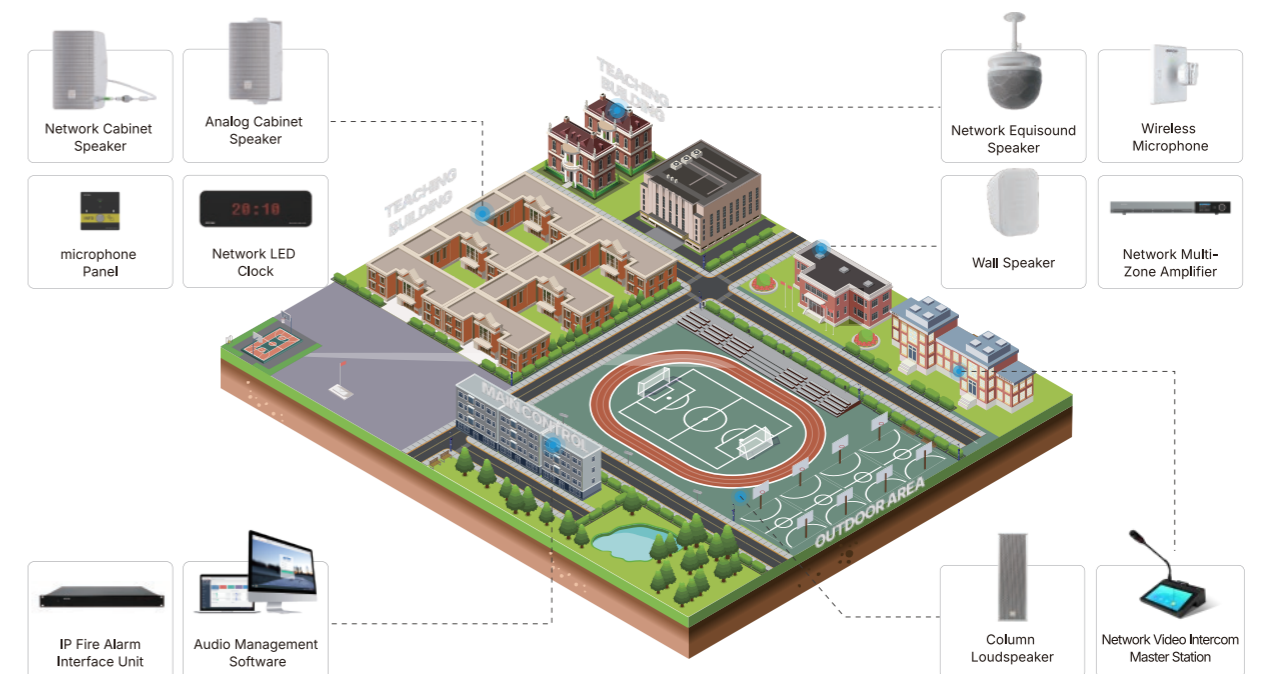
- Flexible zoning by building, grade, or dormitory area enables targeted broadcasts without disturbing other areas.



Solution Overview

SPON's campus PA system is designed for teaching buildings, playgrounds, corridors, and public areas across the school campus. It supports daily announcements, scheduled bell ringing, teaching audio playback, emergency broadcasting, campus information delivery, and background music.

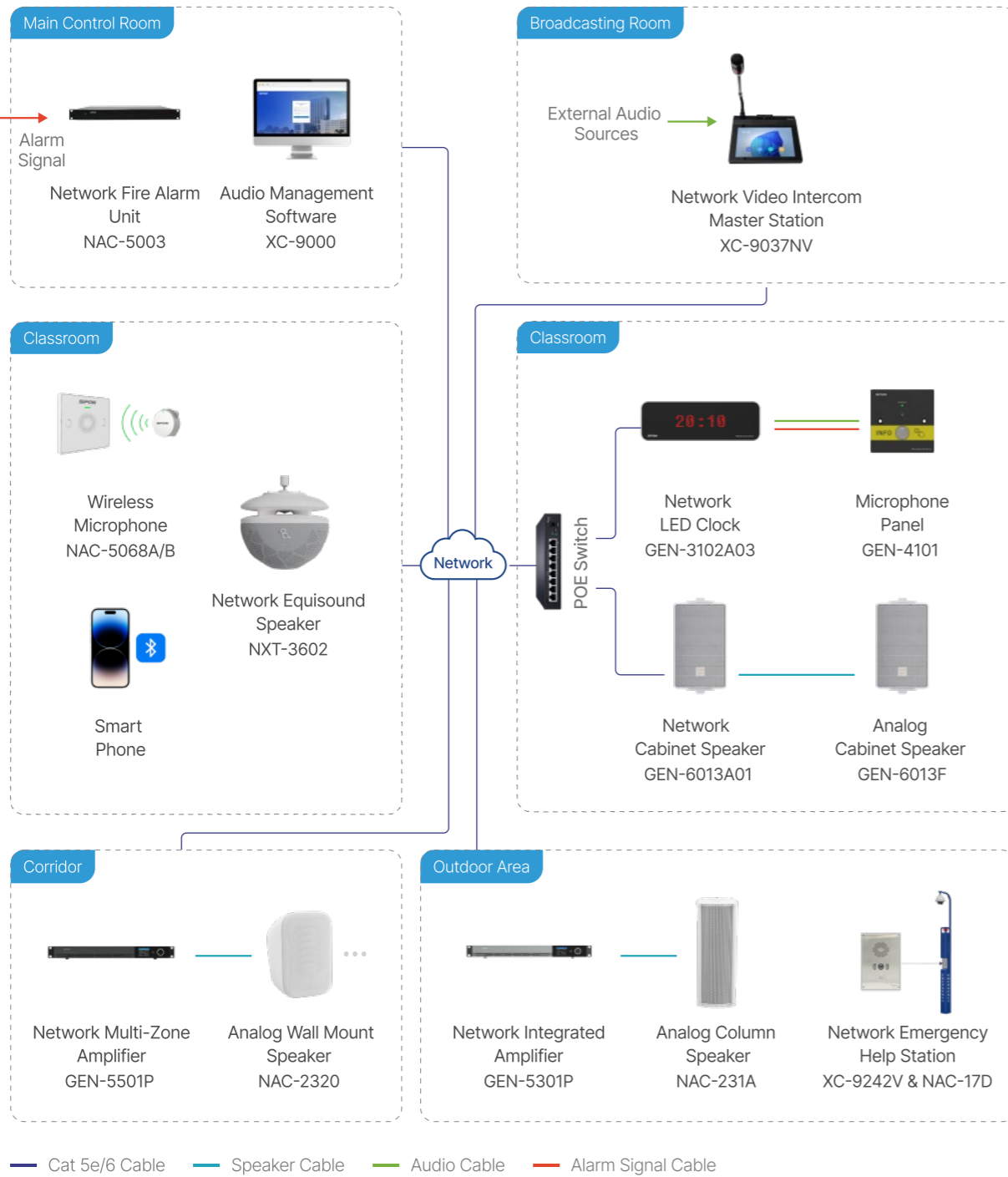
Built on a reliable IP network architecture, the system offers wide coverage and stable operation. With flexible zoning, remote management, multi-terminal control, and integration with academic administration systems, it provides a comprehensive audio solution for campus management and cultural development.



School Solution

IP PA & Intercom System

Topology Diagram



Prison Solution

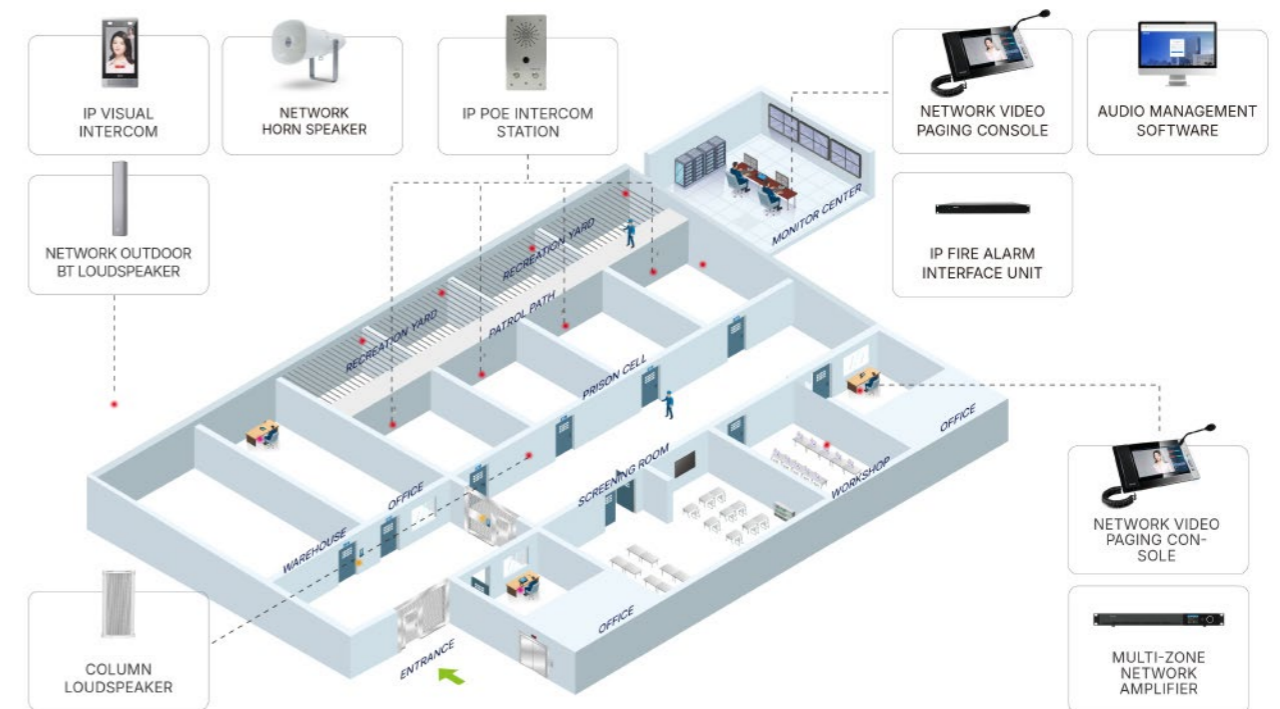
IP PA & Intercom System



Solution Overview

The prison intercom and emergency command system covers cell blocks, corridors, guard stations, and monitoring centers, enabling one-touch emergency alarms, two-way intercom, emergency broadcasting, and video integration.

Built on a secure IP-based network architecture, the system supports centralized management, multi-level access control, and seamless integration with video surveillance platforms. Through functions such as intercom, emergency calls, live announcements, and audio monitoring, the system significantly enhances prison security and emergency response capabilities.



Prison Solution

IP PA & Intercom System

One-Touch Emergency Call

- Inmates can request assistance directly from cell terminals, allowing guards to respond quickly and ensure safety.

Visual Intercom Integration

- Video intercom links with cell cameras, enabling the control center to monitor on-site conditions in real time and improve security management efficiency.

Zoned Paging & Live Announcements

- The control center can broadcast warnings, instructions, or announcements to specific areas or zones as required.

Intercom Recording

- All intercom communications are automatically audio and video recorded, providing reliable evidence for incident review, accountability, and security supervision.

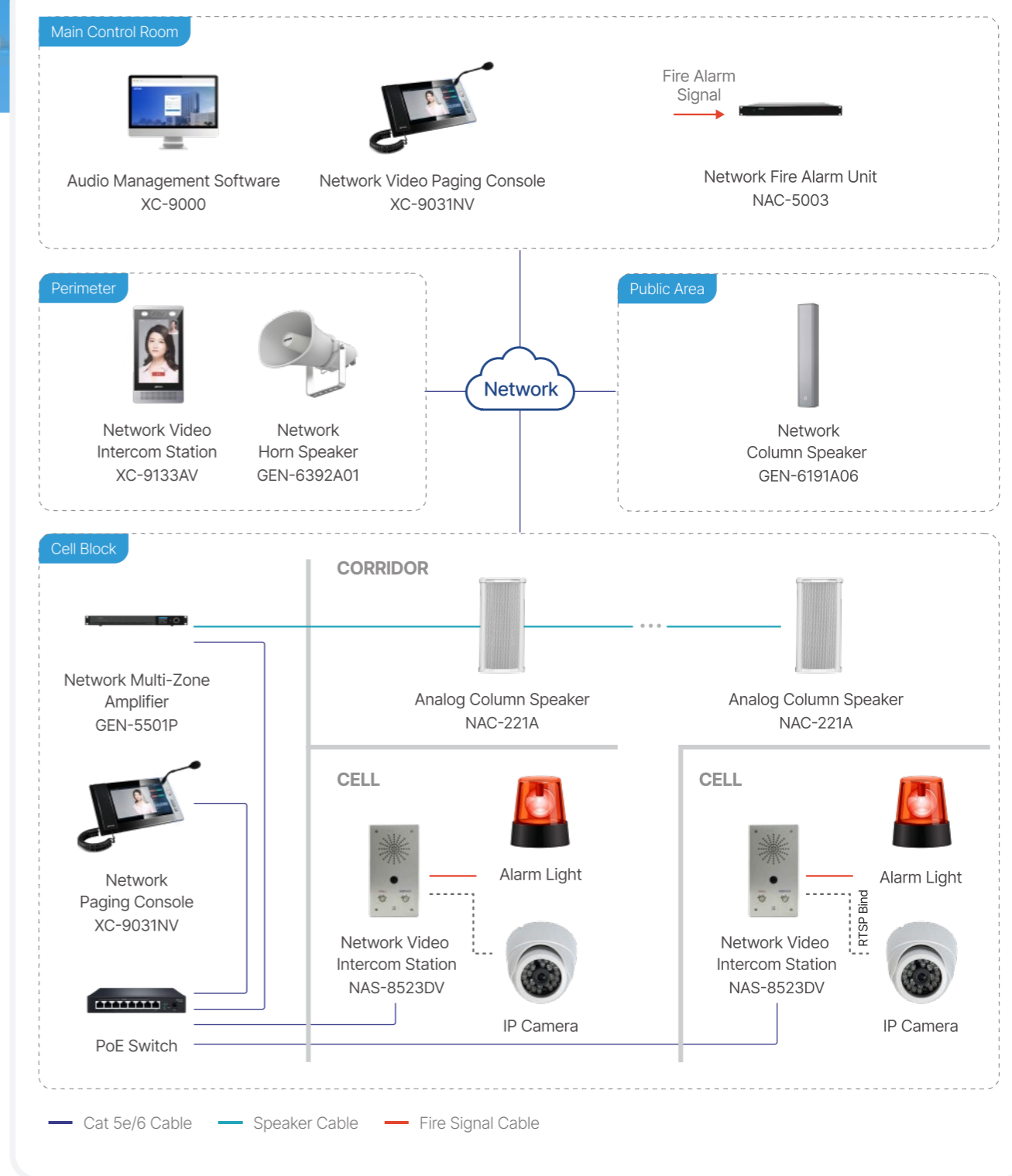
Multi-Level Management

- Clear role separation and permission control across central command, sub-areas, and cell blocks, ensuring secure and orderly operation.

High-Protection Design

- Terminals feature metal enclosures and anti-tamper construction, supporting stable 24/7 continuous operation in high-security environments.

Topology Diagram



Factory Solution

IP PA & Intercom System



Emergency Assistance

- Intercom terminals installed in production areas allow frontline staff to request help instantly during emergencies, ensuring rapid response to safety incidents.

Production Dispatch Broadcasting

- Managers can issue real-time production instructions via broadcast, enabling orderly coordination among workshop personnel and improving operational efficiency.

Background Music Playback

- Background music can be played during breaks or non-production periods to create a more comfortable working environment, without affecting the priority of emergency broadcasts.

Scheduled Bell Ringing

- The system supports automatic bell scheduling based on shift plans or working hours, such as start/end of shifts and break reminders, helping standardize production management.

Fire Alarm Linked Broadcasting

- Integrated with the fire alarm system, emergency broadcasts are triggered immediately upon alarm activation, delivering evacuation instructions across the factory to ensure employee safety.

Intercom & Emergency Assistance

- In case of equipment issues or factory incidents, users can request assistance from the control center through two-way intercom.

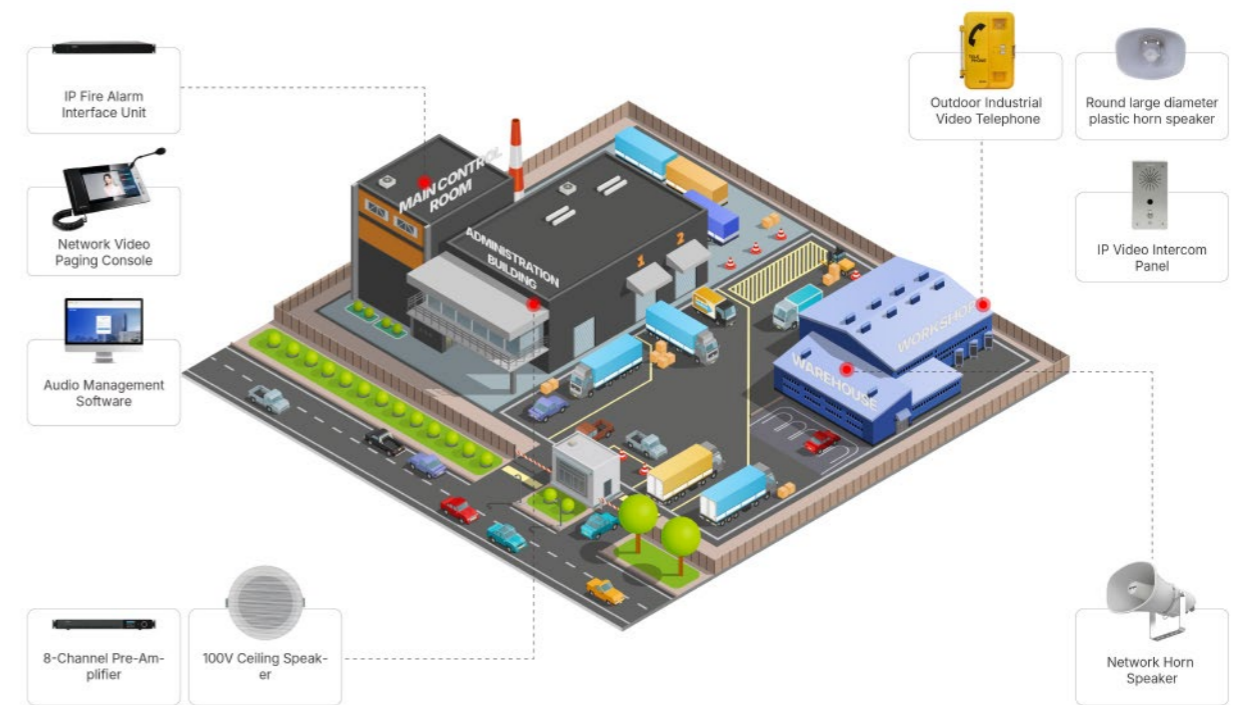
Production Line Intercom

- In restricted production areas where personal mobile devices are not allowed, workers can use network intercom terminals or SIP phones to instantly contact the control room during production line failures, ensuring clear, two-way communication without delay.

Solution Overview

Factory workshops are typically large, noisy, and operationally complex. An IP PA and intercom system provides an effective solution for production safety management, emergency handling, dispatch communication, and site-wide coordination.

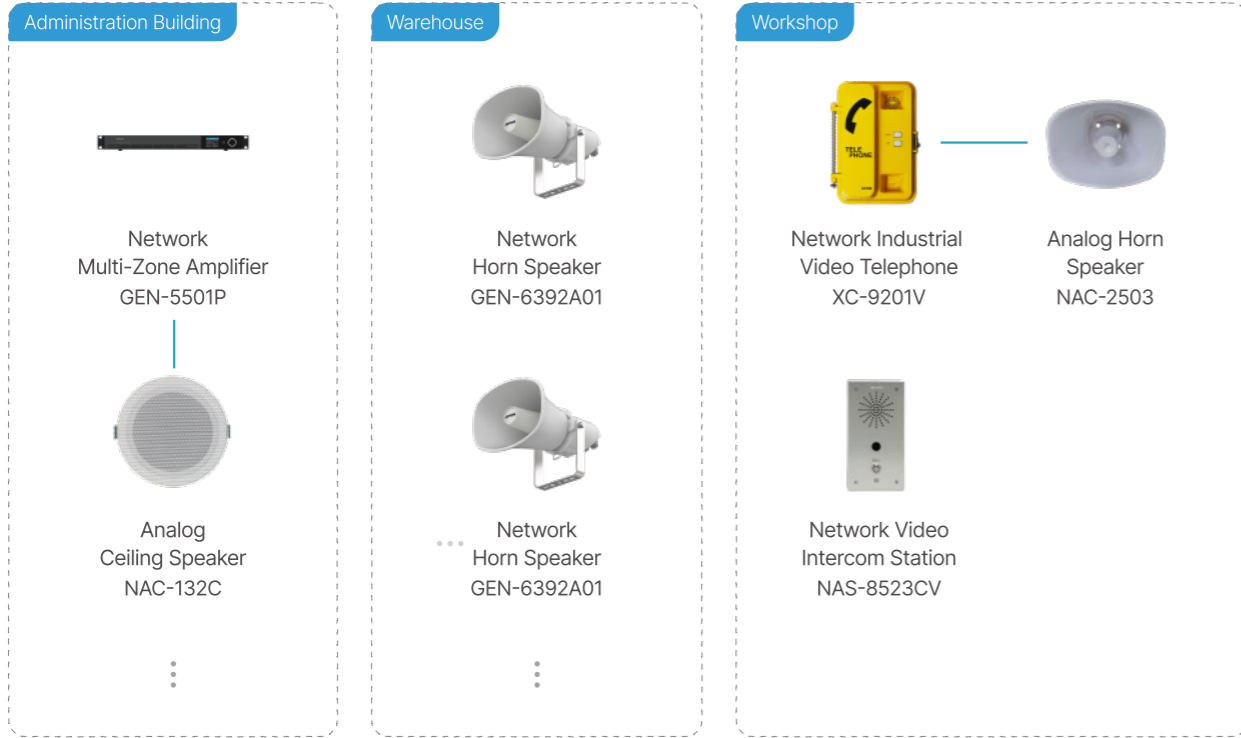
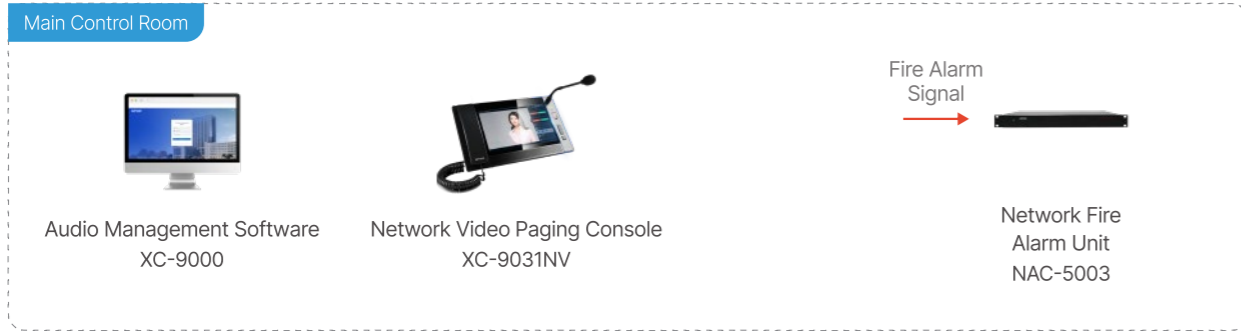
By deploying network speakers, intercom stations, paging consoles, and a centralized management platform over the IP network, the system enables reliable communication and efficient management across the entire factory.



Factory Solution

IP PA & Intercom System

Topology Diagram



— Cat 5e/6 Cable — Speaker Cable — Fire Signal Cable

Safe City Solution

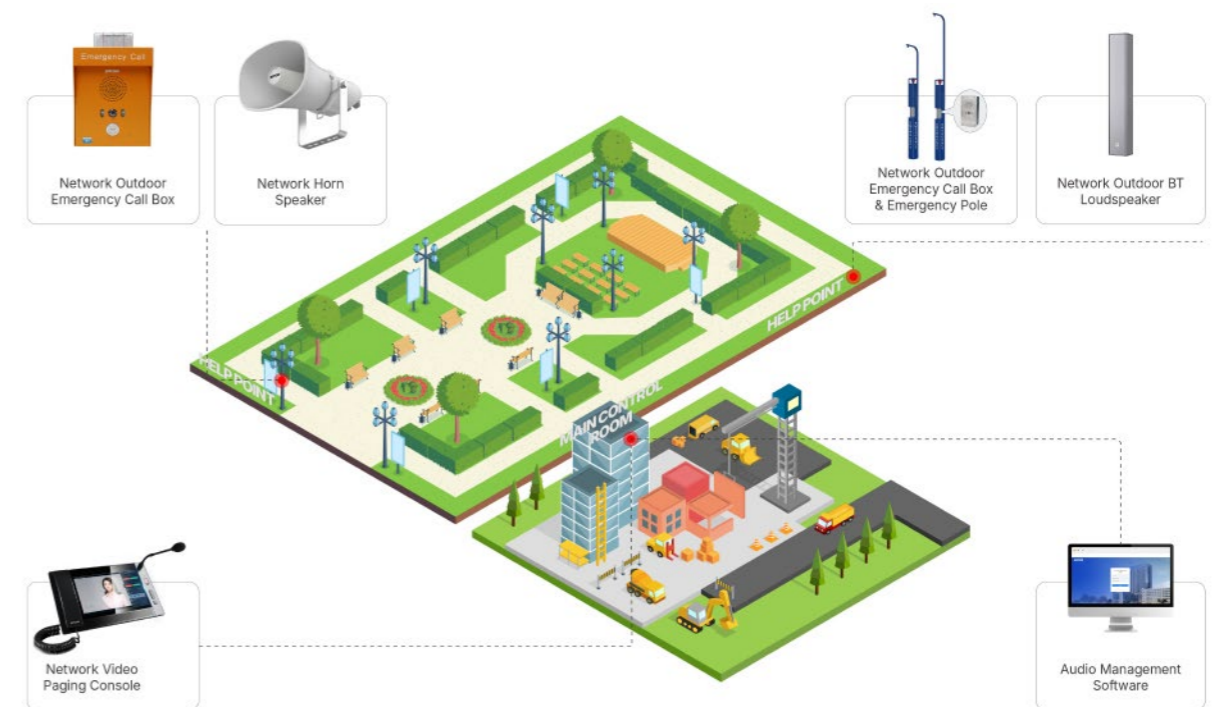
IP PA & Intercom System



Solution Overview

The system is built on a standard IP network architecture, integrating video intercom, emergency call, public address, and alarm linkage into a unified platform.

Designed for urban public spaces, it enables real-time communication, rapid response, and centralized dispatching, providing a reliable solution for daily information delivery and emergency incident handling.



Safe City Solution

IP PA & Intercom System

One-Touch Emergency Call

- Citizens can instantly contact the command center via emergency call poles, helping enhance public safety across the city.

HD Video & Two-Way Intercom

- Integrated with surveillance systems, the control center can view live video and communicate by voice in real time, improving incident response and on-site guidance.

Emergency Broadcasting

- During emergencies, safety instructions or evacuation messages can be broadcast to designated areas, guiding the public and reducing risks.

Zoned Management

- Flexible zoning by streets, communities, transportation hubs, or key facilities allows single-zone or multi-zone broadcasting without mutual interference.

Visual Information Display

- LED clocks display real time and notifications, delivering information clearly and improving urban management efficiency.

Topology Diagram

Main Control Room



Audio Management Software
XC-9000



Network Video Paging Console
XC-9031NV



Network Video Paging Console
XC-9031NV

Network

Help Point



Network Column Speaker
GEN-6191A06



Network
Emergency Help Station
XC-9242V+NAC-17D



Network Horn Speaker
GEN-6392A01



Network Horn Speaker
GEN-6392A01



— Cat 5e/6 Cable

Expressway Solution

IP PA & Intercom System



One-Touch Emergency Call

- Provides instant assistance for tunnel incidents and roadside emergencies, ensuring rapid response in critical situations.

Dispatch Intercom

- Enables seamless communication between toll stations and the control center, improving dispatch efficiency.

Highway Emergency Broadcasting

- Delivers real-time alerts for severe weather, traffic accidents, or roadworks, helping guide vehicles safely and smoothly.

Camera Integration

- Upon an emergency call or alarm, the system automatically displays nearby camera footage, supporting faster assessment and response.

Harsh-Environment Design

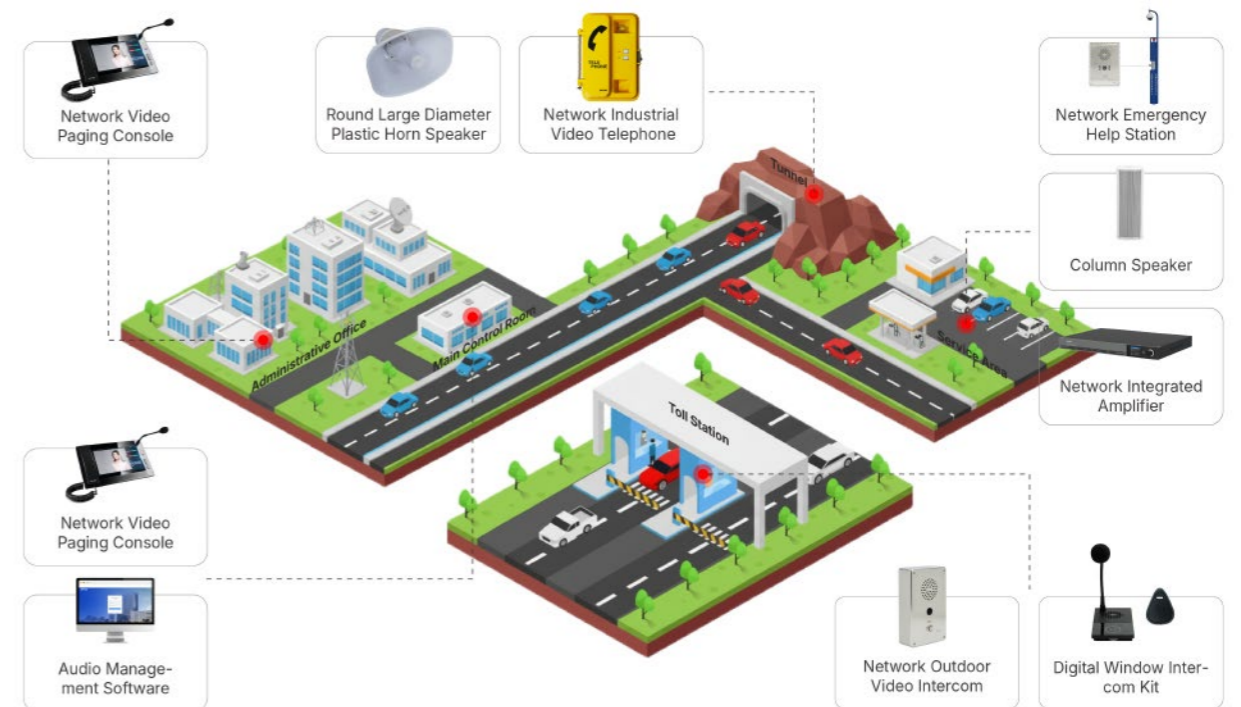
- Terminals are designed to be waterproof, dustproof, wind-resistant, ensuring reliable operation in outdoor conditions.

Self-Service Toll Booth Intercom

- At unmanned or self-service toll booths, drivers can use the intercom to contact the control center for assistance with payment issues or emergencies, ensuring smooth traffic flow and timely support.

Solution Overview

The expressway IP intercom and emergency PA system covers toll stations, tunnels, service areas, and main road sections. It supports one-touch emergency calls, dispatch intercom, tunnel broadcasting, video integration, and traffic guidance announcements, improving road safety and traffic management efficiency.



Expressway Solution

IP PA & Intercom System

Topology Diagram



Retail Store Solution

IP PA System



Solution Overview

We provide two retail PA solutions: one for small stores and one for chain stores. The small-store solution focuses on simple setup and cost-effective audio expansion, while the chain-store solution enables cloud broadcasting and unified management across multiple branches. Both offer flexible deployment and reliable audio coverage for different store needs.

Cloud-Based Unified Control

- The NXT-2102 units in stores register to the cloud platform, enabling remote BGM scheduling, paging, and device management through the mobile App or web portal.

Simple Plug-and-Play Deployment

- The NXT-2102 supports PoE or DC power, compact wall-mount installation, and quick setup with minimal wiring—ideal for fast retail rollouts.

Flexible Solutions for Two Store Types

- Small stores can use GEN-6213A01 as a standalone IP speaker with Bluetooth playback, while larger branches can integrate NXT-2102 with either legacy analog amplifiers or NXT-5101 15W 4Ω wall speakers that are designed for the NXT-2102 for clean audio coverage.

Low-Cost Expansion With GEN-6213A01

- GEN-6213A01's built-in 4×3W amplifier can drive up to three GEN-6213F speakers, expanding coverage while keeping costs to a minimum.

Direct IP Audio for Compact Chain Stores

- When paired with NXT-5101 speakers, NXT-2102 delivers clean 15W output and simple wiring, ideal for newly opened or smaller chain outlets.

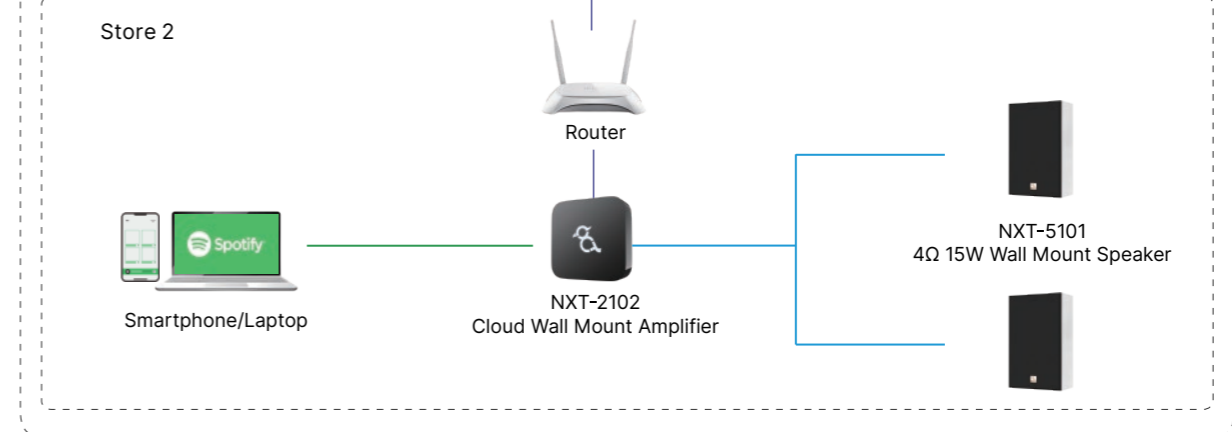
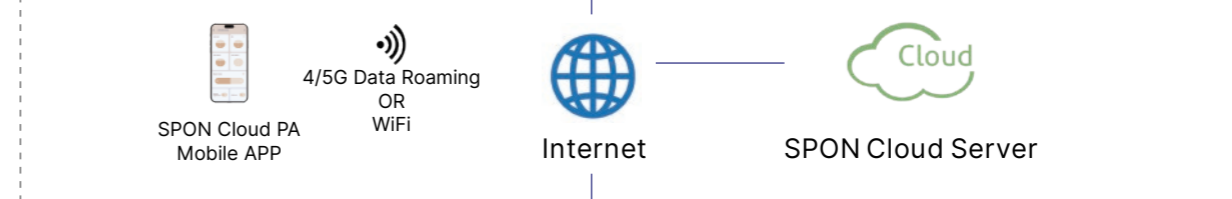
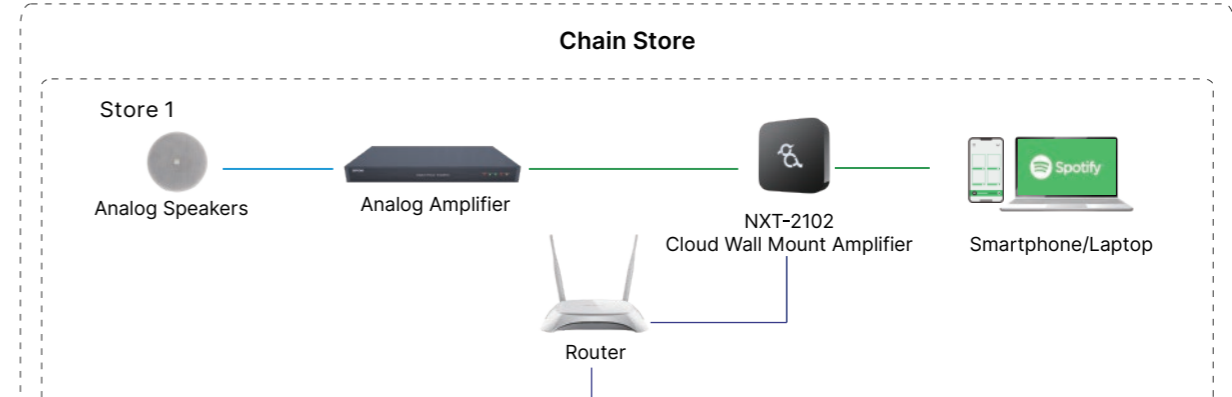
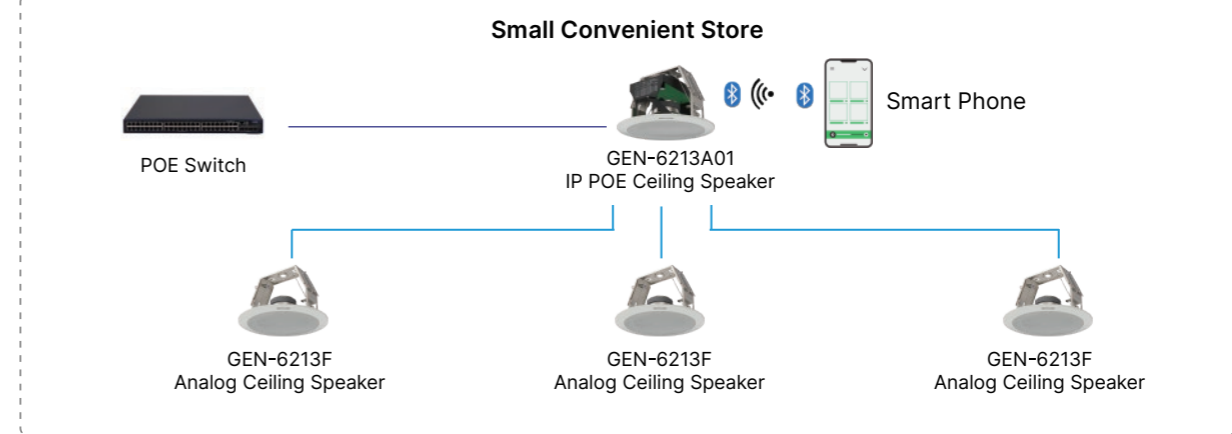
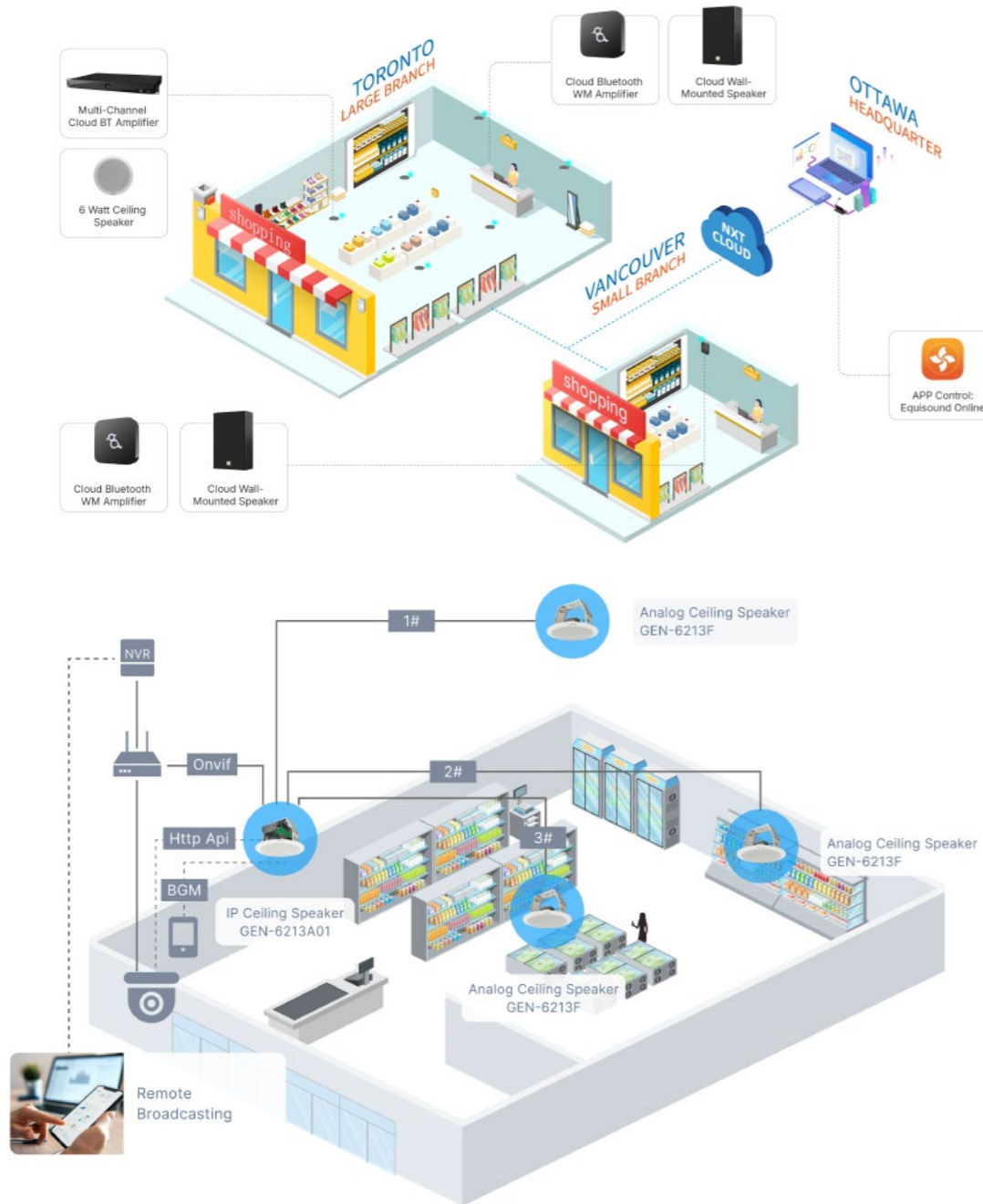
Cloud Amplifier With Analog Compatibility

- NXT-2102 provides line-out to existing analog amplifiers, enabling wide-area coverage with legacy speakers while adding cloud features at a low upgrade cost.

Retail Store Solution

IP PA System

Topology Diagram



— Network Cable — Audio Cable — Speaker Cable

Mosque Solution

PA System



Flexible Audio Source Input

- Supports Quran recitation, sermons, background audio, and external sources. CD players, mobile devices, and wired or wireless microphones can be easily connected to meet different prayer and event needs.

Zoned Sound Distribution

- Independent audio control for prayer halls, minarets, and functional areas, ensuring clear and balanced sound delivery in each zone.

Independent Microphone EQ Control

- Each microphone channel supports separate low, mid, and high frequency adjustment, providing natural and clear voice reproduction for sermons and Adhan in different acoustic environments.

One-Touch Preset Sound Modes

- Preset modes such as PLATE, DOME, DELAY, and HALL can be selected with one touch. Reverb parameters can be fine-tuned to match the atmosphere of prayers and religious events.

Clear Voice with Echo Control

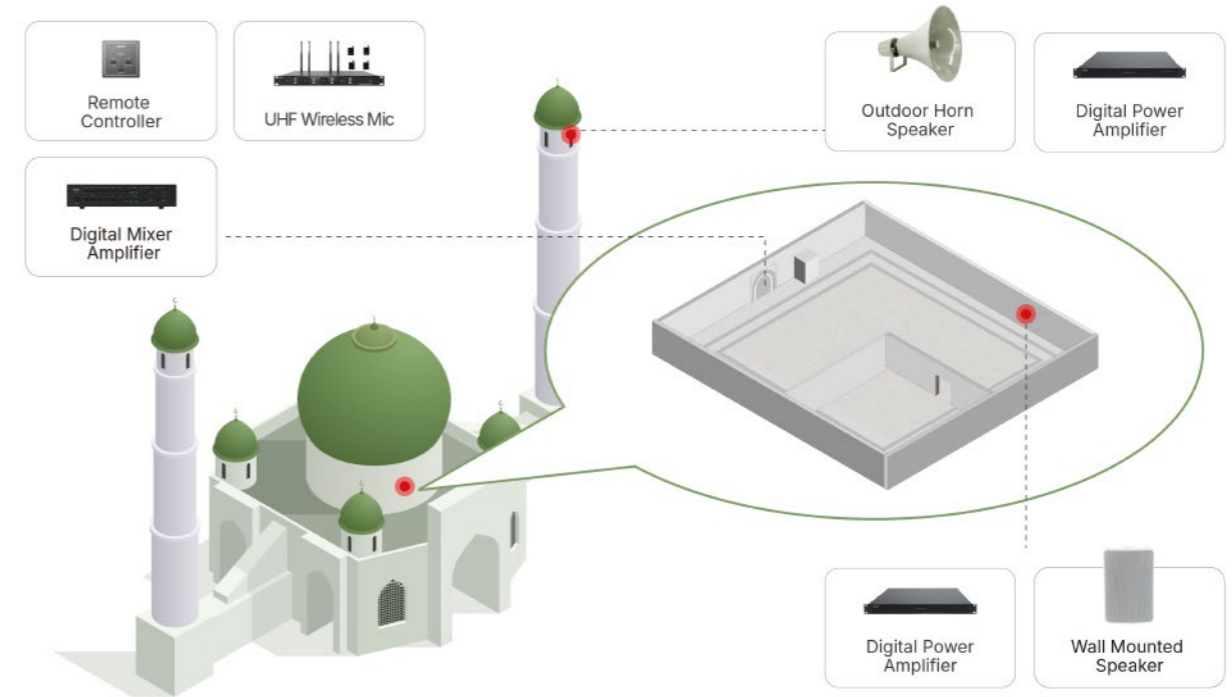
- Advanced audio processing minimizes echo and reverberation in large prayer halls, ensuring clear and intelligible voice for sermons and recitations.

One-Touch Remote Control

- With a dedicated remote controller, operators can manage both indoor and outdoor audio with a single touch, ensuring smooth control without interrupting prayers.

Solution Overview

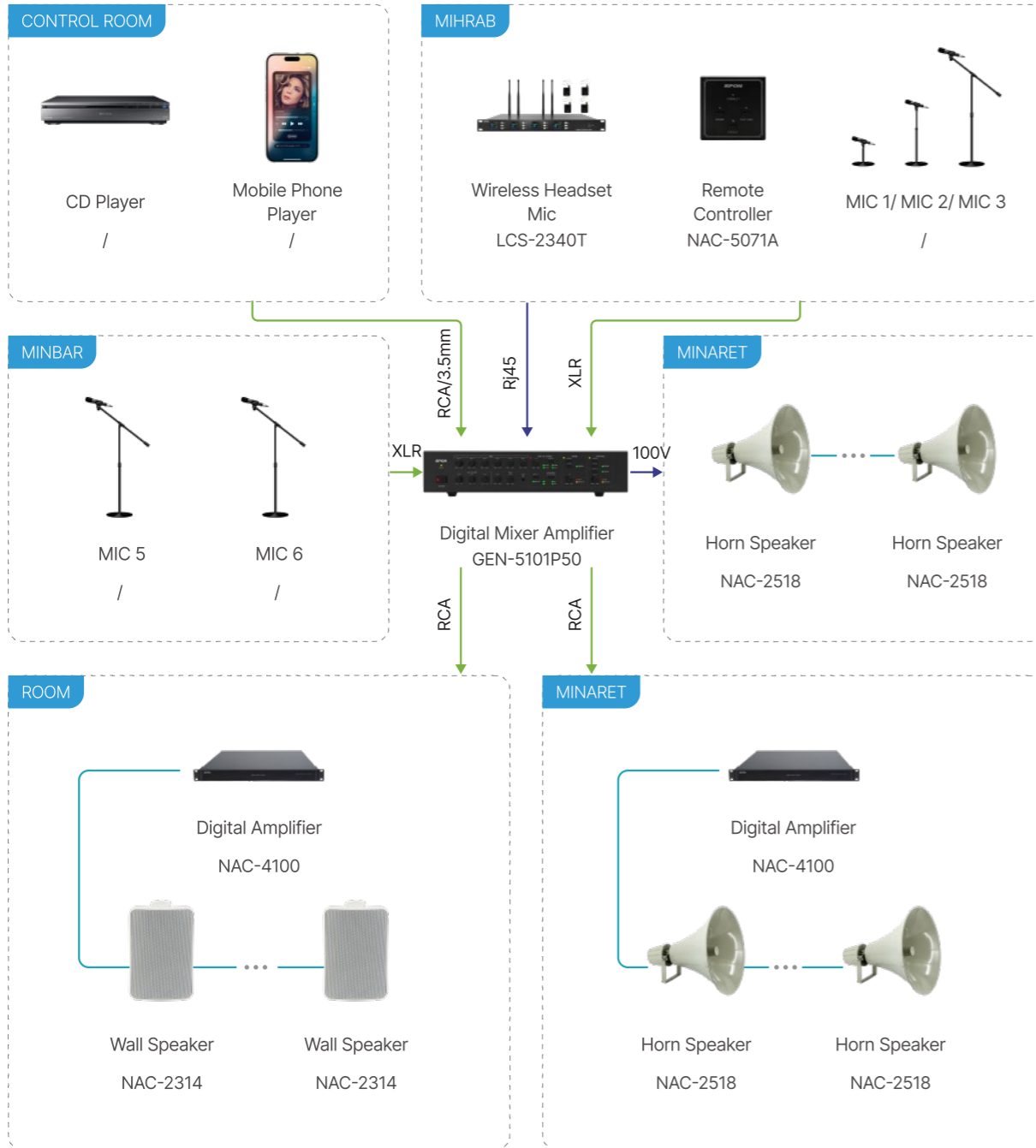
The mosque sound reinforcement system is designed for daily prayers, call to prayer (Adhan), sermons, and religious speeches. By combining microphones, amplifiers, and loudspeakers, it delivers clear and even sound coverage for both indoor and outdoor areas, ensuring worshippers and audiences can hear comfortably and clearly.



Mosque Solution

IP PA & Intercom System

Topology Diagram



— Cat 5e/6 Cable — Speaker Cable — Audio Cable

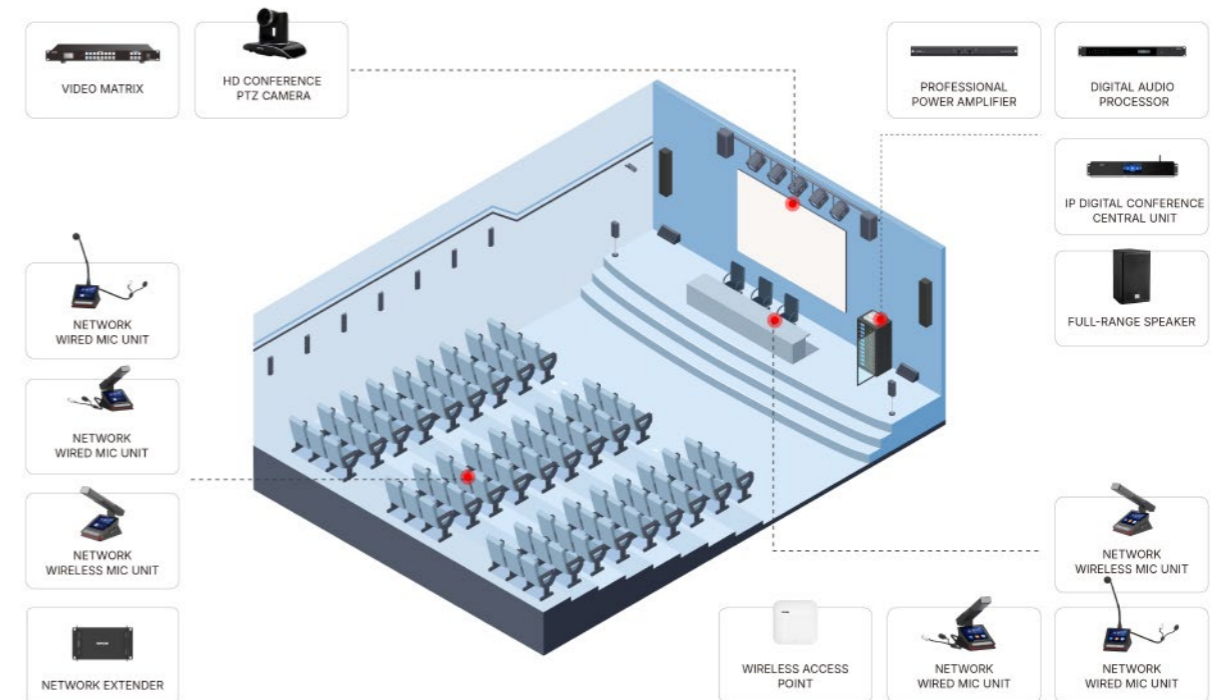
Summit Conference

Network LCN Series Conference System

Solution Overview

The SPON LCN conference system is designed for large-scale meetings, forums, and high-level summits. It integrates attendance check-in, voting, speech management, simultaneous interpretation, and automatic camera tracking into a single, unified platform.

Powered by stable and professional-grade equipment, the system delivers clear speech, smooth collaboration, and efficient management—ensuring conferences run efficiently, orderly, and reliably from start to finish.



Summit Conference

Network LCN Series Conference System

Topology Diagram

Flexible Multi-Topology Deployment

- Supports daisy-chain, ring, and star connection topologies for flexible system design, stable operation, and easy expansion.
- Also supports hybrid networking with wired and wireless conference microphones.

Web-Based Visual Management

- A visual web interface provides real-time monitoring of device status and speaking activity. The UI is customizable, enabling one-click system control and intelligent venue management.

Automatic Video Tracking

- Cameras automatically focus on the active speaker, ensuring clear meeting records and enhancing the on-site participant experience.

Dante & AES67 Audio Interface

- Supports Dante and AES67 network audio, enabling seamless integration and flexible audio expansion with third-party audio systems.

Rich Conference Functionality

- Supports a full range of conference functions, including speech, attendance, discussion, voting, and smart tea service.

High-Redundancy System Backup

- Features network-level hot standby and cascading network expansion to ensure high reliability and uninterrupted operation.

AI Noise Reduction

- Built-in AI noise reduction with three adjustable levels significantly improves speech clarity and gain.
- Effectively suppresses transient noises such as table tapping, coughing, and page turning, delivering cleaner and more intelligible audio.

16-Channel Simultaneous Interpretation

- Built-in 16×16 simultaneous interpretation channels support real-time multilingual distribution, making the system ideal for international conferences and multilingual forums.



Boardroom Conference

Network LCM Series Conference System



Speech & Discussion Management

- Supports chairman and delegate units, with functions such as request-to-speak, speech authorization, time-limited speaking, and orderly meeting control.

Automatic Camera Tracking

- The camera automatically focuses on the active speaker, ensuring clear meeting records and enhancing both on-site and remote participation experiences.

Recording & Archiving

- Supports full meeting recording, with audio files stored and archived for post-meeting review and documentation.

Attendance & Voting

- Enables quick meeting check-in and electronic voting, with real-time result statistics to improve meeting efficiency and decision-making.

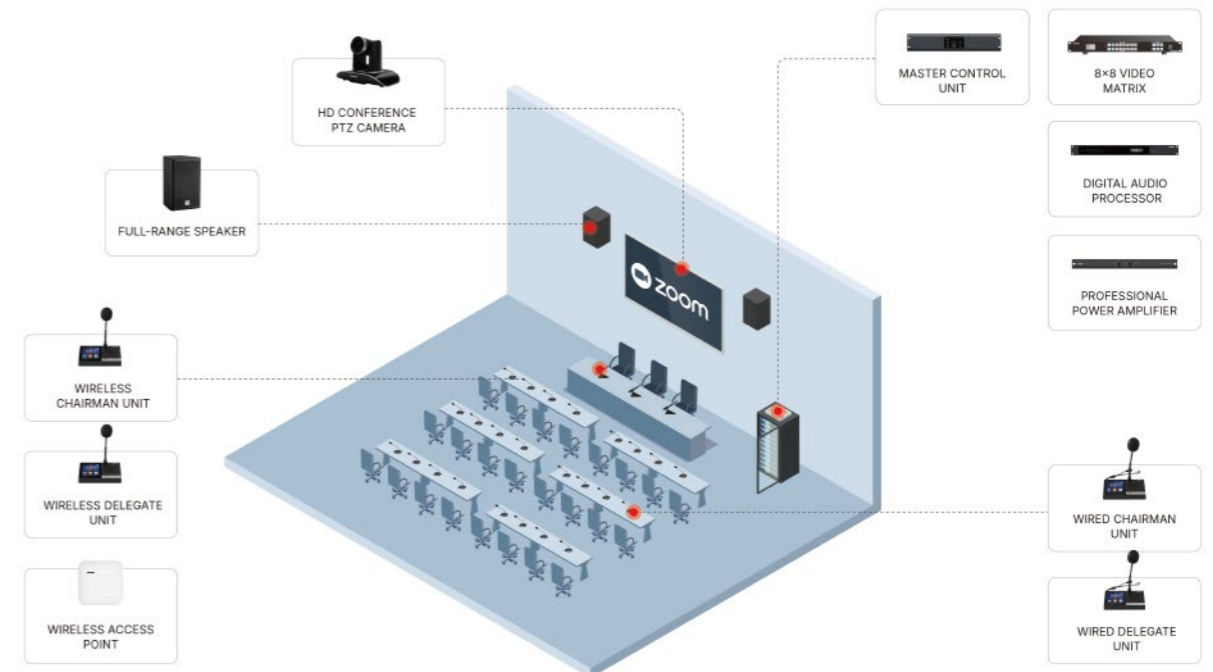
High-Fidelity Sound Reinforcement

- Professional audio processing and optimized speaker layout ensure clear, feedback-free, and low-latency voice reproduction throughout the meeting room.

Solution Overview

The SPON LCM conference system is designed for small meeting rooms in enterprises, hospitals, and educational institutions. It supports speech, discussion, recording, and automatic camera tracking, ensuring efficient and well-organized meetings.

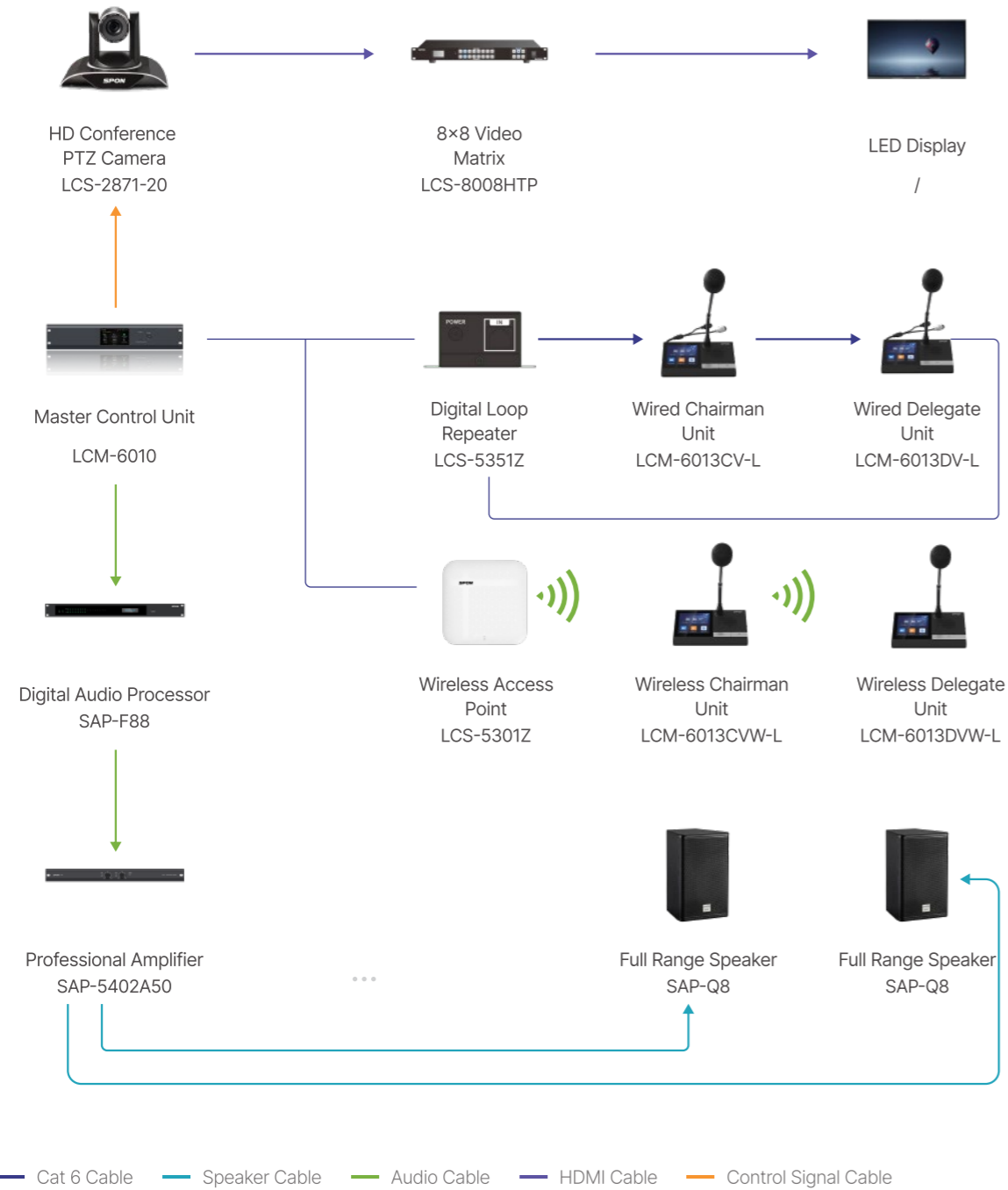
The complete solution consists of a conference main unit, chairman and delegate units, audio processor, power amplifier, and loudspeakers, delivering stable performance and reliable operation for daily meetings.



Boardroom Conference

Network LCM Series Conference System

Topology Diagram



Hotel Solution

IP PA & Intercom System

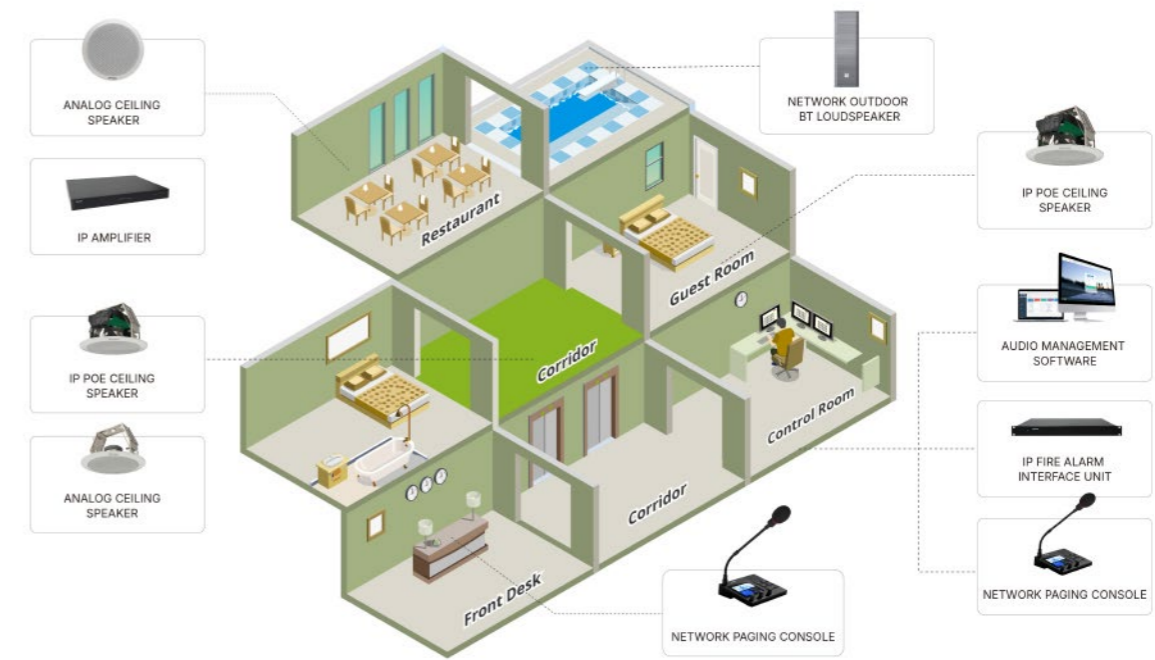


Solution Overview

Hotels require a unified IP-based PA system to manage daily background music, service notifications, emergency alerts, and area-based paging.

This solution integrates IP speakers, network amplifiers, fire alarm interfaces, and centralized audio management software to deliver reliable broadcasting across lobbies, corridors, guest floors, restaurants, and outdoor areas.

With flexible zoning, automated scheduling, SIP/VoIP paging, and full fire-alarm linkage, the system ensures efficient hotel operations and a consistent guest experience.



Hotel Solution

IP PA & Intercom System

Topology Diagram

Centralized Multi-Zone Management

- The XC-9000 software enables unified control of all hotel zones, from lobbies and corridors to restaurants and outdoor areas, ensuring consistent daily operation.

Instant Paging & Service Announcements

- Front desk staff can make live paging or zone announcements through the XC-9038N console for guest services, operations, or urgent instructions.

Fire Alarm Linkage & Emergency Override

- The NAC-5003 automatically triggers emergency broadcasts upon receiving alarm inputs, delivering high-priority messages across designated hotel floors.

Optimized Speaker Deployment for Lobby & Corridors

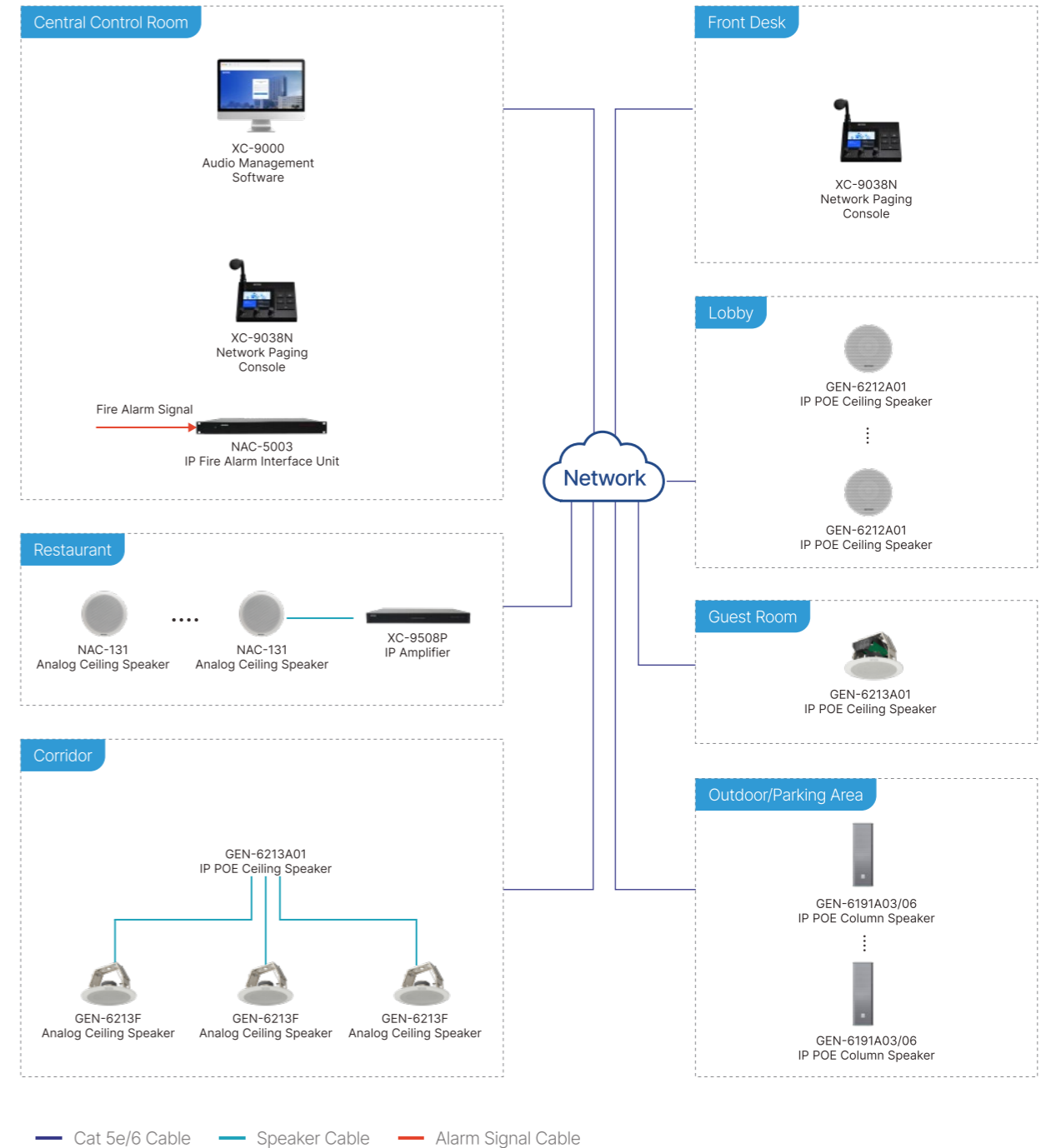
- GEN-6212A01 high-quality coaxial ceiling speakers provide clear and full sound in lobby areas, while GEN-6213A01 serves corridor zones and can directly drive up to three GEN-6213F analog speakers for cost-effective coverage expansion.

High-Power Network Amplification for Large Spaces

- XC-9508P series amplifiers deliver stable 100V output for restaurants, function rooms, and multipurpose spaces, ensuring consistent audio coverage.

Automated Scheduling & BGM

- The system supports scheduled tasks for BGM, guest reminders, and time-based announcements, improving hotel workflow and guest experience.



Transportation Hub

IP PA & Intercom System

Multi-Zone IP Audio Distribution

- The system delivers independent audio to each zone through the IP audio matrix, supporting flexible routing across boarding gates, halls, concourses, and outdoor areas

Automatic Passenger Information Announcements

- It integrates with flight/train information systems to broadcast schedules, status updates, and boarding calls automatically without manual intervention.

Fire Alarm & Emergency Broadcast Linkage

- Upon receiving a fire signal, the system instantly switches to emergency mode, overriding all channels and delivering high-priority evacuation instructions.

Real-Time Paging for Operations

- Paging microphones allow staff to perform live announcements for boarding, lost-and-found, crowd management, or urgent service messages.

Intelligent Volume Adjustment

- Noise detectors installed across noisy halls automatically adjust output levels, keeping speech clear even with fluctuating background noise.

System Redundancy & Fault Monitoring

- Dual-network, power backup, amplifier failover, and automatic fault detection ensure uninterrupted operation in critical transport environments.

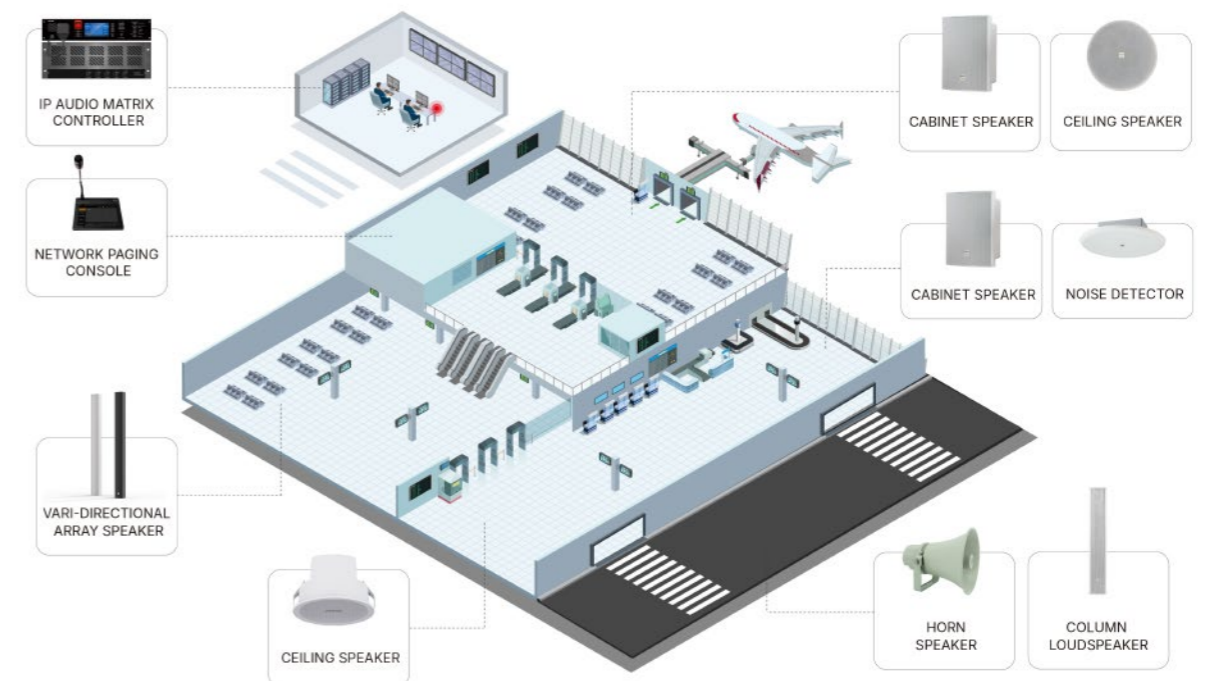
Vari-Directional Coverage for Large Spaces

- Vari-Directional array speaker provides long-throw, uniform coverage in large departure area, and arrival halls through adjustable beam control and advanced soundfield synthesis.

Solution Overview

Transportation hubs require reliable broadcasting for passenger information, service announcements, and emergency alerts.

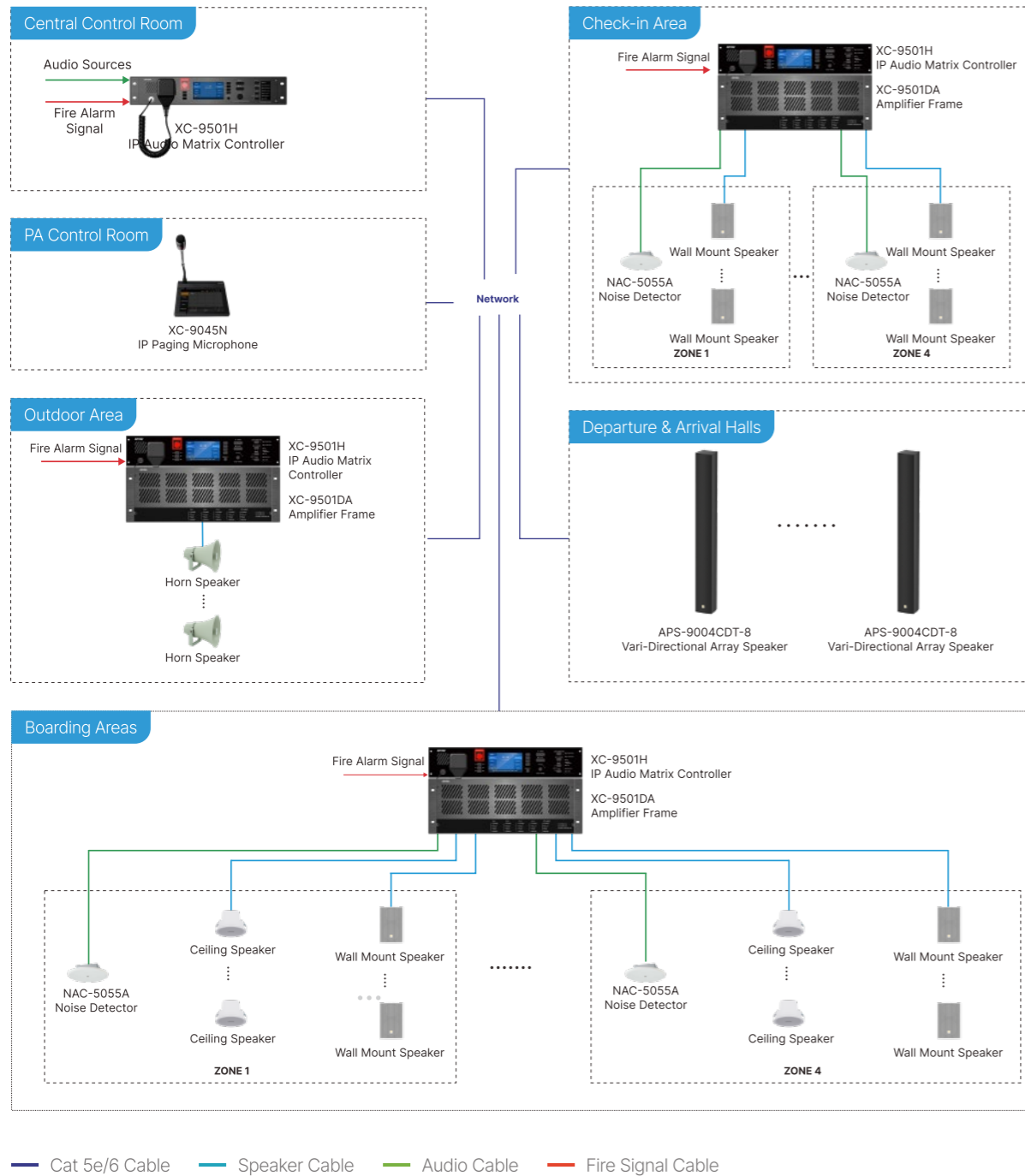
The IP-based audio matrix enables centralized control and multi-zone distribution, ensuring clear and timely communication across all key areas.



Transportation Hub

IP PA & Intercom System

Topology Diagram



Parking Lot Solution

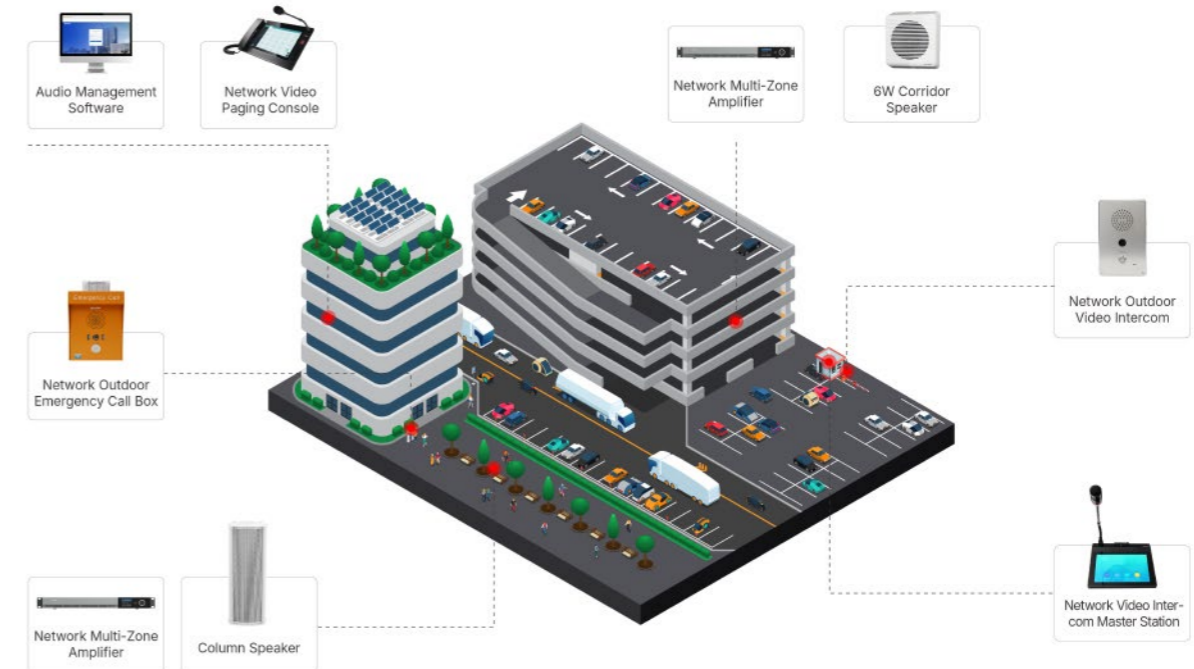
IP PA & Intercom System



Solution Overview

SPON's parking lot intercom and PA system connects lane intercoms, booth intercoms, paging, and centralized control in one system. It helps staff manage vehicle entry, handle payment disputes, and send quick notifications when incidents happen.

The system can be integrated with barriers, cameras, and license plate recognition (LPR) systems, improving parking operation efficiency, service quality, and overall security.



Parking Lot Solution

IP PA & Intercom System

Topology Diagram

One-Touch Lane Assistance

- Drivers can request help at entry or exit in lanes with one touch, ensuring issues handled promptly by parking staff.

Video Intercom for Dispute Resolution

- The control center can view live lane video and communicate driver to remotely resolve payment, ticket, or access disputes, improving service efficiency.

Voice Guidance & Emergency Broadcasting

- Supports lane voice prompts and emergency broadcasts to guide vehicles and pedestrians safely through the parking facility.

Barrier Gate Integration

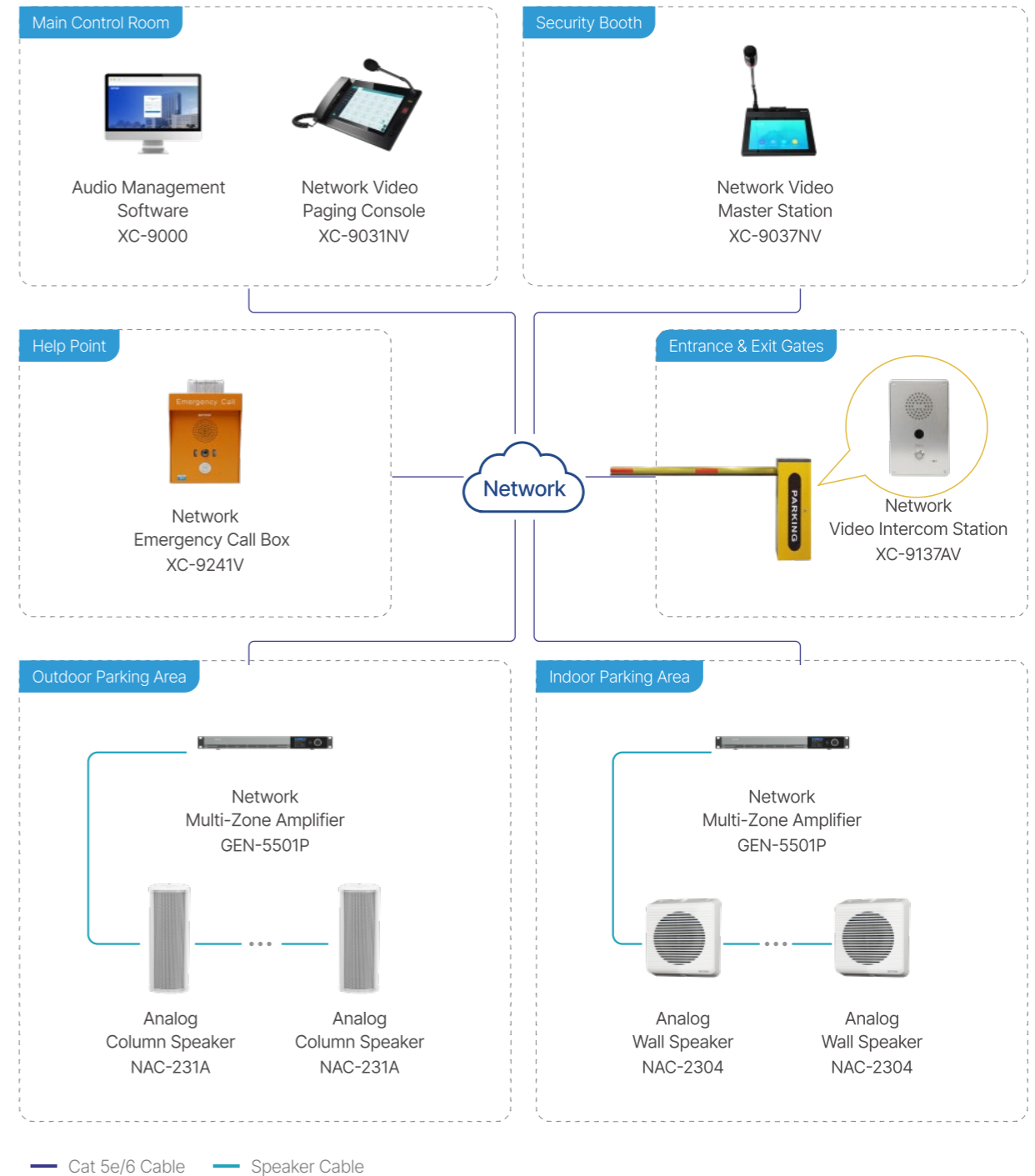
- Administrators can remotely control barrier gates during intercom calls, enabling quick access control and smoother traffic flow.

Intercom Recording

- All video intercom communications are automatically recorded after configured, allowing event review and accountability to improve operational safety.

Underground Parking Emergency Assistance

- Emergency call points installed in underground parking areas allow drivers or pedestrians to quickly contact the control center in case of accidents, vehicle breakdowns, or safety concerns, ensuring rapid response and enhanced safety.



Tour Guide Solution

IP PA & Intercom System

Topology Diagram

Solution Overview

SPON seamless auto-tracking PA system designed for showrooms, exhibition halls, museums, and similar venues.

The entire system adopts independently controllable wireless transmission technologies. With simplified construction, advanced capabilities, fast deployment, and easy maintenance, it significantly enhances the presentation quality and visitor experience for government and enterprise exhibition spaces.

Fast Plug-and-Play Installation

- The system uses full PoE or 24–48V DC power, enabling quick setup without complex wiring.

Intelligent Auto-Tracking Audio

- Speakers automatically follow the presenter's microphone position to keep the sound always with the guide.

Zero-Configuration Operation

- Devices connect automatically at power-on, requiring no pairing or software setup.

All-Day Wireless Use

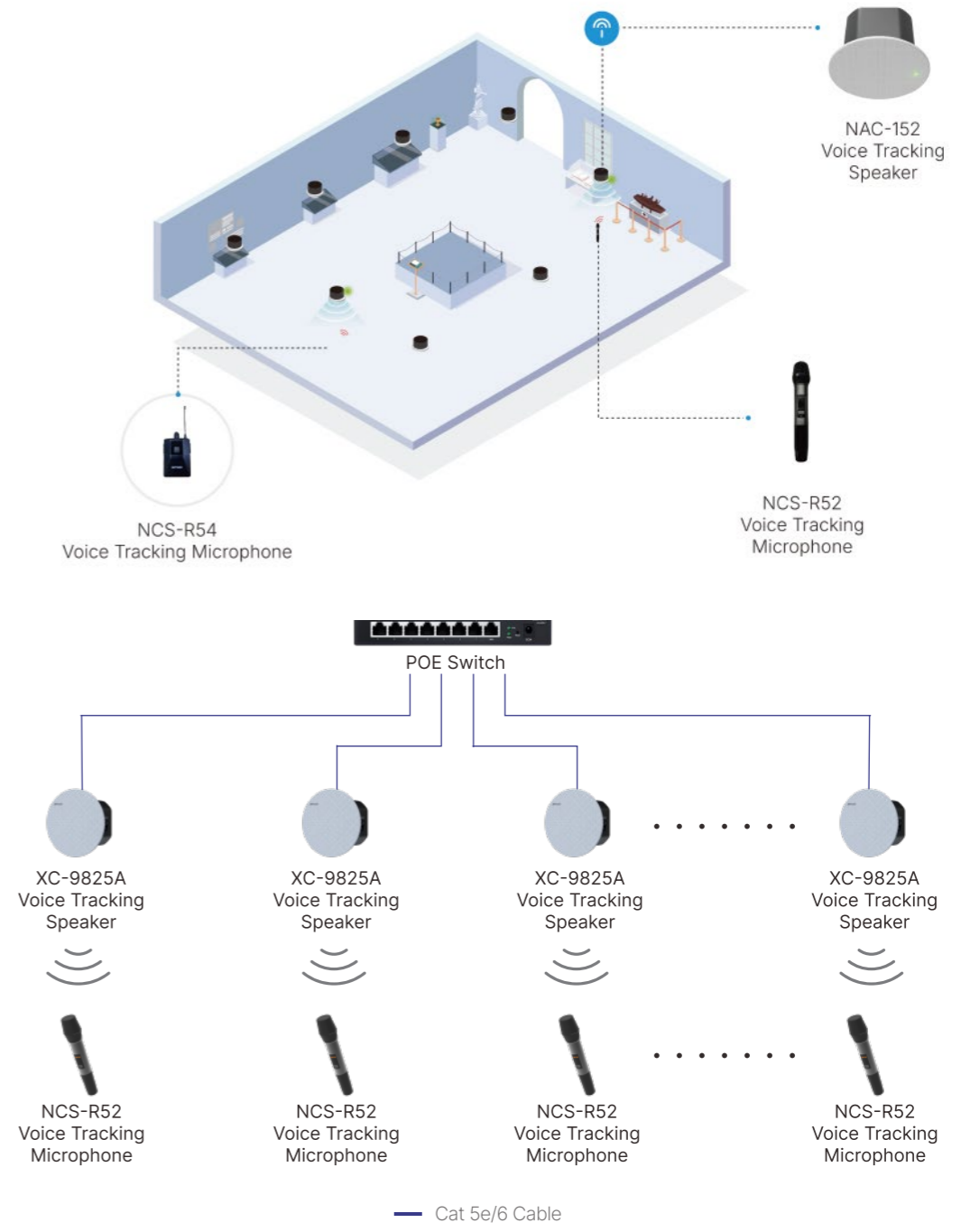
- A 3500mAh battery provides up to 24 hours of continuous microphone operation.

Clear and Natural Voice Quality

- 20W output (DC Power) and a 100Hz–18kHz frequency range deliver high speech clarity in various environments.

Ultra-Low Latency Transmission

- Advanced RF and codec technology keep audio delay under 10ms for real-time narration.



IP PA System

Smarter, Easier Integration for Every Space



Paging Mic



IP Speaker



IP Amplifier

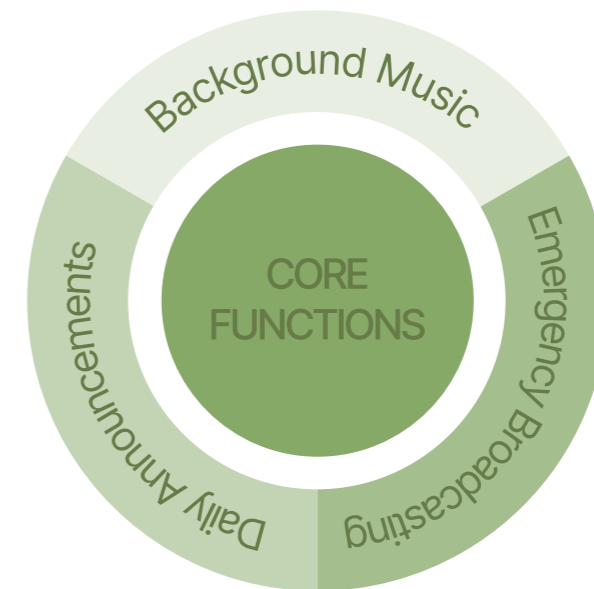
IP Public Address System

System Overview

SPON IP Network Public Address System is built on industry-leading XCoIP technology, delivering two-way audio transmission over standard IP networks (LAN/WAN). Audio signals are transmitted as data packets, ensuring stable, high-quality, long-distance communication.

Compared with traditional analog and digitally controlled PA systems, this solution overcomes limitations such as poor sound quality, limited coverage, and weak system integration. It enables easy deployment using existing network infrastructure, while offering centralized management, flexible zoning, and real-time monitoring.

Based on a unified IP platform and SPON's proprietary digital audio technologies, the system seamlessly integrates public address, video surveillance, and IT networks, providing a powerful, scalable, and future-ready PA solution.



Key Advantages

Long-Distance IP Transmission: Supports audio transmission across LAN, WAN, and Internet. Ultra-low bandwidth usage: only 0.1 Mbps per audio channel.

CD-Quality Audio: Delivers 44.1 kHz / 16-bit high-fidelity audio. Ensures clear and intelligible speech for music, exams, and emergencies.

High Reliability: Dual-server redundancy ensures uninterrupted operation. Industrial-grade terminals support 24/7 continuous use.

High Integration & Compatibility: Unified management for PA and intercom systems. Seamlessly integrates with fire alarm, IP PBX, and CCTV systems.

System Functions

Comprehensive Broadcasting Functions

Supports daily announcements, background music, scheduled bell ringing, and radio program playback, covering all common PA broadcasting needs.

Dual-Control System Architecture

A dual-control design combining PC-based servers and embedded IP controllers. The two systems can operate independently or collaboratively, significantly improving system reliability.

Scheduled Program Playback

Audio files can be uploaded to the server and scheduled in advance. The system automatically plays programs according to predefined schedules, while terminals can also receive customized content.

Flexible Paging & Calling

Paging can be initiated from IP paging microphones or workstation software, targeting all zones, selected zones, or individual terminals. Remote paging across the Internet is also supported.

Two-Way Intercom

Supports two-way voice communication between paging stations and terminals, or between terminals themselves, for daily coordination and emergency communication.

Free On-Demand Playback

Operators can use remote controllers or terminal control panels to freely select and play audio from the server. LCD displays show playlists and support play, pause, fast-forward, rewind, ensuring easy operation.

Real-Time Audio Input & Broadcasting

External audio sources such as CD players, radios, or microphones can be connected to the audio server for real-time encoding and network transmission, enabling live broadcasts to terminals.

Multi-Source Broadcasting

The system supports simultaneous multi-source audio input, allowing different zones to play different content at the same time—ideal for schools, exams, and public venues.

Flexible Zone Broadcasting

Multiple zones can be defined freely. The system supports zone-based announcements, group broadcasting, or individual terminal control, with remote volume adjustment for each terminal.

On-Site Monitoring

Terminals are equipped with built-in monitoring speakers, allowing operators to listen to the surrounding environment of a terminal from the control room without affecting local playback—useful for teaching evaluation and fault diagnosis.

Intelligent Amplifier Power Control

IP audio terminals automatically control amplifier power based on audio activity, reducing 24/7 continuous operation and extending equipment lifespan. Power-on and power-off can also be triggered by schedules or events.

Fire Alarm Integration

The system integrates with fire alarm systems, enabling automatic emergency broadcasting upon alarm activation. Terminals support forced broadcasting and relay output control.

Telephone Paging

Via IP telephone interfaces, external phones or IP PBX systems can initiate remote paging announcements, allowing instant information delivery anytime.

Audio Content Production

Supports audio recording, format conversion, and editing. The server can store hundreds of hours of audio programs for daily or emergency use.

Workstation Functions

Provide a centralized software platform for managing the entire IP PA system. Operators can log in remotely to create and manage audio programs, perform live broadcasts, and configure scheduled playback—without being on site.

Electronic Map Management

An electronic map visually displays terminal locations and real-time status. Broadcast events are logged and can be linked with video surveillance systems, making it ideal for large-scale monitoring and PA projects.

Additional Functions

Includes program monitoring, emergency monitoring terminals, and wireless remote control, allowing operators to remotely start or stop broadcasts.

System Diagram



Product Family

Server	 XC-9000	 XC-9013	 NXT APP	 GEN-2001	
Paging Mic	 GEN-9101N	 XC-9031NV	 GEN-9102N	 XC-9037N/NV	
IP Speaker	 GEN-6392A01	 GEN-6393A	 GEN-6212A01	 GEN-6213A01	 GEN-6214A01
	 GEN-6011A03	 GEN-6013A01	 GEN-6191A	 NXT-3602	 XC-9602B
Analog Speaker	 NAC-2305	 NAC-2403	 NAC-2601	 NAC-510	 NAC-301H
IP Audio Interface	 GEN-3001A03	 GEN-3102A03	 GEN-3101A01		
IP Amplifier	 GEN-5301P	 GEN-5302P	 NBS-2301	 XC-9501	 XC-9508
Peripheral Device	 NAS-5003	 XC-9520A	 NBS-2401		

IP PA SYSTEM »

- Software Application
- IP Speaker
- IP Paging Microphone
- IP Amplifier
- Analog Speaker
- Peripheral Device

SOFTWARE APPLICATION

IP PA System

IT-based broadcasting server with powerful performance, supporting multi-server interconnection; flexible control room solutions for centralized, full-system management.



AUDIO MANAGEMENT SOFTWARE XC-9000

RECOMMENDED USES

As core management software installed on commercial PC and deployed at the master control room, mainly used by the system administrator to manage all the IP endpoint devices in the IP PA system & IP intercom system, control all the audio input sources and customize the paging zones.



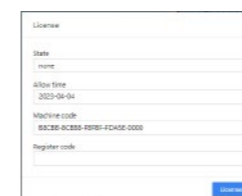
KEY FEATURES

- Based on **B/S (Browser/Server) architecture**.
- Support loading maximum **3000 IP endpoint devices**.
- Support assigning **different authorities to different users**.
- **Volume adjustment** for each IP endpoint device.
- System health **monitoring**.
- Flexible **zone management**.
- **Live & pre-recorded** voice announcements.
- **Scheduled** voice announcements.
- Real-time & timed **background music**.
- **Emergency** notification alerting.
- **Call target** designation.
- **Call response** settings.
- **Call forwarding** settings.

RECOMMENDED OPERATING ENVIRONMENT

CPU	Intel Core i5 or AMD equivalent
Memory	8GB
Storage	500GB SSD
NIC	100/1000Mbps self-adaptive
Sound Card	"Stereo Mix" enabled
Operating System	Windows 10 operating system or above
Peripherals	keyboard, mouse, headset, etc

SOFTWARE LICENSE



Registration Code (Trial License)

Trial License: A 2-month free trial license is available for testing the audio management software.

Registration Code Access: The trial license can be obtained from SPON's pre-sales department by providing the unique machine code.



XC-9000USB - USB Dongle

USB Dongle License: XC-9000USB is a lifetime license with a one-time fee.

Windows System Support: The USB dongle is available for audio management software running on Microsoft Windows 10 or above.



XC-9000RD - Remote Dongle

Remote Dongle License: XC-9000RD is a lifetime license with a one-time fee.

Virtual Machine Support: The remote dongle is available for audio management software running on a virtual machine.

AUDIO MANAGEMENT INDUSTRIAL SERVER XC-9013

RECOMMENDED USES

As core management equipment deployed at the master control room, mainly used by the system administrator to manage all the IP endpoint devices in the IP PA system & IP intercom system, control all the audio input sources and customize the paging zones.



KEY FEATURES

- **Rugged IPC Design:** IPC case with aluminum alloy structure for strong anti-magnetic, dust-proof, vandal-resistant performance and excellent heat dissipation.
- **17.3" Industrial Touchscreen:** 17.3" reinforced industrial touch screen with a pull-out hidden keyboard and mouse pad.
- **Built-in 240GB SSD:** Built-in 240GB high-capacity SSD with anti-vibration and anti-drop capability.
- **24/7 Stable Operation:** Industrial motherboard design delivers faster processing and reliable performance for long-term 24/7 operation.
- **Emergency Paging Support:** Equipped with a red emergency button and emergency handheld microphone for warning and evacuation announcements.
- **Pre-installed Management Software:** Pre-installed with XC-9000 audio management software, serving as the management center of the SPON IP PA and IP intercom system.

TECHNICAL PARAMETERS

Processor	Intel Core i5-6500 CPU @ 3.20GHz
Operating System	Microsoft Windows 10 Pro 64-bit
Power Supply	ATX (AC 180-264V~/47-63Hz/7/3.5A)
Display Screen	17.3" Resistive Multi-Touch (RMT) Screen
Memory	8GB DDR4
Hard Drive	240GB SSD
Ports (Back)	1xPS/2 (Keyboard), 1xPS/2 (Mouse), 1xDVI-D, 1xVGA, 1xHDMI, 2xCOM, 2xUSB 3.1, 2xUSB 2.0, 1xRJ45, 1xLine Input, 1xLine Output, 1xMic Input
Ports (Front)	2xUSB 2.0
Operating Temperature	-10°C-55°C (14°F-131°F)
Operating Humidity	≤90% RH non-condensing
Dimensions	484x353.5x303mm
Weight	12.8kg
Standard Accessories	1xHandheld Emergency Microphone, 1xInstallation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

VISUALIZATION MODULE XC-9000VIS

KEY FEATURES

- **Visual System Overview:** Provides operators with a clear visual overview of the IP PA and IP intercom system based on the actual site layout.
- **Map-Based Device Display:** Displays IP endpoint devices such as IP intercom stations, IP paging mics, IP amplifiers, and IP speakers on the customer's map or building layout.
- **Direct Map Control:** Allows operators to call, page, or monitor specific IP endpoint devices directly from the map or building layout.
- **On-Map Volume Adjustment:** Allows operators to adjust the output volume of specific IP endpoint devices directly on the building layout.



VISUALIZATION MODULE XC-9000VMS

KEY FEATURES

- **RTSP Video Integration:** Integrates live video streams from video-over-IP sources into the IP PA and IP intercom system via RTSP.
- **Structured Video Display:** Displays video images from 3rd-party IP security cameras in a clear grid layout for easy viewing.
- **Interval Camera Switching:** Supports alternate display of video images from 3rd-party IP security cameras around different IP endpoint device locations at set intervals.
- **Auto Pop-Up on Incoming Call:** Video images can pop up automatically when receiving a call from a front-end IP intercom station.



3RD PARTY VOIP CONNECTION MODULE XC-9000VOIP

KEY FEATURES

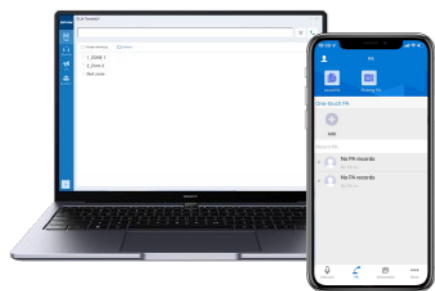
- **SIP VoIP Integration:** Integrates industry-standard 3rd-party VoIP phones into the IP PA and IP intercom system via SIP.
- **VoIP-to-Intercom Calling:** Enables operators to initiate two-way communication from a 3rd-party VoIP phone to a front-end IP intercom station.
- **Intercom-to-VoIP Calling:** Enables operators to receive two-way communication from a front-end IP intercom station on a 3rd-party VoIP phone.
- **VoIP Paging to Endpoints:** Enables operators to make live voice announcements from a 3rd-party VoIP phone to single or grouped IP endpoint devices such as IP amplifiers and IP speakers.



VIRTUAL TERMINAL APP XC-9000APP

KEY FEATURES

- **Multi-Platform Support:** Supports Android, iOS, and Windows operating systems.
- **Flexible Device Integration:** Integrates smartphones and laptops into the IP PA and IP intercom system over a local or wide-area network.
- **Two-Way Audio/Video Communication:** Enables operators to initiate two-way audio and video communication from the virtual terminal app to front-end IP intercom stations.
- **Live Voice Paging:** Enables operators to make live voice announcements from the virtual terminal app to single or grouped IP endpoint devices such as IP amplifiers and IP speakers.
- **Real-Time BGM Playback:** Enables operators to play real-time background music from the virtual terminal app to single or grouped IP endpoint devices such as IP amplifiers and IP speakers.
- **Remote Monitoring Function:** Enables operators to monitor or surveil specific IP endpoint devices such as IP intercom stations and IP speakers through the virtual terminal mobile app.



IP PAGING MICROPHONE IP PA System

IP paging microphone delivering clear, efficient and real-time voice broadcasting for every zone.



IP VIDEO PAGING CONSOLE XC-9031NV

RECOMMENDED USES

This modern-looking desktop intercom station with 10.2" HD touch screen and 13 mega pixel camera is usually deployed at the master control room and would be a great fit for most security audio intercom projects.



KEY FEATURES

- **10.2" HD Touchscreen:** 10.2" digital TFT true color LCD display with a capacitive touch screen, offering a clear visual interface at 1280x800 resolution.
- **13MP HD Camera:** Built-in 13 megapixel HD digital camera for clear video communication.
- **Integrated Mic & Speaker:** Hands-free desktop station with a gooseneck microphone and built-in speaker.
- **One-Touch Emergency Paging:** Equipped with a red emergency button for instant all-zone emergency broadcasting.
- **Audio & Video Conferencing:** Supports both initiating and receiving audio and video conferencing.
- **Terminal Status Monitoring:** Allows checking whether each terminal in the system is online or offline.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation and reduced cabling.
- **3rd-Party SIP Compatible:** Fully compliant with 3rd party SIP endpoints and compatible with most mainstream on-premise and cloud-hosted VoIP systems.
- **Multi-Party Communication:** Supports multi-party audio and video communication for up to 5 parties.
- **H.264 / H.265 Video Decoding:** Uses H.264/H.265 video decoding to meet HD video call transmission requirements.
- **Advanced Call Functions:** Supports call transfer, call hold, three-way calling, PTT, and remote unlocking during voice communication.

TECHNICAL PARAMETERS

Power Supply	DC 12V/3.3A or PoE IEEE802.3af
Camera	13MP
Video Codec	VGA/720/1080
S/N (Signal-to-Noise) Ratio	≥85dB
Audio Sampling & Bit Rate	8KHz~48KHz, 16bit/32bit
Frequency Response	22Hz-20KHz
Network Protocol	SIP (RFC 3261), TCP, UDP, ARP, ICMP, IGMP, HTTP, RTP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1xRJ45 Ethernet Port, 1x PC Port, 1x HDMI Port, 1x Headset Port, 1xUSB 2.0, 1x Line Output, 1x USB 3.0 1xLine Input, 1xRelay Input, 1xRelay Output, 1x Power Port, 1x SD card Port
Dimensions	337x211x32.7mm
Weight	1.5KG
Standard Accessories	1xTelephone Cable, 1xHandset, 1xGooseneck Microphone Rod, 1xMounting Bracket, 1xInstallation Manual
Optional Accessories	DC 12V/3.3A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)

IP AUDIO INTERCOM MASTER STATION XC-9037N & XC-9037NV

RECOMMENDED USES

This modern-looking desktop intercom station with 7" HD touch screen is usually deployed at the master control room and would be a great fit for most security audio intercom projects.



KEY FEATURES

- **Full-Duplex Intercom:** Supports two-way full duplex voice communication with front-end IP audio intercom stations.
- **Integrated Mic & Speaker:** Hands-free desktop station with a gooseneck microphone and built-in speaker.
- **7" HD Touchscreen:** 7" digital HD true color capacitive touch screen with 1280x800 resolution.
- **Built-in 2MP Camera:** Integrated 2MP camera for video communication and monitoring.
- **Customizable Interface Settings:** Supports user-defined ringtones, wallpaper, screensaver, screen brightness, and screen lock passcode.
- **Caller ID Function:** Caller ID display and announcement help the operator quickly identify incoming calls.
- **Flexible Answering Modes:** Supports both manual answering and automatic answering modes.
- **Advanced Call Functions:** Supports call transfer, call hold, three-way calling, PTT, and remote unlocking during voice communication.
- **Background Music Playback:** Music from the built-in media library, USB flash drive, or smartphone can be played to the SPON IP PA system in real time.
- **Real-Time Monitoring:** Supports real-time monitoring and surveillance of specific IP endpoint devices such as IP intercom stations and IP speakers.

TECHNICAL PARAMETERS

MODEL NO.	XC-9037N	XC-9037NV
Power Supply	DC 12V/1.5A	
Camera	/	2MP
Video Codec	/	VGA/720/1080
S/N (Signal-to-Noise) Ratio	≥82dB	
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps	
Frequency Response	40Hz-18kHz	
Network Protocol	SIP (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Configuration Method	Local Settings/Web Page	
Mounting Method	Desktop	
Interface	1xRJ45 Ethernet Port, 1xUSB 2.0, 1xLine Input, 1xLine Output, 1xRelay Input, 1xRelay Output	
Dimensions	183.9x169.0x58.4mm	
Weight	0.75kg	
Standard Accessories	1 X Microphone Rod, 1x Terminal Block Connector, 1 x Installation Manual, 1 x Certification	
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)	

NETWORK PAGING GATEWAY GEN-2001

RECOMMENDED USES

This PoE network paging gateway supports timer scheduling, control I/O, and HTTP control for easy integration with CCTV, alarms, and other systems. It delivers audio from SIP, ONVIF, Bluetooth, line-in, and built-in files to network speakers through multicast. Ideal for schools, factories, malls, and public areas that need simple and reliable paging.



KEY FEATURES

- **Single or Multi-Zone Playback:** Supports single-zone playback or unified playback across multiple zones.
- **Multiple Audio Sources:** Supports MP3 and WAV files, microphone input, external audio sources, and Bluetooth devices.
- **Remote Network Management:** Supports remote management via network and API for source selection and scheduled playback setup.
- **Task Trigger & Status Monitoring:** Supports remote triggering of broadcast tasks and system status monitoring.

TECHNICAL PARAMETERS

Power Source	PoE (IEEE 802.3af / 802.3at)
Power Consumption	≤ 3 W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Network Interface	100BASE-TX, RJ45
Audio Input	1 × Line / Mic Input (Balanced, Switchable)
Audio Output	1 × RCA Output
Control Input	4 × inputs
Control Output	1 × relay output / DC 12 V output (switchable)
Operating Temperature	-10 °C to +50 °C
Housing Material	Sheet Metal
Dimensions	115 × 139 × 40 mm
Weight	500 g

NETWORK PAGING MICROPHONE GEN-9102N/T

RECOMMENDED USES

This is a multi-button, high-performance paging microphone. It supports SIP/P2P calls, multicast paging, and HTTP commands with one-button operation. No server is required. It has 1GB built-in storage and supports audio file uploads. The system can be expanded with two sub-screens and an optional handset.



KEY FEATURES

- **Expandable Screen & Handset:** Supports dual 4.3-inch color expansion screens and a handset for a clearer interface and easier operation.
- **All-in-One Paging Control:** Supports calling, broadcasting, and command functions to meet both daily and emergency needs in one device.
- **Programmable Function Keys:** Provides up to 40 programmable function keys for one-touch access to common tasks.
- **SIP & P2P Communication:** Supports SIP calls and P2P intercom, with up to 100 P2P accounts and server-free operation.
- **Built-in 1GB Storage:** Built-in storage supports MP3, WAV, and local recording files without external storage.
- **One-Touch Emergency Broadcasting:** Supports one-touch emergency broadcasting and up to 20 multicast groups, with simultaneous BGM, alarms, and voice announcements.

TECHNICAL PARAMETERS

Power Supply	DC 12 V, PoE (IEEE 802.3af)	Gooseneck Mic	1 × gooseneck electret mic
Power Consumption	≤ 3 W	Mic Frequency Response	50 Hz – 18 kHz
Audio Transmission	Multicast, up to 20 editable groups	Mic Sensitivity	-45 ±3 dB
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722	Audio Storage	1024 MB
Line Input	1 × line input (3.5 mm jack)	Audio File Format	WAV, MP3
Input Sensitivity	-10 dB	Command Set	10 command sets, 20 commands per set
Line Output	1 × line output	Network Interface	100BASE-TX, RJ45
Output Sensitivity	-10 dB	Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP
Control Input	1 × input	Dimensions	257.3 × 100 × 77.5 mm
Built-in Speaker	1 × built-in speaker, 3 W	Weight	750 g
Speaker Sensitivity	88 ±3 dB (1 m / 1 W)		

IP PAGING CONSOLE XC-9038N

RECOMMENDED USES

This modern-looking desktop paging console with 4" HD touch screen is equipped with a built-in mini web server that can manage up to 30 IP endpoint devices. It would be a great fit for most small projects.



KEY FEATURES

- **Full-Duplex Intercom:** Supports two-way full duplex voice communication with front-end IP audio intercom stations.
- **Durable Aluminum Housing:** Adopts a high-end aluminum alloy housing for sturdy and durable use.
- **4" LCD Display:** Features a 4" LCD screen with 480×480 resolution.
- **Audio Mixing Input:** Supports U-disk and external audio source mixing input.
- **Integrated Mic & Speaker:** Hands-free desktop station with a gooseneck microphone and built-in 3W speaker.
- **Short Circuit Trigger Output:** Can trigger a short circuit signal to the designated terminal during intercom for functions such as alarm light or door lock control.
- **Built-in Mini Server:** Built in with a mini server that can manage up to 30 terminals, making it cost-effective for small projects.
- **3.5mm Audio Output:** Equipped with a 3.5mm audio line output interface for connection to an active speaker.
- **Offline Intercom Support:** Supports initiating and receiving offline intercom without centralized management server software.
- **Independent Volume Control:** Features independent audio volume adjustment buttons that work like a mini mixer.
- **Live Paging Function:** Allows the operator to make live paging through this IP desktop intercom station.

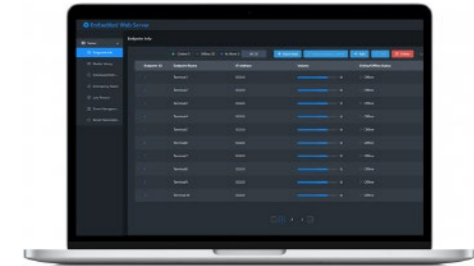
TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16
S/N (Signal-to-Noise) Ratio	≥80dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
Frequency Response	100Hz~16kHz
Network Protocol	SIP (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1×RJ45 Ethernet Port, 1×USB 2.0, 2×Line Input, 1×Line Output, 1×Relay Input, 1× Mic input,1×Power supply port, 144×144×34mm
Dimensions	0.55KG
Weight	1 X Microphone Rod, 1x Terminal Block Connector, 1 x Installation Manual, 1 x Certification
Standard Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)
Optional Accessories	

MINI WEB SERVER XC-9038MS

KEY FEATURES

- **Up to 30 Terminal Management:** Supports adding up to 30 terminals.
- **Batch Terminal Setup:** Supports batch adding terminals for more convenient operation.
- **Custom BGM Upload:** Supports user-defined background music by uploading audio files to the media library.
- **Scheduled Bell Function:** Supports scheduled bell ringing.
- **Task Priority Settings:** Supports user-defined priority settings for different tasks.
- **Emergency Alert Function:** Supports emergency notification alerting.
- **Mini Server Zone Management:** Supports managing different zones through the mini server.



IP SPEAKER

IP PA System

IP network broadcasting terminals designed for various application environments.



IP POE HORN SPEAKER GEN-6392A01



RECOMMENDED USES

This device is well-suited for outdoor public spaces such as school playgrounds, urban broadcasting, squares, and parks. Its robust design, integrated audio capabilities, and support for various communication protocols make it ideal for environments where clear and reliable audio communication is essential.



KEY FEATURES

- **Integrated Rugged Design:** Integrated design with a built-in amplifier, aluminum alloy housing, and stainless steel bracket for sturdy and durable use.
- **High SPL Output:** Uses a high-sensitivity speaker and can reach up to 121 dB when powered by PoE.
- **Built-in Waterproof Microphone:** Built-in waterproof microphone supports dynamic volume adjustment and high-definition calls.
- **Remote Self-Diagnosis:** Supports device-side self-diagnosis upon login and can detect speaker faults.
- **IP66 Weather Protection:** Resistant to rain, wind, and extreme weather, with IP66 protection and stable operation from -40°C to 70°C.

TECHNICAL PARAMETERS

Power Supply and Consumption	DC 24V/1A or PoE (802.3at/af protocol), Standby Power Consumption ≤ 3W
Power Output	15W(Use DC 24V) 15W(Use POE/POE+)
Network Communication Protocols	HTTP, UDP, ARP, ICMP, IGMP, SIP, ONVIF
Max SPL	121dB
Sensitivity	112dB
SNR	≥85dB
Frequency Response	280Hz - 12.5kHz
Microphone	Built-in
Intercom Function	Supported
Operating Temperature and Humidity	Temperature: -40°C to 70°C, Humidity: 10% to 90% RH (non-condensing)
Product Dimensions and N.W.	Dimensions: 281 x 233 x 214 mm, N.W.: 1.6 kg

NETWORK HORN SPEAKER GEN-6393A01/A03

RECOMMENDED USES

This is a horn speaker powered by DC or PoE, available in 15W/30W. It can receive calls from SIP phones or VMS platforms and handle up to 20 multicast streams. Supports priority management, scheduling, and custom actions triggered via HTTP API. Suited for use in factory and park.



KEY FEATURES

- **IP66 Outdoor Design:** ABS housing and stainless steel bracket with IP66 protection for outdoor installation.
- **Multi-Protocol Compatibility:** Compatible with SIP, ONVIF, and multicast protocols for easy integration into existing communication and audio systems.
- **Alarm Input Linkage:** Provides one alarm input for linkage with cameras, infrared sensors, smoke detectors, and other third-party devices.
- **Alarm Output Control:** Supports one alarm output to directly drive a siren and improve on-site alert capability.
- **Built-in Mic for Intercom:** Built-in microphone supports two-way voice communication for live announcements and intercom use.
- **Stable Industrial Operation:** Uses industrial-grade chips to ensure stable operation from -20°C to 60°C.

TECHNICAL PARAMETERS

	GEN-6393A01	GEN-6393A03
Power Source	DC 12–24 V, PoE (IEEE 802.3af/802.3at)	
Power Consumption	≤ 3 W	
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF	
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722	
Sensitivity	105 dB	107 dB (1 m / 1 W / 1 kHz)
Frequency Response	400 Hz – 7 kHz	
Max. SPL	116 dB (1 m / 15 W / 1 kHz)	121 dB (1 m / 30 W / 1 kHz)
Power Output	15 W (DC 12 V), 15 W (DC 24 V), 15 W (PoE / PoE+)	30 W (DC 24 V), 15 W (DC 12 V), 15 W (PoE / PoE+)
Network Interface	100BASE-TX, RJ45	
Control Input	1 × input	
Control Output	1 × output	
Operating Temperature	-20 °C to +60 °C	
Housing Material	ABS, SUS304 stainless steel bracket	
Dimensions	232 × 163 × 222 mm / 282 × 204 × 287 mm	
Weight	1300 g	1950 g

NETWORK CEILING SPEAKER GEN-6212A01

RECOMMENDED USES

It is a network ceiling speaker with DC/PoE, supports SIP and VMS audio, up to 20 multicast streams, and can store 20 audio files. Ideal for background music, voice paging, and security alerts in hotels, offices, malls, hospitals, and meeting rooms.



KEY FEATURES

- **Built-in 20W Amplifier:** Built-in 20W amplifier and signal processor provide stable all-in-one audio output.
- **Long-Distance IP Audio:** Supports real-time long-distance audio transmission over IP networks with SIP, ONVIF, and multicast support.
- **Rich I/O Expansion:** Includes 2 alarm inputs, 1 alarm output for siren control, and 1 audio input for microphone extension.
- **Coaxial Speaker Design:** Coaxial speaker with enhanced bass design delivers clear sound and better music performance.

TECHNICAL PARAMETERS

Power Source	DC 24 V, PoE (IEEE 802.3af/802.3at)
Power Consumption	≤ 3 W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Frequency Response	100 Hz – 18 kHz
Power Output	20 W (DC 24 V), 15 W (PoE / PoE+)
Network Interface	100BASE-TX, RJ45
Audio Input	1 × Line / Mic Input (Balanced, Switchable)
Control Input	2 × inputs
Control Output	1 × relay output / DC 12 V output (switchable)
Operating Temperature	-30 °C to +60 °C
Housing Material	Iron
Dimensions	Ø204 × 167 mm
Weight	1900 g

NETWORK CEILING SPEAKER GEN-6214A01/GEN-6214F

RECOMMENDED USES

This is a PoE ceiling speaker that supports SIP and VMS, can handle up to 20 multicast streams, and can store up to 20 audio files. It is ideal for use in hotels and shops.



KEY FEATURES

- **PoE Single-Cable Connection:** PoE supports both power supply and data transmission through a single network cable.
- **Built-in 2 x 6W Amplifier:** Integrated 2 x 6W amplifier and audio processing reduce the need for external equipment.
- **Multi-Protocol Support:** Based on standard protocols, it supports multiple audio protocols for easy expansion and integration.
- **Built-in 80MB Storage:** Built-in 80MB storage supports local audio playback and scheduled broadcasting.
- **Bluetooth Audio Playback:** Built-in Bluetooth allows direct use as a Bluetooth speaker.
- **Clean Ceiling Installation:** Hidden ceiling design with an ultra-narrow bezel and 170 mm cut-out for a cleaner installation.
- **Flexible Remote Control:** Supports remote control via HTTP commands or physical input interfaces.

TECHNICAL PARAMETERS

	GEN-6214A01	GEN-6214F
Power Source	PoE (IEEE 802.3af/802.3at)	
Power Consumption	≤ 3 W	
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF	
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722	
Frequency Response	140Hz – 20kHz	140Hz – 20kHz
Max. SPL	91 dB (1m / 6W / 1kHz)	91 dB (1m / 1W / 1kHz)
Power Output	2 x 6W (PoE / PoE+)	6W
Data Interface	100BASE-TX, RJ45	
Control Input	2xinputs	
Audio Output	1xoutput, 6W / 8Ω	8Ω
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C
Housing Material	ABS	ABS
Dimensions	Ø186 × 113mm	Ø186 × 113mm
Weight	1250g	820g

NETWORK CEILING SPEAKER GEN-6213A01/GEN-6213F

RECOMMENDED USES

This is a PoE/DC ceiling speaker that supports 3 external constant-voltage speakers. It supports SIP and VMS and features priority management, scheduling, and custom event actions via HTTP API, suited for use in hotels and retail stores.



KEY FEATURES

- **Analog Speaker Expansion:** Connects up to 3 analog speakers for wider coverage at lower cost.
- **Multi-Protocol Integration:** Supports SIP, ONVIF, and multicast protocols for seamless integration with existing IP networks and audio/video systems.
- **Up to 20 Multicast Groups:** Supports up to 20 multicast addresses for zoned broadcasting and multi-scenario audio needs.
- **Built-in 80MB Storage:** Built-in 80MB storage can save up to 20 audio files, reducing dependence on servers.
- **Scheduled Playback Support:** Supports scheduled, repeated, and interval playback for daily broadcasts and emergency announcements.
- **Spring-Clip Installation:** Uses spring-clip mounting for fast installation and easy maintenance.
- **Control I/O Linkage:** Provides 2 control inputs and 1 control output for easy linkage with alarm and access control systems.

TECHNICAL PARAMETERS

	GEN-6213A01	GEN-6213F
Power Source	DC 24 V, PoE (IEEE 802.3af/802.3at)	
Power Consumption	≤ 3 W	
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF	
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722	
Frequency Response	100 Hz – 16 kHz	100 Hz – 16 kHz
Power Output	4 x 3 W (DC 24 V), 4 x 3 W (PoE / PoE+)	3 W
Network Interface	100BASE-TX, RJ45	
Audio Input	1 x Line / Mic Input (Balanced, Switchable)	
Control Input	2 x inputs	
Control Output	1 x output	
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C
Housing Material	Sheet Metal, ABS	Sheet Metal, ABS
Dimensions	Ø180 × 120.5 mm	Ø180 × 120.5 mm
Weight	740 g	620 g

NETWORK CABINET SPEAKER GEN-6013A01/GEN-6013F

RECOMMENDED USES

This is a PoE/DC-powered wall-mounted speaker that supports SIP and VMS, can handle up to 20 multicast streams, and can store up to 20 audio files. It is suitable for schools, shopping malls and restaurants.



KEY FEATURES

- **Multi-Protocol Compatibility:** Supports SIP, ONVIF, and multicast protocols for easy integration into existing IP networks and audio systems.
- **Up to 20 Multicast Groups:** Supports up to 20 multicast addresses for zoned broadcasting and multi-scenario use.
- **Built-in 80MB Storage:** Built-in 80MB storage stores up to 20 audio files, reducing network dependency.
- **WAV & MP3 Playback:** Supports WAV and MP3 formats for daily broadcasts and emergency alerts.
- **Flexible Playback Modes:** Supports scheduled, loop, and interval playback to meet different broadcast needs.
- **Easy Wall Installation:** Supplied with a U-shaped mounting bracket for easy wall or bracket installation.
- **HTTP & Local Trigger Control:** Playback can be triggered via HTTP commands or local interfaces for flexible control.
- **Control & Audio Input:** Provides one control input and one audio input for easy linkage with other devices.

TECHNICAL PARAMETERS

Power Source	DC 12–24 V, PoE (IEEE 802.3af/802.3at)
Power Consumption	≤ 3 W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Frequency Response	140 Hz – 20 kHz
Sensitivity	88 dB (1 m / 1 W / 1 kHz)
Max. SPL	98 dB (1 m / 10 W / 1 kHz)
Network Interface	100BASE-TX, RJ45
Audio Input	1 × input, 1000 mV
Control Input	1 × input
Operating Temperature	0 °C to +50 °C
Rated Power	7 W (DC 12 V / PoE / PoE+), 10 W (DC 24 V)
Dimensions	130 × 124 × 238 mm
Weight	2100 g

NETWORK WALL MOUNT SPEAKER GEN-6011A03

RECOMMENDED USES

Suitable for indoor such as conference rooms, classrooms, and halls, and outdoor areas.



KEY FEATURES

- **All-in-One Wall-Mounted Design:** Integrates network audio decoding, digital amplifier, and speaker in one wall-mounted unit.
- **Fast Industrial Chipset:** Uses a high-speed industrial-grade dual-core ARM+DSP chipset with boot time ≤1 second.
- **Built-in Hi-Fi Amplification:** Built-in high-fidelity speakers and stereo Class-D power amplifier deliver quality audio performance.
- **PoE & DC Power Supply:** Supports both DC power and PoE (IEEE 802.3at), with support for the international standard SIP protocol.
- **RJ45 Network Connectivity:** Standard RJ45 network interface supports connection through Ethernet or PoE switch ports, with cross-segment and cross-router connectivity.

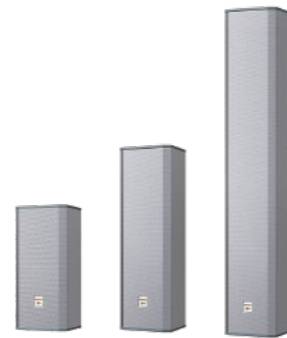
TECHNICAL PARAMETERS

Power Supply	DC24V
Power Consumption	Standby ≤3W
Max SPL	103dB
Sensitivity	88dB
Rated Power	15W(POE/POE+), 30W(DC24V)
Frequency Response	100Hz-18kHz
SNR	≥85dB
IP Rating	IP66
Network Protocols	TCP/IP, UDP, HTTP, RTP,RTSP,ARP, ICMP, NTP,SIP,ONVIF, DHCP
Network Transmission Rate	10M/100M adaptive
Interfaces	1 network port, 1 DC power port, 2 control input, 1 line input, 1 alarm output
Operating Temperature, Humidity	-30°C to 60°C, 10% to 90% RH (non-condensing)
Product Dimensions, Weight	193x151.5x292mm, 2.4 kg

NETWORK COLUMN SPEAKER GEN-6191A03/A06/A12

RECOMMENDED USES

This network column speaker is available in 3 power options: 30W/60W/120W. Supports PoE and DC power, SIP and VMS, and can handle up to 20 multicast streams and store 20 audio files. It is suitable for factories, schools, and urban buildings.



KEY FEATURES

- **Rugged Aluminum Housing:** Aluminum alloy housing is sturdy, water-resistant, and suitable for both indoor and outdoor use.
- **Multiple Audio Inputs:** Supports network, line-in, and Bluetooth connections to meet different PA application needs.
- **Built-in 80MB Storage:** Built-in 80MB storage can save up to 20 audio files for more independent operation.
- **Multi-Protocol Integration:** Supports SIP, ONVIF, and multicast protocols for seamless integration with existing IP networks and audio/video systems.
- **Up to 20 Multicast Groups:** Supports up to 20 multicast addresses for zoned broadcasting and multi-point linkage.
- **WAV & MP3 Playback:** Supports WAV and MP3 formats for daily broadcasts and emergency announcements.
- **Easy Wall-Mount Installation:** Comes with a wall-mount bracket for easy installation and faster deployment.
- **HTTP & Physical Trigger Control:** Supports playback triggering via HTTP commands or physical interfaces for flexible and reliable control.
- **Control & Audio Input:** Provides one control input and one audio input for easy integration with other systems and devices.

TECHNICAL PARAMETERS

Model No.	GEN-6191A03	GEN-6191A06	GEN-6191A12
Power Supply	DC 24V / 1.5 A (PoE)	DC 24V	AC 110 – 240V
Rated Power Output	15W(POE/POE+) 30W (DC 24V)	60W	120W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF		
Max. SPL	85dB ±3dB	102dB ±3dB	107dB ±3dB
Signal-to-Noise Ratio	≥ 85dB		
Frequency Response	100Hz – 15kHz		
IP Rating:	IPX5		
Dimensions	296×140×130 mm	436×140×130 mm	916×140 ×130mm
Weight	1.69kg	2.65kg	6.85kg

IP OUTDOOR COLUMN LOUDSPEAKER NAS-8507B

RECOMMENDED USES

Specifically designed for voice announcements and background music in smart pole projects.



KEY FEATURES

- **Aluminum Alloy Enclosure:** High-grade aluminum alloy enclosure suitable for installation in different environments.
- **IP65 Weatherproof Design:** Outdoor weatherproof design with protection rating up to IP65.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **All-in-One Audio System:** Built-in network audio decoder, Class-D digital amplifier, and DSP for clear and intelligible voice reproduction.
- **Built-in Loop Detection:** Built-in loop detector supports remote monitoring of the loudspeaker's working condition.
- **Offline Scheduled Playback:** Supports scheduled bell ringing with custom MP3 files stored on the built-in FTP server, allowing automatic playback even when offline.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with most mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Model No.	NAS-8507B(30W)	NAS-8507B(40W)
Power Supply	DC 24V/2.7A	
Power Consumption	≤40W	≤50W
Rated Power Output	30W	40W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP2, MP3, PCM/L16, ADPCM	
S/N (Signal-to-Noise) Ratio	≥85dB	
Frequency Response	50Hz-20kHz	
Interface	1×RJ45 Ethernet Port, 1×Line Input, 1×Relay Input, 1×Power Input	
IP Rating	IPX5	
Dimensions	450×88.1×83.2mm	600×88.1×83.2mm
Weight	2.15kg	2.75kg

IP OUTDOOR COLUMN LOUDSPEAKER XC-9603A

RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in warehouse, factory plant, sea port, outdoor parking lot, bus station, school playground and other outdoor public areas.



KEY FEATURES

- **Aluminum Alloy Enclosure:** High-grade aluminum alloy enclosure suitable for installation in different environments.
- **IPX5 Weatherproof Design:** Outdoor weatherproof design with protection rating up to IPX5.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **All-in-One Audio System:** Built-in network audio decoder, Class-D digital amplifier, and DSP for clear and intelligible voice reproduction.
- **Built-in Loop Detection:** Built-in loop detector supports remote monitoring of the loudspeaker's working condition.
- **Dynamic Volume Control:** Supports automatic output volume adjustment according to the monitored ambient noise level.
- **Offline Scheduled Playback:** Supports scheduled bell ringing with custom MP3 files stored on the built-in FTP server, allowing automatic playback even when offline.
- **Triggered Ringtone Playback:** Supports storing specific ringtone files on the built-in FTP server for automatic playback when the relay input is triggered.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with most mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Model No.	XC-9603A03	XC-9603A06	XC-9603A12
Power Supply	DC 24V/2.7A	AC 220V 50Hz	AC 220V 50Hz
Power Consumption	≤40W	≤75W	≤150W
Rated Power Output	30W	60W	120W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP		
Audio Codec	MP2, MP3, PCM/L16, ADPCM		
Maximum SPL	105dB±3dB	108dB±3dB	111dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB		
Frequency Response	200Hz-18kHz		
Interface	1×RJ45 Ethernet Port, 1×Power Input		
IP Rating	IPX5		
Dimensions	440×227×125mm	710×227×125mm	1110×227×125mm
Weight	5.1kg	8.4kg	13.6kg

WALL MOUNT SPEAKER NAS-8507A & NAC-301C

RECOMMENDED USES

NAS-8507A is suitable for offices, regular classrooms, and conference settings.

NAC-301C is suitable for indoor corridors, passageways, and rooms.



KEY FEATURES

- **All-in-One Wall-Mount Design:** Integrates network audio decoding, digital amplification, and speakers in one wall-mounted unit.
- **Fast ARM + DSP Processing:** Uses high-speed industrial dual-core ARM + DSP chips with a startup time of ≤ 1 second.
- **Built-in Class-D Amplifier:** Includes built-in high-fidelity speakers and 2×20W (8Ω) stereo Class-D power amplifiers.
- **Remote Circuit Monitoring:** Built-in circuit detection supports remote monitoring of speaker status for easier maintenance.
- **Flexible Volume Control:** Service software supports remote output volume adjustment, while local line-in volume can be adjusted by knob.
- **RJ45 Network Connectivity:** Standard RJ45 network interface supports Ethernet connection with cross-segment and cross-router communication.
- **Clear Sound & Durable Structure:** Composite speaker cone delivers clear sound quality and features composite suspension and damping treatment for longer service life.

TECHNICAL PARAMETERS(NAS-8507A)

Power Supply and Consumption	DC 24V/2A, ≤46W, Standby ≤3W
Network Communication Protocols	TCP/IP, UDP, ARP, ICMP, IGMP
Audio Encoding	MP2/MP3/PCM/ADPCM
Audio Sampling and Bit Rate	8kHz-48kHz, 16bit, 8kbps-320kbps
SNR and Speaker Frequency Response	≥85dB, 60Hz-20kHz
Built-in Amplifier Power	2×20W (8Ω impedance)
Operating Temperature and Humidity	0°C-45°C, 10%-90% RH (non-condensing)
Product Dimensions and Weight	157.5 x 147 x 246 mm, 1.9 kg

TECHNICAL PARAMETERS(NAC-301C)

Speaker Unit	1× Paper Cone Woofer;1× Paper Cone Tweeter
Power Output	20W
Input Impedance	8Ω
Sensitivity	98dB±3dB
Frequency Response	200Hz-20KHz
Dimensions	157.5×147×246mm
Weight	1.5kg

IP CABINET SPEAKER XC-9602B & NCS-R51/NCS-R50



RECOMMENDED USES

Specifically designed for public address and local sound reinforcement in classroom, lecture hall or school auditorium.

KEY FEATURES

- **Two-Way Speaker Design:** Bass reflex two-way speaker design with a 5" woofer and 3" tweeter for excellent voice reproduction.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **All-in-One Audio System:** Built-in network audio decoder, Class-D digital amplifier, and DSP for clear and intelligible sound.
- **Offline Scheduled Playback:** Supports scheduled bell ringing with custom MP3 files stored on the built-in FTP server, allowing automatic playback even when offline.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with most mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.
- **Optional LED Clock Connection:** Optional USB 2.0 port on the back can connect to the SEC-M1101A LED digital wall clock for synchronized time and text display.
- **Optional Auxiliary Speaker Output:** Optional 8Ω auxiliary speaker output can connect to and drive the NAC-301H 30W 8 Ω cabinet speaker.
- **Optional UHF Wireless Mic Support:** Optional built-in UHF wireless receiver module can work with NCS-R51/NCS-R50 UHF wireless microphones for classroom sound reinforcement.

TECHNICAL PARAMETERS(XC-9602B)

Power Supply	AC 220V 50/60Hz, POE+ (IEEE802.3at)
Power Consumption	≤3W
Rated Power Output	2x30W (at AC 220V150Hzpowered) 2x7W (at PoE+ powered)
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM, G.711 A-law, G.711 u-law
Maximum SPL	101dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	50Hz-18kHz
Auxiliary Speaker Output	8Ω (Low-Impedance)
Interface	2×RJ45 Ethernet Port, 1×USB 2.0, 2×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Auxiliary Speaker Output (8Ω), 1×Power Input
Dimensions	290×215×117mm
Weight	3.25kg
Standard Accessories	1×8.2 ft. 1/8" Male to Male Audio Cable, 1×Installation Manual
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)

IP ULTRA DIRECTIONAL SPEAKER HIT-9616A12



RECOMMENDED USES

The directional sound system uses phased-array speakers and DSP control to guide sound in a precise direction. It delivers clear, focused audio to the target area while reducing sound to the sides and back. This helps cover open spaces and campus areas accurately, meeting daily activity needs while limiting noise impact on nearby environments.

KEY FEATURES

- **Full Aluminum Housing:** Full aluminum housing ensures stable operation in hot, cold, rainy, and dusty environments.
- **Advanced Beamforming Technology:** Uses advanced beamforming technology to deliver sound precisely to the target area.
- **Built-in Amplifier & DSP:** Built-in digital amplifiers and DSP processors eliminate the need for external amplifiers.
- **Alarm I/O Linkage:** Supports alarm input and output for emergency and security system linkage.
- **Multiple Signal Inputs:** Supports three signal inputs and multiple protocols for easy system integration.

TECHNICAL PARAMETERS

Rated Output Power	120 W
Power Supply	AC 220 V, 50 / 60 Hz
Standby Power Consumption	≤ 5 W
Network Communication Protocols	TCP, UDP, ARP, ICMP, IGMP, SIP, HTTP, FTP
Audio Coding	MP2, MP3, PCM, ADPCM
Signal-to-Noise Ratio	≥ 85 dB
Power Amplifier Frequency Response	20 Hz – 16 kHz
Line Input / Line Output Frequency Response	150 Hz – 16 kHz
Operating Temperature	-20 °C ~ +55 °C
Dimensions	912 × 150 × 212 mm

NETWORK AUDIO INTERFACE GEN-3001A03

RECOMMENDED USES

The Network Audio Interface supports DC and PoE power input. It can receive calls from SIP phones or VMS platforms and can handle up to 20 multicast streams.



KEY FEATURES

- **Long-Distance IP Audio Transmission:** Enables real-time audio transmission over IP networks with stable performance for long-distance applications.
- **Multi-Protocol Compatibility:** Compatible with mainstream protocols such as SIP, ONVIF, and multicast for easy integration with existing communication and security systems.
- **Multiple Audio I/O Interfaces:** Provides multiple audio input and output interfaces to connect microphones, speakers, and alarm devices for different system scales.
- **Priority Task Management:** Supports priority settings for SIP, ONVIF, multicast, and broadcast tasks to ensure emergency audio is transmitted first.
- **Remote Network Monitoring:** Supports remote network control with real-time device status monitoring to reduce maintenance effort.
- **HTTP API Trigger Control:** Receives event trigger commands via HTTP API to automatically play preset audio or start broadcasting.

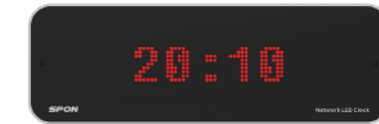
TECHNICAL PARAMETERS

Power Source	DC 24 V, PoE (IEEE 802.3af/802.3at)
Power Consumption	≤ 3 W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF, DHCP
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Frequency Response	100 Hz – 20 kHz
Power Output	2 × 30 W (DC 24 V), 2 × 7 W (PoE / PoE+)
Network Interface	100BASE-TX, RJ45
Audio Input	1 × Line / Mic Input (Balanced, Switchable)
Audio Output	1 × RCA Output, 0 dB
Control Input	4 × inputs
Control Output	1 × relay output / DC 12 V output (switchable)
Operating Temperature	-10 °C to +50 °C
Housing Material	Sheet Metal
Dimensions	115 × 139 × 40 mm
Weight	500 g

NETWORK LED CLOCK GEN-3102A03

RECOMMENDED USES

This is a network LED clock speaker powered by DC or PoE. It supports SIP and VMS, can connect 2 external speakers, handles up to 20 multicast streams, and supports priority control, scheduling, and custom events via HTTP API, ideal for school and station.



KEY FEATURES

- **High-Accuracy RTC Clock:** Built-in high-accuracy RTC clock supports automatic time synchronization via an NTP server.
- **Wide-Angle LED Display:** Uses 20 pieces of 8×8 LED dot-matrix modules for even display, with a wide 180° viewing angle and clear visibility.
- **Time & Text Display:** Displays time in standalone mode and shows text messages when connected to a server.
- **Built-in 80MB Storage:** Built-in 80MB storage can save up to 20 audio files, reducing reliance on the network.
- **Flexible Playback Modes:** Supports scheduled, loop, and interval playback for daily notices and emergency broadcasts.
- **External Mic & One-Click Calling:** Supports an external microphone and one-click calling to targets via the web interface, ideal for classroom use.
- **Multicast Audio Broadcasting:** Supports multicast audio transmission for multi-zone, synchronized broadcasting.

TECHNICAL PARAMETERS

Power Source	DC 24 V, PoE (IEEE 802.3af/802.3at)
Power Consumption	≤ 3 W
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF, DHCP
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Frequency Response	100 Hz – 20 kHz
Rated Output	2 × 30 W (DC 24 V), 2 × 7 W (PoE / PoE+)
Network Interface	100BASE-TX, RJ45
Audio Input	1 × Line / Mic Input (Balanced, Switchable)
Control Input	2 × inputs
Control Output	1 × output
Operating Temperature	-10 °C to +50 °C
Housing Material	Sheet Metal, ABS
Dimensions	366 × 123 × 55 mm
Weight	1600 g

NETWORK EQUISOUND SPEAKER NXT-3602

RECOMMENDED USES

Designed for indoor environment, teaching amplification, multimedia amplification and broadcasting.



- Network Broadcasting
- Blue Tooth
- Multi-Channel Mixing
- APP Remote Configuration
- Audio Amplification

KEY FEATURES

- **Optional UHF Mic Support:** Supports local UHF microphone sound reinforcement, with optional support for two wireless microphones simultaneously.
- **Line-in & Bluetooth Input:** Supports both line input and Bluetooth audio source input.
- **Dual Line Outputs:** Provides two line output interfaces for connection to recording systems and cascading with multiple speakers.
- **Five-Channel Volume Control:** Supports five-channel volume adjustment, with each channel adjustable independently.
- **Built-in DSP Tuning:** Built-in DSP optimizes sound tuning for both human voice and music.
- **APP-Based Configuration:** Supports app-based management for volume adjustment, EQ settings, network configuration, and Bluetooth configuration.

TECHNICAL PARAMETERS

Frequency Response Range	100Hz - 16KHz
Maximum Sound Pressure Level (1m)	100dB±3dB
Amplifier Output Power	Treble 30W Bass 120W
Operating Temperature	0°C - +55°C
Operating Humidity	10%-90%RH(No condensing)
Weight	2.5Kg
Loudspeaker Unit	Bass 2 "X8 Treble 1 "X2
Sensitivity(1m/W)	86dB(±6dB)
Total Harmonic Distortion (THD)	<0 .5%
Standby Power Consumption	≤7W
Power Supply Voltage	AC100-240V 50-60Hz
Product Dimensions (LXWXH)	235X200X204mm(Without bracket)

MINI EAR-HOOK UHF WIRELESS MICROPHONE NCS-R50

KEY FEATURES

- **3-in-1 Wearing Style:** Can be used as an ear-hook, collar clip, or handheld microphone, with flexible switching between modes.
- **Auto Channel Pairing:** Automatically searches for the channel and pairs upon power-on.
- **Infrared Anti-Interference:** Infrared connection helps prevent frequency interference and improves anti-interference performance.



IP SPEAKER

MINI HANDHELD UHF WIRELESS MICROPHONE NCS-R51

KEY FEATURES

- **3.5mm Audio & Mic Input:** Supports both 3.5mm audio input and microphone input.
- **Power-On Noise Elimination:** Newly designed noise elimination circuitry reduces power on/off shock noise.
- **OLED Status Display:** OLED display shows signal strength, frequency pairing mode, battery level, working channel, volume, and frequency pairing status.
- **Auto Power-Off:** Automatically shuts down within 60 minutes when there is no signal input for better energy saving.



WIRELESS MICROPHONE KIT NAC-5068A/B

KEY FEATURES

- **Hall Sensor Pairing:** Any microphone can pair with any receiver via Hall sensor.
- **Magnetic Wearing Design:** The transmitter features a built-in magnet and supports both a magnetic clip and neck strap for flexible wearing.
- **360° Adjustable Pickup:** The clip supports 360° directional adjustment and can be attached anywhere on the chest for convenient use.
- **Long Battery Life:** A single microphone works for over 6 hours, with 0%-100% charging in 2 hours, and the charging case supports two additional charges.
- **Single or Dual Mic Support:** One receiver supports single or dual microphones and multiple receiving systems simultaneously.
- **Up to 20m Transmission Range:** Local audio transmission range reaches up to 20 meters.



MICROPHONE PANEL GEN-4101

RECOMMENDED USES

This mic panel with a built-in mic, alarm button, and status light. It fits a standard 86 mm wall box and is easy to install. When used with SIPLINK series devices, it supports two-way communication, making it suitable for schools, offices, factories, and public areas.



KEY FEATURES

- Built-in Mic & Call Button:** Features an omnidirectional condenser microphone and a call button for calling or local audio playback.
- Plug-and-Play Installation:** Easy to install with no setup required, allowing simple expansion of terminal functions.
- 30m Audio Transmission:** Supports audio transmission up to 30 meters for flexible deployment.
- Standard 86 Box Mounting:** Supports wall-mounted or flush installation and fits standard 86 mm electrical boxes.

TECHNICAL PARAMETERS

Power Source	DC 12 V	Operating Temperature	-10 °C to +50 °C
Frequency Response	100 Hz – 10 kHz	Housing Material	Aluminum Alloy
Audio Input	1 × input, -20 dB	Dimensions	86 × 86 × 22 mm
Control Output	1 × output	Weight	140 g

NETWORK AUDIO BRIDGE/IP AUDIO CONVERTER GEN-3101A01

RECOMMENDED USES

With a built-in decoding chip and 15W power amplifier, the IP Audio Converter helps integrate existing analog PA systems into a network PA system for enterprises, factories, and schools.



KEY FEATURES

- Multi-Protocol Audio Reception:** Supports SIP audio, ONVIF audio, and multicast stream reception.
- Built-in 80MB Storage:** Built-in 80MB local storage supports up to 20 WAV/MP3 audio files.
- HTTP API Playback Trigger:** Enables local file playback through HTTP API triggers.
- Mic & Audio Interfaces:** Equipped with one MIC input for intercom, one audio output, and one speaker interface.
- Timed Local Playback:** Supports timed playback of locally stored audio files.

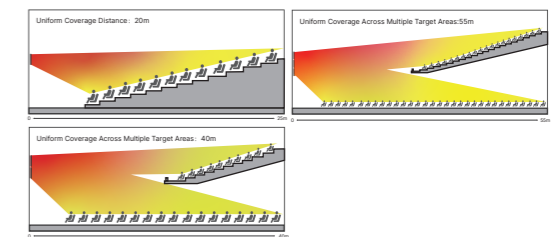
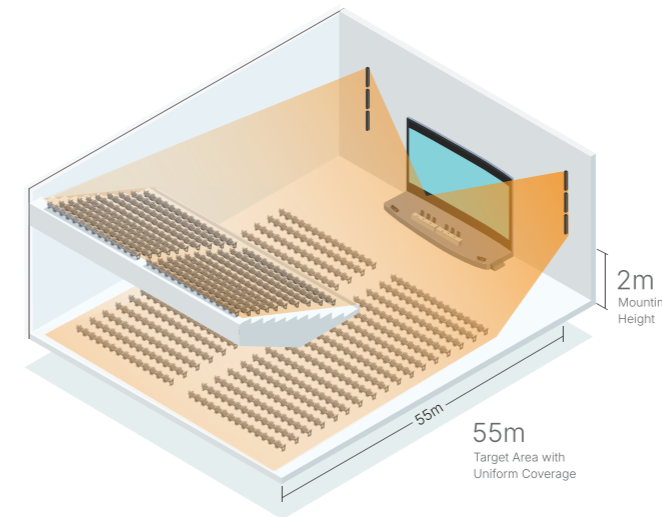
TECHNICAL PARAMETERS

Power Supply	PoE (IEEE 802.3af/802.3at)	Frequency Response	100 Hz – 20 kHz
Standby Power Consumption	< 3 W	Signal-to-Noise Ratio	≥ 85 dB
SNR:	≥90 dB	Operating Temperature	-10 °C to +50 °C
Audio Encoding	Opus, PCMU(G.711W), PCMA(G.711a), C.722	Product Dimensions	126 × 66 × 27 mm
Power Output	15 W @ 8 Ω	Product Weight	0.16 kg
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF, DHCP		

DIGITALLY STEERABLE COLUMN LOUDSPEAKER APS-9004CDT-8

RECOMMENDED USES

Clear, Balanced Sound For: Check-in Halls · Auditoriums · Departure Lounges · Large Conference Rooms



IP SPEAKER

KEY FEATURES

- SFS Soundfield Synthesis:** Generates precisely shaped soundfields for exceptional speech clarity in complex spaces.
- Multi-Zone Targeted Control:** Supports single, dual, or multiple beams for precise coverage of tiered seating, check-in halls, and passenger corridors.
- Visual Soundfield Design Software:** Creates custom sound coverage by entering installation height and listening area geometry, with no manual tuning required.
- High-Precision Array Optimization:** Optimizes each array element's response to deliver uniform direct sound with minimal unwanted radiation.
- Consistent Loudness & Tonal Balance:** Ensures even sound from near to far, eliminating "loud front, unclear back" issues.
- Superior Reverberation Control:** Reduces reflections and sound spill outside target zones, significantly improving speech intelligibility.
- True Vertical Installation:** Requires no physical tilt, with fully DSP-controlled soundfield and clean architectural integration.
- Modular & Scalable Design:** Supports seamless cascading of multiple columns to extend coverage beyond 55 meters.

TECHNICAL PARAMETERS

Driver Configuration	4" Elliptical Drivers × 8	Operating Temperature	-10°C-50°C
Maximum SPL	125dB SPL	Operating Humidity	≤90%HR(Non-condensing)
Amplifier Output Power	120Hz-16KHz	Dimensions	1200(H)×130(W)×130(D)mm
Sampling Rate	48kHz	Power Rating	Rated Power: 360W Peak Power: 480W
Power Supply	AC 100V~240V 50/60Hz	Coverage Pattern	Horizontal (Fixed): 135° Vertical (Adjustable): 90dBA SPL @ 20m
Ingress Protection	IP54		

IP AMPLIFIER

IP PA System

High-performance amplifier ensuring stable, powerful and distortion-free audio amplification.



NETWORK MULTI-ZONE AMPLIFIER GEN-5501P13/P26/P36/P55/P70

RECOMMENDED USES

The Network Multi-Zone Amplifier is an AC-powered, network-integrated amplifier featuring a built-in Class-D digital amplifier and supporting 100V/70V output. It can receive SIP calls from phones or VMS platforms, handle up to 20 multicast streams, and store up to 20 audio files.



KEY FEATURES

- **Multi-Zone Audio Distribution:** Enables precise audio control and targeted broadcasting across different zones.
- **Built-in Class-D Amplifier:** Built-in Class-D amplifier with 100V/70V constant-voltage output for reliable PA performance.
- **SIP & Multicast Integration:** Supports SIP calls from IP phones or VMS platforms and up to 20 multicast streams.
- **Synchronized Network Broadcasting:** Delivers synchronized IP audio playback across multiple locations.
- **Versatile Audio Inputs:** Supports Bluetooth, mic/external input, and local MP3/WAV playback.
- **Scheduling & Priority Control:** Built-in timer and priority management support automated and organized audio tasks.
- **Programmable HTTP API:** Enables remote automation and third-party integration via HTTP API.

TECHNICAL PARAMETERS

MODEL NO.	GEN-5501P13	GEN-5501P26	GEN-5501P36	GEN-5501P55	GEN-5501P70
Amplifier Topology	Class-D				
Frequency Response	130Hz~18KHz(±3dB)				
THD + N	< 0.1%@1KHz				
SNR	≥85dB				
Audio Output Power	70V/100V,1 × 130W	70V/100V,1 × 260W	70V/100V,1 × 360W	70V/100V,1 × 550W	70V/100V,1 × 700W
Audio Transmission	Multicast, x20(Editable)				
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722				
Audio Stream	WAV: 8/16/22/44.1/48 kHz, 8/16-bit, mono/stereo; MP3: 32/44.1/48 kHz, 64-320 kbps, CBR/VBR, mono/stereo				
Audio Storage	Max 20 audio files, 80MB				
Audio File Format	WAV, MP3				
Network I/F	100BASE-TX, RJ45 Connector				
Network Protocol	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF				
Housing Material	Sheet Metal				
Dimensions	483*317*44mm				

NETWORK INTEGRATED AMPLIFIER GEN-5301P13/P26/P36/P50

RECOMMENDED USES

This AC-powered network integrated amplifier includes a built-in Class-D digital amplifier with 100V/70V output. It supports SIP calls from phones or VMS platforms, up to 20 multicast streams, and storage for up to 20 audio files.



KEY FEATURES

- **Professional Class-D Amplification:** Built-in Class-D digital amplifier, AC-powered, with 100V/70V constant voltage output.
- **SIP & Multicast Integration:** Supports SIP calls from phones or VMS platforms and up to 20 simultaneous multicast streams.
- **Synchronized IP Broadcasting:** Delivers synchronized audio playback across multiple areas over IP networks, ideal for large-scale PA systems.
- **Flexible Input Sources:** Supports Bluetooth, microphone/external device input, and local playback of MP3 or WAV files.
- **Intelligent Task Management:** Built-in timer and priority management ensure efficient handling of audio tasks and broadcast events.
- **Programmable Automation:** Supports custom actions triggered via HTTP API for flexible system integration and automation.
- **Comprehensive Remote Management:** Enables real-time network configuration and control via API, including source selection and scheduled playback.

TECHNICAL PARAMETERS

MODEL NO.	GEN-5301P13	GEN-5301P26	GEN-5301P30	GEN-5301P50
Amplifier Topology	Class-D			
Frequency Response	130Hz~18KHz(±3dB)			
THD + N	< 0.1%@1KHz			
SNR	≥85dB			
Audio Output Power	70V/100V,1×130W	70V/100V,1×260W	70V/100V,1×360W	70V/100V,1×500W
Audio Transmission	Multicast, x20(Editable)			
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722			
Audio Stream	WAV (8/16/22/44.1/48 kHz, 8/16-bit, mono/stereo); MP3 (32/44.1/48 kHz, 64–320 kbps, CBR/VBR, mono/stereo)			
Audio Storage	Max 20 audio files, 80MB			
Audio File Format	WAV, MP3			
Network I/F	100BASE-TX, RJ45 Connector			
Network Protocol	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF			
Config Method	Web Interface or DevConfig Tool			
Housing Material	Sheet Metal			
Dimensions	483*317*44mm			

MULTI-ZONE IP MIXER AMPLIFIER NBS-2301

RECOMMENDED USES

This unique multi-zone IP amplifier could be a cost-effective choice for schools, hospitals, office buildings, shopping malls and other public places.



KEY FEATURES

- **Rugged 2U Rack Design:** 2U rack-mount design with all-metal housing for sturdy and durable use.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **All-in-One Amplifier System:** Integrates preamp, network audio decoder, 100V constant-voltage digital amplifier, digital mixer, MP3 player, microphone, and loudspeaker in one unit.
- **Front-Panel Local Control:** 4.3" TFT LCD screen, function buttons, tone controls, independent volume knobs, and peak level LED indicators provide convenient local operation.
- **4-Zone Audio Distribution:** Unique 4-zone 100V constant-voltage audio distribution allows separate sub-zone control for voice announcements and background music.
- **Local Audio-on-Demand:** Custom WAV or MP3 files can be stored on the SD card and played locally.
- **Offline Scheduled Playback:** Supports scheduled bell ringing with MP3 files stored on the SD card for automatic playback even when the amplifier is offline.
- **Built-in Mic & Speaker:** Built-in microphone and loudspeaker support two-way audio communication with other IP intercom stations in the same system.
- **SPON Software Integration:** Works with SPON audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Model No.	NBS-2301P13	NBS-2301P26	NBS-2301P36	NBS-2301P55	NBS-2301P70
Power Supply	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz
Power Consumption	≤170W	≤320W	≤420W	≤650W	≤800W
Rated Power Output	130W	260W	360W	550W	700W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP				
Audio Codec	MP3, PCM/L16, ADPCM				
S/N (Signal-to-Noise) Ratio	Mic Input 1: ≥65dB; Mic Input 2/3: ≥80dB; Line Input 1/2: ≥82dB				
THD (Total Harmonic Distortion)	≤0.5% at 1kHz, 1/2 rated output				
Frequency Response	Mic Input 1: 80Hz-14kHz; Mic Input 2/3: 60Hz-16kHz; Line Input 1/2: 60Hz-16kHz				
Speaker Output	100V (Constant-Voltage) / 8-16Ω (Low-Impedance)				
Interface	1×RJ45 Ethernet Port, 1×SD Card Slot, 3×Mic Input (1/4" TS Jack), 2×Line Input (RCA Jack), 1×Line Output (RCA Jack), 3×Relay Input, 2×Relay Output, 1×4-Zone Speaker Output (100V), 2×Speaker Output (8-16Ω), 1×Speaker Output (100V), 1×Power Input				
Dimensions	483×430×88mm				
Weight	7.5kg				
Standard Accessories	2×6-Pin Terminal Block Connector, 1×Remote Control, 1×Protective Cover, 1×Installation Manual				
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)				

IP INTEGRATED AMPLIFIER XC-9508

RECOMMENDED USES

Universally suitable for adding high power paging, scheduled loud ringing and background music to a wide range of applications.



SIP MIC Mute Adjustable Offline Ringing

KEY FEATURES

- **Rugged 1U Rack Design:** 1U rack-mount design with steel housing for sturdy and durable use.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **All-in-One Amplifier System:** Integrates preamp, network audio decoder, and 70V/100V constant-voltage digital amplifier in one unit.
- **Convenient Local Control:** Front-panel indicator LEDs and rear independent volume knobs provide clear status display and easy local adjustment.
- **Comprehensive Protection Circuit:** Includes over-current, short-circuit, overload, thermal, lightning, and surge protection.
- **Offline Scheduled Playback:** Supports scheduled bell ringing with custom MP3 files stored on the built-in FTP server for automatic playback even when offline.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **SPON Software Integration:** Works with SPON audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Model No.	XC-9508P13	XC-9508P26	XC-9508P36	XC-9508P50
Power Supply	AC100V-240V/150-60Hz 5A			
Power Consumption	≤160W	≤310W	≤420W	≤580W
Rated Power Output	130W	260W	360W	500W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, DHCP, TCP/IP, UDP, ARP, ICMP, IGMP			
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16			
S/N (Signal-to-Noise) Ratio	≥84dB			
THD (Total Harmonic Distortion)	≤0.5% at 1kHz, 1/2 rated output			
Frequency Response	130HZ-18KHZ			
Speaker Output	70V/100V (Constant-Voltage)			
Interface	1×RJ45 Ethernet Port, 1×Line Input (Balanced), 1×Line Input (Unbalanced - RCA Jack), 1×Mic Input (1/4" TS Jack), 1×Line Output (RCA Jack), 1×Relay Input, 1×Relay Output, 1×Speaker Output (70V/100V), 1×Power Input			
Dimensions	440×300×44mm			
Weight	3.45kg			
Standard Accessories	1×4-Pin Terminal Block Connector, 2×5-Pin Terminal Block Connector, 2×Rack Ear, 4×Rubber Foot, 1×Installation Manual			
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)			

IP WALL MOUNT AMPLIFIER NAS-8505L

RECOMMENDED USES

This IP Wall Mounted Amplifier is mainly designed for office, conference room, classroom, etc.



KEY FEATURES

- **Compact All-Metal Design:** All-metal structure with a compact and lightweight design for sturdy and durable use.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **Line Input Support:** Provides line input for connecting external music sources such as CD players or AM/FM tuners.
- **Built-in Network Audio Decoder:** Built-in network audio decoder converts digital audio streams into analog audio signals.
- **Built-in Preamp:** Includes a preamp for connecting external music source equipment.
- **Built-in Class-D Amplifier:** Built-in 2×10W or 2×30W Class-D digital amplifier can drive up to two 8-ohm passive analog speakers.
- **Industrial-Grade Dual-Core Chip:** Uses a high-speed industrial-grade ARM+DSP dual-core chip with startup time ≤1 second.
- **Real-Time Status Indicator:** Equipped with status lights to display terminal conditions such as online and offline in real time.

TECHNICAL PARAMETERS

Model No.	NAS-8505L02	NAS-8505L06
Power Supply	DC 24V/1A	DC 24V/2.7A
Power Consumption	≤24W	≤64W
Rated Power Output	2×10W	2×30W
Network Protocol	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP3, PCM/L16, ADPCM	
S/N (Signal-to-Noise) Ratio	≥80dB	
THD (Total Harmonic Distortion)	≤0.3% at 1kHz	
Frequency Response	60Hz-20kHz	
Speaker Output	8Ω (Low-Impedance)	
Interface	1×RJ45 Ethernet Port, 1×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Relay Input, 1×Relay Output, 2×Speaker Output (8Ω), 1×Power Input	
Dimensions	156.5×132×36mm	
Weight	0.5kg	0.6kg
Standard Accessories	2×4-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)

DIGITAL MIXER AMPLIFIER GEN-5101P50

RECOMMENDED USES

Designed for a mosque sound reinforcement scenario



KEY FEATURES

- **2-Channel Output Amplifier:** 2-channel output amplifier with preset sound effect modes.
- **Remote Control Support:** Supports a remote control box for independent amplifier output control.
- **6 Microphone Inputs:** Supports 6 microphone inputs with phantom power.
- **Independent Tone Control:** Features independent volume control with built-in adjustment for treble, mid, and bass.
- **Dual Line Inputs:** Supports 2 line inputs with separate volume control.



TECHNICAL PARAMETERS

Power	AC100~240V, 50/60Hz
Power Output	2*240W (100V 42Ω)
Frequency Response	70Hz~18KHz (±3dB)
SNR	≥60dB
Total Harmonic Distortion	≤1%
Phantom Power	Supported, +48V, supports microphones 1-6
Input Interfaces	MIC1~6: -50dB, XLR-3-31 or 6.3mm input, phantom 48V can be independently switched. AUX1: 500mV, 10 kΩ, unbalanced, RCA input. AUX2: 1000mV, 10 kΩ, mono mixed, unbalanced, 3.5mm input.
Output Interfaces	Speaker Output: 240W*2, 100V Line Output (Indoor): 500mV, 600Ω, unbalanced, RCA output. Line Output (Outdoor): 500mV, 600Ω, unbalanced, RCA output.
Control Interfaces	MIC1~6 Input Volume Control AUX1, AUX2 Input Volume Control MIC1~6 EQ Adjustment: Supports low, mid, high adjustment. MIC1~6 Effects Adjustment: Supports preset modes (PLATE, DOME, DELAY, HALL) selection, supports preset mode fine-tuning, supports indoor reverb time mode (L, M, S, OFF) selection. MIC5~6 Effects Mode Switch Indoor Amplifier Output Control: Supported Indoor Speaker EQ Control: Supported Indoor Amplifier Output Volume Adjustment: Supported Outdoor Amplifier Output Control: Supported Outdoor Speaker EQ Control: Supported Outdoor Amplifier Effects Switch: Supported Outdoor Amplifier Output Volume Adjustment: Supported
Network Interface	For program upgrades
Remote Control Interface	For remote control box
Serial Port	RS485, reserved
Reset Button	Supported
Operating Temperature	-10~50°C
Dimensions	483x100x435mm
Weight	8.1kg

REMOTE CONTROLLER NAC-5071A

RECOMMENDED USES

In a mosque sound reinforcement scenario, remote control of the amplifier



KEY FEATURES

- **Compact Wall-Mount Design:** Compact and refined design with support for wall mounting.
- **Cascade Connection Support:** Supports cascading with a network interface format.

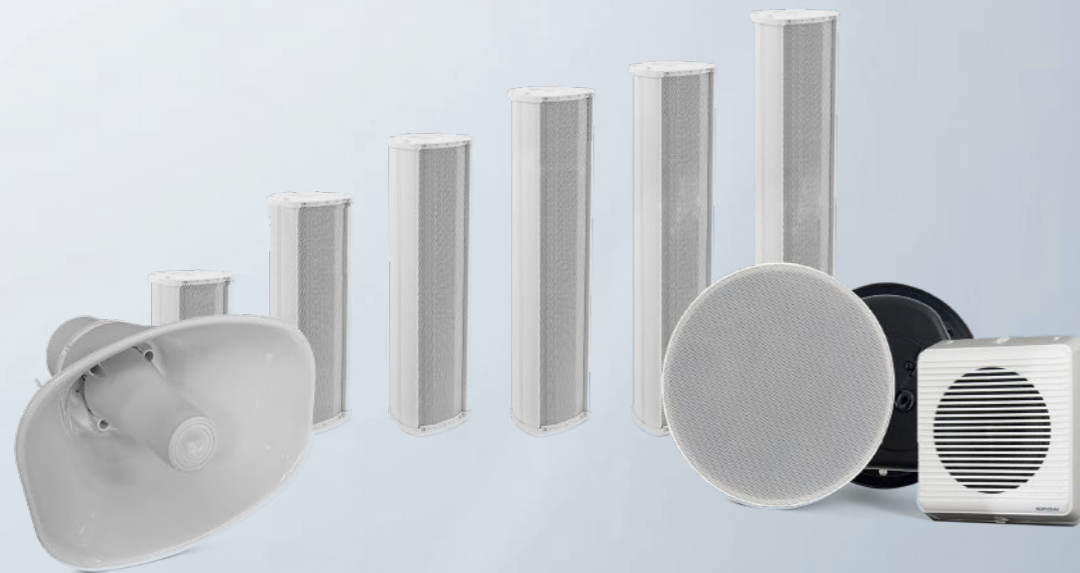
TECHNICAL PARAMETERS

Interfaces	IO interface, RJ45 format
Transmission Distance	200m
Cascading Control	Supported
Control Buttons	Amplifier output control switch, effects processor switch

ANALOG PA SPEAKER

IP PA System

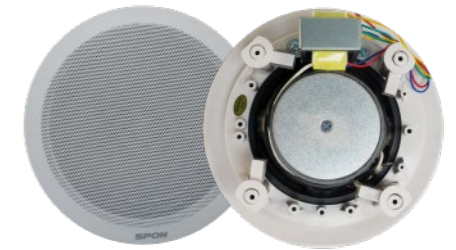
Analog PA speakers delivering clear, balanced and reliable sound coverage across every space.



15/25/35 WATT 100 VOLT CEILING SPEAKER NAC-111/NAC-112/NAC-113

RECOMMENDED USES

The ceiling speaker has a minimalist and compact design, and its recessed installation allows it to achieve a discreet, hidden effect in limited spaces. It is also suitable for use in media rooms to play background music.



TECHNICAL PARAMETERS

Model No.	NAC-111	NAC-112	NAC-113
Speaker Unit	1x5" PP Cone Woofer	1x6" PP Cone Woofer	1x8" PP Cone Woofer
Rated Power Output	5W/10W/20W	30W/15W/7.5W	40W/20W/10W
Input Voltage	100V		
Sensitivity	88dB±3dB (1m/1W)	88dB±3dB	88dB±3dB
Frequency Response	100Hz-20KHz	90Hz-20KHz	100Hz-20KHz
Ceiling Cut-out	170mm	200mm	240mm
Dimensions	Φ203×80mm	Φ230×90mm	Φ270×105mm
Weight	1.28kg	1.62kg	2.12kg

6 WATT 100 VOLT CEILING SPEAKER NAC-131

RECOMMENDED USES

This speaker is specifically designed to be installed on a ceiling without the need for drilling holes, providing greater convenience and flexibility.



TECHNICAL PARAMETERS

Speaker Unit	1x6" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	90dB±3dB
Frequency Response	80Hz-20KHz
Ceiling Cut-out	Φ170mm
Dimensions	Φ188×76mm
Weight	0.74kg

CEILING SPEAKER NAC-132/132C, NAC-133/133C, NAC-134

RECOMMENDED USES

Indoor scenarios, such as hotels, hospitals, etc.

KEY FEATURES

- **Excellent Voice & Music Performance:** Delivers clear voice and pleasant music reproduction.
- **High-Strength ABS Material:** Uses durable high-strength ABS material for reliable everyday use.
- **Seamless Indoor Integration:** Blends naturally into various indoor environments.
- **Easy Ceiling Installation:** Ceiling-mounted design allows quick and easy installation.



TECHNICAL PARAMETERS

Model No.	NAC-132	NAC-132C	NAC-133	NAC-133C	NAC-134
Rated Power	6W	6W	6W	6W	10W
Power Selection	6/3W	6/3W	6/3W	6/3W	10/5W
Input Voltage	100V	100V	100V	100V	100V
Sensitivity	88±3dB	90±3dB	90±3dB	90±3dB	90±3dB
Frequency Response	70~15KHz	200~15KHz	70~20KHz	210~20KHz	55~20KHz
Dimensions	φ160*54mm	Φ160*92mm	Φ186*71mm	Φ186*74mm	Φ232*90mm
Mounting Dimensions	φ140mm	φ140mm	Φ170mm	Φ170mm	Φ210mm
Material	ABS (aluminum grille)				
Weight	0.5kg	0.68kg	0.76kg	1.2kg	0.94kg
Speaker Specification	5"*1	5"*1	6"*1	6"*1	8"*1
Color	White				

CEILING SPEAKER NAC-181/182

RECOMMENDED USES

Indoor scenarios, such as hotels, hospitals, etc.

KEY FEATURES

- **Excellent Audio Performance:** Delivers strong voice and music performance.
- **High-Strength Housing:** Uses a durable high-strength material casing.
- **Flexible Power Settings:** Supports simple and convenient power adjustment.
- **Easy Installation:** Designed for quick installation and flexible assembly.



TECHNICAL PARAMETERS

NAC-181		NAC-182	
Rated Power:	20W	Rated Power:	30W
Power Selection:	20/10/5/2.5W/8Ω	Power Selection:	30/15/7.5/3.75W/8Ω
Input Voltage:	70V/100V	Input Voltage:	70V/100V
Sensitivity:	85±3dB	Sensitivity:	85±3dB
Frequency Response:	80~20KHz	Frequency Response:	60~20KHz
Coverage Angle (1KHz/6dB):	150 degrees	Coverage Angle (1KHz/6dB):	150 degrees
Dimensions:	Φ204*165mm	Dimensions:	Φ267*162mm
Mounting Dimensions:	Φ180mm	Mounting Dimensions:	Φ240mm
Material:	Front Panel ABS, Rear Casing Iron	Material:	Front Panel ABS, Rear Casing Iron
Weight:	2.2kg	Weight:	3.34kg
Speaker Specifications:	4" + 3/4" Coaxial Tweeter*1	Speaker Specifications:	6.5" + 1" Coaxial Tweeter*1
Color:	White Mesh / Black Rear Bucket	Color:	White Mesh / Matte Black Rear Bucket

6 WATT 100 VOLT CORRIDOR SPEAKER NAC-2304

RECOMMENDED USES

This type of speaker, designed with a lightweight and compact form factor, is commonly utilized in school building corridors to remind students of the beginning of lectures, play audio tasks, and provide background music.



TECHNICAL PARAMETERS

Speaker Unit	1x5" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	90dB±3dB
Frequency Response	180Hz-18KHz
Dimensions	175(L)×100(W)×200(H)mm
Weight	0.8kg

20/30/40 WATT 100 VOLT WALL MOUNT SPEAKER NAC-710W/NAC-720W/NAC-730W

RECOMMENDED USES

The wall-mounted speaker is suitable for large rooms or public areas. This includes the provision of public address systems for halls in schools and malls.



TECHNICAL PARAMETERS

Model No.	NAC-710W	NAC-720W	NAC-730W
Speaker Unit	4" woofer + 1" silk tweeter	5" woofer + 1" silk tweeter	6.5" woofer + 1" silk tweeter
Rated Power Output	20W/10W/5W/2.5W/1.25W	30W/15W/7.5W/3.75W/1.9W	40W/20W/10W/5W/2.5W
Input Voltage	70V/100V		
Sensitivity	84dB±3dB	86dB±3dB	88dB±3dB
Frequency Response	110Hz-20KHz	90Hz-20KHz	80Hz-20KHz
Dimensions	160x223 x146 mm	184x249x165mm	216x299 x196 mm
Weight	2.11kg	2.54kg	3.34kg

WALL MOUNT SPEAKER NAC-2312/2314

RECOMMENDED USES

Hotels, conference rooms, etc.



KEY FEATURES

- **Two-Way Speaker Design:** Features a two-way design with two built-in speaker units for better sound reproduction.
- **Durable HIPS Housing:** The casing is made of HIPS material for greater durability.
- **Selectable Transformer Input:** Includes a multi-tap transformer for selectable impedance or constant-voltage input, with adjustable power.
- **Black & White Options:** Available in black and white to match different installation styles.

TECHNICAL PARAMETERS

MODEL NO.	NAC-2312	NAC-2314
Frequency Response	100Hz~20KHz	75Hz~20KHz
Sensitivity	83dB±3dB	83dB±3dB
Rated Power	20W	60W
Power Selection	20W/10W/5W/2.5W & 8Ω	60W/30W/15W/7.5W & 8Ω
Input Voltage	100V/70V	100V/70V
Speaker	4-inch woofer *1 + 1-inch tweeter *1	6.5-inch woofer *1 + 1-inch tweeter *1
Material	HIPS	HIPS
Color	Black/White	Black/White
Weight	2.38kg	4.76kg
Product Dimensions	158*129*238(mm)	213x171x321 mm

PENDANT SPEAKER NAC-2403

RECOMMENDED USES

Airport terminals, shopping malls, restaurants, office environments, etc.

KEY FEATURES

- **Coaxial Speaker Unit:** Built-in high-quality coaxial speaker unit delivers excellent sound reproduction and music performance.
- **Durable ABS Housing:** The casing is made of ABS material for higher durability.
- **Elegant Pendant Design:** Features a simple structure with an elegant appearance.



TECHNICAL PARAMETERS

Frequency Response	90Hz~20KHz	Speaker	6.5-inch woofer *1 / 0.5-inch tweeter *1
Sensitivity	86dB±3dB	Material	ABS + aluminum mesh
Rated Power	60W	Color	White
Power Selection	7.5W/15W/30W/60W/8Ω (100V)	Weight	3.12kg
Input Voltage	100V/70V	Product Dimensions	Φ226*224mm

PENDANT SPEAKER NAC-2404

RECOMMENDED USES

Airport terminal, shopping mall, restaurant, office, and other similar settings.

KEY FEATURES

- **Coaxial Hi-Fi Speaker Unit:** Built-in coaxial high-fidelity speaker delivers excellent sound reproduction and music performance.
- **Durable PP Housing:** The housing is made of PP material for enhanced durability.
- **Elegant Pendant Design:** Features a simple structure with an elegant appearance.



TECHNICAL PARAMETERS

Frequency Response	85Hz~17KHz	Speaker	6.5-inch woofer * 1 + 1-inch tweeter
Sensitivity	87dB±3dB	Material	PP + calcium
Rated Power	60W	Color	Black
Power Selection	7.5W/15W/30W/60W/8Ω(100V)	Weight	3.95kg
Input Voltage	100V/70V	Product Dimensions (mm)	Φ234*314mm

WATERPROOF COLUMN SPEAKER NAC-221A/231A/241A/251A/261A/271A

RECOMMENDED USES

Outdoor scenarios: playgrounds, parks



KEY FEATURES

- **Excellent Voice & Music Performance:** Delivers clear voice and strong music performance.
- **Aluminum Alloy Housing:** Uses an aluminum alloy casing for durable outdoor use.
- **Waterproof & Corrosion-Resistant:** Designed to withstand rain and resist corrosion in outdoor environments.
- **Easy Installation & Power Setting:** Supports simple installation with convenient power adjustment.

TECHNICAL PARAMETERS

MODEL NO.	NAC-221A	NAC-231A	NAC-241A	NAC-251A	NAC-261A	NAC-271A
Rated Power	20W	40W	60W	80W	100W	120W
Power Selection	20W/10W	40W/20W	60W/30W	80W/40W	100W/50W	120W/60W
Input Voltage	100V	100V	100V	100V	100V	100V
Sensitivity	91dB ±3dB	110dB±3dB	92dB±3dB	95±3dB	93dB±3dB	92dB±3dB
Frequency Response	80Hz~18KHz	80Hz~20KHz	110Hz~18KHz	120Hz~16KHz	100Hz~18KHz	100Hz~16KHz
Dimensions(mm)	323x170x148	442*170*148	590*170*148	736*170*148	854*170*148	986*170*148
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Weight	3.2kg	5.05kg	5.84kg	7.95kg	8.54kg	9.94kg
Waterproof Rating	IP55	IP55	IP55	IP55	IP55	IP55
Speaker Specification	5"*1+ 1"*1"	5"*2 + 1"*1"	5"*3 + 1"*1"	5"*4 + 1"*1"	5"*5 + 1"*1"	5"*6 + 1"*1"
Color	White	White	White	White	White	White

30 WATT 100 VOLT HORN SPEAKER NAC-2503

RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

TECHNICAL PARAMETERS

Rated Power Output	15W/30W
Input Voltage	100V
Sensitivity	104dB (1 m/1 V)
Frequency Response	310Hz-5KHz
IP Rating	IP66
Dimensions	285×205×285mm
Weight	2.1kg



50 WATT 100 VOLT HORN SPEAKER NAC-2510

RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

TECHNICAL PARAMETERS

Rated Power Output	25W/50W
Input Voltage	100V
Sensitivity	110 dB (1 m/1 W)
Frequency Response	280Hz-5KHz
IP Rating	IP66
Dimensions	325×325×350mm
Weight	2.58kg



200 WATT 100 VOLT HORN SPEAKER NAC-2508

RECOMMENDED USES

Widely used in hotels, commercial buildings, supermarkets, schools, recreational facilities, and other public spaces.

KEY FEATURES

100V Line Compatible: The horn speaker can be directly connected to a 100V line output.

TECHNICAL PARAMETERS

Speaker Unit:	Circular horn speaker
Maximum Power:	400W
Rated Power (PHC):	200W
Sensitivity (1kHz, 1 meter):	104 dB (1 m/1 W)
Effective Frequency Range (-10dB):	70-20kHz
Rated Voltage:	100V
Input Interface:	2-core connection wire
Wiring Terminal Colors:	Black
Product Dimensions:	565 x565 x758 mm
Net Weight:	33 ± 2 kg
Installation Method:	Three-point suspension
Horn Body:	Aluminum with black coating
Bracket:	Steel with black coating
Operating Temperature:	-25°C to +55°C
Storage Humidity:	-40°C to +70°C
Relative Humidity:	<95%



HORN SPEAKER NAC-2517



RECOMMENDED USES

Designed for outdoor areas, schools and parks.

KEY FEATURES

- **Durable Aluminum Construction:** Built with high-quality aluminum material for enhanced durability and corrosion resistance.
- **Selectable Voltage & Impedance:** Features adjustable 70V/100V constant-voltage and constant-resistance settings for flexible configuration.
- **70V/100V System Compatibility:** Designed to integrate easily with 70V or 100V input systems for versatile installation.
- **IP66 Weather Protection:** Engineered with IP66 protection to withstand harsh weather conditions in outdoor and industrial environments.

GENERAL SPECIFICATION

Frequency Response	400Hz-6KHz
Sensitivity(1KHZ/1W)	106±3dB (1 m/1 W)
Rated Power	15W
Power taps	15 W/7.5 W/3.75 W/1.9 W
Line input	100V
Dimension(mm)	φ200*235

PHYSICAL SPECIFICATION

Material	ABS rear housing + aluminum front housing + iron bracket
Unit Weight	1.38Kg
Packing Dimension(cm)	67*45*54

UNIDIRECTIONAL SPEAKER NAC-2701



RECOMMENDED USES

Designed for shopping mall, metro corridor, museum and library.

KEY FEATURES

- **Long-Distance Sound Projection:** Optimized for long-distance sound projection while minimizing crosstalk and disturbance to nearby listeners.
- **Adjustable Mounting Bracket:** Equipped with a U-shaped bracket with adjustable angle up to 180 degrees.
- **Corridor & Tunnel Application:** Designed for effective installation and use in pedestrian corridors and various tunnel environments.

GENERAL SPECIFICATION

Frequency Response	70Hz - 16KHz
Sensitivity(1m/1W)	89±3dB
Rated Power	30W
Power Options	3.75W/7.5W/15W/30W
Input Voltage	70V/100V
Dimension	φ170mm x 212mm

PHYSICAL SPECIFICATION

Material	ABS
Woofers Speaker Size	5"
Grille powder Coated	Iron Mesh
Product Weight	1.9Kg

WOOFER SPEAKER SPECIFICATION

Voice Coil Size	Φ0.13*2 Layer
Impedance	6.8Ω
Voice Coil Frame	Kapton
Magnet Ferrite (305g)	Φ80*Φ32*15(Y30)
Basket	Iron
Diaphragm Material	Paper
Diaphragm	Fabric
Dust Cap	Mylar
Net Weight	830g

BI-DIRECTIONAL SPEAKER NAC-2702



RECOMMENDED USES

Designed for shopping mall, metro corridor, museum and library.

KEY FEATURES

- **Long-Distance Sound Projection:** Optimized for long-distance sound projection while minimizing crosstalk and disturbance to nearby listeners.
- **360° Adjustable Bracket:** Equipped with a U-shaped bracket with adjustable angle up to 360 degrees.
- **Corridor & Tunnel Application:** Designed for effective installation and use in pedestrian corridors and various tunnel environments.

GENERAL SPECIFICATION

Frequency Response	180Hz - 16KHz
Sensitivity(1m/1W)	86±3dB
Rated Power	10W
Power Options	2.5W/5W/10W
Input Voltage	100V
Dimension	Φ138mm x 200mm

PHYSICAL SPECIFICATION

Material	ABS
Woofer Speaker Size	5"
Grille powder Coated	AL Mesh
Product Weight	1.7Kg

WOOFER SPEAKER SPECIFICATION

Voice Coil Size	Φ0.12*2 Layer
Impedance	6.8Ω
Magnet Ferrite(305g)	Φ60*Φ32*15(Y30)
Basket	Iron
Diaphragm Material	Paper
Dust Cap	Mylar cup

PERIPHERAL DEVICE IP PA System

Comprehensive supporting equipment, paired with professional loudspeakers delivering rich, dynamic and exceptional sound.



8-CHANNEL MIXER PRE-AMPLIFIER NAC-5001

RECOMMENDED USES

Mainly used to amplify low-level output signals to line level input ,suitable for any PA scenario with multiple audio sources.



KEY FEATURES

- **1U Standard Rack Design:** Standard 1U chassis with aluminum alloy front panel, combining practical use with a clean design.
- **Multiple Audio Inputs:** Equipped with 5 MIC inputs, 3 AUX inputs, and 2 EMC line inputs.
- **Dual Line Outputs:** Provides 2 line outputs for connection to amplifiers or other audio devices.
- **Priority MIC Input:** MIC 1 has the highest priority level.
- **Adjustable Chime Function:** MIC 1 supports broadcast prompt tone, with adjustable chime volume.
- **Combo Mic Interfaces:** MIC 2/3/4/5 use XLR and TRS combo interfaces for flexible microphone connection.
- **Independent Channel Volume Control:** MIC and AUX input channels can be adjusted independently.
- **48V Phantom Power Support:** MIC 2/3/4/5 can switch on +48V DC phantom power when needed.
- **Treble & Bass Adjustment:** Supports independent treble and bass adjustment.
- **Signal & Overload Indicators:** Equipped with 5 audio signal indicators and 1 overload indicator for real-time input status display.

TECHNICAL PARAMETERS

Power Supply	AC 200V-240V, 50Hz
Power Consumption	≤20W
Frequency Response	20Hz~20kHz
S/N (Signal-to-Noise) Ratio	Mic Input: ≥50dB, Aux Input: ≥80dB
Tone Control (Bass)	±10dB at 100Hz
Tone Control (Treble)	±10dB at 10kHz
THD (Total Harmonic Distortion)	≤0.5% at 1kHz
Interface	1×TS Input Jack (Unbalanced)、4×TS&XLR Input Jack(Unbalanced)、3×Dual RCA AUX Input Jack、 2×Dual RCA Emergency Input Jack、2×Dul RCA AUX Output Jack
Dimensions	484×394×44mm
Weight	5.8kg
Standard Accessories	1×Quick Installation Guide、 1×Quality Certificate、 1×Warranty Card、 1×Audio Cable
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

IP FIRE ALARM INTERFACE UNIT NAC-5003

RECOMMENDED USES

Mainly used to integrate with 3rd-party fire alarm system , receiving fire alarm signal and trigger fire alarm broadcast , suitable for any PA scenario.



KEY FEATURES

- **High-Speed ARM + DSP Chip:** Adopts an industrial-grade dual-core ARM + DSP chip with startup time ≤ 3 seconds.
- **32 Relay Inputs:** Equipped with 32 relay input interfaces supporting short-circuit signal input and DC 24V input for fire alarm linkage.
- **8 Relay Outputs:** Equipped with 8 relay output (NO contact) interfaces for connection with alarm lights to indicate alarm status.
- **Expandable Alarm Integration:** Multiple IP fire alarm interface modules can be integrated into the same system to expand the number of alarm input interfaces.
- **Automatic Alarm Signal Reporting:** Automatically sends alarm signals to the server software and triggers corresponding preset emergency evacuation announcements.
- **RJ45 Network Access:** Equipped with a standard RJ45 interface for easy system access wherever Ethernet is available, supporting cross-segment and cross-router communication.

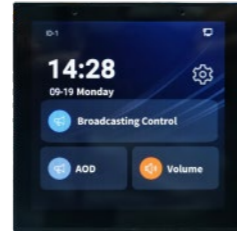
TECHNICAL PARAMETERS

Power Supply	AC100V-240V,50~60Hz
Power Consumption	≤15W
Network Protocol	TCP/IP、 UDP、 ARP、 ICMP、 IGMP
Network Chip Rate	10/100Mbps Self-adaptive
Interface	1×RJ45 Ethernet Port、 32×Relay Input、 8×Relay Output、 1×Power Input
Operating Temperature	-10°C~70°C
Operating Humidity	≤90% RH non-condensing
Dimensions	483 x259 x44 mm
Weight	2.7kg
Standard Accessories	1×Quick Installation Guide、 1×Quality Certificate、 1×Warranty Card
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

IP MINI WALL MOUNT REMOTE PA CONTROLLER XC-9520A

RECOMMENDED USES

This remote PA controller provides convenient remote PA on demand and volume adjustment functions, suitable for schools, hotels, conference room, and other scenarios.



KEY FEATURES

- **Compact 86 Box Design:** Compact structure with a refined appearance, designed for standard 86 type box installation.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **4" Capacitive Touchscreen:** Built-in 4-inch capacitive touch screen with 480 × 480 resolution.
- **Remote Broadcast Control:** Supports remote broadcast task control and task volume adjustment.
- **AOD MP3 Playback Support:** Supports free AOD MP3 files from the media center of SPON audio management software.
- **Online Device Volume Control:** Supports obtaining online devices from SPON audio management software and remotely adjusting their volume.
- **Manual Task Triggering:** Supports obtaining broadcast tasks from SPON audio management software and manually triggering them.
- **RJ45 Network Access:** Equipped with a standard RJ45 interface for easy system access wherever Ethernet is available, supporting cross-segment and cross-router communication.

TECHNICAL PARAMETERS

Power Supply	AC 100V-240V 50/60Hz
Network Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
Network Chip Rate	10/100Mbps Self-adaptive
Interface	1×RJ45 Ethernet Port、1×RS485 Port(Reserved)、2×AC Power Input Port
Dimensions	86x37.5x86mm
Weight	0.21kg
Standard Accessories	1×Quick Installation Guide、1×Quality Certificate、1×Warranty Card、1×2-Pin Terminal Block Connector
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

MULTI-ZONE IP AUDIO ADAPTER NAS-8504B

RECOMMENDED USES

Mainly used to convert your existing legacy analog amplifier to IP amplifier, suitable for PA scenarios that need multi-zone feature but utilize the same audio source.



KEY FEATURES

- **Rugged 1U Rack Design:** 1U rack-mount design with a brushed aluminum panel and all-metal housing for sturdy and durable use.
- **Easy Device Configuration:** Easy configuration via SPON self-developed IP audio device configuration tool.
- **Line Input Support:** Provides line input for connecting external music sources such as CD players or AM/FM tuners.
- **Analog Amplifier Output:** Line output can be connected to an external analog amplifier for decoded analog audio transmission.
- **Smart Power Output Control:** Built-in power output control supplies AC power to the external analog amplifier only when audio signal is received, helping reduce electricity waste.
- **8-Zone Audio Distribution:** Unique 8-zone 100V constant-voltage audio distribution allows separate sub-zone control for voice announcements and background music while using the same audio source.
- **SPON Software Integration:** Works with SPON audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Power Supply	AC165V-265V,50/60Hz
Network Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
Audio Codec	MP3、PCM/L16、ADPCM
S/N (Signal-to-Noise) Ratio	≥90dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
THD (Total Harmonic Distortion)	≤0.3% at 1kHz
Frequency Response	20Hz-16kHz
Interface	1×RJ45 Ethernet Port, 1×Line Input (RCA Jack), 1×Line Output (RCA Jack), 1×Data Port, 8 Alarm output, 1×8-Zone Speaker Output (100V), 1×100V Amplifier Input, 1×Controlled Power Output, 1×Power Input
Dimensions	483×259×44mm
Weight	3.2kg
Standard Accessories	4×4-Pin Terminal Block Connector, 1×5 ft. RCA 2-Male to 2-Male Audio Cable, 1×IEC C13 Power Cord (AU), 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

MULTI-CHANNEL IP AUDIO ADAPTER NBS-2401

RECOMMENDED USES

This 4-in-1 IP audio adapter has 4 separate I/O channels with 4 separate RJ45 ethernet ports, it could be an ideal choice to integrate your existing legacy analog amplifier into IP PA system in large-scale shopping malls, hotels, transport terminals (i.e. airports, railway stations, bus stations) and other public places.



KEY FEATURES

- **Rugged 1U Rack Design:** 1U rack-mount design with a brushed aluminum panel and all-metal housing for sturdy and durable use.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **4 Independent Line Inputs:** Provides 4 separate line inputs for connecting external music sources such as CD players or AM/FM tuners.
- **4 Independent Network Encoders:** Built-in 4 independent network encoders encode 4 separate analog audio channels for transmission over the IP PA system.
- **4 Independent Line Outputs:** Provides 4 separate line outputs for connection to external analog amplifiers for decoded audio transmission.
- **4 Independent Network Decoders:** Built-in 4 independent network decoders can decode 4 separate network audio channels simultaneously and output them through 4 line outputs.
- **SPON Software Integration:** Works with SPON audio management software for live and scheduled announcements, real-time and timed background music, emergency alerts, and zone paging.

TECHNICAL PARAMETERS

Power Supply	AC 180V-240V 50/60Hz
Power Consumption	≤20W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
S/N (Signal-to-Noise) Ratio	≥90dB
Audio Sampling & Bit Rate	22.05kHz-44.1kHz, 16bit, 8kbps-320kbps
THD (Total Harmonic Distortion)	≤0.3% at 1kHz
Frequency Response	20Hz-16kHz
Interface	4×RJ45 Ethernet Port, 4×Line Input, 4×Line Output, 4×Relay Input, 4×Relay Output, 1×Power Input
Dimensions	483×183×44mm
Weight	4.2kg
Standard Accessories	4×4-Pin Terminal Block Connector, 4×5-Pin Terminal Block Connector, 4×5 ft. RCA 2-Male to 2-Bare Wire Audio Cable, 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

DESKTOP PAGING MICROPHONE WITH CHIME NAC-522A

RECOMMENDED USES

Mainly installed at broadcast studio or reception area for making general voice announcements in a PA system.



KEY FEATURES

- **Flexible Gooseneck Microphone:** Modern desktop unidirectional condenser microphone with a flexible stem.
- **Durable Aluminum Housing:** High-grade aluminum alloy shell for sturdy and durable use.
- **Stable Metal Base:** Rubber feet on the metal base ensure stable placement on flat surfaces.
- **One-Touch Paging Button:** Large center button acts as a toggle for voice announcements.
- **Silent Touch Operation:** Touch button design operates without keypress noise and is easy to clean or disinfect.
- **Bi-Color Status Indicator:** Red and green backlight on the touch button indicate the operating status of the device.
- **Built-in Chime Function:** Voice announcements are preceded by a chime when the paging mic is activated.
- **Chime ON/OFF Control:** Rear panel ON/OFF switch allows enabling or disabling the chime.

TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A	Frequency Response	100Hz-16KHz
Standby Power Consumption	≤3W	Interface	1×Line Output (1/8" TS Jack), 1×Line Output (1/4" TS Jack), 1×Power Input
Mic Type	Condenser	Dimensions	144×144×34.1mm
Shell Material	Aluminum Alloy	Weight	0.55kg
Pickup Pattern	Unidirectional	Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)
S/N (Signal-to-Noise) Ratio	≥80dB		

VOLUME CONTROLLER NAC-21\22\23\24

KEY FEATURES

- **4-Level Volume Adjustment:** Volume can be adjusted in 4 levels to meet different needs, while maintaining a clean and coordinated appearance after installation.



TECHNICAL PARAMETERS

MODEL NO.	NAC-21	NAC-22	NAC-23	NAC-24
Rated Power	6W	30W	60W	120W
Input Voltage	100V	100V	100V	100V
Product Dimensions	87x87x44mm	87x87x60mm	87x87x70mm	87x87x70mm
N.W.	60g	160g	320g	330g

Intercom System

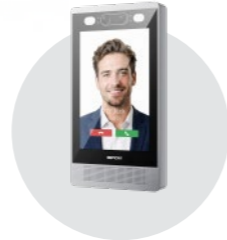
Two-Way Communication & Emergency Alert



Window Type



Special Type



Access Control Type

IP Intercom System

System Overview

The SPON IP Intercom System is built on advanced XCoIP™ technology, delivering fully digital, hands-free intercom communication over standard LAN and WAN networks. It eliminates the limitations of traditional intercom systems, such as short transmission distance and interference issues. The system is easy to deploy, requiring only intercom terminals connected to an existing IP network—no dedicated cabling needed. This allows seamless integration of intercom, public address, and video surveillance on a unified platform.

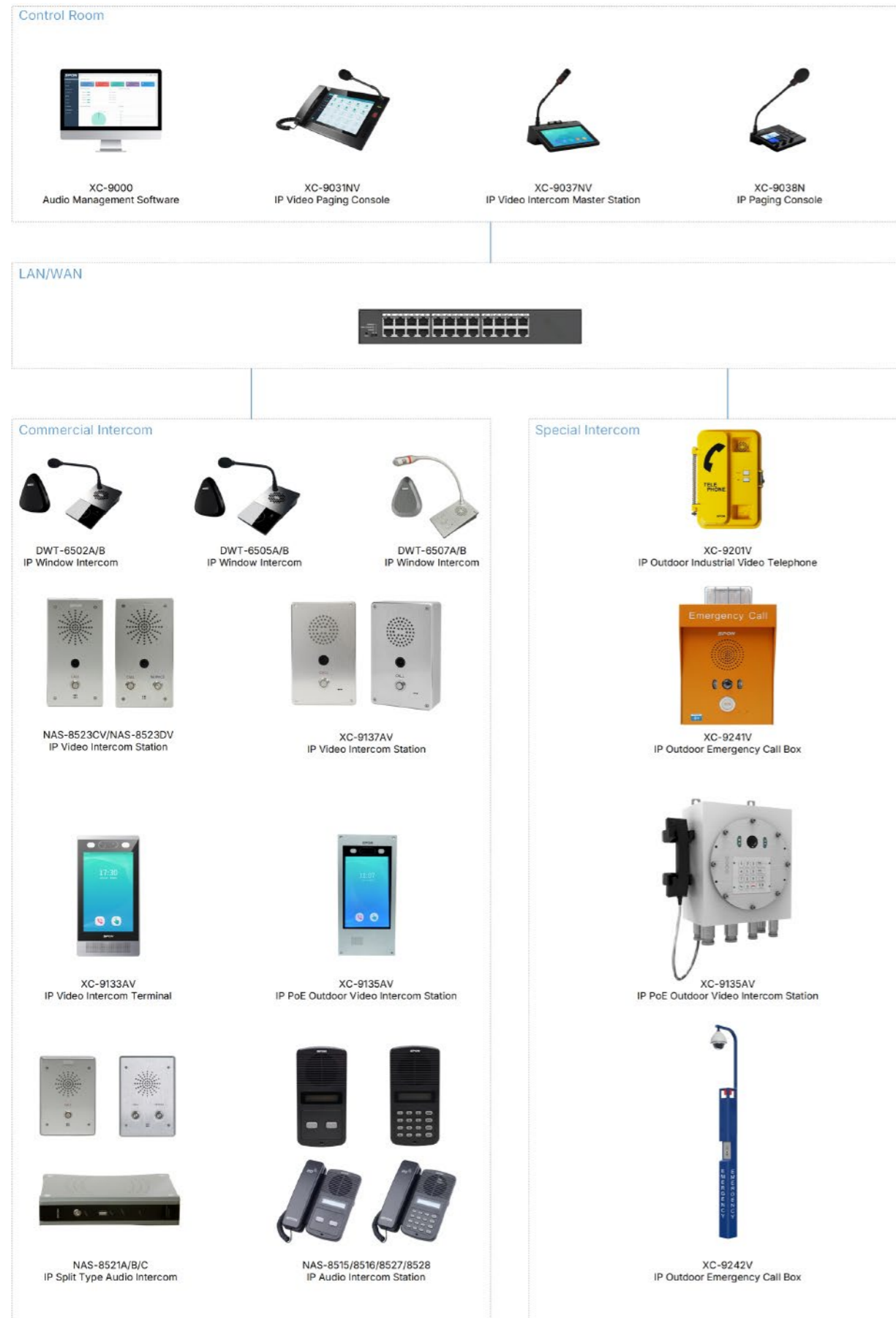
Supporting point-to-point, group, and broadcast communication, the system enables clear, full-duplex voice interaction. It is fully compatible with SIP standards, allowing easy integration with VoIP and IP telephony systems. The system is widely used in factories, transportation, correctional facilities, and financial institutions. A complete range of terminals for indoor, outdoor, and harsh environments ensures reliable communication in all conditions.



Key Advantages

- 1. Clear and Stable Audio:** Resistant to electromagnetic interference, with ultra-low bandwidth usage (minimum 34 kbps). LAN intercom latency is ≤ 30 ms.
- 2. Unlimited Transmission Distance:** Intercom communication over LAN/WAN with no distance limitations, enabling large-scale and cross-area deployments.
- 3. Advanced Digital Audio Processing:** 7 kHz audio bandwidth with echo cancellation and noise suppression; supports full-duplex and multi-party communication.
- 4. Secure Communication:** Dedicated audio encoding and encryption prevent unauthorized listening.
- 5. PA & Alarm Integration:** Can operate as both an intercom system and a public address system, fully compatible with SPON IP network PA equipment.

System Diagram



System Functions

Function		Description
Calling	Hands-Free Two-Way Call	Calls are connected in hands-free mode with full-duplex audio and built-in echo cancellation.
	PTT Call	Press-to-talk communication similar to a walkie-talkie; release to listen. Ideal for high-noise environments.
	Audio & Video Intercom	Supports one-way or two-way audio/video intercom with synchronized transmission.
Multi-Party Communication	Audio Conference Mode	Supports audio conferencing for up to 300 terminals, with full-duplex audio and echo cancellation. Conference calls have priority and can interrupt normal calls.
	Video Conference Mode	Supports video conferencing for up to 100 terminals, with full-duplex audio and echo cancellation. Priority control is supported during conferences.
Calling Methods	One-Touch Call	Quickly call a predefined target terminal. Each terminal can be individually configured.
	Keypad Dialing	Dial a terminal number using a numeric keypad to reach any target terminal.
	Group Call	One call can automatically reach multiple terminals in the same group. When one terminal answers, the call to others is canceled.
	Call Tones	Customizable tones for Call Connected, Remote Busy, and Call End.
	Caller ID Display	IP consoles and paging microphones display incoming calls, missed calls, and answered calls.
	Voice Caller Announcement	IP consoles or paging microphones automatically announce the caller's terminal name via the built-in speaker.
Call Handling	Auto Answer	The called terminal can automatically answer after ringing once.
	Manual Answer	The called terminal rings continuously until the call is manually answered.
	Proxy Answer	If a terminal in the same group is called, another terminal in the group can answer the call on its behalf.
Call Forwarding	Busy Forwarding	If the called terminal is busy, the call is automatically forwarded to a designated terminal.
	Offline Forwarding	Calls are automatically forwarded when the target terminal is powered off or disconnected.
	No-Answer Forwarding	If a call is not answered within a preset time, it is automatically forwarded.
	Time-Based Forwarding	Calls can be automatically forwarded to a specified terminal during preset time periods.
	Manual Call Transfer	During an active call, the call can be manually transferred to another terminal and the current call ended.
Call Priority	Priority Override	Higher-priority users can interrupt and override lower-priority calls.
	Call Waiting	Calls are queued when the target is busy and connect automatically once available.
Zoned Broadcasting	Paging Broadcast	Broadcast live or pre-recorded announcements to one or multiple zones.
	BGM	Plays MP3 or WAV music via terminals, supporting live, scheduled, and triggered playback.
	Text-to-Speech (TTS) Broadcast	Converts text into voice announcements for live, scheduled, or event-based broadcasting.

System Functions

Function		Description
Monitoring	Monitoring	Operators can remotely listen to ambient sounds around authorized terminals from the control room.
	Call Monitoring	Allows monitoring of authorized terminal conversations from the control room.
Digital Recording		Automatically records two-way and multi-party calls on the server.
Alarm Functions	Alarm Trigger Input	Supports alarm triggering via emergency buttons or external sensors.
	Sound Detection	Automatically triggers alarms when abnormal sound levels are detected.
	Tamper Alarm	Triggers an alarm when the terminal panel is forcibly removed.
	Alarm Handling	Displays related video and event details, supporting alarm confirmation, paging, intercom, SMS, and record logging.
External Alarm Output		Alarm outputs can control external devices like warning lights or electronic locks.
Interface Expansion	Wireless Intercom	Interworks with wireless intercom systems, allowing PTT or full-duplex communication between wired and wireless users.
	Telephone	Supports intercom with PBX systems, fixed-line phones, and VoIP phones based on SIP.
	PA & Fire Alarm	Fully compatible with IP PA systems for live, scheduled, and alarm-triggered broadcasting.
	Video Conference	Supports multi-party video conferencing via MCU, IP control panels, and video intercom terminals.
	CCTV Integration	Provides SDK support for CCTV linkage, including call-triggered camera switching.
System Scalability	Distributed Server (Ultra-Large Scale)	Uses multiple servers to manage terminals and distribute traffic load, reducing network risks. Supports cross-server zone paging and intercom. System capacity up to 9 million terminals. (Requires Internet server cluster deployment.)
	Distributed Server (Large Scale)	Multi-server architecture designed for city-level deployments. Supports up to 64,000 terminals (64-server cluster, 1,000 terminals per server).
	Single Server (Medium Scale)	A single server manages all terminals and supports server hot standby. System capacity up to 1,000 terminals.
	Server-Free Mode (Small Scale)	Supports local intercom without relying on a server. Ideal for emergency use when the server or network is unavailable. System capacity up to 100 terminals.

Product Family

Server	 XC-9000	 XC-9013				
Handset-Type	 NAS-8515	 NAS-8516	 NAS-8527	 NAS-8528		
Window-Type	 DWT-6502A/B	 DWT-6505A/B	 DWT-6507A/B	 DWT-6509A/B		
Access control-Type	 NAS-8523C/D	 NAS-8523CV/DV	 XC-9137AV	 XC-9137A	 XC-9133	 XC-9135
Special-Type	 XC-9201V	 XC-9241V	 XC-9242V	 NEP-6022V		

INTERCOM SYSTEM »

- IP Intercom
- Window Intercom

IP INTERCOM Intercom System

IP network intercom terminals designed for various application environments.



IP POE VIDEO INTERCOM STATION XC-9133AV

RECOMMENDED USES

XC-9133AV with 7 inch touch screen and High Definition camera for two-way full duplex video communication which can be used for any indoor environment such as office, factory, bank etc.



KEY FEATURES

- **7" HD Touchscreen:** 7" digital HD touch screen with 1280 × 800 resolution.
- **Full-Duplex Video Intercom:** Supports two-way full duplex video communication with the IP video intercom master station in the control room.
- **Built-in Mic & Speaker:** Hands-free wall-mounted station with built-in microphone and speaker.
- **Built-in HD Camera:** Built-in HD digital camera with H.264 encoding format.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way video communication and live voice announcements.
- **Multiple Calling Modes:** Supports one-touch calling, dial calling, and call list quick dialing.

TECHNICAL PARAMETERS

Power Supply	DC24V/1A
Power Consumption	DC24V/1A, Stand-by power consumption<5w,Maximum Power Consumptions13W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-1Mbps
Video Coding	VGA/720P/1080P
S/N (Signal-to-Noise) Ratio	≥84dB
THD (Total Harmonic Distortion)	<1%
Interface	1×RJ45 Ethernet Port, 2×Relay Input, 2×Relay Output, 1×Power Input
Dimensions	120×231×36mm
Weight	1.0kg
Standard Accessories	1×Waterproof Connector, 1×Mounting Plate, 2×wire Contact Cable, Connector, 1×Warranty Card, 1×Installation Manual
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)

IP POE OUTDOOR VIDEO INTERCOM STATION XC-9135AVE/XC-9135AVS

RECOMMENDED USES

This IP PoE outdoor Intercom station built-in with 1080P camera for a high quality video communication to any video master station. It supports with IP65 which can be used in any outdoor environment such as building entry or access point communication with visitors and guests.



KEY FEATURES

- **7" HD Touchscreen:** 7" digital HD touch screen with 1280 × 800 resolution.
- **IP65 Weather Protection:** Outdoor weatherproof design with protection rating up to IP65.
- **Full-Duplex Video Intercom:** Supports two-way full duplex video communication with the IP video intercom master station in the control room.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way video communication and live voice announcements.
- **Multiple Calling Modes:** Supports one-touch calling, dial calling, and call list quick dialing.
- **Flush Mount Version (XC-9135AVE):** Hands-free flush-mount station with built-in microphone and speaker.
- **Wall Mount Version (XC-9135AVS):** Hands-free wall-mount station with built-in microphone and speaker.

TECHNICAL PARAMETERS

XC-9135AVE/XC-9135AVS	
Power Supply	DC24V/1A
Power Consumption	DC24V/A, Stand-by power consumption<5W. Maximum Power Consumptions13W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-4Mbps
THD (Total Harmonic Distortion)	<1%
S/N (Signal-to-Noise) Ratio	84dB
Interface	1×RJ45 Ethernet Port, 2×Relay Input, 2×Relay Output, 1×Power Input
IP Rating	IP65
Dimensions	140x40.5x283mm(L*W*H)
Weight	1.3kg

IP OUTDOOR INDUSTRIAL TELEPHONE XC-9201 & XC-9201V

RECOMMENDED USES

This model has a robust anti-riot property and an aluminium alloy cast casing. Equipped with powerful features are designed specifically for the rough conditions in industrial environments, such as high noise, heavy dust, strong acid, and extreme low or high temperature.



KEY FEATURES

- **Rugged Aluminum Alloy Housing:** Aluminum alloy shell with baking varnish surface treatment for dust-proof, noise-proof, anti-riot, and anti-corrosion protection.
- **IP66 Weather Protection:** Outdoor weatherproof design with protection rating up to IP66.
- **Built-in Wide-Angle HD Camera:** Built-in wide-angle HD camera supports video output in multiple resolutions.
- **ONVIF Video Output:** Supports the standard ONVIF protocol and video output to external platforms for display.
- **Full-Duplex Voice Communication:** Supports two-way full duplex voice communication with the IP video intercom master station in the control room.
- **One-Touch Calling:** Single-button design for one-touch calling to the designated target intercom device.
- **Numeric Keypad Dialing:** Numeric keypad design allows calling any target intercom device by dialing the device ID.
- **Built-in Mic & Speaker:** Hands-free wall-mounted telephone with built-in microphone and speaker.
- **Handset for Noisy Environments:** Handset supports two-way voice communication in noisy environments.
- **Built-in 2 x 30W Amplifier:** Built-in 2 x 30W Class-D digital amplifier can drive up to two 8-ohm passive analog speakers.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

Model No.	XC-9201	XC-9201V
Power Supply	IEEE 802.3 af/at, POE supports	
Power Consumption	≤65W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Video transmission Bit Rate	/	16Kbps-2Mbps
Video Coding	/	VGA/720P/1080P
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	≥93dB	
Frequency Response	25Hz-15kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Output, 2×Speaker Output (8Ω), 1×Power Input	
IP Rating	IP66	
Dimensions	346×241×125mm	
Weight	7.4kg	
Standard Accessories	1×Waterproof Connector, 1×Mounting Plate, 1×Installation Manual	
Optional Accessories	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)	

IP OUTDOOR EMERGENCY CALL BOX XC-9241V

RECOMMENDED USES

XC-9241V with a robust anti-riot property and an aluminium alloy cast casing which dedicated design for alarm assistance in the safe city, safe campus and smart scenic spot etc.



KEY FEATURES

- **IP66 Weather Protection:** Outdoor weatherproof design with protection rating up to IP66.
- **Rugged Aluminum Alloy Housing:** Aluminum alloy shell with baking varnish surface treatment for dust-proof, anti-riot, and anti-corrosion protection.
- **Built-in 1080P HD Camera:** Built-in wide-angle 1080P HD camera supports video output in multiple resolutions.
- **ONVIF Video Output:** Supports the standard ONVIF protocol and video output to external platforms for display.
- **Full-Duplex Voice Communication:** Supports two-way full duplex voice communication with the IP video intercom master station in the control room.
- **One-Touch Calling:** Single-button design for one-touch calling to the designated target intercom device.
- **Built-in Mic & Speaker:** Hands-free wall-mounted unit with built-in microphone and speaker.
- **Handset for Noisy Environments:** Handset supports two-way voice communication in noisy environments.
- **Built-in 40W Class-D Amplifier:** Built-in 40W Class-D digital amplifier can drive up to two 8-ohm passive analog speakers.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.
- **Tamper Alarm Function:** Tamper alarm can trigger a warning siren if the panel is forcibly damaged.

TECHNICAL PARAMETERS

Power Supply	DC 24V/2.7A
Power Consumption	≤80W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-4Mbps
Video Coding	H.264
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 2×Relay input, 1×Relay Output, 2×Line in put, 2×Line Output, 2×Speaker Output (8Ω), 1×Power Input
IP Rating	IPX6
Dimensions	261×120×417mm
Weight	9.5kg
Standard Accessories	1×Waterproof Connector, 1×Power Supply 24V/2.7A 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

IP OUTDOOR EMERGENCY CALL BOX XC-9242V

RECOMMENDED USES

This model with all-metal shell, high-grade brushed aluminum panel with flush mounted in outdoor environment for emergency call in the safe city, safe campus and smart scenic spot etc.



KEY FEATURES

- **All-Metal Aluminum Housing:** All-metal shell with a high-grade brushed aluminum panel for sturdy and durable use.
- **IP65 Weather Protection:** Outdoor weatherproof design with protection rating up to IP65.
- **Full-Duplex Voice Communication:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
- **One-Touch Calling:** Single-button design for one-touch calling to the designated target intercom device.
- **Flush-Mount Design:** Hands-free flush-mount station with built-in microphone and speaker.
- **Built-in 40W Class-D Amplifier:** Built-in 40W Class-D digital amplifier can drive up to two 8-ohm passive analog speakers.
- **Built-in 1080P HD Camera:** Built-in wide-angle 1080P HD camera supports video output in multiple resolutions.
- **ONVIF Video Output:** Supports the standard ONVIF protocol and video output to external platforms for display.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.
- **Tamper Alarm Function:** Tamper alarm can trigger a warning siren if the panel is forcibly damaged.

TECHNICAL PARAMETERS

Power Supply	DC 24V/2.7A
Power Consumption	≤60W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-4Mbps
Video Coding	VGA/720/1080P
S/N (Signal-to-Noise) Ratio	Speaker output>90dB Amplifier output>84dB Recording output>80dB
Frequency Response	100Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 2×Relay input, 1×Relay Output, 2×Line in put, 1×Line Output, 2×Speaker Output (8 Ω/20W), 1×Power Input
IP Rating	IPX6
Dimensions	360×252×74mm
Weight	9.5kg
Standard Accessories	1×Waterproof Connector, 4×3-Pin Terminal Block Connector, 2×4-Pin Terminal Block Connector, 1×Installation Manual, DC 24V/2.7A Power Adapter
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU) Emergency Pole NAC-17D

EMERGENCY POLE NAC-17D

RECOMMENDED USES

This emergency pole work with emergency call box can be used for all outdoor environment to ensure safety. Specially for safe city, safe campus and smart scenic spot etc.

KEY FEATURES

- **High-Visibility Pole Design:** Pole design makes the emergency unit easy to fy in outdoor areas.
- **IP65 Weatherproof Structure:** All-metal housing with outdoor weathe design and protection rating up to IP65.
- **Flashing Alarm Light:** Equipped with an alarm light that flashes during int operation.
- **Optional Speaker Version:** Optional emergency pole version with built-in s
- **Optional Surveillance Pole Heights:** Optional surveillance pole versio available in two heights.
- **Flush & Wall Mount Options:** Supports two installation methods: flush mou wall mount.

TECHNICAL PARAMETERS

Two surveillance poles	1.5m & 2.5m
Two Installation	Flush mount & Wall mount
Dimensions	2406×260×260mm
Weight	50kg
Standard Accessories	1×Installation Manual
Optional Accessories(Wall mount)	1×Mounting Plate



IP POE AUDIO INTERCOM STATION NAS-8523C/NAS-8523D

RECOMMENDED USES

This IP PoE audio intercom station is a compliant with standard SIP server. It is also an IP door phone for hands-free visitor communication at a secure entrance door or gate, access point, and room intercom applications.



NAS-8523C

NAS-8523D

KEY FEATURES

- **All-Metal Aluminum Housing:** All-metal shell with a high-grade brushed aluminum panel for sturdy and durable use.
- **Compact & Lightweight Design:** Compact and lightweight design for easy installation and reliable operation.
- **Full-Duplex Intercom:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
- **Built-in Mic & Speaker:** Hands-free wall-mounted station with built-in microphone and speaker.
- **One-Touch Calling (NAS-8523C):** Single-button design for one-touch calling to the designated target intercom device.
- **Dual-Button Calling (NAS-8523D):** Dual-button design for one-touch calling to the designated target intercom device.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **Tamper Alarm Function:** Tamper alarm can trigger a warning siren if the panel is forcibly damaged.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

NAS-8523C/NAS-8523D	
Power Supply	DC24V/1A or DC12V/2A
Power Consumption	≤3W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
S/N (Signal-to-Noise) Ratio	Broadcast-Speaker:81dB Broadcast--Line out:88dB Line input--Record Output:82dB
Frequency Response	50Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Line Input, 1×Line Output, 1×Controlled Power Output, 1×Power Input
Dimensions	101mm (Length)*51mm(Width)*191mm (Height)
Weight	1.0kg

IP POE VIDEO INTERCOM STATION NAS-8523CV/NAS-8523DV

RECOMMENDED USES

This IP PoE intercom built-in with 1080P camera for a high quality video communication to with any video master station. This IP intercom delivers reliable video communication for building entry or access point communication with visitors and guests.



NAS-8523CV

NAS-8523DV

KEY FEATURES

- **All-Metal Aluminum Housing:** All-metal shell with a high-grade brushed aluminum panel for sturdy and durable use.
- **Compact & Lightweight Design:** Compact and lightweight design for easy installation and reliable operation.
- **Built-in 1080P HD Camera:** Built-in 1080P HD camera with ONVIF compatibility, supporting NVR connection for recording.
- **Full-Duplex Video Intercom:** Supports two-way full duplex voice communication with the IP video intercom master station in the control room.
- **Built-in Mic & Speaker:** Hands-free wall-mounted station with built-in microphone and speaker.
- **One-Touch Calling (NAS-8523CV):** Single-button design for one-touch calling to the designated target intercom device.
- **Dual-Button Calling (NAS-8523DV):** Dual-button design for one-touch calling to the designated target intercom device.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **Tamper Alarm Function:** Tamper alarm can trigger a warning siren if the panel is forcibly damaged.
- **IP54 Weather Protection:** Outdoor weatherproof design with protection rating up to IP54.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

NAS-8523CV/NAS-8523DV	
Power Supply	DC24V/1A or DC12V/2A
Power Consumption	Supporting PoE IEEE802.3at, ≤30w
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Video transmission Bit Rate	512Kbps-4Mbps
Video Coding	VGA/720P/1080P
S/N (Signal-to-Noise) Ratio	PA-Speaker: 81dB; PA-Line Output: 88dB; Line input-Recording Output: 82dB;
Frequency Response	50Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Line Input, 1×Line Output, 1×Controlled Power Output, 1×Power Input
Dimensions & Weight	101mm(L)*51mm(w)*191mm(H)

IP POE OUTDOOR AUDIO INTERCOM STATION XC-9137AE/XC-9137AS

RECOMMENDED USES

This IP PoE outdoor audio intercom station is with IP65 waterproof level. It can be embedded to the intelligent road light pole to realize the outdoor emergency call with the police.



KEY FEATURES

- **All-Metal Aluminum Housing:** All-metal shell with a high-grade brushed aluminum panel for sturdy and durable use.
- **Compact & Lightweight Design:** Compact and lightweight design for easy installation and reliable operation.
- **IP65 Weather Protection:** Outdoor weatherproof design with protection rating up to IP65.
- **Full-Duplex Audio Intercom:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
- **One-Touch Calling:** Single-button design for one-touch calling to the designated target intercom device.
- **Flush Mount Version (XC-9137AE):** Hands-free flush-mount station with built-in microphone and speaker.
- **Wall Mount Version (XC-9137AS):** Hands-free wall-mount station with built-in microphone and speaker.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

Model No.	XC-9137AE	XC-9137AS
Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)	
Power Consumption	≤18W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	Broadcast--Speaker:8ldB Broadcast--Record Output:70dB	
Frequency Response	20Hz-18kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Record Output, 1×Power Input	
IP Rating	IP65	
Dimensions	162×100×36mm	162×100×41mm
Weight	0.8kg	1.0kg

IP POE OUTDOOR VIDEO INTERCOM STATION XC-9137AVE/XC-9137AVS

RECOMMENDED USES

This model supports H.264 encoding format for High Definition video communication. Supports with Surface mount and flush-mount which are mainly used for smart light pole, Charging pile and other outdoor environments.



KEY FEATURES

- **All-Metal Aluminum Housing:** All-metal shell with a high-grade brushed aluminum panel for sturdy and durable use.
- **Compact & Lightweight Design:** Compact and lightweight design for easy installation and reliable operation.
- **Built-in 1080P HD Camera:** Built-in 1080P HD camera with ONVIF compatibility, supporting NVR connection for recording.
- **IP65 Weather Protection:** Outdoor weatherproof design with protection rating up to IP65.
- **Full-Duplex Video Intercom:** Supports two-way full duplex voice communication with the IP video intercom master station in the control room.
- **One-Touch Calling:** Single-button design for one-touch calling to the designated target intercom device.
- **Flush Mount Version (XC-9137AVE):** Hands-free flush-mount station with built-in microphone and speaker.
- **Wall Mount Version (XC-9137AVS):** Hands-free wall-mount station with built-in microphone and speaker.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **PoE Power Supply:** Supports Power over Ethernet for easier installation.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems.
- **VoIP System Integration:** Works with VoIP telephone systems for two-way voice communication.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

Model No.	XC-9137AVE	XC-9137AVS
Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)	
Power Consumption	≤18W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Video transmission Bit Rate	512Kbps-4Mbps	
Video Coding	VGA/720/1080P	
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	≥81dB	
Frequency Response	200Hz-18kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Record Output, 1×Power Input	
IP Rating	IP65	
Dimensions	162×100×36mm	62×100×41mm
Weight	1.0kg	
Standard Accessories	1×Waterproof Connector, 1×3-Pin Terminal Block Connector, 1×4-Pin Terminal Block Connector, 1×Customer Operational Guideline, 1×Installation Manual	
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)	

IP AUDIO INTERCOM STATION NAS-8515/NAS-8516

RECOMMENDED USES

This IP audio intercom station is a hands-free communication intercom, which is suitable for all kinds of indoor environment.



NAS-8515

NAS-8516

KEY FEATURES

- **Compact Lightweight Housing:** BS composite plastic shell with a compact and lightweight design.
 - **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
 - **Full-Duplex Audio Intercom:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
 - **Built-in Mic & Speaker:** Hands-free wall-mounted station with built-in microphone and speaker.
 - **TFT LCD Status Display:** TFT LCD screen shows the working status of the device.
 - **Dual-Button Calling (NAS-8515):** Dual-button design for one-touch calling to the designated target intercom device.
 - **Numeric Keypad Dialing (NAS-8516):** Numeric keypad design allows calling any target intercom device by dialing the device ID.
 - **External Headset Connection:** Mic input and line output on the side panel can be connected to an external headset.
 - **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
 - **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

NAS-8515/NAS-8516	
Power Supply	DC12V/1.5A
Power Consumption	≤5W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Transmission Bit Rate	16kbps-352kbps
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	25Hz-10kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input
Dimensions	195.9×95.7×50.6mm
Weight	0.3kg
Standard Accessories	1×5-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)

IP AUDIO INTERCOM STATION NAS-8525/NAS-8526

RECOMMENDED USES

This IP audio intercom station is compliant with standard SIP server. It supports full-duplex communication and PTT communication.



NAS-8525

NAS-8526

KEY FEATURES

- **Compact Lightweight Housing:** ABS composite plastic shell with a compact and lightweight design.
 - **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
 - **Full-Duplex Audio Intercom:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
 - **Built-in Mic & Speaker:** Hands-free desktop station with gooseneck microphone and built-in speaker.
 - **TFT LCD Status Display:** TFT LCD screen shows the working status of the device.
 - **Dual-Button Calling (NAS-8525):** Dual-button design for one-touch calling to the designated target intercom device.
 - **Numeric Keypad Dialing (NAS-8526):** Numeric keypad design allows calling any target intercom device by dialing the target device ID.
 - **External Headset Connection:** Mic input and line output on the side of the device can be connected to an external headset.
 - **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
 - **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

NAS-8525/NAS-8526	
Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Transmission Bit Rate	16kbps-352kbps
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	25Hz-10kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input
Dimensions	195.9×95.7×50.6mm
Weight	0.4kg
Standard Accessories	1×Gooseneck Microphone Rod, 1×5-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)

IP AUDIO INTERCOM STATION NAS-8527/NAS-8528

RECOMMENDED USES

This IP audio intercom station is with headset and LCD screen, which provides hands-free or handset communication.



KEY FEATURES

- **Compact Lightweight Housing:** ABS composite plastic shell with a compact and lightweight design.
- **Web-Based Configuration:** Easy configuration through a user-friendly web interface.
- **Full-Duplex Audio Intercom:** Supports two-way full duplex voice communication with the IP audio intercom master station in the control room.
- **Built-in Mic & Speaker:** Hands-free desktop station with built-in microphone and speaker.
- **Handset for Noisy Environments:** Handset supports two-way voice communication in noisy environments.
- **TFT LCD Status Display:** TFT LCD screen shows the working status of the device.
- **Dual-Button Calling (NAS-8527):** Dual-button design for one-touch calling to the designated target intercom device.
- **Numeric Keypad Dialing (NAS-8528):** Numeric keypad design allows calling any target intercom device by dialing the target device ID.
- **External Headset Connection:** Mic input and line output on the side of the device can be connected to an external headset.
- **Offline Intercom Support:** Supports offline two-way voice communication with specific target intercom devices when the network is interrupted.
- **3rd-Party SIP Compatibility:** Fully compliant with 3rd-party SIP endpoints and compatible with mainstream on-premise and cloud-hosted VoIP telephone systems for live voice announcements.
- **XC-9000 Software Integration:** Works with SPON XC-9000 audio management software for additional features such as two-way voice communication and live voice announcements.

TECHNICAL PARAMETERS

NAS-8527/NAS-8528	
Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Transmission Bit Rate	16kbps-352kbps
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	25Hz-10kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input
Dimensions	198×159×120mm
Weight	0.6kg
Standard Accessories	1×Base, 1×5-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)

WINDOW INTERCOM Intercom System

IP window intercom system delivering clear, noise-free communication across every service counter.



IP WINDOW INTERCOM KIT DWT-6502AB

RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.



KEY FEATURES

- **HD Full-Duplex Intercom:** Adopts industry-leading DSP multi-channel audio technology to effectively prevent howling and channel interference, delivering HD digital full-duplex intercom.
 - **Durable Touch Panel Design:** Features an anti-tilt design with aluminum alloy housing, glass panel, and full-touch buttons for silent operation, easy cleaning, and convenient disinfection.
 - **Real-Time Status Indicators:** Each touch button is equipped with an individual status indicator to show the real-time operating status of the staff unit.
 - **Directional Gooseneck Microphone:** Equipped with a directional condenser gooseneck microphone with cardioid polar pattern for high-fidelity sound pickup and improved voice clarity.
 - **Intelligent Noise Suppression:** Intelligently recognizes the sound source and suppresses ambient noise for high-quality voice restoration.
 - **15-Level Volume Adjustment:** Supports engineer mode settings for precise volume adjustment of both staff and customer units, with 15 volume levels available.
 - **Multiple Recording Functions:** Supports four different recording functions when used together with software.
 - **Loop Amplifier Connection:** Capable of connecting to a loop amplifier through the recording port.
 - **Three Scene Modes:** Offers three selectable scene modes—noise, standard, and quiet—with rotary switch adjustment.
- Custom Voice Messages:** Supports customized pre-recorded welcome and goodbye voice messages, such as “Hello, welcome to...” and “Thank you for coming, goodbye.”

TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Audio Codec	PCM/AAC
Audio Sampling Rate	8KHZ-32KHZ
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input, 1×Recording Port, 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector, 3×Cable Clamp, 1×Installation Manual,1×Certification,1×EV-cotton,3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

DIGITAL WINDOW INTERCOM KIT DWT-6505AB

RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.



KEY FEATURES

- **HD Full-Duplex Intercom:** Adopts industry-leading DSP multi-channel audio technology to effectively prevent howling and channel interference, delivering HD digital full-duplex intercom.
 - **Durable Touch Panel Design:** Features an anti-tilt design with aluminum alloy housing, glass panel, and full-touch buttons for silent operation, easy cleaning, and convenient disinfection.
 - **Real-Time Status Indicators:** Each touch button is equipped with an individual status indicator to show the real-time operating status of the staff unit.
 - **Professional Metal Cavity Structure:** Professional metal cavity design eliminates device resonance and ensures pure, natural sound quality.
 - **Intelligent Noise Suppression:** Intelligently recognizes the sound source and suppresses ambient noise for high-quality voice restoration.
 - **5-Level Volume Adjustment:** Supports engineer mode settings for precise volume adjustment of both staff and customer units, with 5 volume levels available.
 - **Loop Amplifier Connection:** Capable of connecting to a loop amplifier through the recording port.
- Three Scene Modes:** Offers three selectable scene modes—noise, standard, and quiet—with rotary switch adjustment.

TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Audio Sampling Rate	16KHZ-32KHZ
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input, 1×Recording Port, 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector,3×cable clamp, 1×Installation Manual,1×certification,1×EV-cotton,3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

DIGITAL WINDOW INTERCOM KIT DWT-6507AB



RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.

KEY FEATURES

- **HD Full-Duplex Intercom:** Adopts industry-leading DSP multi-channel audio technology to effectively prevent howling and channel interference, delivering HD digital full-duplex intercom.
- **Durable Touch Panel Design:** Features an anti-tilt design with aluminum alloy housing, glass panel, and full-touch buttons for silent operation, easy cleaning, and convenient disinfection.
- **Directional Gooseneck Microphone:** Equipped with a directional condenser gooseneck microphone with cardioid polar pattern for high-fidelity sound pickup and improved voice clarity.
- **Intelligent Noise Suppression:** Intelligently recognizes the sound source and suppresses ambient noise for high-quality voice restoration.
- **15-Level Volume Adjustment:** Supports engineer mode settings for precise volume adjustment of both staff and customer units, with 15 volume levels available.
- **Loop Amplifier Connection:** Capable of connecting to a loop amplifier through the recording port.
- **Three Scene Modes:** Offers three selectable scene modes—noise, standard, and quiet—with rotary switch adjustment.
- **Three Physical Buttons:** Equipped with three physical buttons for convenient operation.
- **Connection Self-Check:** Intelligently self-checks the connection status between the staff unit and customer unit, with automatic warning tone activation when the connection fails.

TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Audio Sampling Rate	8kHz-32kHz
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input, 1×Recording Port, 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector,3×cable clamp, 1×Installation Manual,1×certification,1×EV-cotton,3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

NETWORK WINDOW INTERCOM KIT DWT-6509AB



RECOMMENDED USES

Ideal for bank counters, toll stations, ticket windows, and service counters intercom systems.

KEY FEATURES

- **HD Full-Duplex Communication:** Industry-leading single-DSP multi-channel voice technology eliminates howling and channel interference for true HD digital intercom.
 - **Durable Touch Controls:** Unlimited-lifespan touch buttons with LED indicators and audible prompts make operation easy and reliable.
 - **Directional Noise-Canceling Pickup:** 80 cm super-directional microphone captures clear speech, suppresses ambient noise, and dynamically adjusts volume.
 - **Customizable Voice Prompts:** Supports personalized welcome and goodbye prompts for manual broadcast.
 - **Remote Intercom & Monitoring:** Supports two-way hands-free calls with monitoring centers, real-time audio monitoring, and 3-way intercom.
 - **Wired & Wireless Compatibility:** Supports seamless switching between existing wired and new wireless external units.
 - **Stable Wireless Transmission:** Supports automatic frequency pairing, channel detection, and strong anti-interference performance.
 - **Wireless Easy Installation:** Wireless power supply eliminates drilling and wiring for external units.
- Built-in High-Power Speaker: Built-in speaker delivers loud and clear sound for reliable communication.

TECHNICAL PARAMETERS

Power Supply & Power Consumption	DC 12V/1.5A, ≤5W
Network Communication Protocols	TCP/IP, UDP, ARP, ICMP, IGMP, FTP
Audio Encoding	PCM/AAC
Audio Sampling	8kHz-32kHz
SNR & Frequency Response	> 90dB, 20Hz~16kHz
Interfaces	1× RJ45 Network Port, 1× Power Port, 1× Analog Audio Recording Output, 1× PS/2 Port
Operating Temperature & Humidity	-10°C~55°C, ≤90% RH (non-condensing)
Product Dimensions & Net Weight	Indoor Unit: 95×160×41.9mm, 0.55kgOutdoor Unit: φ88×30.2mm, 0.15kgCharger: φ90×14.2mm

Conference System

Stable, Scalable Audio with Clear Speech.



LCS Series



LCM Series



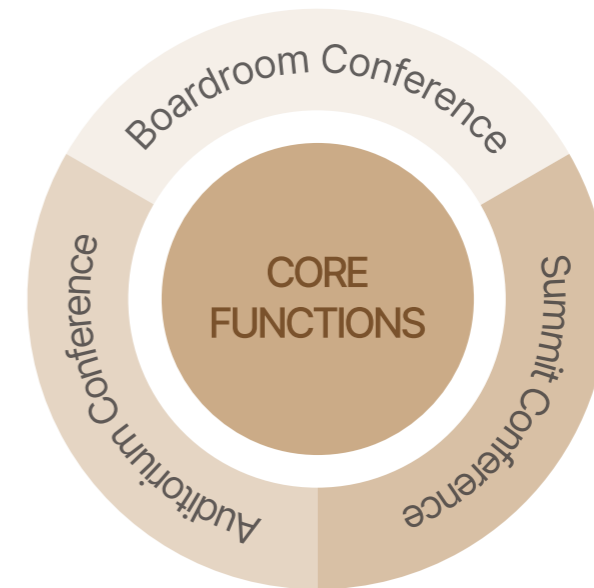
LCN Series

Conference System

System Overview

Built on a stable and reliable IP-based architecture, the SPON Conference System integrates proprietary audio processing technology to deliver clear, stable, and professional sound for a wide range of meeting environments. Supporting hybrid deployment of wired and wireless conference units, along with scalable networking and visual web-based management, the system is suitable for applications ranging from small and medium meeting rooms to large conference halls, government chambers, and enterprise boardrooms.

Beyond essential functions such as speaking management, sign-in, voting, and recording, the system also provides advanced capabilities including automatic camera tracking, redundant backup, hybrid audio outputs, and seamless integration with video conferencing platforms—ensuring efficient, orderly, and reliable meetings in both on-site and hybrid scenarios.



LCM Series

- 1. Versatile Conference Solution:** Designed for small to medium-sized meeting rooms, classrooms, and lecture halls.
- 2. Hybrid Wired & Wireless Deployment:** Intercom communication over LAN/WAN with no distance limitations, enabling large-scale and cross-area deployments.
- 3. Long Battery Life & Fast Charging:** Built-in 4000mAh polymer lithium battery supports approximately 6 hours of continuous speaking, with fast charging via Type-C interface.
- 4. Multiple Speaking Modes:** Supports FIFO, speech request, timed speech, speaker limit, and chairman priority modes for orderly discussions.
- 5. Bluetooth & Wi-Fi Audio Integration:** Bluetooth functionality allows the unit to operate as a sound card for mobile devices or PCs, enabling audio playback and remote video conferencing.

LCN Series

- 1. Pure IP Architecture with Hybrid Networking:** Built on a full IP architecture, the LCN-8000 overcomes cabling limits and supports hybrid wired and wireless conference units.
- 2. Seamless Host Expansion & Hot Backup:** The system supports scalable expansion and hot backup switching, ensuring uninterrupted meetings and high reliability.
- 3. Flexible and stable Audio Output:** Supports analog and Dante audio interfaces for both traditional and digital AV systems. Meetings continue via analog output even if the IP network is disconnected.
- 4. Visual Web Management & Intelligent Venue Monitoring:** The web-based platform enables real-time monitoring of devices and conference activity. Admins can customize panels and manage the venue with one-click control, reducing complexity and improving efficiency.

System Diagram



Product Family

LCS Series Conference System	LCS-5203L LCS-5302Z LCS-5251C-L/D-L LCS-5251D/C LCS-5251C-L/D-L LCS-5251D/C
LCM Series Digital Conference System	LCM-6010 LCM-6015P LCM-6013CV-L LCM-6013DV-L LCM-6013CVW-L LCM-6013DVW-L
LCN Series Network Conference System	LCN-8000 LCN-8007EX LCN-8003C/D-J LCN-8003C/D-L LCN-8003CW/DW-J LCN-8003CW/DW-L

Conference System

CONFERENCE SYSTEM »

- LCM Series Digital Conference System
- LCN Series Network Conference System
- LCM Series Digital Conference

CONFERENCE SYSTEM

Scalable IP conference system delivering clear, efficient and seamless communication for every meeting space.



DIGITAL CONFERENCE CENTRAL UNIT LCS-5203L

RECOMMENDED USES

This Conference system central unit with 4.3" screen is usually deployed at all kinds of medium-size meeting room and will largely save customer's budget.



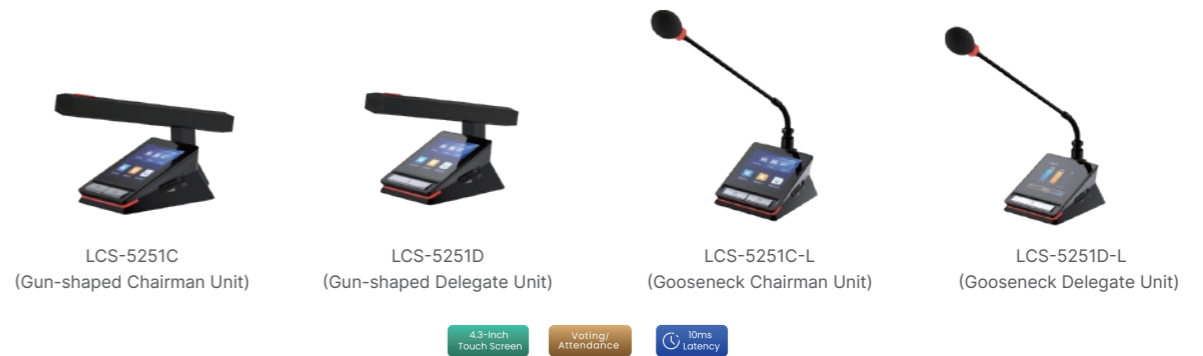
KEY FEATURES

- **Dual Ring Network Topology:** Supports connection to two independent ring networks, helping reduce cable deployment between meeting tables.
- **Shared Gain Auto Mixing:** Adopts a shared gain automatic mixing algorithm and supports up to 10 speakers at the same time.
- **USB Recording Function:** Equipped with one USB port for real-time recording, supporting up to 64GB FAT-formatted storage.
- **48kHz Low-Latency Audio:** Supports 48kHz digital audio sampling transmission with latency of less than 10 ms.
- **Self-Test & Fault Diagnosis:** Supports power-on self-test, automatic diagnosis, and on-screen fault cause prompts.
- **Independent AGC Setting:** Supports independent AGC settings to solve unstable volume caused by different speaking distances.
- **Independent EQ Adjustment:** Supports independent EQ settings for sound timbre adjustment.
- **Remote Web Configuration:** Supports remote configuration through webpage or UI interface via PC, mobile phone, or tablet after connecting to the controller's Wi-Fi hotspot.
- **Bluetooth Audio Playback:** Supports Bluetooth connection, allowing operators to play music from a mobile phone through the controller.

TECHNICAL PARAMETERS

Power Supply	100V-240V~50Hz-60Hz 1A
Consumption	≤10W
Network transmission protocol	TCP/IP、UDP、ARP、ICMP、IGMP、HTTP
Network chip rate	100Mbps
Audio Codec	MP3/PCM/ADPCM
Audio sampling and bit rate	8KHz-44.1KHz,16bit,8Kbps-320kbps
S/N (Signal-to-Noise) Ratio	>83dB
Frequency Response	40Hz-18KHz
Screen	4.3"
Resolution	480*272
Interface	1×RJ45 Ethernet Port, 1×USB Port, 1× Phoenix output , 1× XLR output, 1×RCA line output , 2×network ring output; 1× RS232 output,1× RS85 output
Dimension	483×229.5×89mm

DESKTOP WIRED CONFERENCE MICROPHONE UNIT LCS-5251C/LCS-5251D/LCS-5251C-L/LCS-5251D-L



PRODUCT FEATURES

- **4.3" Full-Color Touchscreen:** Features a 4.3-inch full-color touch display with 480 × 480 resolution.
- **Conference Sign-In & Voting:** The chairman unit supports conference sign-in, voting, and agenda control, with results displayed in real time.
- **Chairman Priority Control:** The chairman unit can approve or prohibit delegate units from speaking.
- **Real-Time Speaker Display:** Displays the current speaker's name, seat number, and waiting speaker list in real time.
- **Special Acoustic Chamber Design:** The microphone stem adopts a specially designed acoustic chamber for a refined appearance.
- **14mm Supercardioid Mic Capsule:** Equipped with a 14 mm supercardioid gold-plated high-fidelity condenser microphone for extended pickup range.
- **Dual Digital & Analog Backup:** Independent XLR analog audio output with digital-analog dual backup function on the chairman unit.
- **Full Digital Signal Transmission:** Supports fully digital signal transmission with strong anti-interference capability.
- **Mic Stem Status Indicator:** The microphone stem includes a status indicator light that turns red during operation.
- **Base Ring Status Indicator:** The base features a status indicator light ring to show the current microphone status.
- **Dual RJ45 Interfaces:** Equipped with two RJ45 female interfaces for connection to the conference host and loop backup via Cat5e or higher-grade cables.
- **Video Tracking Function:** Supports video tracking functionality.

TECHNICAL PARAMETERS

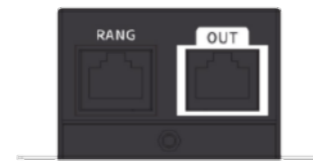
	LCS-5251C/LCS-5251D	LCS-5251C-L/LCS-5251D-L
Screen:	4.3-inch capacitive touch screen	
Power Supply, Power Consumption:	DC24/0.5A, ≤3.5W	
Audio Encoding Format:	MP3/PCM/ADPCM	
Audio Sampling Rate:	8KHz-48KHz,16bit,8Kbps-320kbps	
Microphone:	Chairman Unit: Supercardioid Gold-Plated Hi-Fi Capacitor Mic*2; Delegate Unit: *1	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Interfaces:	RJ45 network port *2	
Operating Temperature:	0-45°C, ≤90%(non-condensing)	
Product Dimensions(mm):	220x98.8x107.6	220x98.8x107.6; Standard mic length: 380mm
Shell Material:	Aluminum alloy for the microphone pickup chamber, ABS for the base.	

CONFERENCE SPLITTER LCS-5350Z DIGITAL CONFERENCE REPEATER LCS-5351Z

RECOMMENDED USES

LCS-5350Z (Conference Splitter) :

In the conference system, a splitter is needed to form a hand-to-hand ring network connection. Each conference controller supports two network ring, which means two splitter is needed in one conference system.



LCS-5350Z



LCS-5351Z

LCS-5351Z (Conference Repeater):

In each network ring, if there are more than 30 microphones to be added, then it is necessary to add a conference repeater.

TECHNICAL PARAMETERS

	LCS-5350Z	LCS-5351Z
Interface	1 x network input , 1 x network output, 1 x range port	1 x network input , 1 x network output
Dimension	50x34x68.4mm	50x34x68.4mm

DESKTOP WIRELESS CONFERENCE MICROPHONE UNIT LCS-5252C/LCS-5252D/LCS-5252C-L/LCS-5252D-L



LCS-5252C
(Gun-shaped Chairman Unit)



LCS-5252D
(Gun-shaped Delegate Unit)



LCS-5252C-L
(Gooseneck Chairman Unit)



LCS-5252D-L
(Gooseneck Delegate Unit)



PRODUCT FEATURES

- **4.3" Full-Color Touchscreen:** Features a 4.3-inch full-color touch display with 480 × 480 resolution.
- **Conference Sign-In & Voting:** The chairman unit supports conference sign-in, voting, and agenda control, with results displayed in real time.
- **Chairman Priority Control:** The chairman unit can approve or prohibit delegate units from speaking.
- **Real-Time Speaker Display:** Displays the current speaker's name, seat number, and waiting speaker list in real time.
- **Special Acoustic Chamber Design:** The microphone stem adopts a specially designed acoustic chamber for a refined appearance.
- **14mm Supercardioid Mic Capsule:** Equipped with a 14 mm supercardioid gold-plated high-fidelity condenser microphone for extended pickup range.
- **Ergonomic Base Design:** Ergonomically designed microphone base with fully digital signal transmission and strong anti-interference capability.
- **Mic Stem Status Indicator:** The microphone stem includes a status indicator light that turns red during operation.
- **Base Ring Status Indicator:** The base features a status indicator light ring to show the current microphone status.
- **Magnetic Charging Support:** Supports magnetic charging and can be fully charged within 3 hours when powered off.
- **Type-C Charging & Upgrade:** Equipped with a Type-C interface for charging and firmware upgrades.
- **Video Tracking Function:** Supports video tracking functionality.

TECHNICAL SPECIFICATIONS

	LCS-5252C/LCS-5252D	LCS-5252C-L/LCS-5252D-L
Screen:	4.3-inch capacitive touch screen	
Battery:	4000mha	
Standby Time:	6-8 hours	
Audio Encoding Format:	MP3/PCM/ADPCM	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1
Audio Sampling Rate, Bit Rate:	8KHz-48KHz, 16bit, 8Kbps-320kbps	
Microphone:	Chairman Unit - Supercardioid Gold-Plated, High-Fidelity Capacitor Mic- *2; Delegate Unit - *1	
Screen:	4.3-inch	
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Connection Method:	Wireless	
Storage:	Built-in SPI FLASH	220x98.8x107.6; Standard mic stem length: 380mm
Operating Temperature, Humidity:	0-45°C, ≤90% (non-condensing)	
Product Dimensions(mm):	220x98.8x107.6	
Shell Material:	Aluminum alloy for the mic pickup chamber, ABS for the base	

WIRELESS DIGITAL CONFERENCE ACCESS POINT LCS-5301Z



PRODUCT FEATURES

- **High-Performance CPU Platform:** Powered by MT7981B + MT7976CN + 7531AE chipset.
- **High-Speed Wireless Transmission:** Provides better transmission quality, higher transmission rate, and supports a maximum concurrent rate of up to 3000 Mbps.
- **Elegant Hidden-Port Design:** Elegant appearance with port-hidden enclosure for neat wiring.
- **Gigabit WAN Port with PoE:** Equipped with one 10/100/1000M adaptive WAN port supporting 48V PoE power supply.
- **LAN Port:** Equipped with one 10/100/1000M adaptive LAN port.
- **Antennas:** Built in with 2 × 2.4G antennas and 3 × 5G antennas.
- **Dual Power Supply Options:** Supports two power supply methods: 48V PoE and DC 12V.

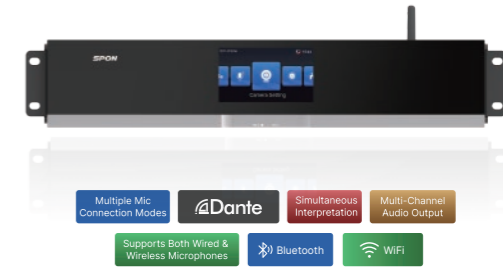
IP WIRELESS DIGITAL CONFERENCE CHARGING BOX LCS-5302Z



PRODUCT FEATURES

- **8 Magnetic Charging Bases:** Supports 8 magnetic suction contact charging bases and 4 USB-A charging ports.
- **Fast Magnetic Charging:** Each magnetic charging base provides 12W charging power and can fully charge the conference microphone within 2.5 hours.
- **USB-A Charging Support:** USB-A ports provide 5W charging power and can fully charge the speaking unit within 3 hours.
- **120W Total Output Power:** Total output power reaches 120W.

IP NETWORK CONFERENCE SYSTEM CENTRAL UNIT LCN-8000PRO



RECOMMENDED USES

Ideal for government halls, international summits boardrooms, auditoriums training centers, and any venue requiring reliable, high-quality conferencing.

KEY FEATURES

- **Patented IP Audio Transmission:** Adopts patented multi-track aggregated IP audio transmission technology and supports hot-plugging of conference microphones for plug-and-play deployment.
- **Flexible Topology & High Capacity:** Supports up to 8 daisy-chain links or 4 ring links, with one host supporting up to 128 wired/wireless conference units.
- **Extended Daisy-Chain Support:** A PoE link supports up to 3 daisy-chained microphone units, while a DC power link supports up to 18 daisy-chained microphone units.
- **Dual-Host Hot Backup:** Dual-host hot backup with automatic failover ensures continuous meeting operation.
- **6G Wi-Fi with Encryption:** Supports 6G Wi-Fi communication with 128-bit encryption.
- **48kHz Lossless Low-Latency Audio:** Delivers 48kHz lossless digital audio with transmission latency under 10 ms.
- **Dante / AES67 Integration:** Supports Dante/AES67 network audio for connection to standard AES67 processors, amplifiers, or speaker units over IP networks.
- **Conference Functions Support:** Supports sign-in, voting, and simultaneous interpretation.
- **16 Language Channels:** Provides 16 analog inputs for up to 16 language channels.
- **16 Analog Audio Outputs:** Provides 16 analog outputs for role-based or zoned audio distribution.
- **8-Camera Video Tracking:** Supports video tracking for up to 8 cameras.
- **USB Recording Function:** Supports USB recording with up to 64GB U-disk storage.
- **Built-in USB Sound Card:** Built-in USB sound card enables easy integration with remote video conferencing platforms.
- **Independent Unit Parameter Adjustment:** Supports individual or unified adjustment of each unit's role settings, input gain, AGC, and EQ.
- **Web-Based Visual Management:** Supports web-based visual management for real-time monitoring of device status, microphone activity, and meeting progress with customizable control panels.

TECHNICAL PARAMETERS

Power Supply:	AC100V-240V, 50HZ-60HZ	DANTE / AES67 Interface:	1 DANTE / AES67 Support, 1 Reserved.
Standby Power Consumption:	≤10W (without mic connected)	Operating Temperature:	0°C-45°C (32°F-113°F)
Screen:	480×272	Operating Humidity:	≤90% RH non-condensing
Mounting Method:	Rack-mounted	Color:	Black
Network Protocol:	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP	Product Dimensions:	483×281×88mm (WxDxH)
Short-Circuit Input / Output :	1× Input (SHORT/GND), 1× Output (NO/COM/NC)		
Network & Mic Connection:	A1-B4 Ports, LAN Port: RJ45 (Supports POE), WAN Port: RJ45 (Non-POE)		

IP NETWORK WIRED MICROPHONE UNIT

LCN-8003C-J / LCN-8003D-J / LCN-8003C-L / LCN-8003D-L

RECOMMENDED USES

Ideal for government halls, international summits boardrooms, auditoriums training centers, and any venue requiring reliable, high-quality conferencing.



KEY FEATURES

- **Dual-Core Processing Platform:** Powered by a dual-core 1.0GHz processor with 256MB SPI Flash.
- **Full IP Network Architecture:** Supports daisy-chain, ring, and star topology via switches for flexible wired deployment.
- **Dual 14mm Electret Microphones:** Gun-shaped unit features dual 14 mm gold-plated electret microphones with adjustable pickup angles of 60°, 120°, plus low-frequency enhancement and digital-analog backup.
- **Built-in AI Noise Cancellation:** Built-in AINC reduces desk tapping, coughing, paper noise, and other background sounds.
- **Customizable Multilingual UI:** Supports multilingual UI customization, configurable individually or through the host system.
- **Conference Function Support:** Supports speech, sign-in, voting, video tracking, refreshment requests, and simultaneous interpretation.
- **Chairman Control Function:** Chairman unit supports delegate microphone control, displays speaker information and waiting list, and allows one-touch mute for all or selected microphones.
- **Independent Audio Adjustment:** Individual gain, EQ, and AGC settings can be adjusted through the conference host.
- **Flexible Role Assignment:** Supports assigning units as host, chairman, or delegate through the conference host.
- **Fire Alarm Pop-Up Alerts:** Supports automatic pop-up fire alarm alerts that clear automatically after the alarm ends.
- **Waterproof Connector Tail:** Sealed waterproof connector tail design helps prevent moisture ingress.
- **3.5mm Headphone Monitoring:** Equipped with a 3.5 mm headphone jack for monitoring other speakers or interpretation channels.

TECHNICAL PARAMETERS

	LCN-8003C-J / LCN-8003D-J	LCN-8003C-L / LCN-8003D-L
Power Supply	Powered by Conference Central Control Unit, DC24V	
Power Consumption	≤3.5W	
Display	4.3 inch capacitive touch screen	
Frequency Response	20Hz~20kHz	
Sensitivity	-41dB±2dB (0dB=1V/Pa @1kHz)	
Max SPL	120dB SPL @1kHz, 1% THD	
Microphone Head	3×14mm diameter gold-plated capacitive mic	14mm diameter gold-plated capacitive mic
Directional	Supercardioid	
Interface	RJ45 Port *2, 3.5mm Audio Output Jack *1	
Working Temperature	0°C~+45°C	
Working Humidity	≤90%RH, No Condensation	
Product Dimensions	144(D)×100(H) (mm)	
Accessories	1×Network Cable(1m), 1×Quick Installation Guide, 1×Quality Certificate, 1×Warranty card	

IP NETWORK WIRELESS MICROPHONE UNIT

LCN-8003CW / LCN-8003DW / LCN-8003CW-L / LCN-8003DW-L

RECOMMENDED USES

Ideal for government halls, international summits boardrooms, auditoriums training centers, and any venue requiring reliable, high-quality conferencing.



KEY FEATURES

- **Dual-Core Processing Platform:** Powered by a dual-core 1.0GHz processor with 256MB SPI Flash.
- **6G Wi-Fi Wireless Transmission:** Supports 6G Wi-Fi connectivity with full digital signal transmission and strong anti-interference capability.
- **Full IP Network Architecture:** Supports daisy-chain, ring, and star topology for flexible system deployment.
- **Dual 14mm Electret Microphones:** Gun-shaped unit features dual 14 mm gold-plated electret microphones with adjustable pickup angles of 60° and 120°, plus low-frequency enhancement and digital-analog backup.
- **Built-in AI Noise Cancellation:** Built-in ANC reduces desk tapping, coughing, paper noise, and other background sounds.
- **Customizable Multilingual UI:** Supports multilingual UI customization, configurable individually or through centralized host settings.
- **Conference Function Support:** Supports speech, sign-in, voting, video tracking, refreshment requests, and simultaneous interpretation.
- **Long Battery Life & Fast Charging:** Wireless units feature an 8000mAh lithium-polymer battery, supporting up to 12 hours of talk time, magnetic base charging, and USB-C PD fast charging.
- **Chairman Control Function:** Chairman unit supports delegate microphone control, speaker information display, waiting list, and one-touch mute for all or selected microphones.
- **Independent Audio Adjustment:** Individual gain, EQ, and AGC settings can be adjusted through the conference host.
- **Fire Alarm Pop-Up Alerts:** Supports automatic pop-up fire alarm alerts that clear automatically after the alarm ends.

TECHNICAL PARAMETERS

	LCN-8003CW / LCN-8003DW	LCN-8003CW-L / LCN-8003DW-L
Power Supply	Lithium battery (8000mAh)	
Power Consumption	≤3W	
Display	4.3 inch capacitive touch screen	
Frequency Response	20Hz~20kHz	
Sensitivity	-41dB±2dB (0dB=1V/Pa @1kHz)	
Max SPL	120dB SPL @1kHz, 1% THD	
Microphone Head	2×14mm diameter gold-plated capacitive mic	14mm diameter gold-plated capacitive mic
Directional	Supercardioid	
Interface	3.5mm Audio Output Jack *1	
Working Temperature	0°C~+45°C	
Working Humidity	≤90%RH, No Condensation	
Product Dimensions	127(D)×100(H) (mm)	144(D)×100(H) (mm)
Accessories	1×Quick Installation Guide, 1×Quality Certificate, 1×Warranty card	

IP NETWORK EXTENDER LCN-8007EX

RECOMMENDED USES

Designed for large-scale, multi-node conference deployments.



- Power Boost
- Flexible Expansion
- High Stability
- Lower Wiring Costs

KEY FEATURES

- Dual Network IN/OUT Ports:** Equipped with dual network IN/OUT ports to support ring topology deployment, ensuring fail-safe and continuous system operation even if one network link is interrupted.
- Up to 80W Power Supply:** Provides up to 80W power to downstream microphones, with DC power supporting up to 18 units and PoE supporting up to 3 units.
- Modular Microphone Expansion:** Supports microphone expansion by connecting directly to a standard network switch for flexible and scalable deployment across the LCN-8000 system.

TECHNICAL PARAMETERS

Power Supply	DC30V/3A or POE
Interface	RJ45 Port *4 (INPUT *2, OUTPUT *2), Power Supply Input *1

WIRELESS CHARGING STATION LCM-6015P

KEY FEATURES

- 12 USB Charging Ports:** Supports 12 USB charging ports.
- 5W Per Port Output:** Each charging port provides 5W charging power, with a total power output of 75W.
- Active Cooling Fan:** Built-in active cooling fan supports stable operation.
- Overcharge Protection:** Includes overcharge protection for safer charging.



TECHNICAL PARAMETERS

Power Supply:	100V-240V ~ 50Hz/60Hz, 1A	Operating Humidity:	≤ 90% (noncondensing)
Rated Output Power:	USB single port ≤ 5W	Enclosure Material:	Aluminum alloy
Cooling:	Active cooling	Product Dimensions:	483 × 236.5 × 89 mm
Interfaces:	12 USB ports, power input port	Operating Altitude:	Up to 2000 meters
Operating Temperature:	0°C to 45°C		

MASTER CONTROL UNIT (WIRED/WIRELESS) LCM-6010

RECOMMENDED USES

Conference Room, Lecture Hall



- WiFi
- Wired And Wireless Unit Management
- Camera Tracking
- External Device Control
- Meeting Recording
- Bluetooth

KEY FEATURES

- Full Digital Conference Host:** Suitable for medium to small-sized conference rooms and lecture halls.
- Wired & Wireless Integration:** Combines wired and wireless conference discussion, video tracking, sign-in, voting, and matrix control in one system.
- Multiple Speaking Modes:** Offers multiple modes for managing conference speeches.
- Bluetooth Audio Support:** Supports Bluetooth audio input and output.
- Customizable Unit Roles:** Allows customization of roles and names for microphone units.
- Speech List Management:** Supports speech list function for managing the speaking order.
- Remote Access Control:** Allows system parameter adjustment via smartphones, tablets, or PCs.

TECHNICAL PARAMETERS

Power Supply:	100V-240V~50HZ-60HZ	Resolution:	480 x 272
Power Consumption:	≤10W (when no microphone is connected)	Network Port:	RJ45 x 1
Protocols:	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP	USB Port:	USB x 1
Network Chip Rate:	100 Mbps	Balanced Output:	Phoenix x 1
Audio Encoding Formats:	MP3, PCM, ADPCM	Balanced Output:	XLR x 1
Sampling Rates:	8 kHz to 44.1 kHz	Unbalanced Output:	RCA x 1
Bit Depth:	16bit	Ring Network Output:	x 2
Bit Rates:	8 kbps to 320 kbps	RS232 Serial Port:	x 1
SignaltoNoise Ratio:	>83 dB	485 Communication Interface:	x 1
Frequency Response:	40 Hz to 18 kHz	Temperature Range:	0°C to 45°C
Screen Size:	4.3 inches	Humidity:	≤90% (noncondensing)
Type:	Touchscreen Color LCD	Product Dimensions:	483 mm x 204.5 mm x 89 mm

MICROPHONE UNIT (WIRED) LCM-6013CV-L & LCM-6013DV-L

RECOMMENDED USES

Conference Room.

KEY FEATURES

- **4" Full-Color Touchscreen:** Features a 4-inch full-color touch.
- **Video Tracking Function:** Supports video tracking functionality.
- **Full Digital Signal Transmission:** Supports fully digital signal transmission with strong anti-interference capability.
- **Dual RJ45 Daisy-Chain Ports:** Equipped with two RJ45 female interfaces for daisy-chaining to the conference host via CAT6 cables.
- **Hypercardioid Mic Capsule:** Hypercardioid capacitive microphone head for focused voice pickup.
- **Independent Audio Adjustment:** Allows the conference host to individually set microphone input gain, EQ, and automatic gain control.
- **Chairman Sign-In & Voting (LCM-6013CV-L):** Supports conference sign-in and voting, with results displayed in real time.
- **Chairman Control Authority (LCM-6013CV-L):** Has the authority to approve or mute delegate units.
- **Chairman Speaker Display (LCM-6013CV-L):** Displays the current speaker's name, seat number, and waiting speaker list.
- **Delegate Sign-In & Voting (LCM-6013DV-L):** Supports conference sign-in, voting agenda, and real-time display of sign-in and voting results.
- **Delegate Speaker Display (LCM-6013DV-L):** Displays the current speaker's name, seat number, and waiting speaker list in real time.



TECHNICAL PARAMETERS

Model No.	LCM-6013CV-L/LCM-6013DV-L
Power Supply	Central unit supply 24V power in
Power Consumption	Microphone unit Power Consumption ≤ 3.5W
Audio Coding Format	MP3/PCM/ADPCM
Audio Sampling Rate, Bit Rate	8KHz-48KHz, 16-bit, 8Kbps-320kbps
SNR	≥83dB
Screen	4-inch capacitive touch screen
Screen Resolution	480*480 (RGB)
Headphone Output Interface	φ3.5mm stereo jack
Storage	Built-in SPI FLASH
Connection Method	Category 6 network cable
Microphone	14mm gold-plated electret condenser microphone
Microphone Polar Pattern	Supercardioid
Microphone Frequency Response	20Hz-20KHz
Microphone Sensitivity	-38dB, 12.6mV / Pa (0 dB = 1 V/Pa @ 1 kHz)
Max SPL of Microphone	130 dB SPL (1% THD @ 1 kHz)
Interfaces	RJ45 Ethernet ports *2, connected to the next microphone unit
Operating Temperature and Humidity	0-45°C, ≤90% RH (non-condensing)
Microphone Base Dimensions	168*103*58mm

MICROPHONE UNIT (WIRELESS) LCM-6013CVW-L & LCM-6013DVW-L

RECOMMENDED USES

Conference Room.

KEY FEATURES

- **4" Full-Color Touchscreen:** Features a 4-inch full-color touch display with 480 × 480 resolution.
- **Multi-Band Wireless Transmission:** Supports wireless transmission frequencies of 2.4GHz, 5.2GHz, and 5.8GHz.
- **WPA/WPA2 Encryption:** Supports WPA/WPA2 wireless transmission encryption.
- **4000mAh Lithium Battery:** Built in with a 4000mAh lithium polymer battery.
- **Video Tracking Function:** Supports video tracking functionality.
- **Independent Audio Adjustment:** Allows individually set microphone volume, EQ, and automatic gain control.
- **Chairman Sign-In & Voting (LCM-6013CVW-L):** Supports sign-in, voting agenda, and real-time display of sign-in and voting results.
- **Chairman Control Authority (LCM-6013CVW-L):** Has the authority to approve or prohibit delegate speeches.
- **Chairman Speaker Display (LCM-6013CVW-L):** Displays current speaker names, seat numbers, and waiting speaker lists in real time.
- **Delegate Speaker Display (LCM-6013DVW-L):** Displays the current speaker's name, seat number, and waiting speaker list in real time.



TECHNICAL PARAMETERS

Model No.	LCM-6013CVW-L	LCM-6013DVW-L
Power Consumption	3W	
Battery	4000mAh	
SNR (SNR), Frequency Response	≥83dB, 40Hz-18KHz	
Continuous Speaking Time	6 hours, Screen On Standby Time approximately 8 hours	
Screen	4-inch Capacitive Touch Screen	
Screen Resolution	480*480 (RGB)	
Headphone Output Interface	φ3.5mm Stereo Jack	
Storage	Built-in SPI FLASH	
Connection Method	WiFi Wireless Connection	
Microphone Directivity	Supercardioid	
Microphone Frequency Response	20-20,000 Hz	
Microphone Sensitivity	-38dB, 12.6mV / Pa (0 dB = 1 V/Pa @ 1 kHz)	
Max SPL (SPL) of Microphone	130 dB SPL (1% THD @ 1 kHz)	
Operating Temperature and Humidity	0-45°C, ≤90% (Non-condensing)	
Microphone Base Size	168x58x103mm	

DUAL-CHANNEL DIGITAL POWER AMPLIFIER SAP-5402A35/SAP-5402A50/SAP-5402A70

RECOMMENDED USES

Conference Room



KEY FEATURES

- **1U Slim Design:** The amplifier features a compact, sleek, and simple 1U slim chassis design.
- **Ultra-Low Standby Power:** It has ultra-low standby power with up to 90% operating efficiency, significantly reducing power waste.
- **Peak Level Limiter:** Includes a built-in peak level limiter to reduce the risk of speaker damage from clipping signals. It also features a clipping indicator light to alert users.
- **Thermal Control:** Embedded thermal level control to ensure the amplifier auto-compresses signals proportionally in extreme high temperatures.
- **Comprehensive Protection Features:** Comes with a range of protection features such as soft start, DC, high frequency, overvoltage, undervoltage, overload, short circuit, compression, and overheat protection. It offers superior EMI performance and surge protection for both power input and output.
- **Global PFC Power Supply:** Equipped with a global power factor correction (PFC) power supply, ensuring minimal grid interference and lower grid requirements.
- **Temperature-Sensitive Cooling:** Features a steppless speed regulation cooling system, balancing heat and fan noise under full power output.
- **External Fuse Box Design:** It also includes an external fuse box for power input with an internal spare fuse for easy maintenance and equipment protection.

TECHNICAL PARAMETERS

	SAP-5402A35	SAP-5402A50	SAP-5402A70
Power Supply Range:	AC100~240V 50Hz~60Hz, 1A	AC 220V 50Hz	AC 220V 50Hz
Surge Protection:	1 kV Differential Mode / 2 kV Common Mode (Input), 2 kV Common Mode (Output)		
Standby Power Consumption:	< 5W	< 8W	< 8W
Power Consumption:	1/8 rated power 8Ω (1KHz): 120W 1/3 rated power 8Ω (1KHz): 280W	1/8 rated power 8Ω (1KHz): 180W 1/3 rated power 8Ω (1KHz): 430W	1/8 rated power 8Ω (1KHz): 235W 1/3 rated power 8Ω (1KHz): 540W
Output Power:	350W×2 @8Ω;700W×2 @4Ω; BTL:700W×1@16Ω BTL:1400W×1@8Ω	500W×2 @8Ω;1000W×2 @4Ω; BTL:1000W×1@16Ω BTL:1800W×1@8Ω;	700W×2 @8Ω;1200W×2 @4Ω; BTL:1200W×1@16Ω BTL:2400W×1@8Ω;
Frequency Response:	20Hz-20KHz		
Total Harmonic Distortion:	< 0.05% @1KHz 1/3power output		
Signal-to-Noise Ratio:	> 100dB(A-weighted)		
Input Impedance:	Balanced 20KΩ / Unbalanced 10KΩ		
Input Sensitivity:	0.775Vrms/1.414Vrms		
Maximum Input Level:	3.5Vrms(13dBu)		
Gain:	36.7dB		
Interfaces:	2 line inputs, 2 line outputs, 2 power outputs		
Operating Temp. & Humidity:	0°C-45°C, ≤90%RH(non-condensing)		
Dimensions&Weight:	300.5*483*44.5mm;3.3kg	300.5*483*44.5mm;3.51kg	300.5*483*44.5mm;4kg

CONFERENCE PTZ CAMERA LCS-2871-20



RECOMMENDED USES

Conference Room

KEY FEATURES

- **Full HD Image Quality:** Equipped with a 1/2.8-inch, 2.07-megapixel sensor that delivers a maximum resolution of 1920x1080 at up to 60 frames per second, providing a high signal-to-noise ratio. The image quality is enhanced with advanced 2D and 3D noise reduction technologies.
- **20X Optical Zoom with Advanced Autofocus:** Features a 20X optical zoom lens combined with advanced autofocus algorithms for fast, accurate, and stable performance.
- **Comprehensive Video and Audio Compression:** Supports H.265/H.264 video compression and AAC, MP3, and G.711A audio compression, up to 1920x1080 resolution at 60 fps. Offers various sampling frequencies for optimal audio quality.
- **Multiple Output and Control Interfaces:** Provides HDMI, SDI, USB, and LAN video output interfaces. SDI supports up to 100 meters transmission at 1080P60. Includes RS485 and RS232 control interfaces with cascading support for easy installation.
- **Extensive Network and Control Protocols:** Supports ONVIF, GB/T28181, RTSP, RTMP, and VISCA control protocols. It also supports RTP multicast and network command VISCA control. RTMP push mode allows easy connection to streaming servers like Wowza and FMS.

TECHNICAL PARAMETERS

Optical Zoom Lens:	20x optical zoom, f = 5.5 to 110 mm
Field of View:	3.3° (narrow) to 54.7° (wide)
Aperture:	F1.6 to F3.5
Effective Pixels:	2.07 million, 16:9 aspect ratio
Digital Zoom:	10x
Overall Output Interfaces:	HDMI, SDI, LAN, USB 2.0, Audio In, RS232-IN, RS232-OUT, RS485, Rotary DIP Switch, DC12V power
Video Output Interfaces:	HDMI, SDI, LAN, USB 2.0
Audio Input Interface:	Dual-channel 3.5mm linear input
Audio Output Interfaces:	HDMI, LAN, USB 2.0
Audio Compression Formats:	AAC, MP3, G.711A
Network Interface:	100M Ethernet port, optional POE power, supports audio and video output
Network Protocols:	RTSP, RTMP, ONVIF, GB/T28181, VISCA over IP; supports remote upgrade, reboot, and reset
Control Interfaces:	RS232-IN, RS232-OUT, RS485
Serial Communication Protocols:	VISCA/Pelco-D/Pelco-P; supports baud rates of 115200/38400/9600/4800/2400
USB Communication Protocols:	UVC (Video Communication Protocol), UAC (Audio Communication Protocol)
Power Interface:	HEC3800 power socket (DC12V)
Power Adapter:	Input AC110V~AC220V; Output DC12V/1.5A
Input Voltage:	DC12V ±10%
Input Current:	<1A
Power Consumption:	<12W
Horizontal Rotation:	-170° to +170°
Tilt Rotation:	-30° to +90°
Horizontal Control Speed:	0.1°/s to 100°/s
Tilt Control Speed:	0.1°/s to 30°/s
Preset Speed:	Horizontal: 60°/s, Tilt: 30°/s
Dimensions (L × W × H):	258 × 172 × 169 mm (H)
Weight:	Approximately 1.54 kg

DIGITAL AUDIO PROCESSING MATRIX SAP-F88/SAP-F1616H



SAP-F88



SAP-F1616H

TECHNICAL PARAMETERS

	SAP-F88	SAP-F1616H
No. of Analog I/O Channels:	8×8	16×16
No. of Dante I/O Channels:	/	/
Front panel:	8× In Tri-color LEDs, 8× Out Tri-color LEDs, OLED, USB-A	16 input tri-color LED indicators, 16 output tri-color LED indicators, OLED display, USB-A port
Processor:	ADI SHARC 21489	
Processing power:	400 MIPS, 1.6 GFLOPS	
Sampling rate:	48K/24bit	
Functional algorithms:	4-channel independent AEC, independent channel AFC (feedback suppression), adaptive noise suppression (ANS), automatic gain control (AGC), ducker, noise gain compensator (ANC), automatic mixing with gain sharing (AM), gate mixer, 12-band parametric equalizer, USB sound card playback and recording, hot backup	
Input gain:	0/3/6/9/12/15/18/21/24/27/30/33/36/39/42/45/48 dBu	
Phantom power:	+48V/10mA max	
Frequency response:	20~20kHz(±0.3dB)	
Maximum level:	+18dBu	
THD+N:	<-94dB @17dBu	
Input dynamic range:	110dB	
Output dynamic range:	112dB	
Channel isolation @1kHz:	108dB	
Input impedance (balanced):	5.4KΩ	
Output impedance (balanced):	600Ω	
System latency:	<3ms	
Power supply:	AC110~240V,50Hz/60Hz	
Interface:	8× Analog In, 2×12P Phoenix 8× Analog Out, 2×12P Phoenix 2× Dante RJ45 (Pri./Sec., SAP-F88DT only) 1× RS232, 2×12P Phoenix 1× RS485, 3P Phoenix 1× RJ45, 100-1000 Mbps 8× GPIO	16× Analog In, 4×12P Phoenix 16× Analog Out, 4×12P Phoenix 2× Dante RJ45 (Pri./Sec., SAP-F1616DT only) 1× RS232, 2×12P Phoenix 1× RS485, 3P Phoenix 1× RJ45, 100-1000 Mbps 8× GPIO
Dimensions (W*D*H):	482 × 260 × 45mm	
Weight:	4KG	

PROFESSIONAL-GRADE TRUE DIVERSITY WIRELESS MICROPHONE LCS-2340A/LCS-2340B/LCS-2340T



LCS-2340A
UHF Handheld Wireless
Microphone



LCS-2340B
UHF Lavalier Microphone



LCS-2340T
UHF Headset Microphone

KEY FEATURES

- **Dual-Band Transmission & High-Fidelity Audio:** The LCS-234 series wireless microphones offer dual-band transmission with high-fidelity audio, providing excellent sound quality and strong anti-interference capabilities.
- **Stable Wireless Performance:** Offers stable long-range wireless performance, ideal for professional use in meeting rooms, training rooms, and audio applications.
- **Anti-Interference & Anti-Crosstalk:** Built to perform well in wireless transmission with reduced interference, offering a high signal-to-noise ratio and improved clarity.
- **Advanced Digital UHF Technology:** Uses digital UHF transmission, allowing a reliable wireless range of up to 70 meters, ensuring seamless communication.
- **Flexible Power Supply Options:** The microphones are compatible with 3.7V 14500 lithium batteries or 1.5V AA batteries, offering flexibility in power sources.
- **Wide Audio Frequency Range:** Supports a full audio frequency range of 20Hz-20kHz with less than 2dB deviation, ensuring clear and natural sound reproduction.
- **Universal Compatibility:** Works with the DTR-series universal receiver, integrating with other transmitters in the same wireless system.

TECHNICAL PARAMETERS

Communication Mode:	Digital U-Band Audio Wireless Communication
Modulation Method:	π/4DQPSK
RF Output Power:	<18 dBm
Transmission Distance:	70 m (Interference-Free Environment)
Wireless Frequency Response:	20 Hz-20 kHz, Attenuation <2 dB
Signal-to-Noise Ratio (S/N):	>96 dB
Total Harmonic Distortion (THD):	<0.03% @ 1 kHz
Latency:	<4 ms
Number of Channels:	40 Channels
Bandwidth:	30 MHz
Transmitter Power Supply:	2×14500 Lithium Battery (3.7V) or 2×AA Battery (1.5V) [Hybrid Battery Technology]
Operating Temperature Range:	5°C - 45°C
Receiver Power Supply:	DC 12V / 1A / 8W
Receiver Dimensions (Without Antenna):	480 × 200 × 45 mm
Receiver Product Weight:	2.08 kg

UHF WIRELESS MICROPHONE LCS-2338Z

RECOMMENDED USES

conference room, lecture hall, auditorium, playground.



KEY FEATURES

- **UHF Frequency Band Transmission:** Frequency range: 500MHz-900MHz.
- **Multiple Channels:** Available with each channel stepping at 250KHz; Noise-free touch switch.
- **Stable Performance:** PLL digital phase-locked loop synthesis technology and intelligent digital circuitry.
- **Unique ID Per Channel:** Each channel is equipped with a unique ID number for enhanced anti-interference functionality.
- **High-Fidelity Microphone:** Uni-directional condenser microphone providing excellent sound reproduction with a pickup distance of 30-50CM.
- **Outputs:** Two XLR balanced outputs and one mixed TS unbalanced output on the back, suitable for direct connection to audio devices.
- **Flexible Gooseneck Design:** Allows 360° adjustment, with a microphone light ring indicating speaking status.
- **Power Supply:** Powered by 3*1.5V AA batteries, providing continuous use for 8-10 hours.
- **Display Features:** Both the main unit and transmitter feature LCD screens displaying working status and other information.
- **Operating Distance:** Open environment: 80-100 meters, Complex environment: 50-80 meters.
- **Suitable Applications:** For various conference and educational environments.

RECEIVER TECHNICAL PARAMETERS

Oscillation Method:	Phase-Locked Loop Frequency Synthesis	Modulation:	FM
Frequency Stability:	±0.001%	Adjacent Channel Interference Ratio:	>80dB
Max. Frequency Deviation:	±30 kHz	Sensitivity:	1.2/μV @S/N=12dB
Signal-to-Noise Ratio:	>60dB	Distortion:	<0.5% @1KHz
Audio Output:	Independent 0~400mV, Mixed ~300mV	Dynamic Range:	≥100dB
Frequency Stability:	±0.001%	Power Supply:	DC:12V~17V
Dimensions :	420*220*44mm(W * D * H)	Weight:	4.5 Kg, Total Weight: 7.5 Kg
Frequency Range:	UHF 500MHz~900MHz		

MICROPHONE TECHNICAL PARAMETERS

Type:	Electret
Frequency Response:	40Hz~20KHz
Power Consumption:	100mA

UHF WIDEBAND ANTENNA DISTRIBUTOR SAP-ANT20

RECOMMENDED USES

This wide-compatible antenna distributor is designed to be used in conjunction with UHF wireless microphone systems, it helps stretching the power of your antenna pairs, giving your wireless mic setup more potential for efficient deployment and smooth wireless transmission, ideal for stage performances, live shows and other outdoor events.



KEY FEATURES

- **Durable Construction:** The distributor is made of all-metal structure, ensuring strength and long-lasting durability.
- **Wide Compatibility:** It works with most wireless microphone systems within the RF frequency range of 500MHz to 850MHz.
- **Power Outputs:** Offers 4 DC 12V/1.2A power outputs, which can charge up to 4 wireless receivers, simplifying the setup by reducing the need for multiple power supplies.
- **RF Outputs:** Includes 8 RF outputs for connecting up to 4 wireless receivers, allowing for streamlined antenna setups.
- **Cascade Ports:** The distributor comes with a pair of cascade ports, enabling the connection of an additional wireless receiver and further expanding the system.
- **Additional Expansion:** These cascade ports can also be used to connect another SAP-ANT20 antenna distributor, making it scalable for multiple setups.
- **Compatible with SAP-ZQS20 Antenna Paddles:** The system can be easily set up with SAP-ZQS20 antenna paddles for the entire antenna distribution system.
- **Interference Reduction:** Designed to help avoid signal interference and dropouts, ensuring stable wireless performance.

TECHNICAL PARAMETERS

Power Supply	DC 12V-15V/5A
Frequency Range	500MHz-850MHz UHF
Antenna Connector Type	TNC
Input/Output Impedance	50Ω
Power Output	DC 12V/1.2A
Interface	4×DC 12V/1.2A Power Output / 2× Antenna Input (A/B) / 2×Cascade Port / 8×RF Output / 1×Power Input
Dimensions	430*45*180mm
Weight	1.8kg

UHF ACTIVE DIRECTIONAL ANTENNA SAP-ZQS20

KEY FEATURES

- **Wide Compatibility:** Compatible with most wireless microphone systems within the 500MHz to 850MHz RF frequency range.
- **Directional Antenna Design:** The antenna uses a log-periodic array to enhance the rejection of RF signals outside the coverage area, improving signal integrity.
- **Adjustable Gain Settings:** Features adjustable gain up to 18dB, which compensates for signal loss and helps reduce the likelihood of system dropouts.
- **LCD Screen for Ease of Use:** A visualized LCD screen helps in realizing a hassle-free setup, providing feedback on performance.
- **Signal Interference Reduction:** The design focuses on avoiding signal interference and dropouts, ensuring stable and reliable transmission.



TECHNICAL PARAMETERS

Power Supply:	DC 6V-10V (supplied via TNC antenna port)
Current Consumption:	Approx. 60mA
Frequency Range:	500MHz-850MHz UHF
Antenna Type:	Log-Periodic Array
Antenna Connector Type:	TNC
Output Impedance:	50Ω
Antenna Gain:	Maximum 18dB
Dimensions:	302x252x23mm
Weight:	0.4kg

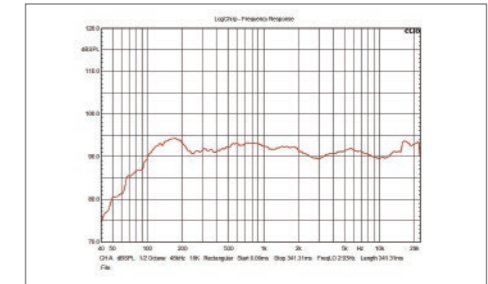
TWO-WAY PASSIVE ANTENNA SPLITTER SAP-HLQ20



KEY FEATURES

- **RF Antenna Installation Use:** Specifically designed for RF antenna installations.
- **Signal Splitting/Combining:** This passive antenna splitter can split an incoming signal into two outgoing signals, or combine two incoming signals into one signal.
- **DC Power Support:** It also allows DC power to pass through any of its output ports, making it versatile for use in setups requiring power.

SINGLE 8-INCH FULL-RANGE SPEAKER SAP-Q8

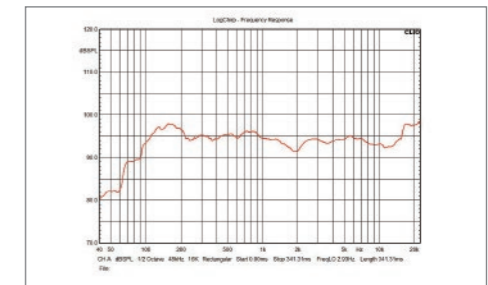


Frequency Response Curve

TECHNICAL PARAMETERS

Woofer:	1x8 inch	Coverage Angle:	90° * 50°(Horizontal * Vertical):
Tweeter:	1x1.34" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz):	93Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	95dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak):	150W/300W/600W	Dimensions:	407 * 255 * 260 mm(H*W*D)
Maximum SPL:	116 dB	Net Weight:	10.75 kg
Peak SPL:	122 dB	Bracket:	SAP-QZ wall mount bracket (Optional)
Impedance:	8Ω		

SINGLE 10-INCH FULL-RANGE SPEAKER SAP-Q10 WATERPROOF MODEL(SAP-Q10-FS)

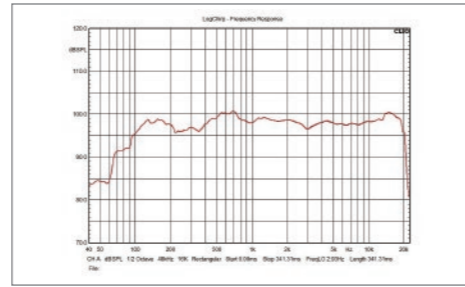


Frequency Response Curve

TECHNICAL PARAMETERS

Woofer:	1 x 10 inch	Coverage Angle:	90° * 50°(Horizontal * Vertical):
Tweeter:	1x1.75" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz):	77Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	96dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak):	300W/600W/1200W	Dimensions:	500 * 310 * 310 mm (H*W*D)
Maximum SPL:	120 dB	Net Weight:	15.5 kg
Peak SPL:	126 dB	Bracket:	SAP-QZ wall mount bracket (Optional)
Impedance:	8Ω		

SINGLE 12-INCH FULL-RANGE SPEAKER SAP-Q12 WATERPROOF MODEL(SAP-Q12-FS)

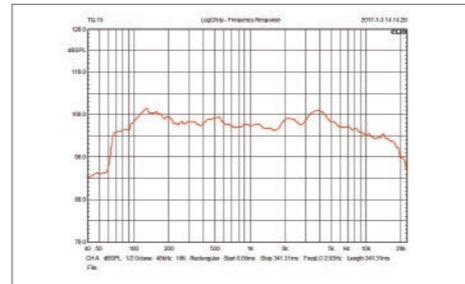


Frequency Response Curve

TECHNICAL PARAMETERS

Woofers:	1 x 12inch	Coverage Angle:	80° * 50° (Horizontal * Vertical):
Tweeter:	1x1.75" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz):	68Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	97dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak):	400W/800W/1600W	Dimensions:	560 * 355 * 360 mm(H * W * D)
Maximum SPL:	123 dB	Net Weight:	19.6 kg
Peak SPL:	129 dB	Bracket:	SAP-QZ wall mount bracket (Optional)
Impedance:	8Ω		

SINGLE 15-INCH FULL-RANGE SPEAKER SAP-Q15 WATERPROOF MODEL(SAP-Q15-FS)



Frequency Response Curve

TECHNICAL PARAMETERS

Woofers:	1 x 15 inch	Coverage Angle:	100° * 70°(Horizontal * Vertical):
Tweeter:	1x1.75" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz):	66Hz-19kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	98dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak):	450W/900W/1800W	Dimensions:	700*430*435mm(H * W * D)
Maximum SPL:	124 dB	Net Weight:	30.3 kg
Peak SPL:	130dB	Bracket:	SAP-QZ wall mount bracket (Optional)
Impedance:	8Ω		

ARRAY COLUMN SPEAKER SAP-L2043H/SAP-L2043H-W



KEY FEATURES

- **Unique Soundwave Diffusion:** The front circular waveguide holes and rear damping ports create a unique low-frequency heart-shaped diffusion, ensuring crisp and clear treble, natural and rich timbre, and bass.
- **High-Quality Audio Performance:** Equipped with 4 x 3-inch high-performance neodymium magnet drive units, delivering vivid performance of all musical elements with delicate timbre..

Drive Units:	4x3"	Rated Power:	100W (400W, PEAK)
SPL (1W/1m):	89dB	Grille Material:	Metal mesh
Maximum SPL (1W/1m):	107dB	Enclosure Material:	ABS mixed with fiberglassreinforced plastic
Effective Frequency Range:	80Hz~18kHz	Color:	White/Black
Dispersion Angle (-6dB):	Vertical >20°, Horizontal>120°	Dimensions :	530(H)x98(W)x153(D) (mm)
Impedance:	8Ω	Weight:	3.80kg

ARRAY COLUMN SPEAKER SAP-L4004H/SAP-L4008H



KEY FEATURES

- **Sound Reinforcement:** Delivers excellent sound reinforcement in complex, high-reverberation, and echo-prone environments.
- **Sound Dispersion:** Provides precise and uniform sound dispersion with a 20° vertical and 160° symmetrical horizontal coverage.
- **Vocal Clarity:** Enhances vocal clarity and high-frequency performance with optimized frequency band processing.

SAP-L4004H		SAP-L4008H	
Bass Units:	4x4"	Bass Units:	8x4"
Treble Units:	1x34mm Horn	Treble Units:	1x1
Characteristic Sensitivity Level:	93dB	CharacteristicSensitivity Level:	94dB
SPL:	115dB	SPL :	117dB
Frequency response :	85Hz~20KHz	Frequency response:	100Hz~20KHz
Dispersion Angle:	Vertical 20°, Horizontal 160°	Dispersion Angle:	Vertical 20°, Horizontal 160°
Impedance:	4Ω	Impedance:	4Ω
Rated Power :	250W (1000W, PEAK)	Rated Power:	440W (1760W, PEAK)
Grille Material:	Metal mesh	Enclosure Material:	Aluminum alloy reinforced
Enclosure Material:	Aluminum alloy reinforced enclosure	Grille Material:	Metal mesh
Color:	Black/Silver White	Color:	Black/Silver White
Dimensions :	656(H)x136(W)x136(D) (mm)	Dimensions :	1140(H)x134(W)x153(D) (mm)
Product Weight:	7.7 Kg	Product Weight:	8.2kg

Surveillance Mic

High-Quality Audio for CCTV Security.



Analog Series



Digital Series



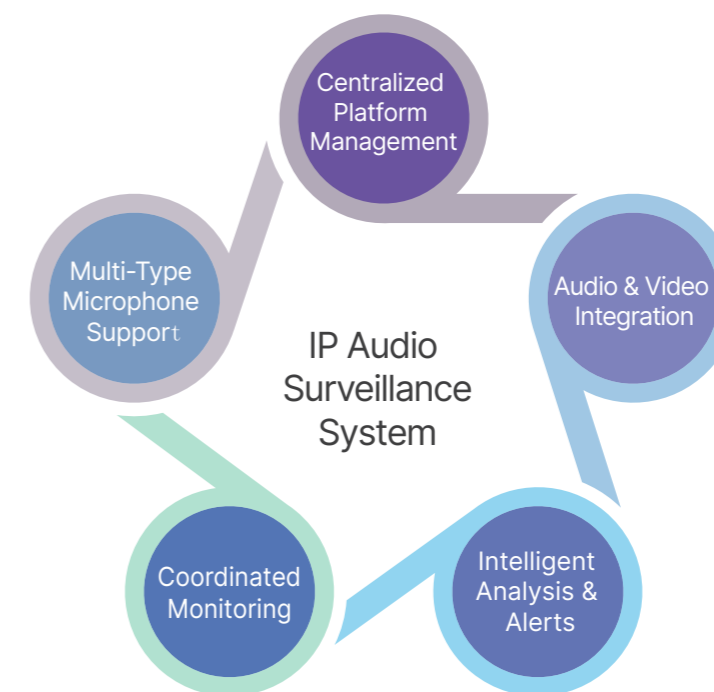
Network Series

Surveillance Mic

System Overview

The SPON IP HD Audio Surveillance Microphone System System is built on advanced XCoIP™ technology, featuring proprietary digital audio processing at its core. Designed for IP-based audio and video surveillance, it delivers clear and reliable sound capture through end-to-end optimization—from acoustic structure and analog circuitry to digital algorithms.

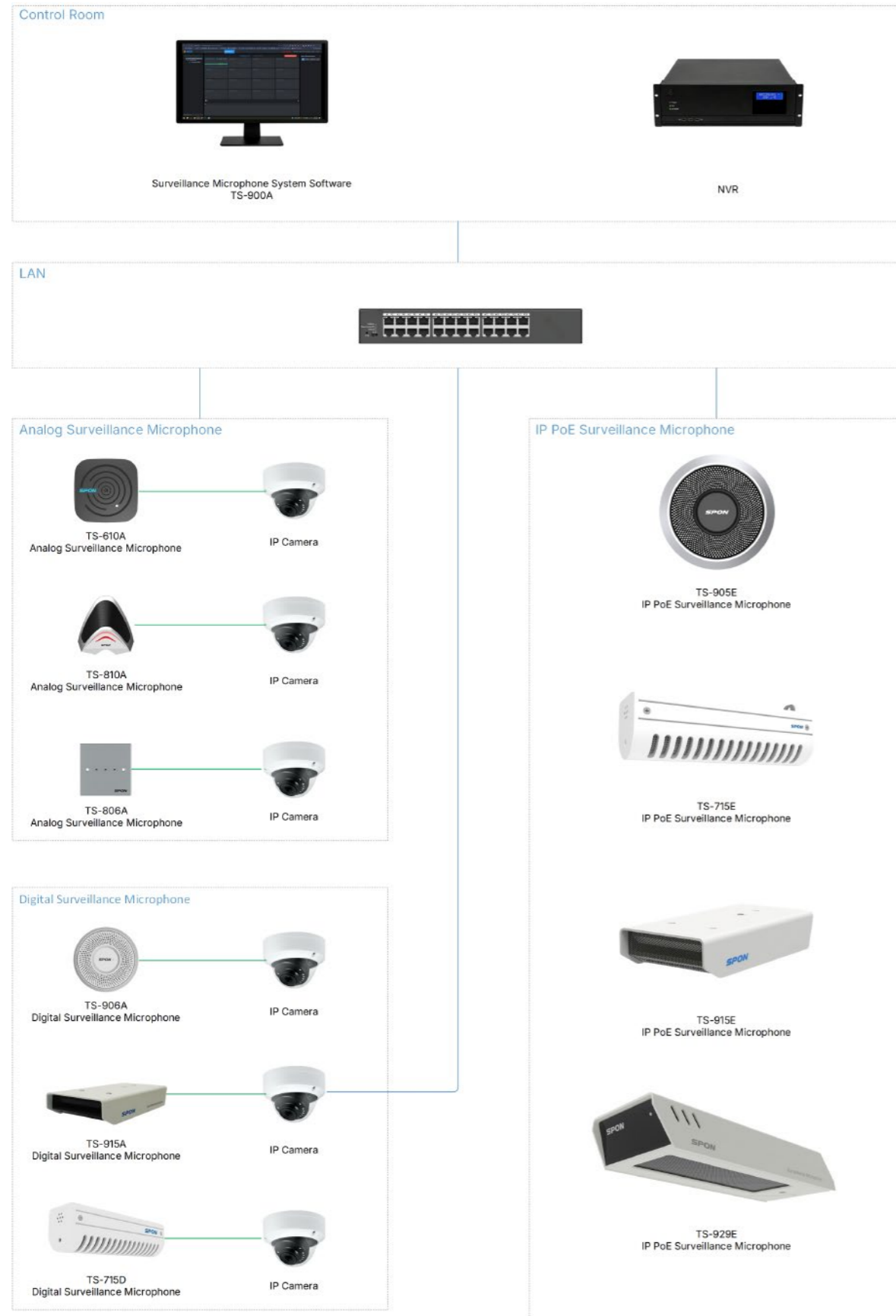
By effectively reducing noise, echo, distortion, and other acoustic challenges, the system significantly improves speech clarity and intelligibility. When integrated with IP video surveillance, it enables synchronized audio and video monitoring, ensuring critical situations can be both clearly seen and accurately heard.



Key Features

1. Professional acoustic structure and surface design improve audio pickup performance at the physical level.
2. Advanced noise reduction algorithms suppress both continuous and sudden noise, with adaptive adjustment to the environment.
3. Built-in echo cancellation minimizes reverberation and improves speech intelligibility.
4. Automatic gain control adapts to distance and volume changes, ensuring stable and clear audio.
5. Front-end parameters can be adjusted remotely via software without physical access.
6. Strong interference immunity supports stable audio transmission up to 3000 meters.
7. Automatically matches various camera audio inputs to prevent distortion or level mismatch.
8. Industrial-grade terminals enable fast, safe, and reliable installation and maintenance.
9. Supports synchronized IP audio and video capture for improved surveillance efficiency.
10. Centralized platform management supports status monitoring, fault alarms, remote upgrades, and audio data analysis.

System Diagram



System Functions

Platform Centralized Management	Provides centralized monitoring, fault alerts, remote upgrades, and parameter adjustment for all connected surveillance microphones, improving system performance and management efficiency.
Coordinated Monitoring	Multiple surveillance microphones work collaboratively to analyze and process ambient sound and noise, enhancing audio monitoring performance in complex environments.
Audio & Video Synchronization	Supports synchronized audio and video capture over IP networks, enabling flexible installation and easier system integration and maintenance.
Optimized Audio-Video Configuration	Audio and video sources can be flexibly configured in one-to-one or multi-channel modes, combining clear sound with visual evidence for accurate situational awareness.
Acoustic Parameter Configuration	Surveillance microphone performance can be remotely adjusted through acoustic parameter settings, without physical access, to match real-world acoustic conditions.
Intelligent Audio Analysis & Alerts	Enables intelligent audio analysis, including event detection, speech recognition, keyword search, and abnormal sound alerts, improving investigation efficiency and proactive prevention.
Keyword-Based Audio Detection & Alerts	Supports IP, digital, analog, and third-party surveillance microphones, enabling unified network-based and centralized management.
Audio & Video Playback	Supports audio-video linked zoom, allowing sound to focus on the zoomed area. After device registration and position setup, zoom operations can be performed directly in live view or playback.
Multi-Type Surveillance Microphone Support	Supports instant playback, channel-based playback, and event-based playback. Audio and video recordings can be quickly searched and reviewed by channel and time.
Audio & Video Zoom	Supports AI-based audio analysis with configurable alert levels. Multiple keywords can be defined, and when critical phrases such as "help," "emergency," or "alarm" are detected, the system triggers real-time pop-up alerts linked to IP cameras, assisting operators in rapid response and incident prevention.

SURVEILLANCE MIC »

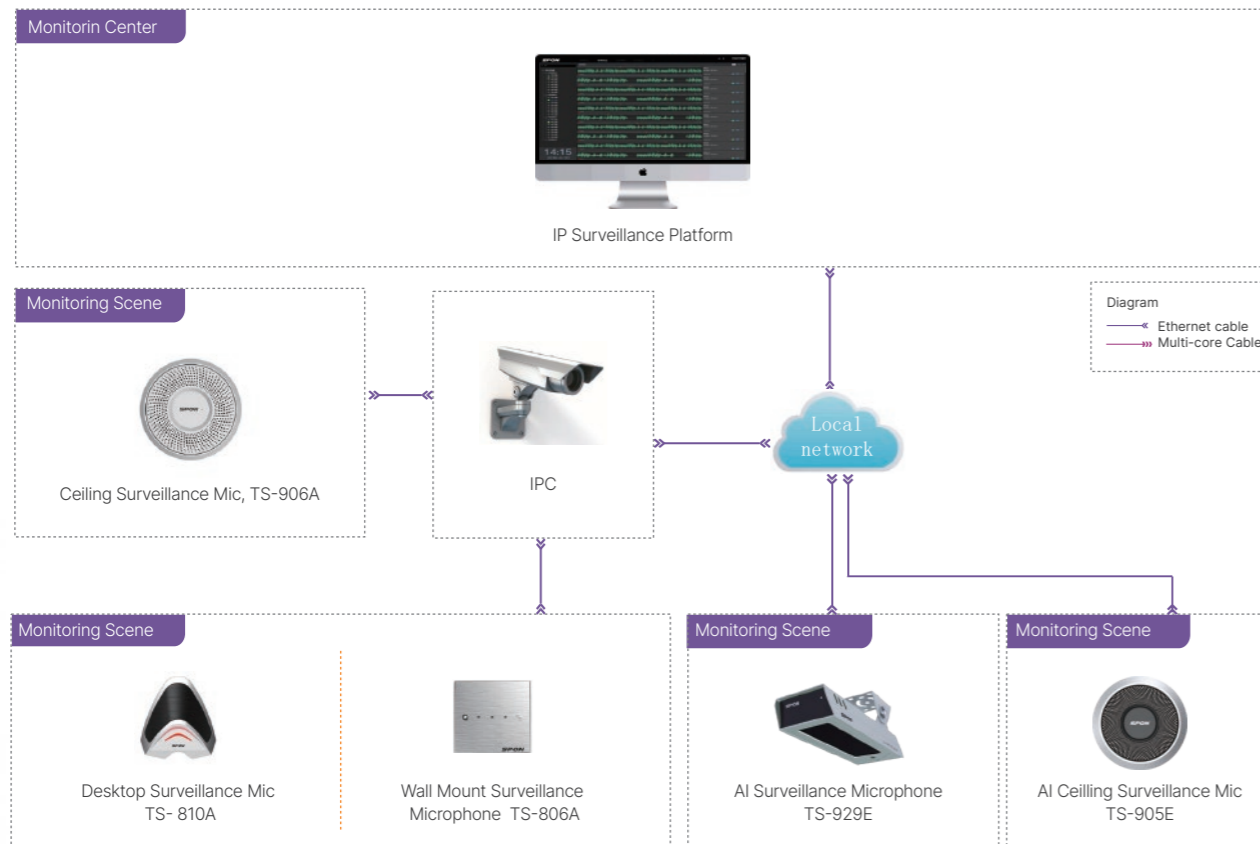
- Analog Surveillance Mic
- Digital Surveillance Mic
- Network Surveillance Mic

SURVEILLANCE MICROPHONE

Professional audio pickup system with high sensitivity, ensuring clear and accurate sound capture.



SURVEILLANCE MICROPHONE



SYSTEM FUNCTION

Centralized Platform Management	Monitors, alarms, updates, and adjusts settings for connected microphones.
Audio-Video Sync	Microphones and cameras synchronize audio-video data on networks for easy installation and maintenance.
Optimized Audio-Video Setup	Freely bind audio and video at surveillance sites, enabling both one-to-many and many-to-one bindings for optimized sync monitoring.
Sound Wave Configuration	Front-end microphones can be set up and maintained via sound waves, eliminating the need for physical contact or disassembly.
Voice-Activated Alerting	The system intelligently analyzes audio data, supporting voice recognition, keyword and abnormal sound alerts.
Supports Multiple Microphone Types	Integrates IP, digital, analog, and third-party microphones via system gateway for networked, centralized management.

SURVEILLANCE MICROPHONE PLATFORM TS-900A

RECOMMENDED USES

surveillance center



TECHNICAL PARAMETERS

Operating environment: Windows 10 / Windows Server system

KEY FEATURES

- Three-Tier Architecture:** The platform adopts a three-tier architecture for hierarchical management, allowing the addition of hosts. After addition, it automatically synchronizes host and channel parameter names and other information.
- Configuring and Modifying Parameters:** The platform configures and modifies basic parameters, names, and channel parameters of channels, and synchronizes them to devices.
- Real-Time Audio Monitoring:** It can preview real-time audio monitoring of each channel, displaying audio intensity using waveform graphics.
- IP Microphone Monitoring:** It can monitor the status of IP microphone gateways and digital microphones on each channel, triggering alarms in case of anomalies.
- Upgrade Support:** It supports upgrades for gateways, hosts, and digital microphones.
- Operational Logging:** The platform logs important operational information for subsequent maintenance and queries.
- Audio-Video Linkage Alarms:** It supports intelligent audio-video linkage alarms.
- Audio-Video Binding and Switching:** It allows audio-video binding and switching on the platform, supporting multi-to-one or one-to-many audio-video bindings.

COMPATIBLE DONGLE TS-900ES

KEY FEATURES

TS-900ES compatible dongle, authorizing registration for the microphone platform and enabling concurrent storage of 128 audio channels.

ANALOG SURVEILLANCE MICROPHONE TS-601A



RECOMMENDED USES

This ceiling surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection. It is suitable for indoor installation on ceilings.

KEY FEATURES

- **Corrosion Resistance:** The aluminium alloy construction of the shell provides excellent corrosion resistance.
- **Adjustable Sound Level:** Adjusts the microphone's sound level according to the on-site environment.
- **Easy Installation:** The hemisphere construction makes installation easier.
- **Power Protection:** The power polarity reversal protection ensures safer installation.
- **Noise-Canceling Technology:** The noise-canceling core effectively eliminates environmental noise, ensuring clarity and precision in the audio.

TECHNICAL PARAMETERS

Power Supply	DC:12V
Directionality	Allows for switch between Unidirectional and omnidirectional
Frequency Response	20HZ-20KHZ
Effective Area	5-100 m2
Operating Temperature	-20°C ~ 60°C
Output Resistance	600-1000Ω
SNR	80dB
Sensitivity	-45dB
Signal Output Amplitude	2Vrms(@1KHz)/ 5.6Vpp(@1KHz)

ANALOG SURVEILLANCE MICROPHONE TS-602A



RECOMMENDED USES

Indoor environment

KEY FEATURES

- **Sturdy and Durable Construction:** Made of engineering plastic structure, sturdy, durable, and aesthetically pleasing, preventing RF interference and suppressing noise from the surrounding environment.
- **Clear and Natural Sound Quality:** Uses professional recording interview microphone heads, with refined design and circuit processing technology for clear and natural sound quality.
- **Automatic Gain Control (AGC):** Built-in AGC circuit, automatically suppresses high-intensity sounds, reduces differences in sound levels between near and far distances, resulting in clearer and brighter playback audio.
- **Adjustable to High-Intensity Sounds:** Automatically adjusts to high-intensity sounds and sudden impact noises, reliably protecting the safety of backend audio monitoring equipment.
- **Wide Operating Temperature Range:** Operating temperature range from -35°C to 70°C, suitable for various harsh environments.
- **Reverse Polarity Protection:** Built-in reverse polarity protection for worry-free on-site installation wiring.
- **Professional Voice Processing:** Integrated with a professional voice processing chip, compatible with active speakers, computers, DVRs, network cameras, etc.
- **Advanced Audio Transmission Technology:** Uses advanced line audio transmission technology, capable of signal transmission distances up to 3000 meters (use shielded cables in electrostatic environments).

TECHNICAL PARAMETERS

Pickup Area	100 square meters
Frequency Response	20Hz ~ 20kHz
Sensitivity	-45dB
SNR	80dB (@1kHz)
Polar Pattern	Omnidirectional
Dynamic Range	90dB (@1kHz)
Max SPL	110dB (@1kHz)
Signal Output Amplitude	2Vrms (@1kHz) / 5.6Vpp (@1kHz)
Output Impedance	600 ~ 1000 ohms unbalanced
Protection Circuits	Reverse polarity protection, ESD protection
Connection Method	Three-wire output (Red: Power Positive, White: Audio Positive, Black: Common Ground)
Signal Transmission Distance	3000 meters (use shielded cable in electromagnetic complex environments)
Power Supply Voltage	DC 12V
Operating Temperature	-35°C to 70°C
Enclosure Material	Engineering plastic
Dimensions	Φ70*18.3 (mm)
Mounting Method	Ceiling mount
Compliance Standards	Tested by the Ministry of Public Security's Safety and Police Electronic Products Quality Inspection Center

ANALOG SURVEILLANCE MICROPHONE TS-610A

RECOMMENDED USES

Desktop



KEY FEATURES

- **Clear and Natural Sound:** Advanced dynamic condenser mic, providing clear and natural sound.
- **Power Polarity Reverse Protection:** Ensures proper operation even if the power polarity is reversed.
- **Noise Reduction:** Integrated noise reduction chip to eliminate ambient noise, effectively preventing distortion and signal attenuation, ensuring optimal output intensity.
- **High Fidelity and Sensitivity:** Delivers high fidelity, high sensitivity, and low noise for superior audio quality.
- **Compact and Lightweight Design:** Easy and simple installation with a compact, space-saving design.

TECHNICAL PARAMETERS

Power	DC12V
Directionality	Omnidirectional
Frequency Response	20Hz to 20kHz
Signal Transmission Distance	3000 meters (using twisted pair or shielded cable)
Microphone Capsule	Advanced dynamic condenser microphone
Protection Circuits	Polarity protection, misconnection protection, lightning protection, ESD protection
Operating Temperature	-20°C to 65°C
Dimensions	64.4*64.4*10 (mm)

DESKTOP SURVEILLANCE MICROPHONE TS-810A

RECOMMENDED USES

Desktop or countertop environment



KEY FEATURES

- **Sleek, High-Tech Design:** The metal structure with sandblasted and oxidized finishes offers a sleek appearance.
- **Clear and Natural Sound:** Equipped with a professional microphone for clear sound and advanced circuit processing.
- **Noise Reduction:** AEC technology and adaptive noise reduction minimize background noise for clear voice reproduction.
- **Adjustable Pickup:** Adjustable pickup distance and volume adapt to various environments for optimal listening.
- **Automatic Gain Control (AGC):** Normalizes sound levels and reduces interference for clearer playback.
- **High-Intensity Sound Adaptability:** Adapts to high-intensity sounds, protecting backend audio equipment.
- **Modern Design:** The patented design blends modern fashion with high-tech elements.
- **Wide Temperature Range:** Operates in temperatures from -35°C to 70°C, suitable for harsh environments.
- **Polarity Protection:** Features reverse polarity protection for hassle-free installation.
- **Compatibility:** Compatible with active speakers, computers, DVRs, and network cameras.
- **Long Distance Transmission:** Advanced line audio transmission supports distances up to 3000 meters (use shielded cables in complex environments).

TECHNICAL PARAMETERS

Pickup Range	1-3 meters (adjustable)
Frequency Response	20Hz to 20kHz
Sensitivity	-45dB
SNR	85dB (@1kHz)
Directivity	Directional
Dynamic Range	95dB (@1kHz)
Max SPL	120dB (@1kHz)
Signal Output Amplitude	2Vrms (@1kHz) / 5.6Vpp (@1kHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuits	Power polarity reverse protection, ESD protection
Connection Method	Supports three-wire and four-wire audio isolation output
Signal Transmission Distance	3000 meters (use shielded cable in electromagnetic complex environments)
Power Supply Voltage	DC 12V
Operating Temperature	-35°C to 70°C
Enclosure Material	Aluminum alloy, metal mesh
Dimensions	105*100*25 (mm)
Mounting Method	Desktop installation

ANALOG SURVEILLANCE MICROPHONE TS-808A



RECOMMENDED USES

Embedded installation environment for intelligent bank counters.

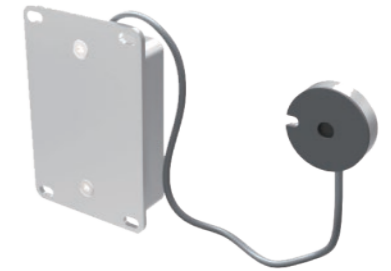
KEY FEATURES

- **Durable Construction:** Fully aluminum alloy construction, waterproof and explosion-proof, treated with sandblasting and oxidation for corrosion resistance and a metallic texture.
- **Clear Sound:** Features a professional recording microphone with advanced design and circuit processing for clear, natural sound.
- **Noise Reduction:** AEC technology and multi-level adaptive noise reduction effectively minimize background and environmental noise for high clarity.
- **Directional Design:** Built-in AGC micro-processing circuit and strong directional design suppress environmental noise interference.
- **High-Intensity Sound Adaptability:** Automatically adjusts to high-intensity and impact noises to protect audio equipment.
- **Wide Temperature Range:** Operates within -35°C to 70°C, suitable for harsh environments.
- **Polarity Protection:** Includes reverse polarity protection for easy installation.
- **Compatibility:** Compatible with active speakers, computers, DVRs, and network cameras.
- **Long Distance Transmission:** Uses advanced line audio technology for signal transmission distances up to 3000 meters (use shielded cables in complex environments).

TECHNICAL PARAMETERS

Pickup Range	1-3 meters
Frequency Response	20Hz to 20KHz
Sensitivity	-45dB
SNR	80dB (@1KHz)
Directivity	Directional
Dynamic Range	90dB (@1KHz)
Max SPL	110dB (@1KHz)
Signal Output Amplitude	2Vrms (@1KHz) / 5.6Vpp (@1KHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuit	Power polarity reverse protection, ESD protection
Connection Method	Three-wire output (red for power positive, white for audio positive, black for common ground)
Signal Transmission Distance	3000 meters (use shielded cable in electromagnetic complex environments)
Power Supply Voltage	DC 12V
Operating Temperature	-35°C to 70°C
Enclosure Material	Aluminum alloy
Dimensions	φ30x38 (mm)
Mounting Method	Flush mount
Compliance Standards	Tested and certified by the Ministry of Public Security's Safety and Police Electronic Products Quality Testing Center

ANALOG SURVEILLANCE MICROPHONE TS-809A



RECOMMENDED USES

Enclosed environments such as server cabinets.

KEY FEATURES

- **Durable Construction:** Features a durable aluminum alloy body with a corrosion-resistant sandblasted and oxidized finish.
- **Space-Saving Design:** Modular design allows for flexible, space-saving installation with high concealment.
- **Clear Sound:** Utilizes a professional microphone and advanced circuitry for clear, natural sound.
- **Noise Reduction:** Advanced AEC and multi-level noise reduction technologies minimize background noise and enhance clarity.
- **Adjustable Controls:** Manual controls for pickup distance and volume adapt to various environments.
- **Automatic Gain Control (AGC):** AGC manages high-intensity sounds and volume differences, with strong directional design to reduce noise interference.
- **Protection:** Protects backend equipment from high-intensity sounds and sudden impacts.
- **Wide Operating Temperature Range:** Operates reliably in temperatures from -35°C to 70°C.
- **Polarity Protection:** Includes reverse polarity protection for safe installation.
- **Compatibility:** Compatible with active speakers, computers, DVRs, and network cameras via a professional voice processing chip.
- **Long-Distance Transmission:** Supports audio transmission up to 3000 meters with shielded cables.

TECHNICAL PARAMETERS

Pickup Range	1-3 meters (adjustable)
Frequency Response	20Hz to 20KHz
Sensitivity	-40dB
SNR	85dB (@1KHz)
Directivity	Directional
Dynamic Range	95dB (@1KHz)
Max SPL	120dB (@1KHz)
Signal Output Level	2Vrms (@1KHz) / 5.6Vpp (@1KHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuits	Power supply reverse polarity protection, ESD protection
Connection Method	Supports three-wire and four-wire audio isolation outputs
Signal Transmission Distance	3000 meters (use shielded cables in complex electromagnetic environments)
Power Supply Voltage	DC 12V
Operating Temperature Range	-35°C to 70°C
Housing Material	Aluminum alloy
Dimensions	Main unit 75*49.5*14.5(mm), microphone head φ25*8 (mm)
Installation Method	Embedded installation
Compliance Standards	Tested by the Ministry of Public Security's Safety and Police Electronic Products Quality Inspection Center

ANALOG SURVEILLANCE MICROPHONE TS-806A



RECOMMENDED USES

Wall Embedded installation.

KEY FEATURES

- **Durable Structure:** Ultra-thin aluminum alloy anti-riot structure, treated with brushed oxidation surface process, corrosion-resistant with a strong metallic texture.
- **Clear Sound:** Uses professional interview recording microphone head, featuring lean design and circuit processing technology for clear and natural sound quality.
- **Noise Reduction:** AEC tail cancellation technology combined with multi-level adaptive noise reduction capability effectively reduces ambient noise and background noise, ensuring high fidelity voice clarity.
- **Adjustable:** Manual adjustment of microphone distance and volume according to the site environment, flexible adaptation to various field conditions to achieve optimal monitoring effects.
- **Automatic Gain Control (AGC):** Built-in automatic gain control (AGC) circuit automatically suppresses high-intensity sound and eliminates sound differences caused by distance, resulting in clear and bright playback sound.
- **Protection:** Automatically adjusts to protect backend audio monitoring equipment from high-intensity sound and transient impact noise, ensuring reliable operation.
- **Standardized Design:** Standardized design based on 86-type box size and structure, suitable for various on-site installation and usage requirements, facilitating convenient installation and maintenance.
- **Polarity Protection:** Power polarity reverse protection ensures worry-free on-site installation wiring.
- **Wide Operating Temperature Range:** Operates in a temperature range of -35°C to 70°C, suitable for various harsh environments.
- **Compatibility:** Integrated professional voice processing chip, compatible with active speakers, computers, DVRs, network cameras, and other devices.
- **Long-Distance Transmission:** Advanced line audio transmission technology allows signal transmission distances up to 3000 meters (use shielded cables in complex electromagnetic environments).

TECHNICAL PARAMETERS

Pickup Area	5-10 square meters (adjustable)
Frequency Response	20Hz to 20KHz
Sensitivity	-40dB
SNR	85dB (@1KHz)
Directivity	Omnidirectional
Dynamic Range	95dB (@1KHz)
Max SPL	120dB (@1KHz)
Signal Output Amplitude	2Vrms (@1KHz) / 5.6Vpp (@1KHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuits	Power polarity reverse protection, ESD protection
Connection Method	Supports three-wire, four-wire audio isolation output
Signal Transmission Distance	3000 meters (use shielded cables in complex electromagnetic environments)
Power Supply Voltage	DC 12V

DIGITAL SURVEILLANCE MICROPHONE TS-917A



RECOMMENDED USES

Indoor focused directional audio pickup environment.

KEY FEATURES

- **Durable Metal Structure:** Metal structure with directional adjustment design, treated with sandblasting oxidation for corrosion resistance and a strong metallic texture.
- **Noise Reduction:** Utilizes proprietary noise reduction algorithms, featuring highly directional audio capture capabilities and adaptive noise reduction to effectively eliminate environmental interference and focus on capturing on-site voices.
- **High-Speed DSP Processing:** High-speed speech DSP processing unit combined with AEC tail cancellation technology ensures fast and stable response of the microphone, achieving high clarity and fidelity in voice reproduction.
- **Self-Diagnostics:** The mic includes self-diagnostic functionality and supports configuration of relevant parameters via external sound waves.
- **Automatic Gain Control (AGC):** Built-in automatic gain control (AGC) circuit automatically suppresses high-intensity sounds and equalizes sound differences from varying distances, enhancing playback clarity.
- **Polarity Protection:** Provides protection against reverse polarity during installation, ensuring worry-free wiring on site.
- **Audio Isolation Support:** Supports analog audio isolation output with adjustable output amplitude.
- **Device Compatibility:** Integrates professional voice processing chips, compatible with active speakers, computers, DVRs, network cameras, and other devices.
- **Long-Distance Transmission:** Features advanced line-level audio transmission technology, capable of transmitting signals up to 3000 meters (use shielded cables in complex electromagnetic environments).

TECHNICAL PARAMETERS

Pickup Distance	1-15 meters (adjustable)
Frequency Response	20Hz to 20kHz
Sensitivity	-35dB
SNR	85dB (@1kHz)
Directivity	Super-directional (adjustable angle from 20° to 120°)
Dynamic Range	95dB (@1kHz)
Max SPL	120dB (@1kHz)
Signal Output Level	1Vrms (@1kHz) / 2.8Vpp (@1kHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuit	Power polarity reversal protection, ESD protection
Connection Method	Supports standard RJ45, three-wire/four-wire audio isolation output, single/dual channel output
Signal Transmission Distance	3000 meters (use shielded cable in complex electromagnetic environments)
Power Supply Voltage	DC 10V-30V / AC 10V-30V
Operating Temperature	-20°C to 60°C
Housing Material	Aluminum alloy
Dimensions	135*71*28 mm
Installation Method	Bracket installation
Compliance Standard	Tested by the Ministry of Public Security's Safety and Police Electronic Products Quality Testing Center

DIGITAL SURVEILLANCE MICROPHONE TS-906A

RECOMMENDED USES

Ceiling-mounted installation



KEY FEATURES

- **Anti-Loosening Installation Structure:** Metal anti-loosening installation structure, processed with sandblasting and oxidation for an elegant and dignified appearance.
- **Professional Microphone Head:** Equipped with professional interview recording microphone head, refined design, and circuit processing technology for clear and natural sound quality.
- **Noise Reduction Algorithms:** Utilizes proprietary noise reduction algorithms with multi-level adaptive noise reduction capability to effectively reduce ambient and background noise, adjustable for different scenarios.
- **High-Speed DSP Processing:** High-speed speech DSP processing unit combined with AEC (Acoustic Echo Cancellation) technology ensures rapid and smooth response of the microphone, achieving high fidelity voice reproduction.
- **Self-Check Function:** Supports self-check function; automatically reports microphone faults to enhance management and maintenance efficiency without the need for onsite troubleshooting.
- **Automatic Gain Control (AGC):** Built-in automatic gain control (AGC) circuit suppresses high-intensity sounds, eliminates differences in sound levels due to distance, ensuring clear and bright playback sound.
- **Recording Function:** Features dual recording function for audio and video synchronization, achieving high fidelity reproduction of live scenes.
- **Vibration and Detachment Protection:** Concealed anti-loosening installation structure adapts to various onsite environments, ensuring both convenient maintenance and secure installation to prevent vibration and detachment.
- **Polarity and Lightning Protection:** Provides protection against reverse polarity and lightning strikes, ensuring worry-free onsite wiring during installation.
- **Device Compatibility:** Integrated with professional voice processing chip, compatible with active speakers, computers, DVRs, network cameras, and other devices.
- **Long-Distance Transmission:** Features robust audio transmission technology, capable of transmitting signals up to 3000 meters (use shielded cables in complex electromagnetic environments).

TECHNICAL PARAMETERS

Pickup Range	5-150 square meters (adjustable)
Microphone Head	Gold-plated condenser MIC
Directivity	Omnidirectional
Frequency Response	20Hz to 20kHz
Sensitivity	-35dB
Protection Circuit	Power polarity protection
Power Supply Voltage	DC 12V
Dimensions	φ79x22 (mm)

DIGITAL SURVEILLANCE MICROPHONE TS-915A

RECOMMENDED USES

suitable for prison, safe city, scenic area, city park and other indoor or outdoor application scenarios.



KEY FEATURES

- **Durable Construction:** Sturdy all-metal shell with sandblasting oxidation surface treatment, ensuring strong adaptability to harsh outdoor environments.
- **Waterproof Structure:** Ingress protection grade: IP67.
- **High-Fidelity Microphone:** Adopts high-end directional gold-plated condenser microphone, ensuring high fidelity, high sensitivity, and low noise audio collection.
- **Noise Reduction:** Self-developed noise reduction algorithm with self-adaptive noise reduction capability.
- **Advanced DSP Processing:** Built-in industry-leading digital signal processor and AEC (Automatic Echo Cancellation) technology, ensuring high fidelity audio transmission.
- **Built-In Protection:** Lightning protection and reverse polarity protection, ensuring steady operation of the device.
- **Self-Checking Functionality:** Supports self-checking in 5 seconds after the device is powered on (one beep indicating normal operation, three beeps indicating abnormal conditions).
- **Power Supply:** Supporting centralized power supply, powered by IP camera or DC power supply (DC 10V-30V).
- **Flexible Mounting Options:** Equipped with mounting bracket for different positions, including smart poles, walls, or suspended ceilings.

CHNICAL PARAMETERS

Power Supply	AC 10V-30V ; DC 10V-30V
Directivity	Directional
S/N	85dB
Frequency Response	20Hz-20KHz
Sensitivity	-35dB
Voice Pick-up Range	1-20m (Adjustable)
Output Impedance	600-1000Ω Unbalanced
Protection Circuit	Lightning Protection / Reverse Polarity Protection
Working Temperature	-20°C-60°C
Dimensions & Weight	135×71.2×28.2mm, 0.22kg

IP POE SURVEILLANCE MICROPHONE TS-905E



RECOMMENDED USES

SPON IP PoE Surveillance Microphone TS-905E is suitable for Financial, Judicial, Public Security, Safe City.

KEY FEATURES

- **Metal Structure:** Metal structure with a diamond net cover and an oxidized aluminum alloy shell, offering corrosion resistance and easy installation.
- **Adaptive Noise Reduction:** Adaptive dynamic noise reduction with a built-in high-speed DSP for strong output.
- **High Sensitivity:** High sensitivity, full directional capacitive microphone for omnidirectional sound collection, ensuring clear and natural sound.
- **Automatic Gain Control (AGC):** Built-in automatic AGC for balanced sound across distances.
- **Ultra-Long Sound Range:** Ultra-long sound collecting range with strong interference ability and convenient wiring.
- **Customizable Alarm Output:** Customizable alarm output interface that triggers based on environmental noise decibel levels.
- **Dual Power Supply:** Dual power supply options: power adapter and PoE.
- **Remote Management:** Supports remote management and upgrades for continual improvement.

TECHNICAL PARAMETERS

Power Supply	DC 12V , PoE (IEEE 802.3at/af)
Sound Pickup Range	5-180 m ² (Adjustable)
Directional Property	Omnidirectional
Signal Output Amplitude	≤1Vrms
Sensitivity	35dB
SNR	90dB(@1KHz)
Frequency Response	20Hz~20KHz
Network I/F	10BASE-T/100BASE-TX RJ45
Network Protocol	HTTP,TCP/IP,UDP,ARP,ICMP,IGMP
Configuration Method	Web Interface
Mounting Method	Ceiling mount
Installation Environment	Dry Indoor Environment
Operating Temperature	20°C~+60°C
Shell Material	Aluminium alloy
Product Dimensions	φ85*18 (mm)

NETWORK INDOOR DIRECTIONAL SURVEILLANCE MICROPHONE TS-715E



RECOMMENDED USES

This indoor surveillance microphone is suitable for use in prisons, public security, subway platform and other occasions for sound collection.

KEY FEATURES

- **Metal Construction:** The metal construction of the shell provides excellent corrosion resistance.
- **High-Speed Digital Processor:** Built-in high-speed digital signal processor to ensure output strength.
- **Automatic Level Adjustment:** Adjusts the microphone's sound level according to the on-site environment.
- **High-Sensitivity Microphone:** The device is equipped with a built-in high-sensitivity microphone that records natural sound with precision and clarity.
- **Long-Distance Transmission:** It supports long-distance transmission and is highly resistant to interference.
- **Dual Power Supply:** Supports both power adapter, DC power, and PoE supply.

TECHNICAL PARAMETERS

Power Supply:	DC:12V, AC:24V; POE IEEE802.3AT/AF
Directional Property:	Omnidirectional/Directional adjustable
Power consumption:	Less than 1W
Frequency Response:	20HZ-20KHZ
Dimension:	113*42*37mm

OUTDOOR SURVEILLANCE MICROPHONE TS-915E

RECOMMENDED USES

Supports installation in various environments, including walls, ceilings, surveillance poles, and metal columns.



KEY FEATURES

- **Power Polarity Protection:** Includes power polarity protection for easy wiring installation.
- **Audio Isolation:** Supports analog audio isolation and network output with no delay in video integration.
- **Durable Metal Structure:** Metal structure with adjustable direction, sandblasted and corrosion-resistant with a strong metallic texture.
- **Noise Reduction:** Proprietary noise reduction algorithms with multi-level adaptive modes to minimize background and environmental noise.
- **High-Speed DSP with AEC:** High-speed DSP unit with AEC technology for fast, stable microphone response and clear voice fidelity.
- **AGC Circuit:** Built-in AGC circuit automatically suppresses loud sounds and balances audio levels for clearer playback.
- **Flexible Power Options:** Supports direct network connection, PoE, centralized, camera, or independent power supply options.
- **Backend Web Configuration:** Backend web configuration for microphone settings, remote management, and system updates.
- **Network Compatibility:** Integrated voice processing chip compatible with various equipment; supports signal transmission up to 3000 meters with shielded cables.

TECHNICAL PARAMETERS

Pickup Distance	1-20 meters (adjustable)
Frequency Response	20Hz to 20kHz
Sensitivity	-35dB
SNR	90dB (@1kHz)
Waterproof Rating	IP67
Directivity	Directional
Dynamic Range	100dB (@1kHz)
Max SPL	120dB (@1kHz)
Signal Output Amplitude	1Vrms (@1kHz) / 2.8Vpp (@1kHz)
Output Impedance	600-1000 ohms, unbalanced
Protection Circuit	Power polarity reverse protection, ESD protection
Connection Method	Supports standard RJ45, three-wire, four-wire audio isolation output
Signal Transmission Distance	3000 meters (use shielded cables in electromagnetic complex environments)
Network Communication Rate	10M/100M adaptive
Power Supply Voltage	POE IEEE 802.3at/af, DC 10V-30V, AC 10V-30V
Operating Temperature	-20°C to 60°C
Housing Material	Aluminum alloy
Dimensions	135*71*28 (mm)
Installation Method	Bracket installation

OUTDOOR DIRECTIONAL SURVEILLANCE MICROPHONE TS-929E

RECOMMENDED USES

This surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection. It can be installed outdoors on surveillance poles, walls, and ceilings.



KEY FEATURES

- **Durable Metal Construction:** The shell is made of aluminum alloy, which has waterproof, dust-proof, and corrosion resistance.
- **Noise Reduction:** Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- **AGC Technology:** Built-in AGC eliminates differences in sound levels from different distances, making the sound amplitude more balanced.
- **Professional Audio Processor:** Integrated with a professional SMT audio processor that can directly drive various devices such as active speakers, DVRs, and network cameras.
- **Protection Features:** It is equipped with built-in modules for lightning protection, power polarity reversal protection, and ESD protection, ensuring stable and secure operation.
- **Environmental Adaptation:** Adjusts the microphone's sound level according to the on-site environment.
- **Sound Detection and Alerts:** The device is capable of detecting specific keywords or abnormal sounds, and can send alerts and upload the recordings to the server.
- **Flexible Power Options:** Supports both power adapter, DC power, and PoE supply.

TECHNICAL PARAMETERS

Power Supply	DC:11V-30V, AC:24V; POE IEEE802.3AT/AF
Directionality	Directional
Frequency Response	20HZ-20KHZ
SNR	90dB
Operating Temperature	-20°C ~ +60°C
Dimension	188*75*32mm

GLOSSARY

TCP/IP: (Transmission Control Protocol/Internet Protocol) Network communication protocol is the most basic Internet protocol and the basis of international Internet. It's composed by network layer IP protocol and transport layer TCP protocol. TCP/IP defines how electronic devices connect to the Internet, and the data transmission standard.

LAN: (Local Area Network, LAN) It refers to a computer group composed by multiple computers in a certain area. It's generally within a thousands of meters. LAN can achieve document management, software application sharing, printer sharing, work group scheduling, e-mail and fax communication...these functions.

WAN: (Wide Area Network, WAN) It usually crosses the big physics range, the coverage range from a few tens of kilometers to thousands of kilometers. It can connect multiple cities or countries, or across several continents and provide long-distance communication to form the international remote internet.

VPN: (Virtual Private Network, VPN) It can be understood as a virtual internal exclusive communication line in an enterprise. It can use the special encrypted communication protocol to establish an exclusive communication line for multiple enterprises in different places which have connected to Internet.

UNICAST: It's a point-to-point connection between the client and server. "Point-to-point" means each client receives the remote stream from server. The server will send unicast stream only when the client requested.

MULTICAST: To realize point-to-multipoint connection between the sender and each receiver. If a sender transmits the same data to multiple receivers simultaneously, it just need copy one same data packet. It improves data transfer efficiency and reduces the backbone network jam possibility.

SIP:(Session Initiation Protocol) It's multimedia communication protocol and established by the IETF (Internet Engineering Task Force). It is a text-based application-layer control protocol, it's used for creating, modifying and releasing one or multiple participants conversation.

H.264: It's the 10th part of MPEG-4, that is the highly compressed digital video codec standard suggested by JVT (JVT, Joint Video Team) which is composed by ITU-T video coding experts group(VCEG) and ISO/IEC moving pictures experts group (MPEG).

ONVIF: It's a global video open interface standard, it's an international open standard network interface development forum of network video products which is established by AXIS united BOSCH and SONY. It is committed to use public and openness principle. The ONVIF specification will ensure the intercommunity between different video products suppliers.

Full Duplex: It's a communication transmission term. Communication allows data transmit in two directions simultaneously, it is equivalent to two simplex communication mode combination. Full duplex refers to the data transmission in two directions simultaneously(A→B and B→A). Refers to A→B, and B→A simultaneously, it is instantaneous synchronous.

Half Duplex: It refers to one action only within a period of time. Early walkie-talkie and HUB devices are half duplex based.

PTT: PTT is transmit button, press the PTT to talking and loosen the PTT to receiving. (PTT=Push to talk)

Frequency Response: It is also called response curve, it's the curve which describes gain variation with the changing of frequency. Any sound device or carrier(a device to record sound signal) all has its frequency response curve. The ideal frequency response curve should be flat, it does not produce distortion after the sound signal passed.

Audio sampling: Convert the sound wave convert into a series of binary data and reappear the original voice, the A/D converter use tens thousands of times per second rate for audio sampling, every sampling recorded the original analog sound waves status in the moment, that is sample. Sampling numbers per second is sampling frequency or rate, the unit is HZ(Hertz).

Alarm in/Alarm out: It is also On-off in/out, that is contactor, there have 2 states between the contactors, it's connect or disconnect. There are 2 kinds of switching signal: Active & passive, active switching signal will drive voltage when two contactors are connected.

POE: (Power Over Ethernet) It it based on Ethernet Cat.5 wiring to transmit the data signal to IP terminals(eg:IP phone, IP camera...etc), and it also can offer the DC power to device at the same time.

P66/IP65/IP54: IP protection degree, the 1st number means the dustproof capability, No.6 means no dust inside; the 2nd number means the waterproof capability, No.6 means no harmful effect for spraying the water to the shell everywhere, No.5 degree is weaker than No.6.

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