

IP PA SYSTEM

# NetLink Series

Ideal For Schools, Hotels, Factories, And Other Medium To Large-Scale Projects.

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Versatile Audio Source Support

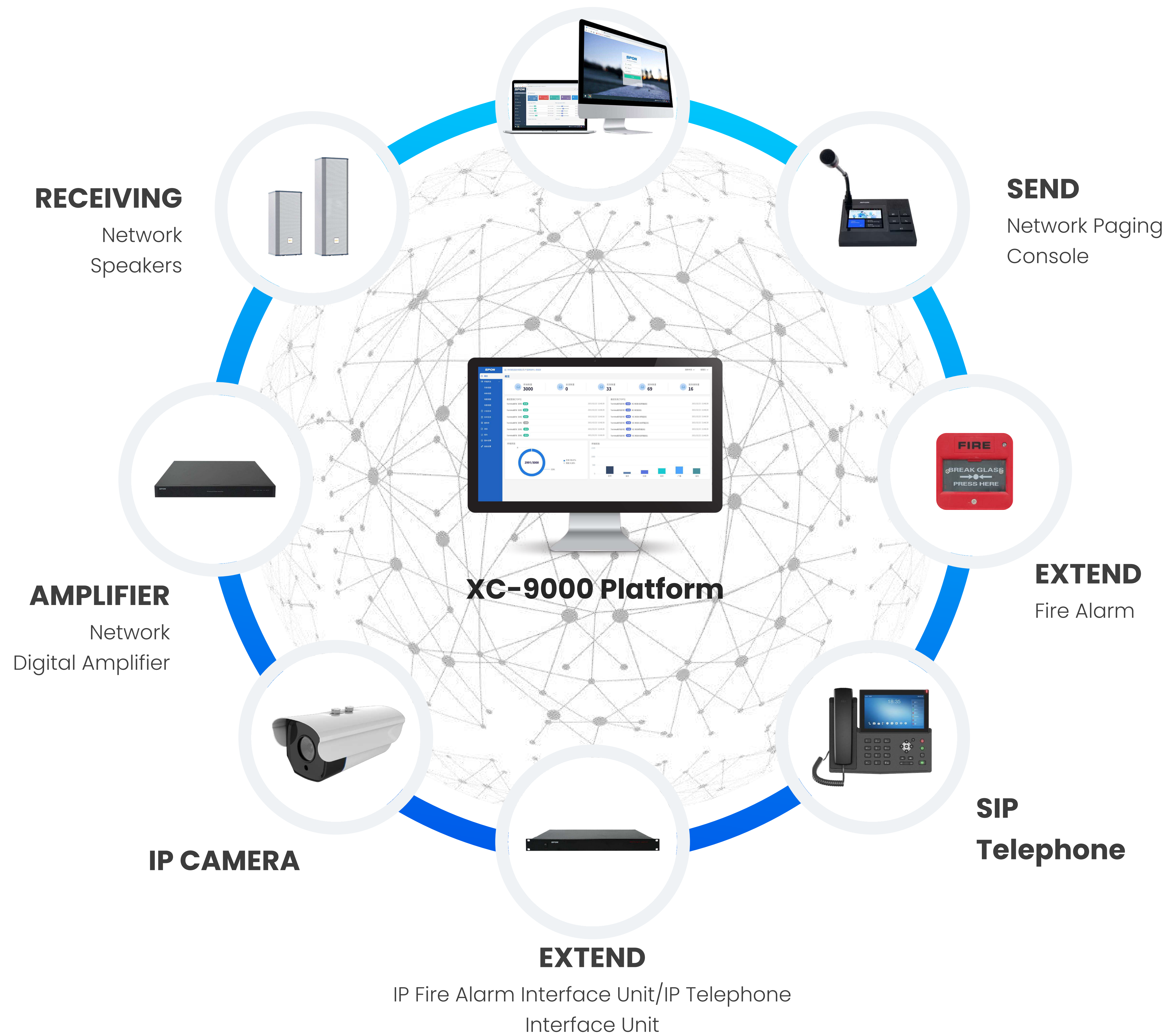


Flexible PA System Design



Comprehensive Audio Management

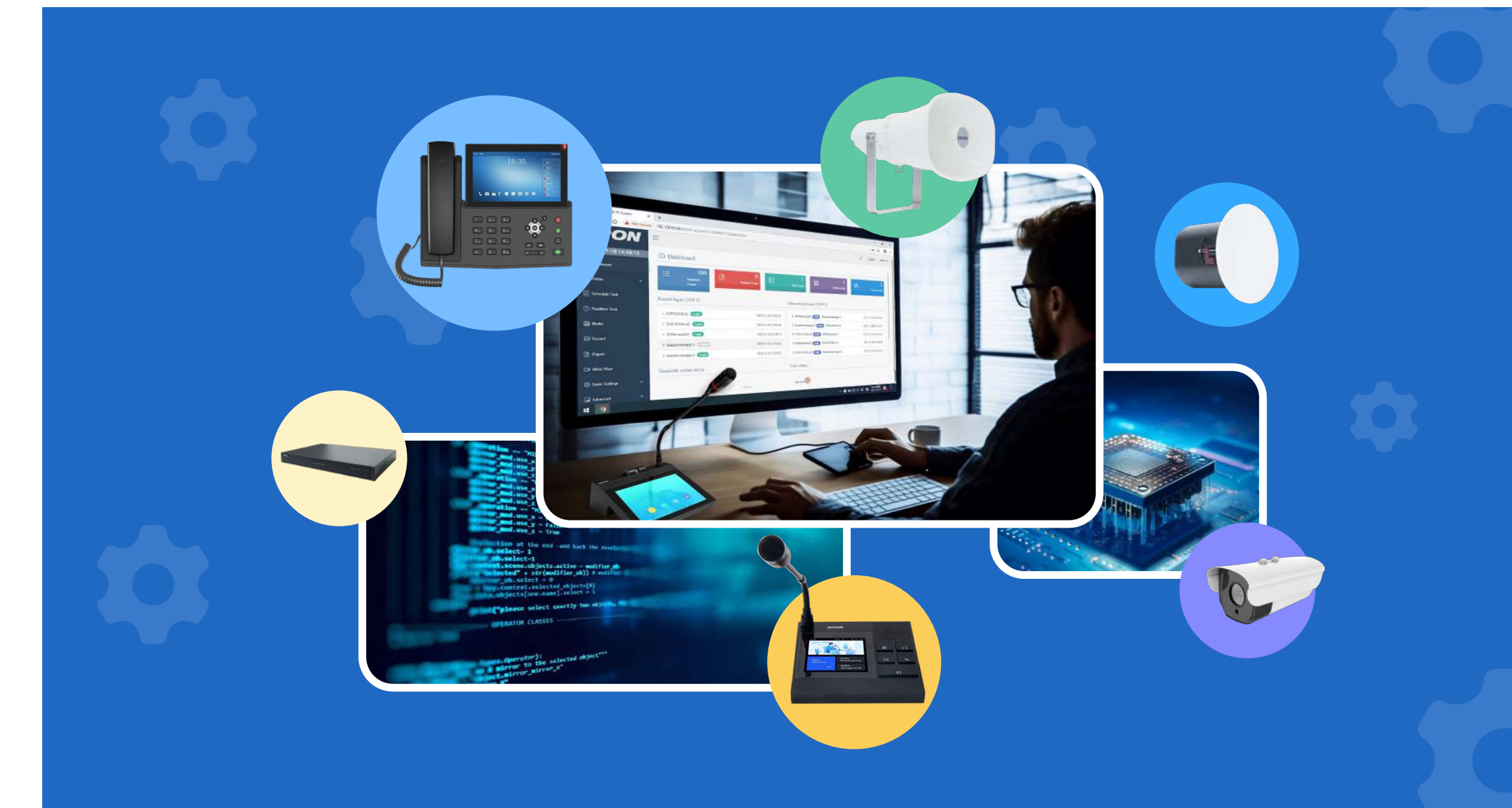
# System Deployment Architecture And Overview



The XC-9000 system is [a fully digital network PA system](#) based on the TCP/IP protocol. By leveraging the TCP/IP protocol, the system ensures the correct and efficient transmission of all data packets. Not only can it utilize existing computer networks, such as LANs or the Internet, to transmit broadcast signals, but also it can also be deployed on a dedicated broadcasting network.

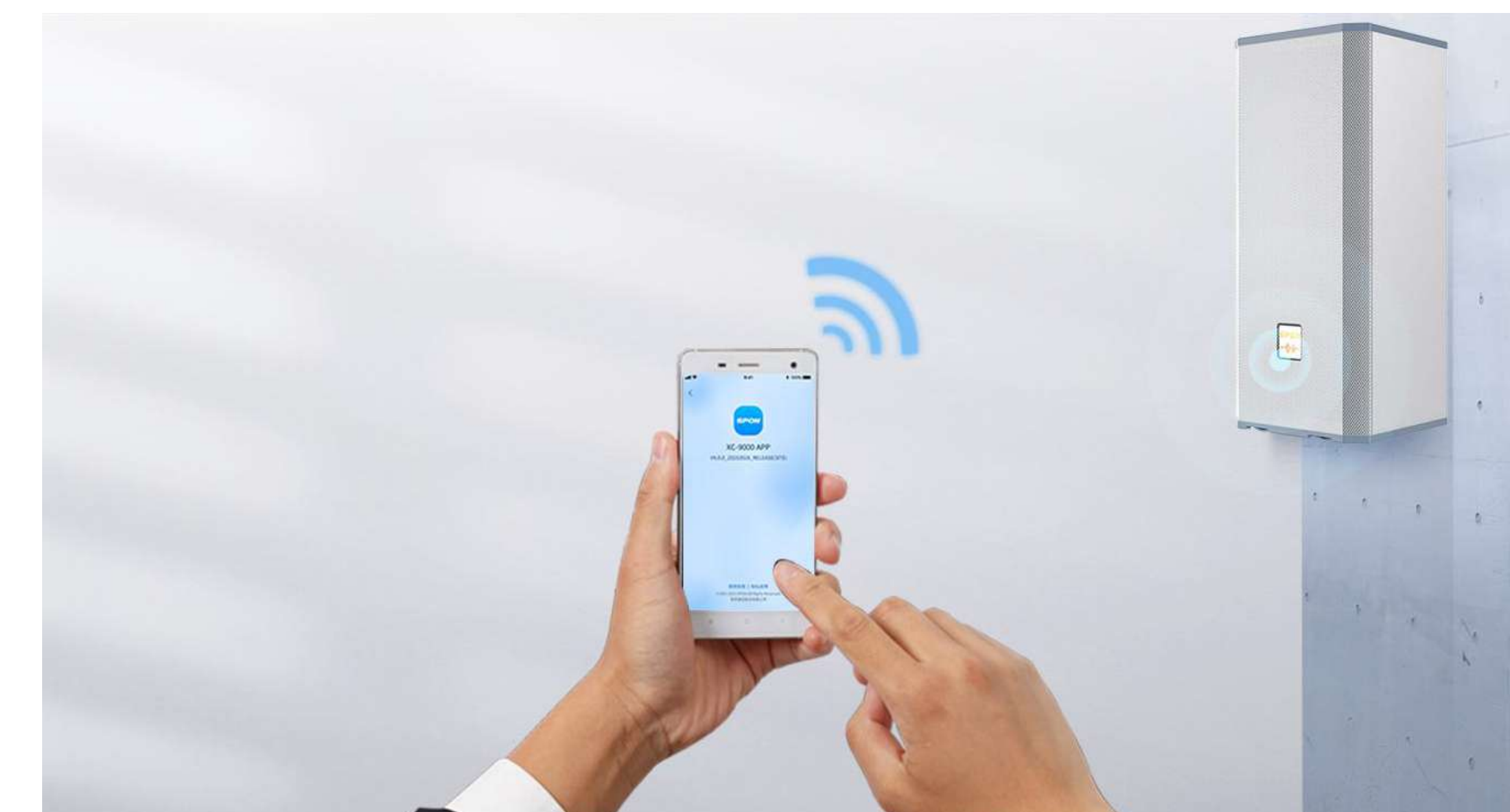
The server is highly powerful. Even when connected with a large number of terminals, it can simultaneously handle the same task smoothly. A single-server system can support up to [3000 terminals and allows for server cascading](#). There are no limitations on the concurrent broadcast channels, achieving true full digital broadcasting.

## ▲ Flexible PA System Design

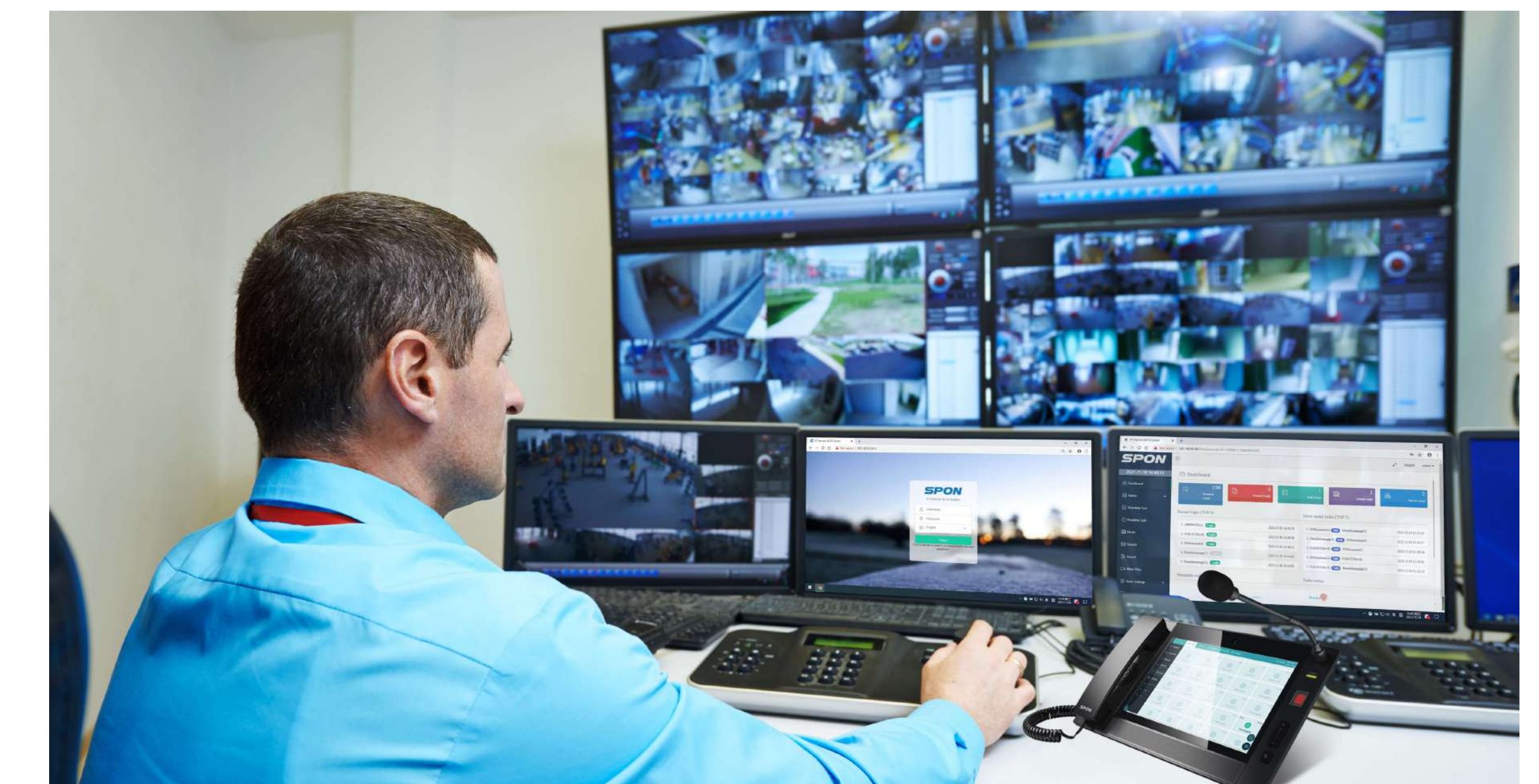


The PA system architecture is simple, including service management software, network microphones, network amplifiers, network speakers, and other devices.

All equipment is connected via the TCP/IP intranet protocol, allowing for flexible configuration and easy management of the system, with free control over broadcast content, network devices, and regions through the network.



## ▲ Remote Fault Detection and Monitoring



The system can perform automatic fault detection, capable of monitoring real-time status of devices and displaying the online status and fault status of all network terminals within the management software. Taking cross-city projects like banks as an example, it is convenient to remotely check whether the device is receiving the intercom or broadcast signals, the online/offline and broken/intact status of all the devices through backend. For constantly checking the steadiness of the system, scheduled detection is also feasible.

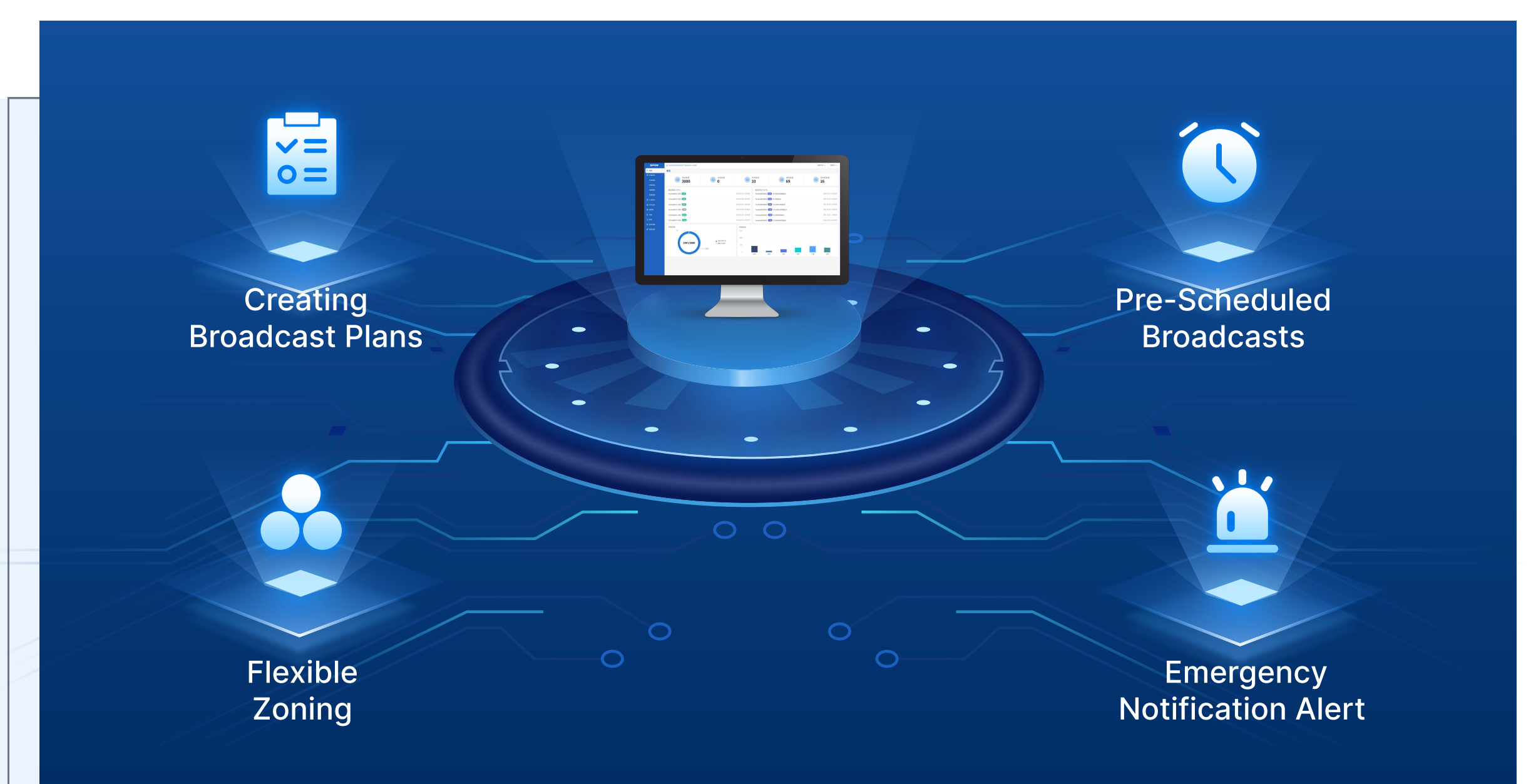
## ▲ App Control for System Operations

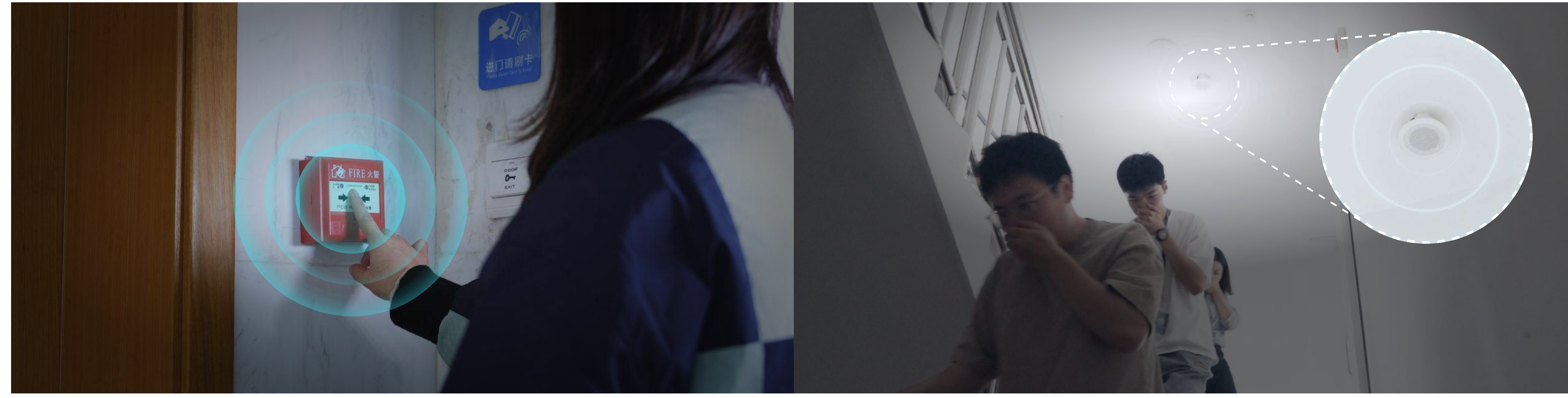
The system enables mobile app login and usage, allowing users to initiate broadcasts and other operations to authorized terminals through the server software, ensuring a convenient and streamlined experience.

## ▲ Comprehensive Audio Management

The audio management software includes built-in features for creating broadcast plans, flexible zoning, and pre-scheduled broadcasts.

It supports 24-hour programming, allowing for changing settings during all day.





The system has a fire alarm function and can be integrated into a fire alarm system. When the alarm central unit receives the alarming signals, the cable will transmit the signal to devices, which triggers the XC-9000, sending out signals to speakers.

Users could choose to preset settings to activate full-area or zoned alarms in emergencies. The alarm voices come in multiple forms and could be edited catering to needs. For example, users can change language settings, upload and edit their audio sources according to exact requirements, such as intruding alarms, fire alarms or air aid alarms, etc.

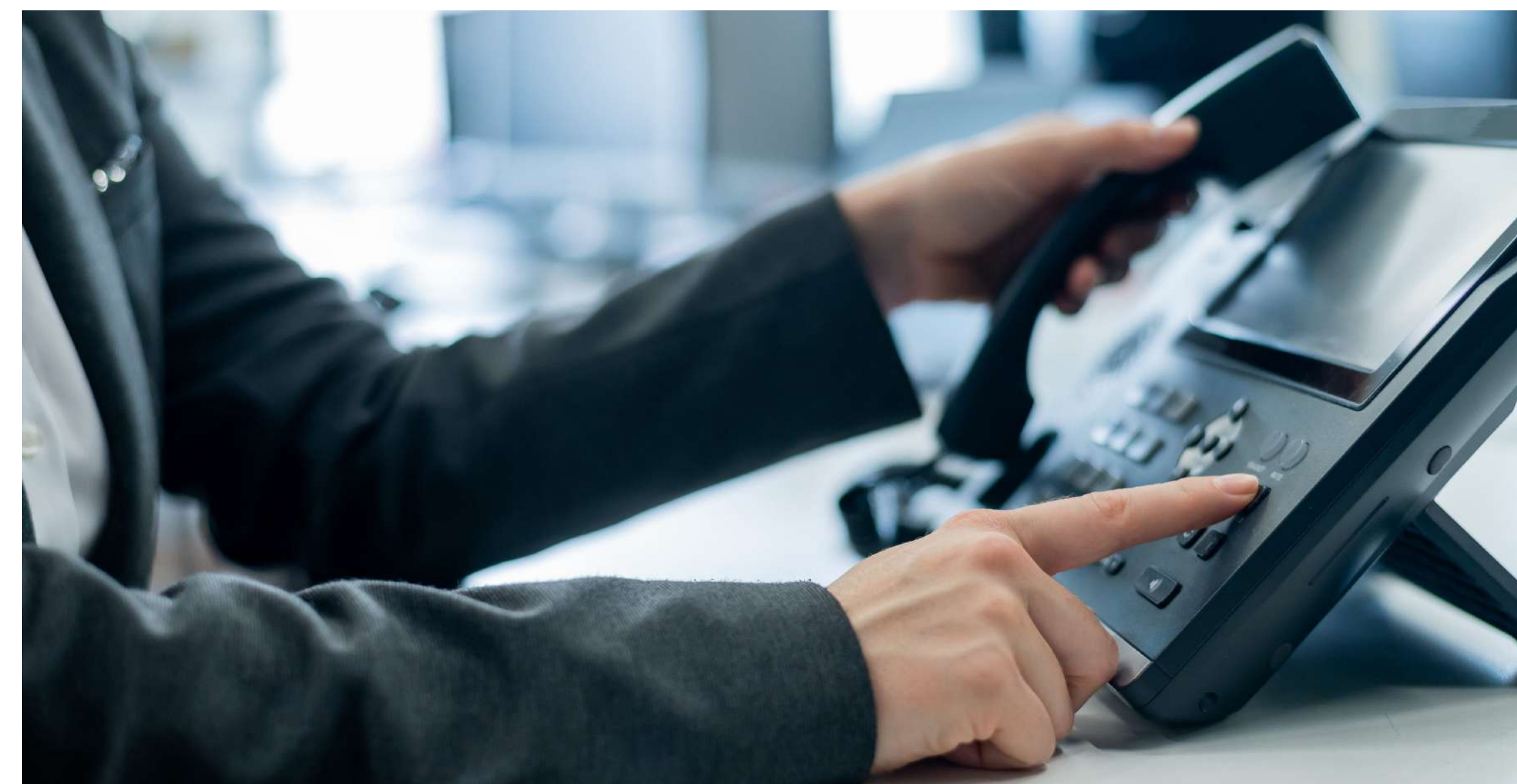


### ▲ Versatile Audio Source Support

The system supports various forms of audio sources for sending notifications like live speech and BGM playback. Audio sources can come from digital musical apps, CD/DVD players, microphones, etc.

In addition, the system provides diverse functions of supporting various broadcasting features such as scheduled broadcasting, zoned broadcasting, and emergency broadcasting.

### ▲ Integrated SIP Compatibility

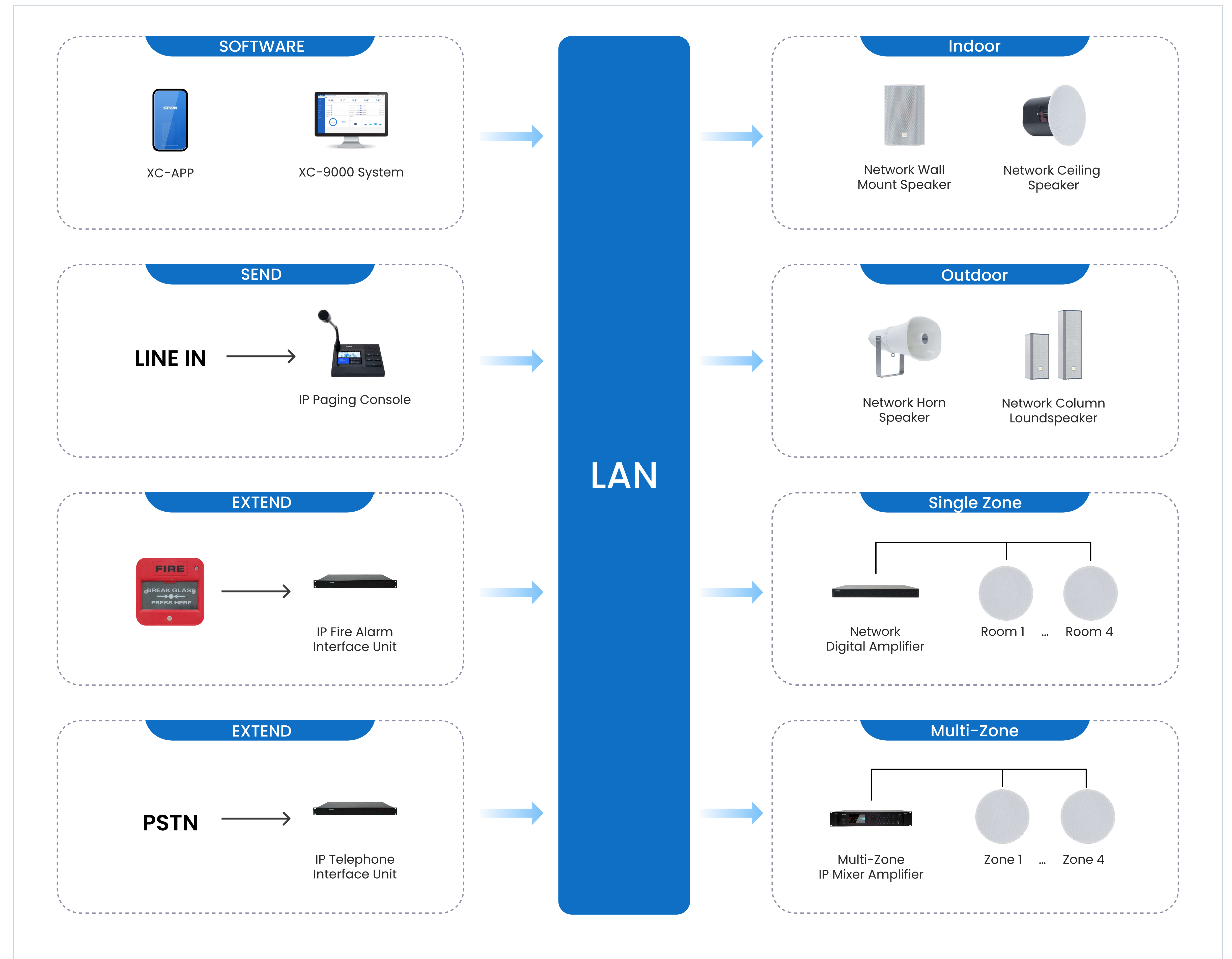


The system not only allows SIP phones to log in, but also can be connected to third-party SIP server or IPPBX, which establishes a completely integrated and compatible communication system through seamless integration into existing systems.

### ▲ Open SDK



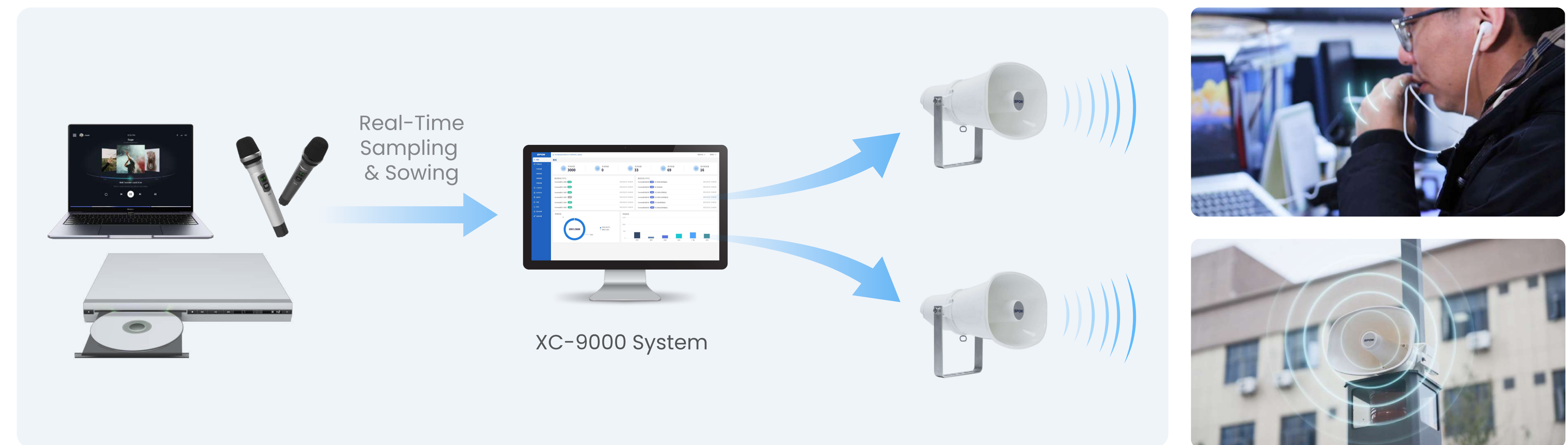
If a large project like a smart campus needs to integrate all subsidiary platforms into a unified management system, our platform offers open SDK interfaces. Users can access these interfaces for configuration to control our XC-9000 management platform.



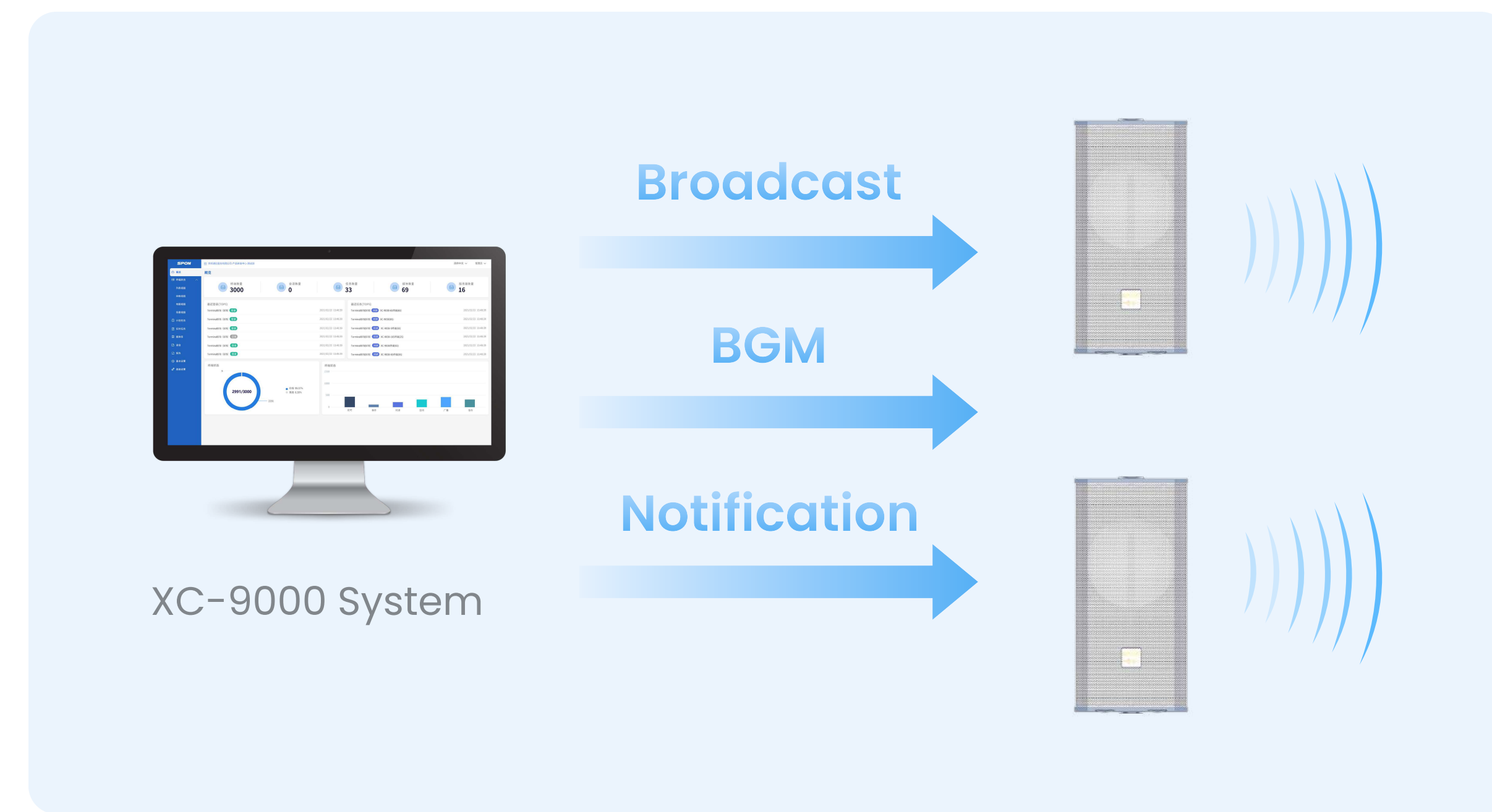
### Main Functions



### Real-Time Broadcasting

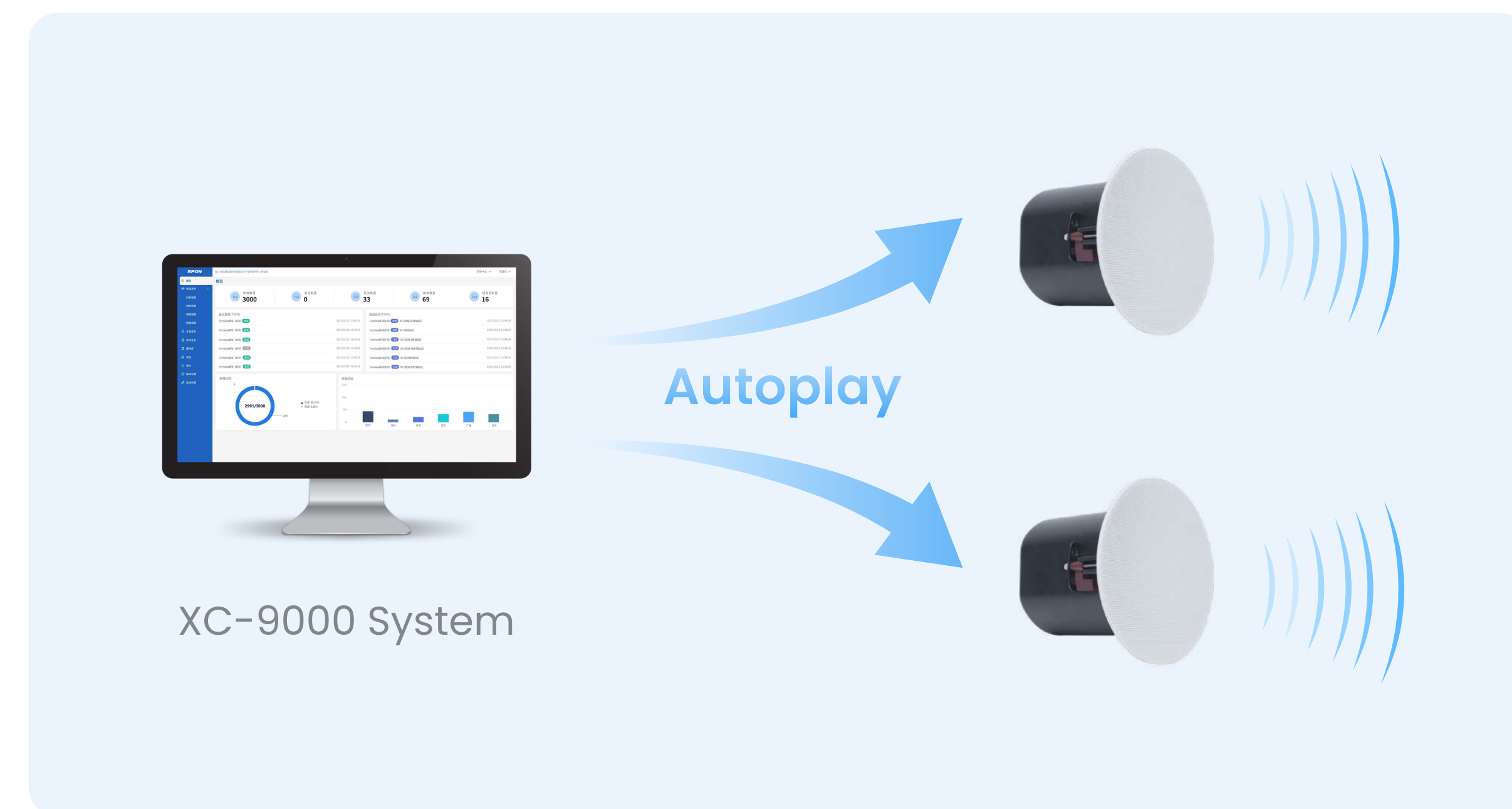


The system can capture and broadcast radio programs or other external audio sources (such as CD/DVD player, microphone, music apps) in real-time, and at the same time broadcast them in sync.



### Zone Broadcasting

The system can arbitrarily divide a few network devices into different zones to play specified audio programs or send out announcements to any designated area. The volume of each device can be remotely adjusted.

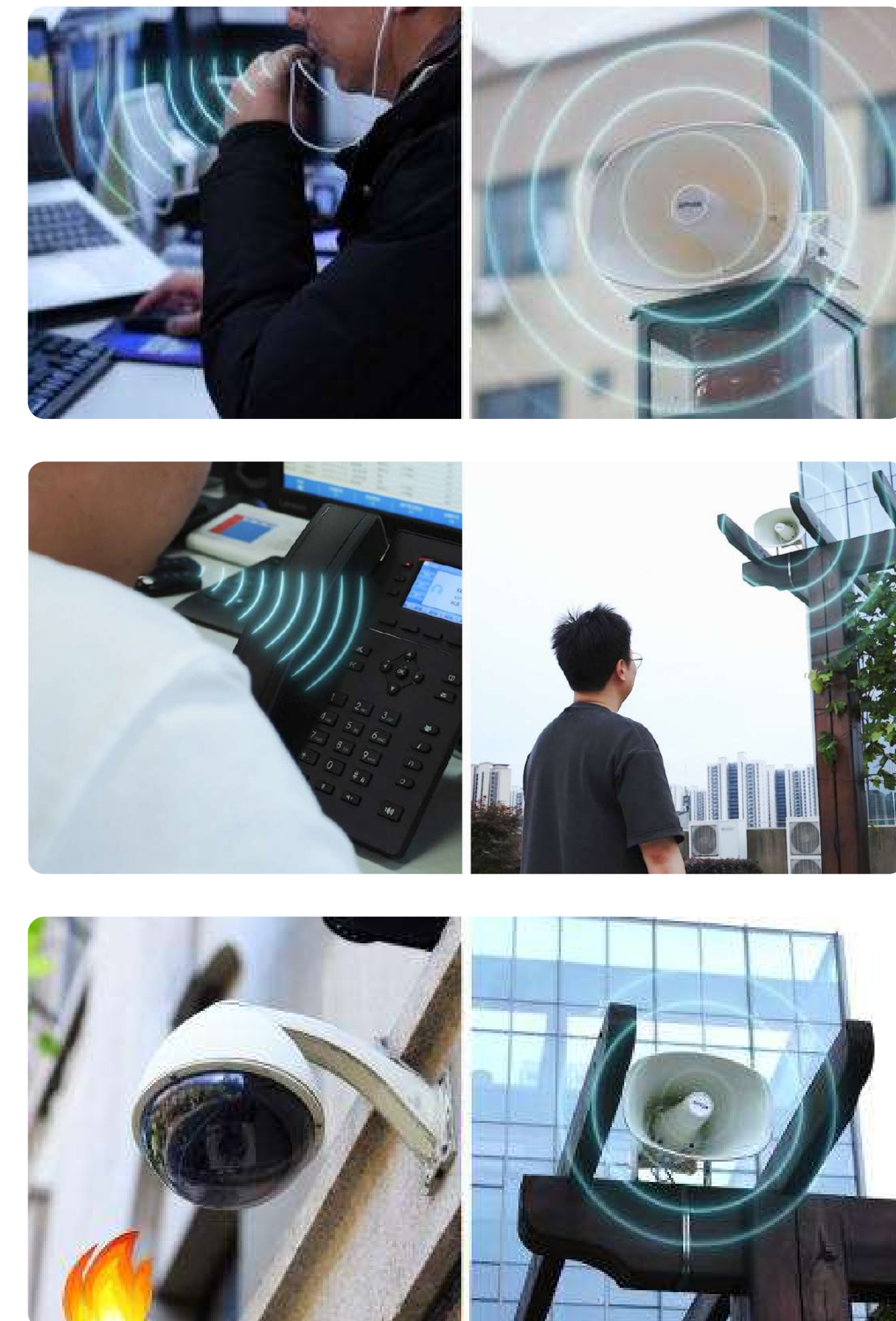
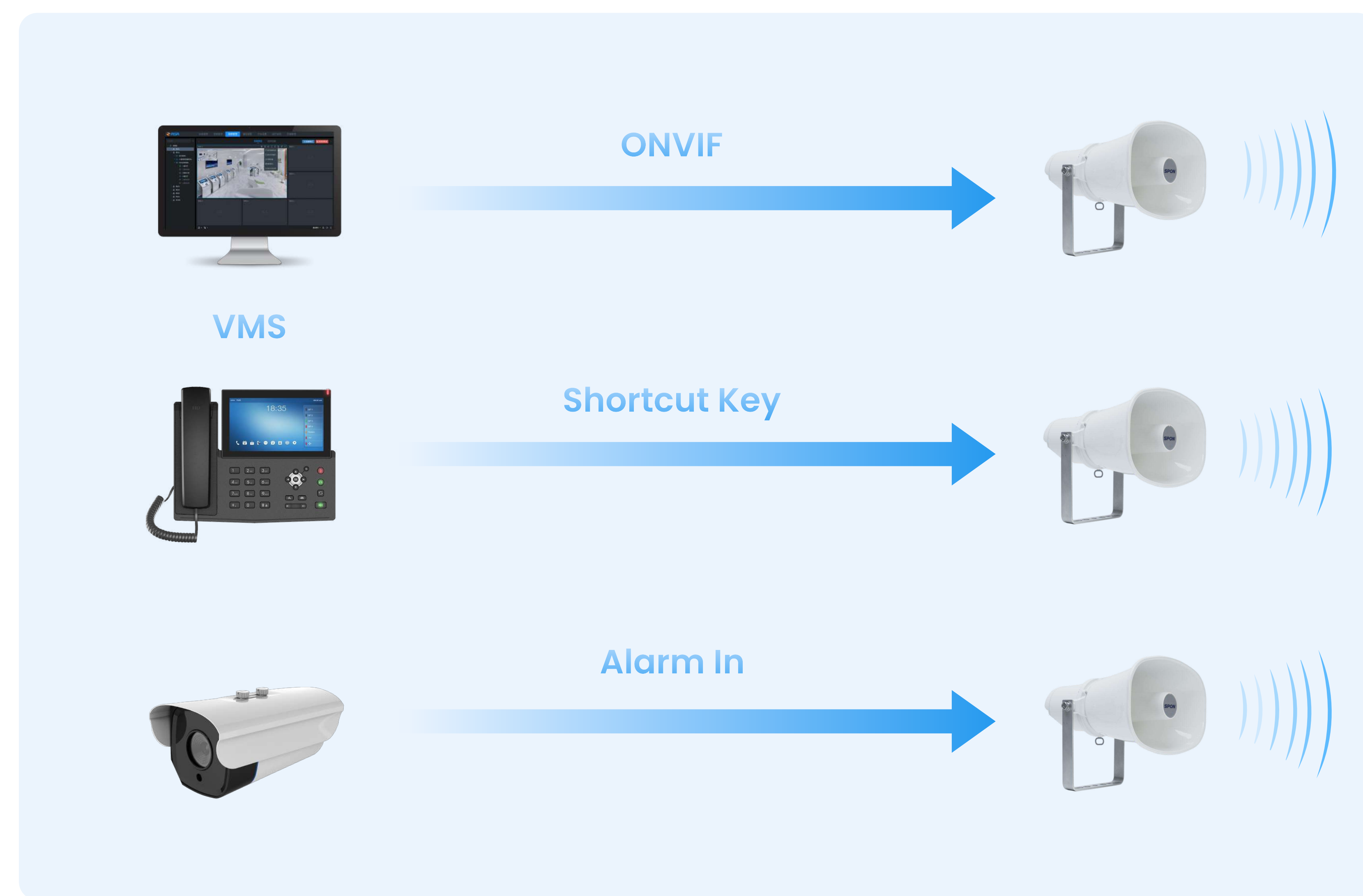


### Scheduled Playback

The system is able to automatically broadcast according to the scheduled tasks as long as users upload the audio file for each time period of the day to the server and create a playback schedule.



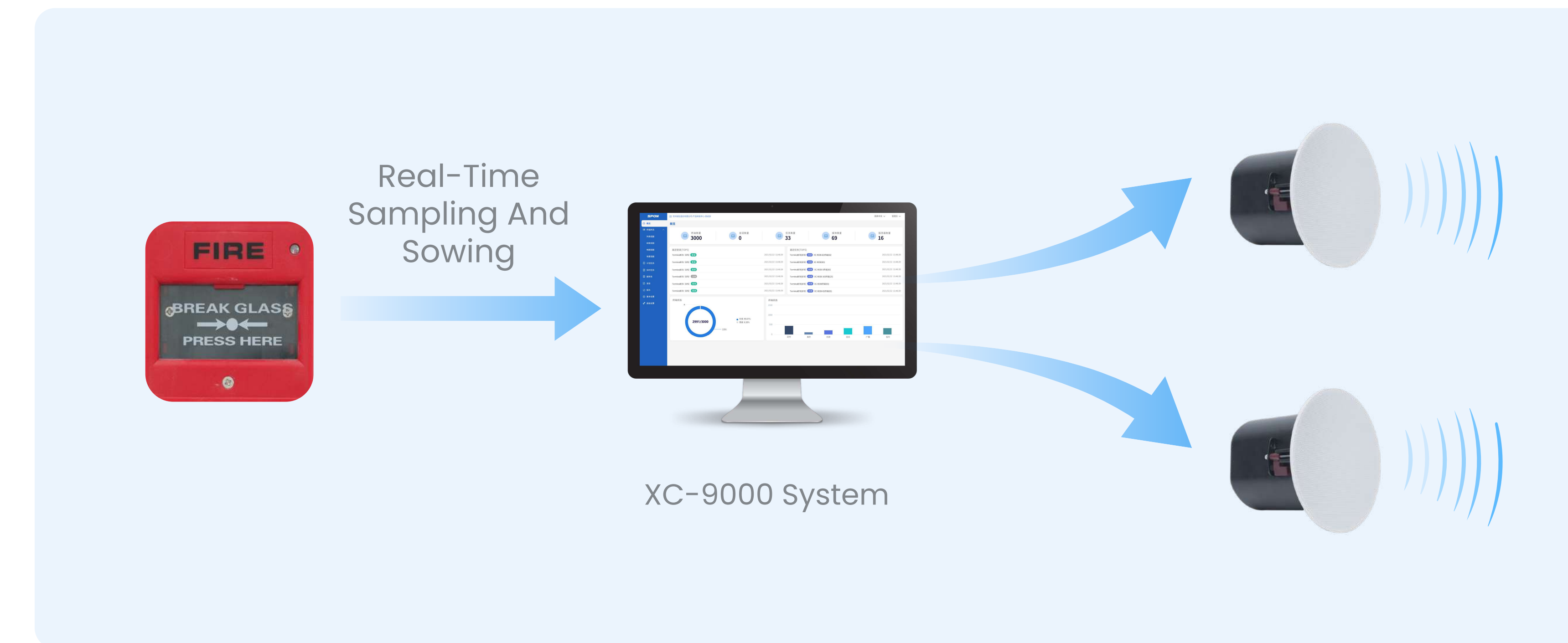
### CCTV Integration



The digital devices such as IP POE Speakers adopts the international standard ONVIF protocol, which enables their voices to be broadcast via VMS platforms. The terminals can also be integrated with CCTV systems for synchronized broadcast.

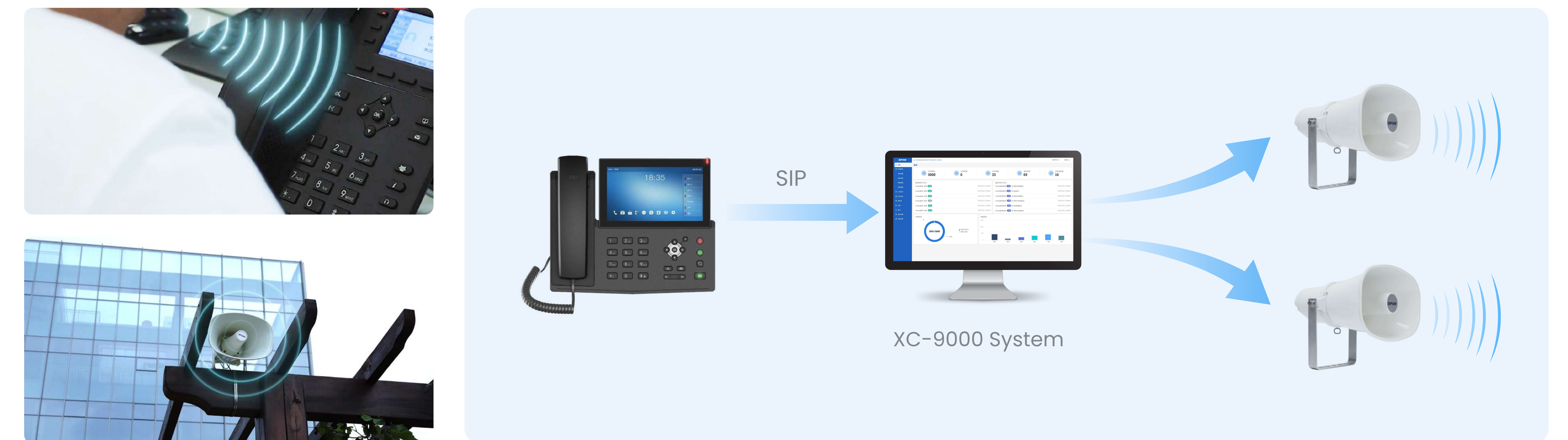


### Fire Alarm Integration

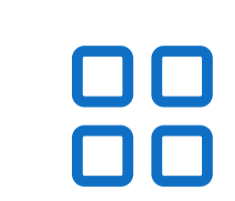
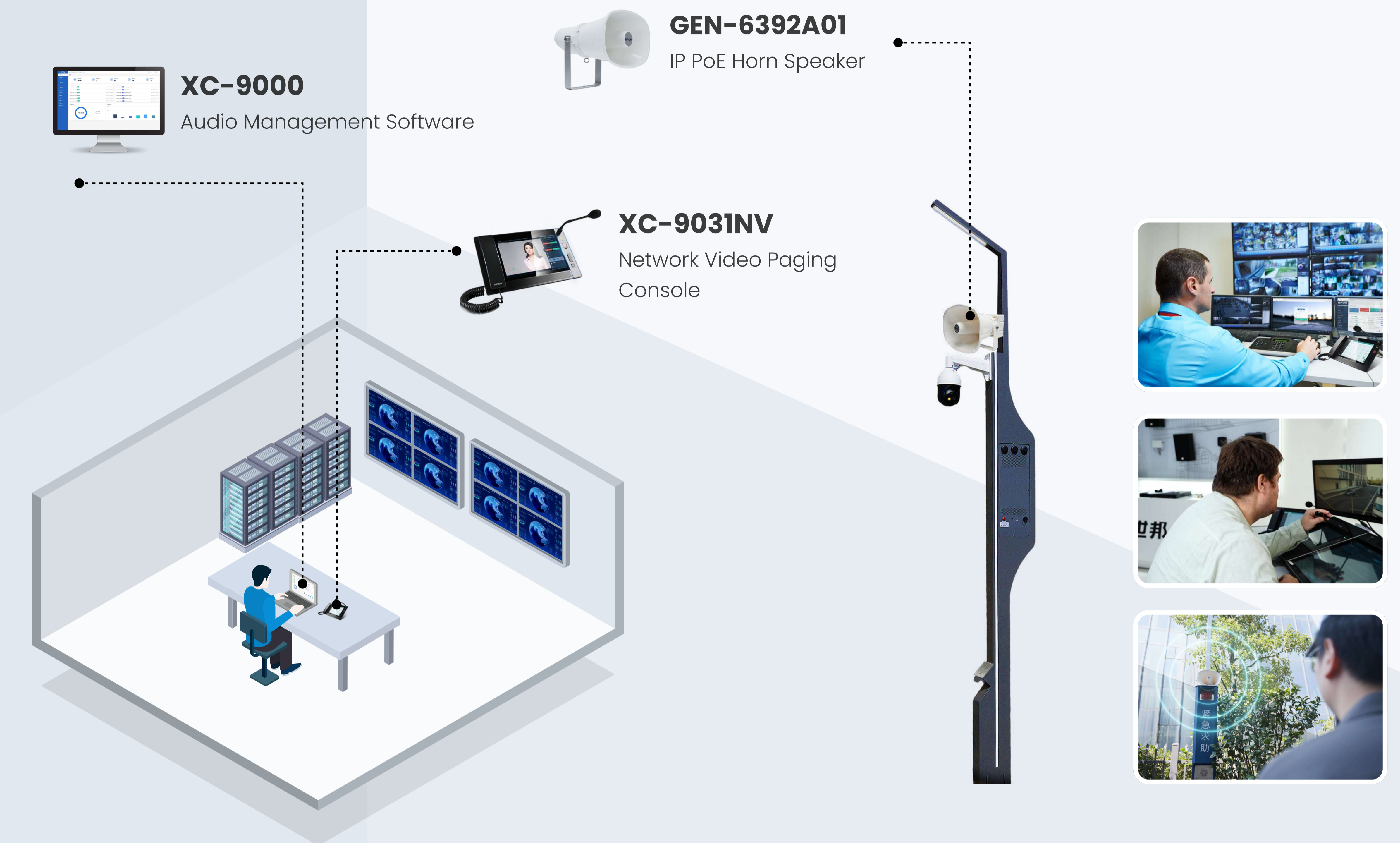
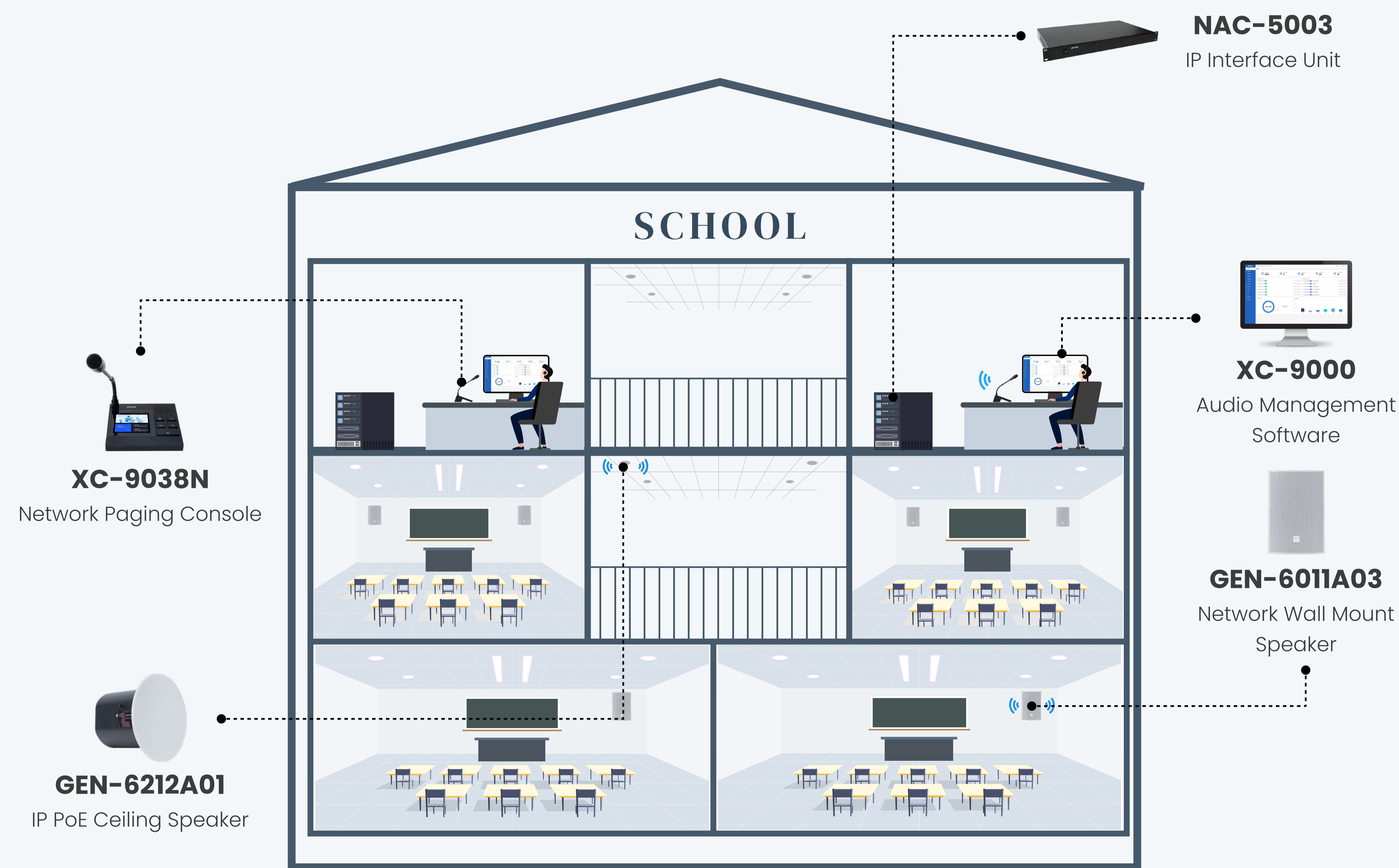


The system can be integrated with the fire alarm system for control. When a fire alarm signal is triggered, it automatically activates the emergency broadcast function and supports adjacent floor alarms. It also allows for manual emergency broadcasting by clicking a single button.

### SIP Phone Integration



The system can be integrated with SIP servers, allowing live speech of voice broadcasting via SIP phones to send announcements anytime and anywhere.



### Flexible Zoning Broadcast :

The fully network terminals can realize flexible zoning options, allowing for broadcasting notifications to different zones or individual terminals (devices).



### School Bell System :

It provides school bell system at the beginning/ending of the class. Multiple scenarios can be designed, including different scheduled broadcast tasks according to summer/winter timetable.



### Fire Alarm Integration :

It supports integration with fire alarm systems, allowing fire alarm signals to be integrated into the PA system.



### Classroom Audio Amplification :

Terminals support daily applications in classroom scenes. They can be connected to projectors or interactive whiteboard for audio amplification.



### Support SIP Protocol :

Integrated SIP protocol for seamless integration with network communication systems.



### VMS Platforms Integration :

Integrated ONVIF protocol for integration with VMS platforms.



### Third-Party Integration :

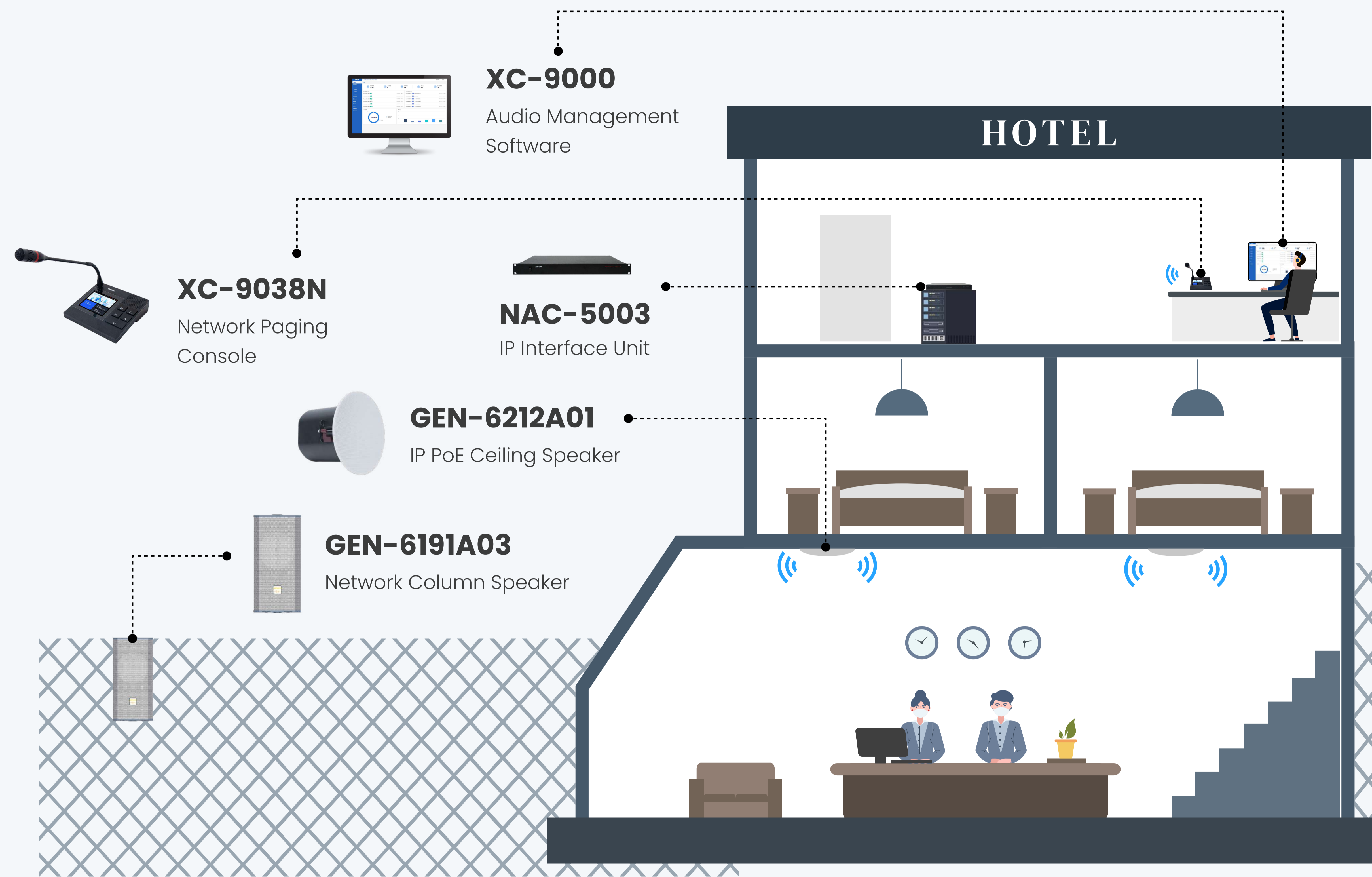
Built-in HTTP API for integration with third-party platforms.



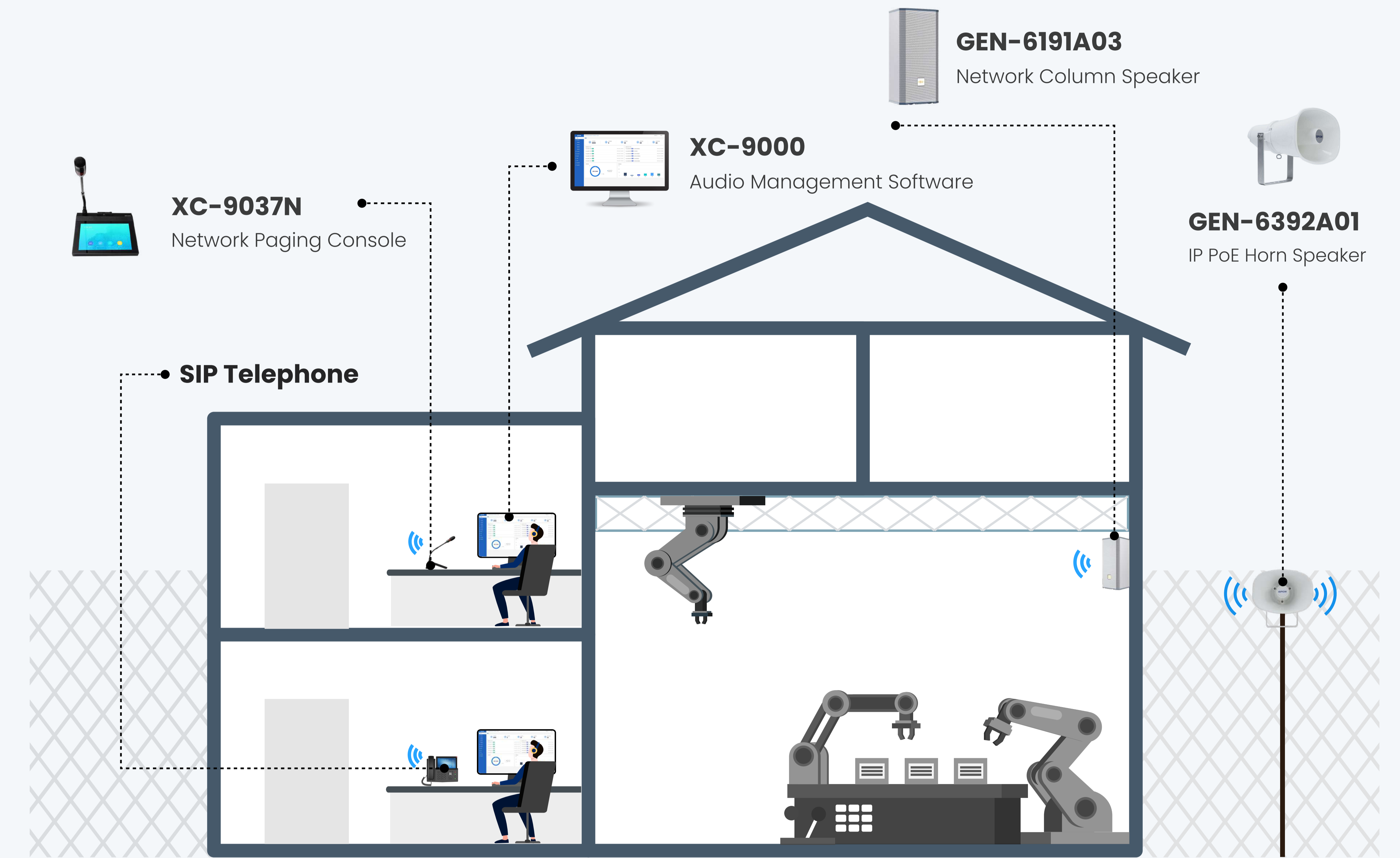
### Voice Alarm Triggering :

Built-in alarm input interface for triggering voice alarms with cameras.

# SOLUTION FOR HOTEL



# SOLUTION FOR FACTORY



### Zone Control By Floor :

The system offers full network settings, dividing zones relying on different floors and control over each zone separately.



### Fire Alarm Integration :

The system can be integrated with fire alarm system, enabling integration of fire alarm signals into the broadcasting system.



### Scheduled Broadcasting :

It supports programmable scheduled broadcasting, allowing flexible arrangements according to various needs.



### Emergency Broadcasting :

It supports emergency broadcasting for the entire area, enabling one-click emergency communication.



### Zone Broadcasting :

It allows broadcasting to any zone, guaranteeing no interference between different areas.



### Alarm Triggering :

Terminals have various kinds of interfaces, enabling to trigger alarms when connected with cameras.



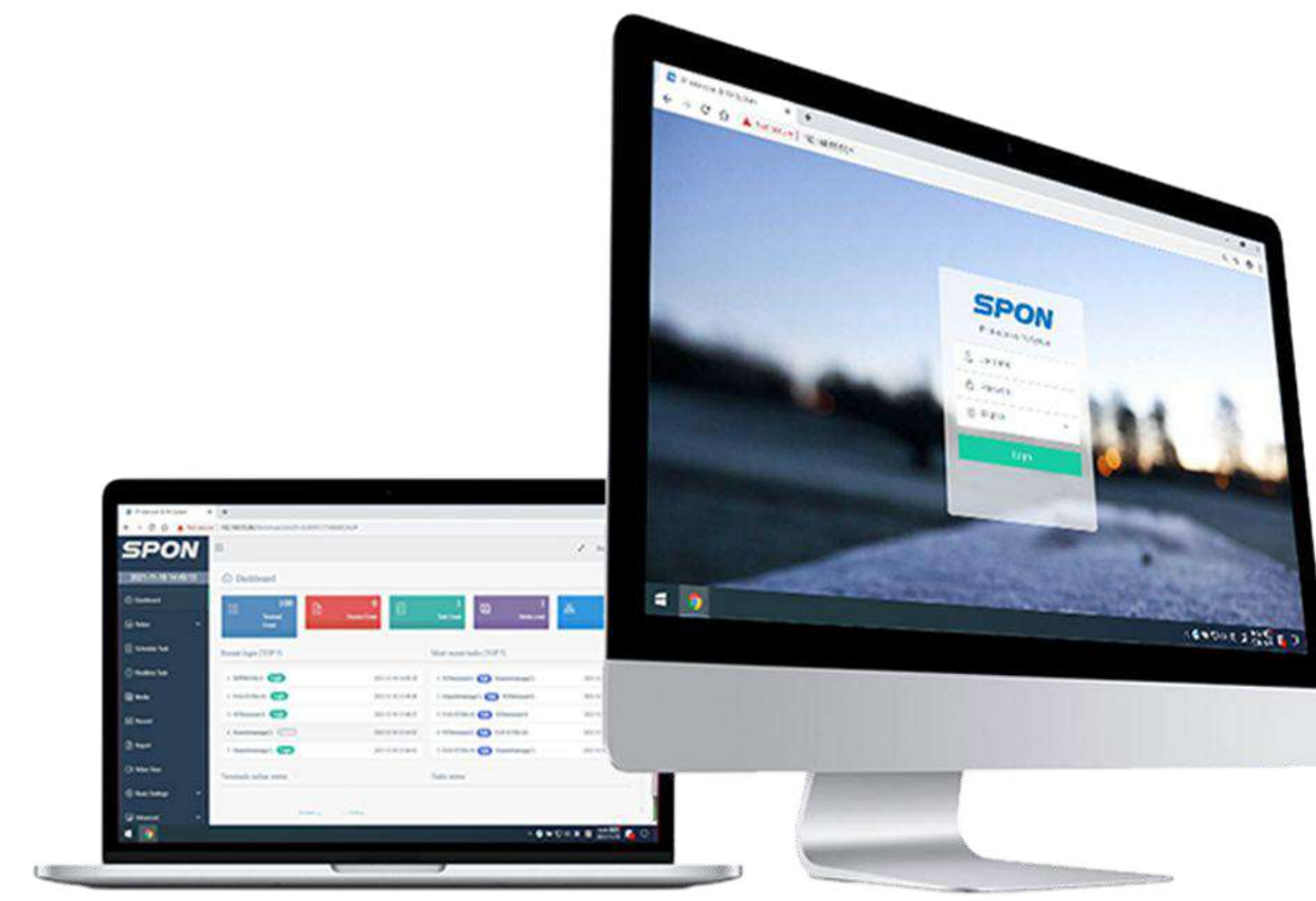
### All Network Devices :

Deployment of fully network devices significantly reduces the difficulty of operating such as checking devices on dangerous sites, and thus protecting people and property . The deployment of all network devices greatly reduces the difficulty of operation and maintenance management.



### Integrated SIP Phones :

The system can be intergrated with SIP phone and broadcast notification using SIP phones at any time and anywhere. Two-way audio talkback between SIP phones and IP POE Speakers makes it easy for checking devices sitting in office or other workplaces.



### XC-9000 Audio Management Software

- ▶ B/S architecture, supports cross-platform applications
- ▶ Unified management of terminals within the system, viewing work status, and batch volume adjustment, etc.
- ▶ Provides SDK development packages for secondary development and integration with other system platforms
- ▶ Covers traditional broadcasting system functions, allowing for partition management
- ▶ Supports building multi-level server architectures, deploying management according to user geographical regions



### XC-9038N Network Paging Console

Power Supply	DC12V/1.5A
Display	4-Inch Touchscreen, Resolution 480*480
Communication Protocol	TCP/IP, UDP, SIP
Signal-To-Noise Ratio	>80dB
Frequency Response	100Hz~16KHz
Operating Temperature	0~45°C
Dimensions	144*144*34.1mm



### XC-9037N Network Paging Console

Power Supply	DC12V/1.5A
Display	7-Inch Touchscreen, Resolution 1280*800
Communication Protocol	TCP/IP, UDP, SIP
Signal-To-Noise Ratio	>85dB
Frequency Response	20Hz~18KHz
Operating Temperature	0~45°C
Dimensions	184*169.3*58.9mm



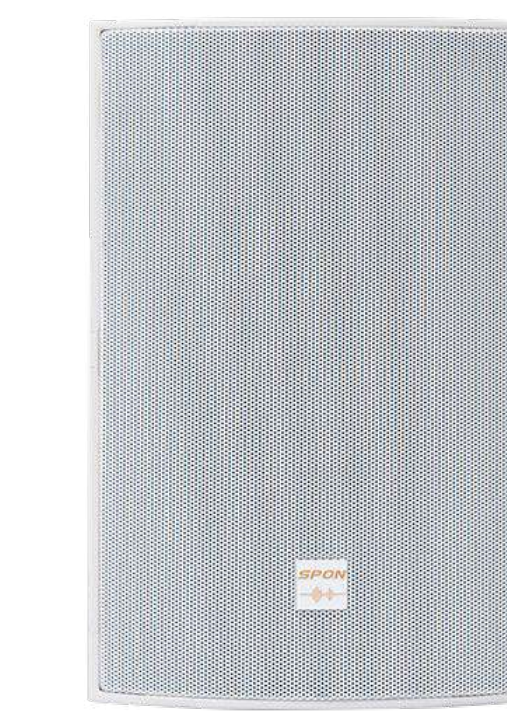
### GEN-6392A01 IP PoE Horn Speaker

Power Supply	DC 24V/1A, PoE(IEEE802.3af), POE+ (IEEE802.3at)
Signal-To-Noise Ratio	≥85dB
Communication Protocol	SIP、ONVIF、HTTP、UDP、ARP、ICMP、IGMP
Frequency Response	280Hz~12.5kHz
Intercom	Supported, Built-In Microphone
Operating Temperature	-40°C~+70°C
Dimensions	233*173*281mm



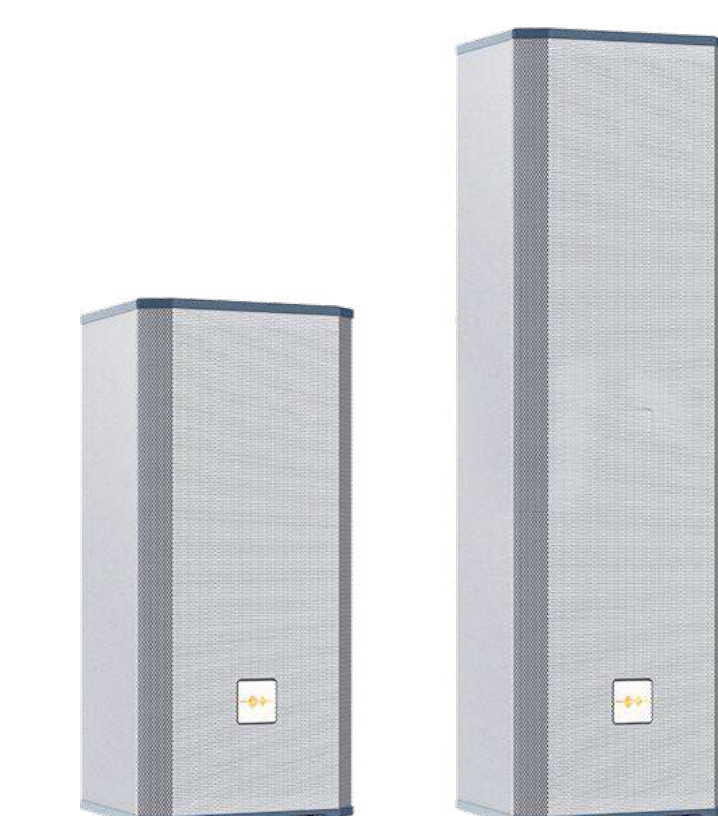
### GEN-6212A01 IP PoE Ceiling Speaker

Power Supply	DC 24V/1A, PoE(IEEE802.3af), POE+ (IEEE802.3at)
Signal-To-Noise Ratio	≥85dB
Communication Protocol	SIP、ONVIF、HTTP、UDP、ARP、ICMP、IGMP
Frequency Response	70Hz~18kHz
Operating Temperature	-30°C~+60°C
Dimensions	Φ204x167mm



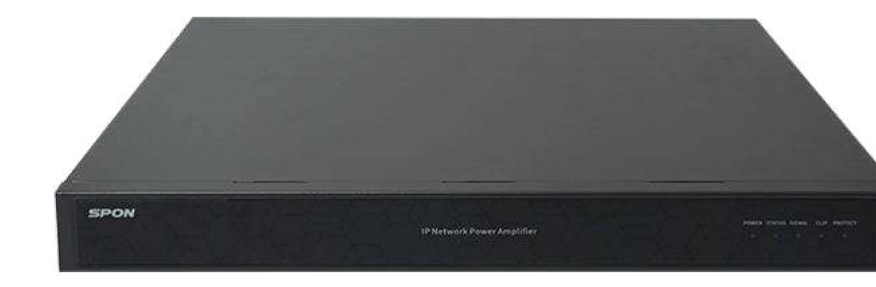
### GEN-6011A03 Network Wall Mount Speaker

Power Supply	DC24V/1A or POE
Communication Protocol	TCP/IP, UDP, SIP, ONVIF
Signal-To-Noise Ratio	>80dB
Frequency Response	100Hz~18KHz
Operating Temperature	-20~50°C
Dimensions	193×151.5×292mm



### GEN-6191A03 Network Column Speaker

Power Supply	DC24V/1A or POE
Communication Protocol	TCP/IP, UDP, SIP
Signal-To-Noise Ratio	>90dB
Frequency Response	45Hz~18KHz
Operating Temperature	-10~55°C
Dimensions	296×140×130mm



### GEN-3101A01 Network Audio Bridge

Power Supply	POE
Communication Protocol	TCP/IP, UDP, SIP
Signal-To-Noise Ratio	>85dB
Frequency Response	50Hz~20KHz
Operating Temperature	-10~55°C
Dimensions	126×66×27mm

### XC-9508P Network Digital Amplifier

Power Supply	AC100V~240V, 50/60Hz
Display	130W, 260W, 360W, 500W
Communication Protocol	TCP/IP, UDP, SIP
Signal-To-Noise Ratio	>80dB
Frequency Response	60Hz~18KHz
Operating Temperature	-10~50°C
Dimensions	440×300×44mm



### NAC-5003 IP Interface Unit

Power Supply	AC100V~240V, 50/60Hz
Communication Protocol	TCP/IP, UDP
Interfaces	1 Ethernet Port, 32 Alarm Inputs, 8 Alarm Outputs
Operating Temperature	-10~50°C
Dimensions	483×259×44mm

### NBS-2301 Zone Mixing Digital Amplifier

Power Supply	AC 220V, 50Hz
Power	130W, 260W, 360W, 550W, 700W
Communication Protocol	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Signal-To-Noise Ratio	Mic Input 01: ≥65dB, Mic Input 02/03: ≥80dB, Aux Input 01/02: ≥82dB
Frequency Response	Mic Input 01: 80Hz~14kHz Mic Input 02/03: 60Hz~16kHz Aux Input 01/02: 60Hz~16kHz
Operating Temperature	10°C~+50°C (14°F~122°F)
Dimensions	483×430×88mm