

SPON Mosque IP PA & Intercom Solution

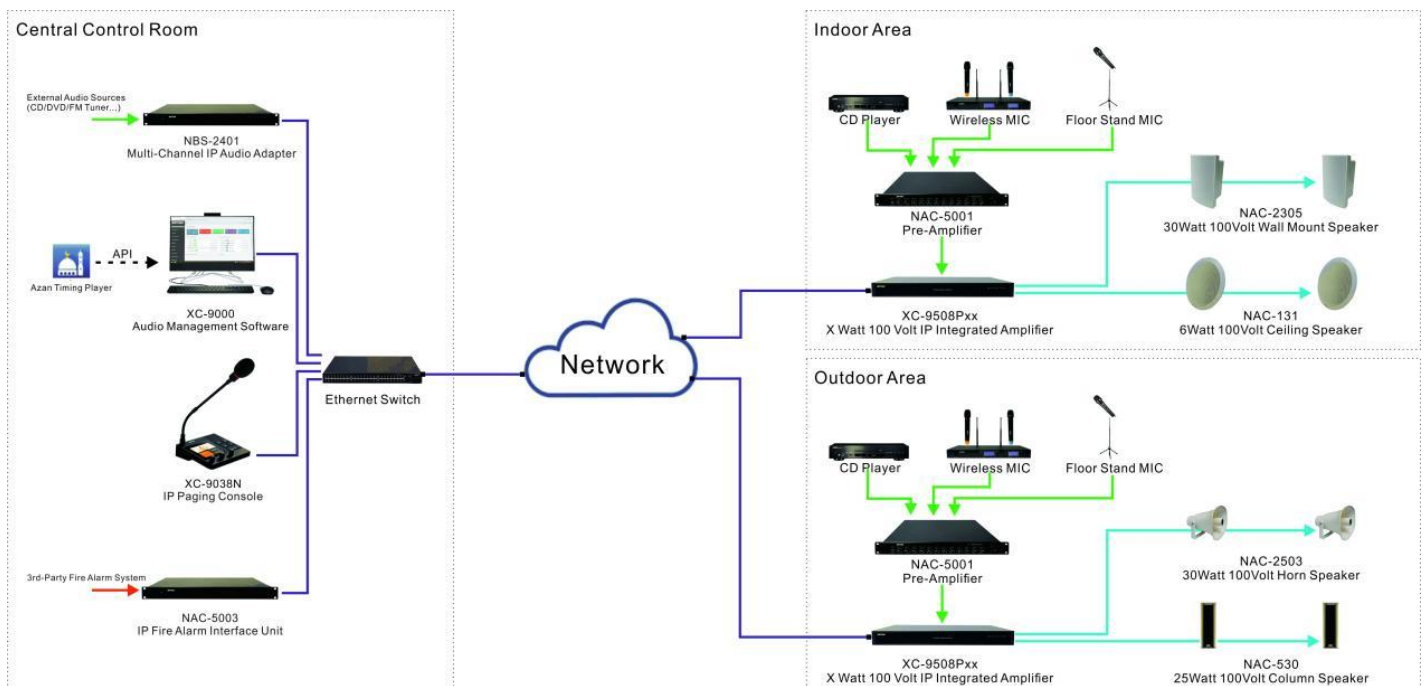


A. Overview

Mosques are religious and community centers in Islam, serving as gathering, worship, and learning places for Muslims. Wherever worshiper are in a mosque, it's vital they clearly hear the message.

For amplifying prayers, scriptures, and notifications within a mosque, SPON's IP PA system is an ideal solution. It suits both small single-storey mosques and larger complexes with minarets, offices, gates, and domed structures. The SPON IP PA system can be tailored based on the mosque's architecture, requirements, and desired sound quality. All speakers can be networked together for unified broadcasts, or different areas can have distinct, personalized broadcasts, making it more intelligent and adaptable.

B. Solution Diagram



C. System Features

1. The system's analog audio input and output interfaces are designed to connect to players and microphones. Every input can be effortlessly connected to any desired zone.
2. The system's design philosophy emphasizes decentralized control of various functionalities. With audio input and output signal processing located within each device itself, the network controller primarily focuses on broadcast routing management and control. This decentralized approach allows for quicker responses than systems that process all signals centrally.
3. Audio signals in this broadcast system can be transmitted without any limitations. Users have the flexibility to route various audio sources to different speaker zones, facilitating selective or comprehensive broadcasting across zones. Adopting a networked structure, the number of digital audio channels that can be transmitted is unrestricted.

D. Application of System

1. Control center

1.1. software

Worship times in Islam, particularly for the Azan (Adhan), are of paramount importance and require utmost precision. Consequently, the significance of timed broadcasting for such events is pivotal.

The SPON audio managing software, XC-9000, is designed to address this very need. Beyond its capability to manage all public broadcasting devices within a designated area, it offers a robust feature set for timing broadcasts, either across specific zones or throughout the entire area. This feature is particularly beneficial for mosques, given that the Azan has five distinct timings throughout the day.

Administrators can pre-set these times into the XC-9000 system. Once scheduled, the software ensures that the call to prayer, Adhan, is broadcasted punctually, reflecting the importance of timely worship in Islam and ensuring that the community is always in sync with their prayer routines.

1.2. Paging Microphone

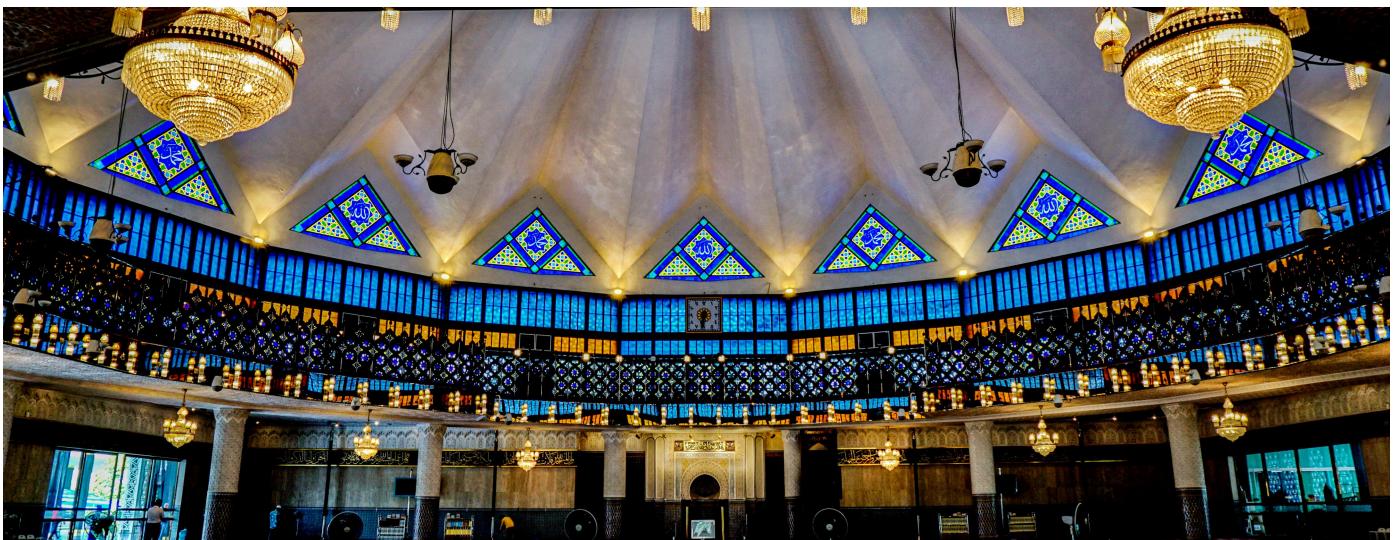
In the control center, the IP Paging console XC-9038N can serve both as a terminal console and a Mixer. It can manage up to 30 terminals and offers real-time paging capability. For Adhan, the XC-9038N also supports timed broadcasts, allowing precise scheduling for future prayer call timings.

2. Emergency Call



During Adhan or worship, there might be risks such as riots or other emergencies. SPON's emergency call boxes, XC-9241 and XC-9242, enable instant communication with security at the touch of a button. Fitted with an HD camera, these boxes facilitate video intercom with the security room, offering live visuals. Furthermore, with dual alarm outputs, they can detect and notify the server of disturbances like intense arguments.

3. Indoor Area



In the sacred environment of Adhan, precision in worship timekeeping and clarity in sound transmission are paramount. Within the mosque's indoor spaces, SPON's IP ceiling speakers not only deliver ambient music but also crucial calls to prayer. When congregants gather in communal zones or relaxation areas, SPON's XC-9508 IP Integrated Amplifier, when paired with the NAC-131 ceiling speaker, ensures that the melodious and reverent sounds of the Adhan are conveyed with impeccable clarity. This setup, through its intuitive design and efficient power delivery, guarantees that the Adhan's calls to worship reach every corner, allowing devotees to synchronize their prayers seamlessly.

4. Outdoor Area



The efficient combination of the XC-9508 IP Integrated Amplifier with the horn speaker NAC-2503 and column speaker NAC-530 ensures that the sacred call of Adhan is broadcasted with the utmost precision and clarity. Whether believers are immersed in outdoor activities or simply in expansive open spaces, the SPON's speaker setup guarantees that the essence and urgency of the Adhan remain uncompromised. This ensures devotees can align and coordinate their worship activities harmoniously with the resonating call.

E. Recommends Products

1. Audio Management Software XC-9000



- Terminal Management
- Media Library Management
- Permission Management
- Scheduled Broadcasting Tasks
- Real-time Broadcasting Tasks
- Real-time Intercom

SPON Audio Management Software, built on a B/S (Browser/Server) architecture, is a comprehensive communication platform that seamlessly consolidates functionalities like public broadcasting, visual intercom, surveillance, audio capture, and information dissemination.

2. IP Paging Console XC-9038N



The XC-9038N IP Paging Console, made from premium aluminum, provides two-way communication through a 4" LCD. It seamlessly blends external audio, manages 30 terminals with its built-in mini-server, and supports offline intercoms. Additionally, it features live paging, adjustable audio settings, and updates via the Easy Mic APP.

3. IP PoE Ceiling Speaker XC-9610



The IP POE ceiling speaker, perfect for offices, hospitals, restaurants, and hotels, delivers clear voice announcements, background music, and emergency alerts. Its "dynamic volume control" adjusts the output based on ambient noise, ensuring optimal clarity in any indoor public setting.

4. IP PoE Wall Mount Speaker XC-9607



This IP POE wall mount speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time. The Specific ringtone files can be stored in the FTP server of the speaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.

5. IP Outdoor Column Loudspeaker XC-9621A



- IPX5 Waterproof Rating
- Tailored for Outdoor Broadcasting
- Class D Digital Power Amplifier
- Three Broadcasting Modes
- Network Broadcasting
- Local Line Input Amplification
- Bluetooth Amplification
- Integrated Alarm Input
- Server Task Playback

The Outdoor Column Speaker is a fusion of cutting-edge technology and robust design, ensuring efficient audio broadcasting in a range of outdoor environments.

SPON Introduction

Located in Changsha, SPON Communications spans 57,000 square meters and employs 500, boasting a strong 250-person R&D division. Annually, our cutting-edge production line crafts up to a million IP endpoint devices. Honored as a 2016 intelligent production star, we have a global presence in 50 countries, with 24 branches within China. Our dedication to innovation shines through our Acoustic and Electromagnetic Labs, pushing our products beyond industry norms.

Offering a diverse product line, we deliver everything from IP Public Address systems and video intercoms to AI-powered surveillance microphones and Noise Detection systems. With expertise in custom IP audio solutions and the XC-cloud IoT platform's support, we adeptly cater to the ever-changing demands of our clients.

Main Prize and achievement:

- National "Specialized, Refined, Unique, and New Little Giant."
- Chinese manufacturers, Ten Hidden Champions.

SPON core products:

XCoIP Network Audio Technology Platform

IP Intercom System

IP Public Address System

Conference System

Surveillance microphones

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