ZYCOO

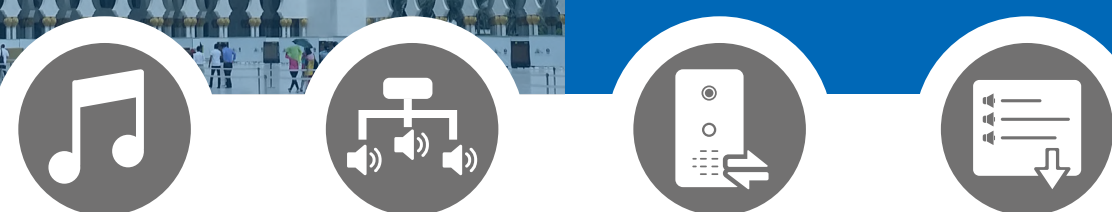**Create a Serene and Connected Worship Experience with ZYCOO**
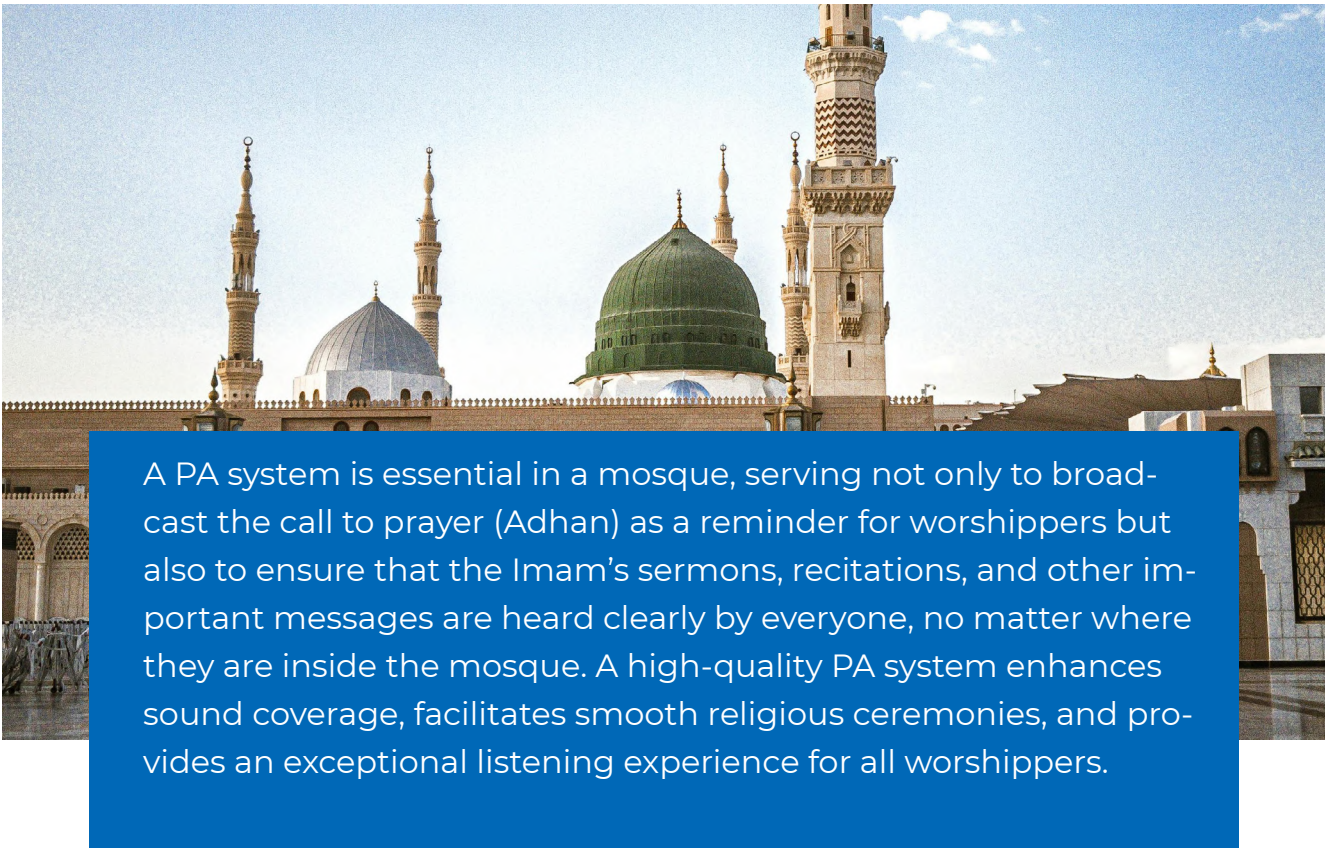
- Audio Playback
- Zone Paging
- Intercom

ZYCOO IP AUDIO SOLUTION FOR MOSQUES

OVERVIEW

A PA system is essential in a mosque, serving not only to broadcast the call to prayer (Adhan) as a reminder for worshippers but also to ensure that the Imam's sermons, recitations, and other important messages are heard clearly by everyone, no matter where they are inside the mosque. A high-quality PA system enhances sound coverage, facilitates smooth religious ceremonies, and provides an exceptional listening experience for all worshippers.

Mosques often feature unique architectural designs, such as large domes and spacious prayer halls, which can create challenges like echoes and prolonged reverberation etc. ZYCOO`s Unified IP Audio Solution is specifically designed with these acoustic factors in mind. With advanced technologies like echo suppression and noise cancellation, it ensures clear, evenly distributed sound throughout the space. By integrating professional-grade equipment, ZYCOO minimizes distortion and optimizes audio quality, delivering the best possible listening experience for worshippers.

With ZYCOO's Unified IP Audio Solution, you can efficiently, flexibly, and easily meet the following application needs:

- Crystal-Clear **Adhan & Quran Recitation**
- **Zoned** Audio Distribution
- **Remote** Paging & Announcements
- Seamless **Sermon Amplification**
- Emergency Alerts & Safety Announcement
- Automated **Scheduled Playback**
- **Two-Way Intercom** for Assistance

ZYCOO's Unified IP Audio Solution leverages advanced audio processing technology to deliver ultra-clear sound with minimal distortion. Our network-powered amplifiers ensure stable, reliable audio coverage, supporting intelligent management for seamless operation. Designed to create a dignified and immersive worship environment, our solution enhances the spiritual experience with crystal-clear sound and hassle-free control.
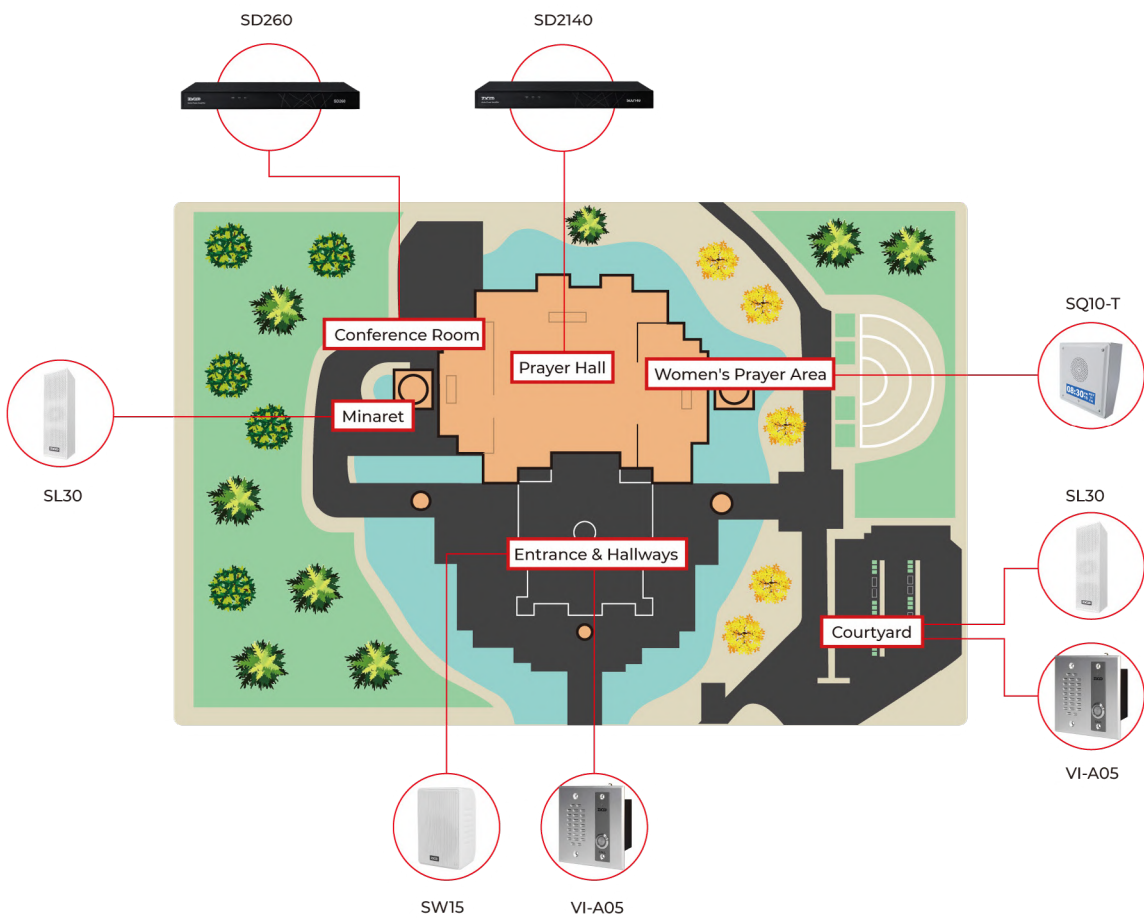
DEPLOYMENT IN MOSQUES

In mosque environments, ZYCOO prioritizes crystal-clear audio quality and wide coverage to ensure that the Adhan, Khutbah, and important announcements are delivered with clarity and efficiency to all worshippers. Our flexible and scalable solution architecture is designed to meet the needs of mosques of all sizes, from small prayer halls to large congregational spaces.
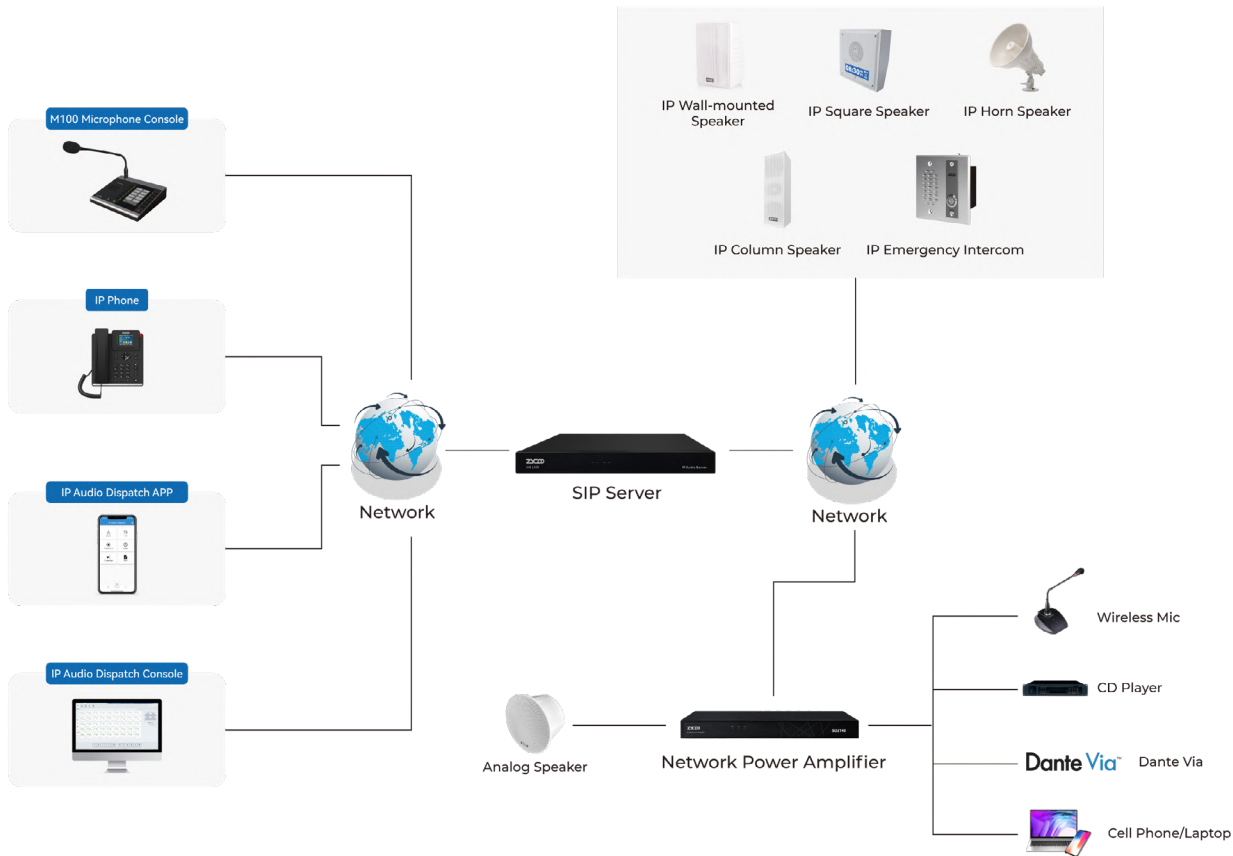
The solution includes high-decibel horn speakers, low-distortion network amplifiers, and emergency intercoms to enhance community engagement. With ZYCOO, every worshipper—no matter where they are—can fully participate in religious activities with an immersive and seamless audio experience.

SOLUTION TOPOLOGY DIAGRAM

◆ SIP PA System for Large Mosques

For larger mosques, ZYCOO offers a complete SIP PA system that integrates IP speakers, intercoms, network amplifiers, and paging gateways into a centralized ZYCOO SIP server. This allows for easy management and signal transmission over the network. The system provides multiple control options, including the M100 Microphone Console, IP phones, the IP Audio Dispatch Console desktop software, and a mobile app, offering flexibility and efficiency in operation.
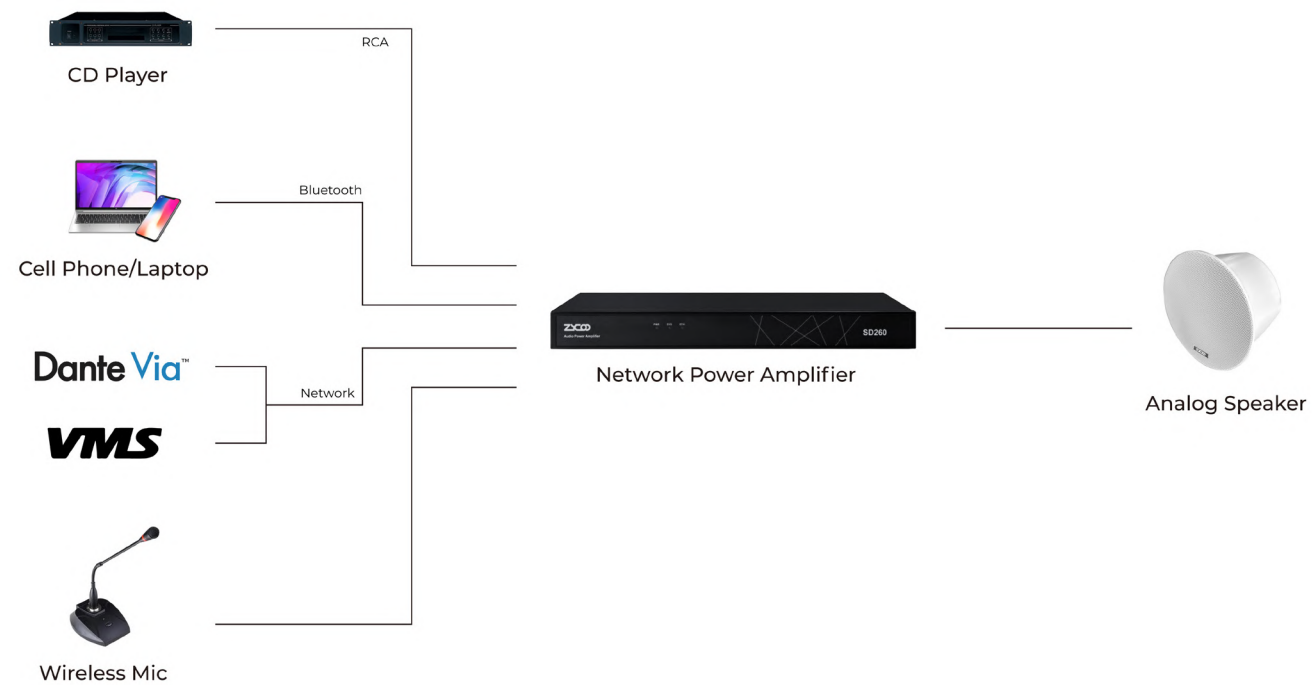
RECOMMENDED TECHNOLOGY

◆ Standalone Network Power Amplifier for Small to Medium-Sized Mosques

For smaller mosques, ZYCOO's standalone network power amplifiers offer an easy-to-use, high-performance solution. These amplifiers support various audio inputs, including Line-In, Bluetooth, Dante, and ONVIF, ensuring excellent sound quality with ultra-low distortion. Designed for environments where clear, high-quality audio is essential, this solution ensures a premium experience while maintaining the solemnity of the space.

CD Player — RCA

Cell Phone/Laptop — Bluetooth

Dante Via — Network

VMS

Wireless Mic

Network Power Amplifier

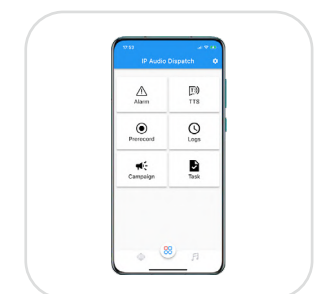Analog Speaker

SD2140

SD260

SW15

VI-A05

SQ10-T

SL30

IAS-L100
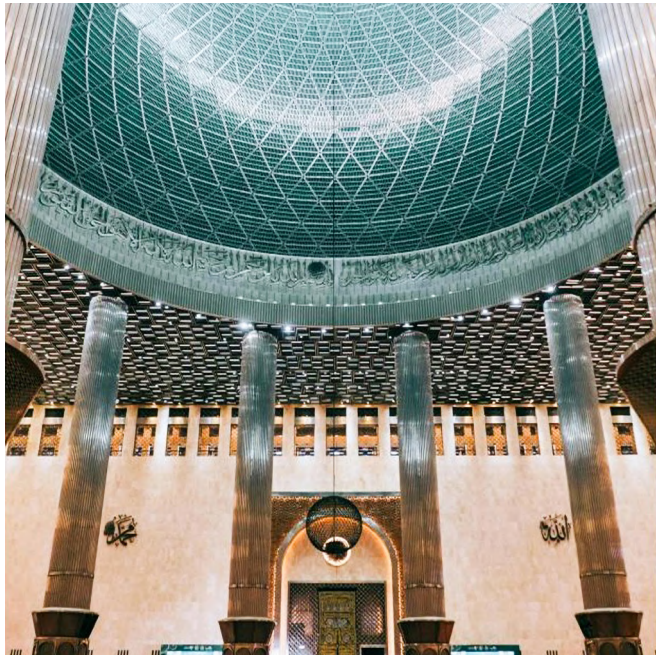
Dispatch Console

Dispatch APP

FOCUS AREAS

◆◆ Prayer Hall / Musalla

The Musalla (prayer hall) is the heart of any mosque, serving as the primary space for daily prayers, Jumu'ah (Friday prayers), and religious sermons led by the Imam, including Quran recitations. To ensure clear and consistent audio coverage throughout the prayer hall, ZYCOO's 240W high-power network amplifier SD2140 delivers impeccable sound quality, allowing every word of the Imam's prayers, sermons, and recitations to be heard clearly from the front rows to the back.

With an ultra-low distortion rate of just 0.05%, the SD2140 maintains stable and high-fidelity audio even in large congregational settings, unaffected by environmental noise. It also supports wireless microphones, offering flexible audio input options that accommodate different speaking heights and various prayer settings, ensuring an immersive and uninterrupted worship experience.

◆◆ Minaret

In modern mosques, high-powered outdoor PA systems have replaced traditional manual calls to prayer, ensuring that the Adhan reaches worshippers both within the mosque and throughout the surrounding area. Since the minaret is an outdoor structure, deploying the ZYCOO SL30 outdoor column speaker is the ideal solution.

With IP65-rated waterproof and dustproof protection, the SL30 is built to withstand extreme heat, sandstorms, heavy rain, and humidity, ensuring reliable performance in all weather conditions. Its high-power output allows the Adhan to be projected over long distances while maintaining crystal-clear, distortion-free audio with no background noise interference.

SD2140

- ◆ Daily announcement
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam's sermons and Quran recitations
- ◆ Bluetooth & Dante audio input
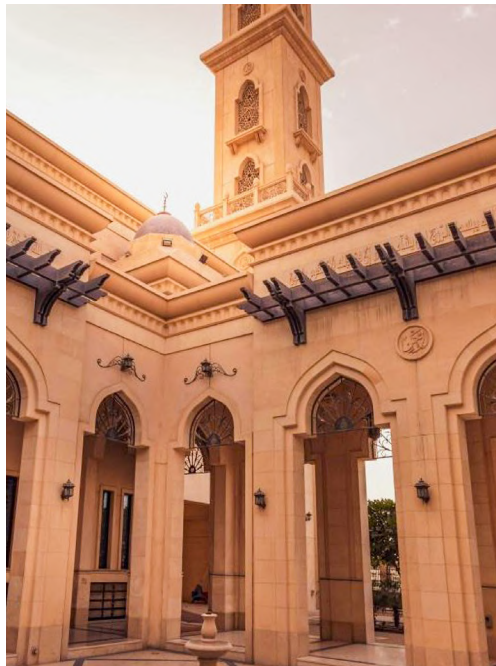- ◆ Wireless Microphone Input
- ◆ SIP PA integration

- ◆ Daily notification
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam's sermons and Quran recitations
- ◆ Certified in IP65 water & dust proof (SL30 only)
- ◆ Centralized management

SC15   **SW15**   **SL30**

- ◆ Daily notification
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam's sermons and Quran recitations
- ◆ Certified in IP65 water & dust proof
- ◆ Centralized management

SH30

◆ Courtyard

The courtyard of a mosque is not only a gathering place for worshippers before and after prayer but also a vital space for community events, religious education, and festive celebrations. Installing the ZYCOO SL30 outdoor column speaker ensures that everyone in the courtyard can clearly hear the Adhan, religious announcements, and emergency broadcasts.

During religious festivals and daily prayers, the system supports scheduled broadcasting, allowing high-quality audio to play automatically at designated times, whether for special celebrations or regular religious sermons. This provides a more structured and immersive worship experience.
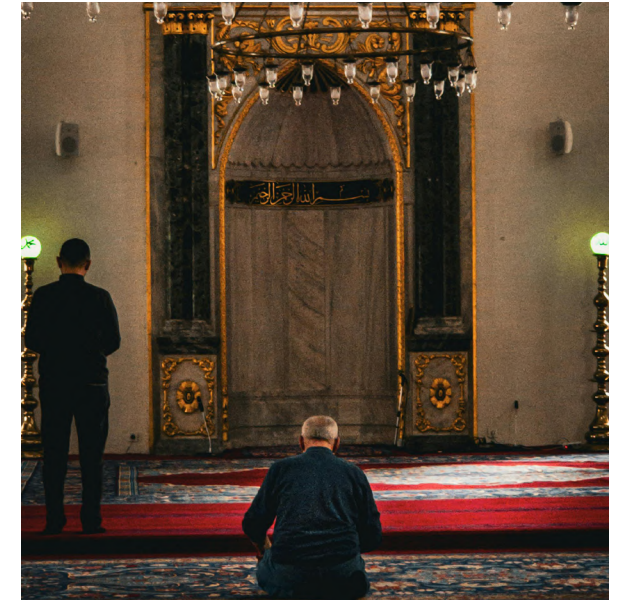
Additionally, deploying the VI-A05 emergency intercom enhances safety measures. In the event of an emergency such as a crowd surge or physical altercation, worshippers can quickly request assistance, while mosque administrators can remotely monitor and manage incidents in real time, ensuring a safer and more orderly environment.

SL30

◆ Daily announcement
◆ Emergency evacuation
◆ Voice paging
◆ Play Imam`s sermons and Quran recitations
◆ Certified in IP65 water & dust proof
◆ Centralized management

VI-A05
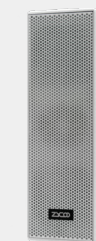
◆ Press to intercom
◆ Press to request API
◆ Centralized management
◆ Certified in IP66 water & dust proof
◆ Certified in IK10 impact resistance

◆ Women's Prayer Area

The Women's Prayer Area is a dedicated space within the mosque designed to provide female worshippers with a quiet, comfortable, and private environment for prayer. To enhance both functionality and safety, deploying the ZYCOO SQ10-T network square speaker offers a more intelligent and connected worship experience.

Equipped with an LCD screen, the SQ10-T can display real-time prayer schedules, customized messages, and color-coded notifications, allowing the mosque to easily share important updates or prayer reminders. During prayer times, the speaker automatically plays Adhan reminders, ensuring worshippers stay aligned with the designated prayer schedule.

Additionally, the SQ10-T features a built-in high-definition microphone, enabling two-way communication with mosque staff.

◆ Daily announcement
◆ Emergency evacuation
◆ Voice paging
◆ Play Imam`s sermons and Quran recitations
◆ Preset screen display
◆ Two-way communication with a call button
◆ Clock system
◆ Centralized management

SQ10-T

08:30 PM MAY 15 FRI

◆ Daily notification
◆ Emergency evacuation
◆ Voice paging
◆ Play Imam's sermons and Quran recitations
◆ Certified in IP65 water & dust proof (SL30 only)
◆ Centralized management

SC15   **SW15**   **SL30**

◆◆ Entrance & Hallways

The entrance and hallways of a mosque serve as essential passageways for worshippers, making them key areas for communication and guidance. To enhance operational efficiency and improve the worship experience, the ZYCOO SW15 wall-mounted network speaker and VI-A05 emergency intercom are deployed.

The system provides scheduled broadcasts for prayer time reminders, event announcements, and important updates, ensuring that worshippers stay informed at all times. In the event of a fire, evacuation, or other emergencies, it delivers clear and immediate instructions to facilitate a safe and orderly response.

With independent volume control and zone-based broadcasting, announcements in the entrance and hallways can be managed separately to avoid disrupting the serene atmosphere of the main prayer hall.

◆◆ Lecture Room / Conference Room

The Lecture Room / Conference Room in a mosque serves as a vital space for religious teachings, educational training, community meetings, and academic discussions. To ensure clear and high-quality audio transmission for sermons, lectures, and discussions, the ZYCOO SD260 Network Power Amplifier is deployed as the core audio amplification system, delivering stable and high-fidelity sound to passive speakers.

With Bluetooth connectivity, the SD260 allows seamless wireless streaming from mobile devices, making it easy to play religious lectures, Quran recitations, or background music, enhancing the learning and discussion environment. Additionally, the SD260 supports Dante audio input, enabling professional-grade audio integration for more stable and high-quality sound transmission. Its ultra-low distortion rate (0.05%) ensures crystal-clear audio reproduction, making sermons, conferences, and religious ceremonies more immersive and intelligible.

SW15

- ◆ Daily announcement
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam`s sermons and Quran recitations
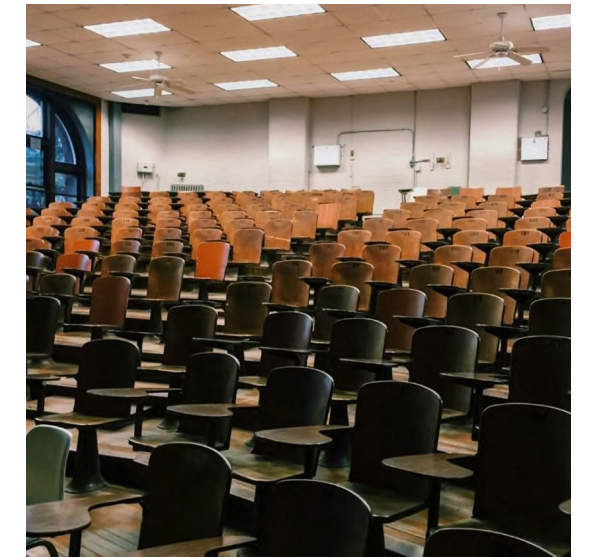- ◆ Centralized management

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VI-A05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Centralized management
- ◆ Certified in IP66 water & dust proof
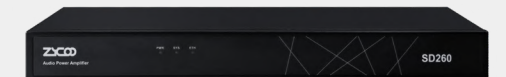- ◆ Certified in IK10 impact resistance

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- ◆ Daily announcement
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam`s sermons and Quran recitations
- ◆ Bluetooth & Dante audio input
- ◆ Wireless Microphone Input
- ◆ SIP PA integration

SD260

SC10   SC15   SW15   SL30

- ◆ Daily notification
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play Imam's sermons and Quran recitations
- ◆ Certified in IP65 water & dust proof (SL30 only)
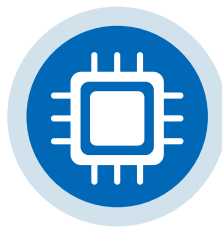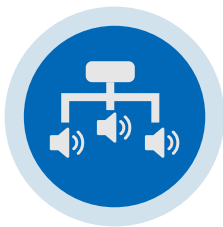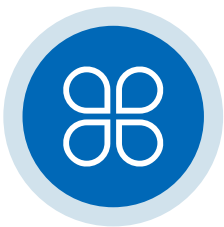- ◆ Centralized management

BENEFITS

01. Comprehensive Server-based Solution Provided

Choose ZYCOO's all-in-one comprehensive IP communication solution. Utilizing a server-client architecture, the server (IP Audio Center) centralized manages endpoint devices, while desktop or mobile software facilitates operations on these endpoint devices, which brings high convenience. And all IP endpoints come with independent GUI interfaces for easy configuration.
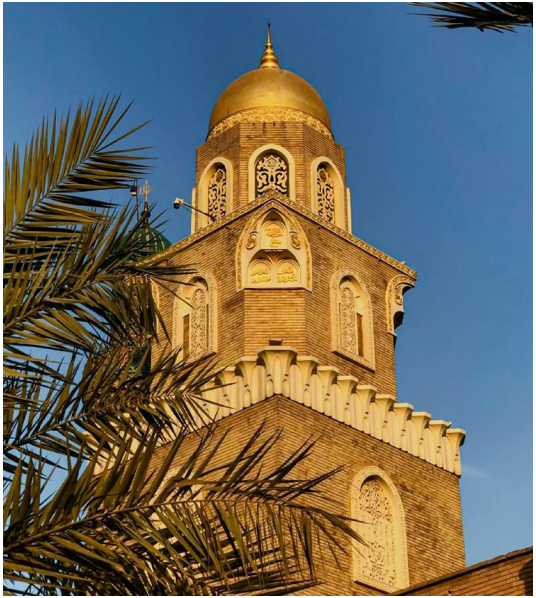
This solution provides extensive functionality support, even for advanced telecommunication features like SIP trunk, inbound routing, IVR navigation, and more. It also supports server-less communication modes such as multicast and peer-to-peer (P2P).

02. Standalone Server-less Solution Provided

For those who do not want to use the server, ZYCOO also provides server-less independent microphone console solution based on the M100. Using the M100's multicast feature, it allows some basic features like individual or group announcements and music playback.

It also supports event scheduling, enabling timetabled tasks to be executed at specific times. With its built-in 32GB industrial-grade TF card, audio files in WAV or MP3 formats can be uploaded, making it an ideal fit for mosque environments.

03. Seamless Technical Compatibility

Choose the ONVIF-based independent communication solution. Using an ONVIF supported VMS platform, ZYCOO speakers can be registered for individual paging through software, providing real-time announcements alongside surveillance to stop illegal activities.

Additionally, ZYCOO Dante power amplifier supports the Dante protocol, allowing real-time audio transmission to other Dante devices for enhanced synchronization and audio quality.

04. High Integration Capability

The system's multiple peripheral interfaces allow for seamless connection with devices such as alarm lights, door sensors, and various types of detectors, broadening the range of scenarios in which the public address system can be applied.

By integrating with environmental monitoring equipment, the system can promptly issue alerts in case of abnormalities, ensuring the monitored areas remain secure and maintaining overall safety.