SPON

Innovate For Security

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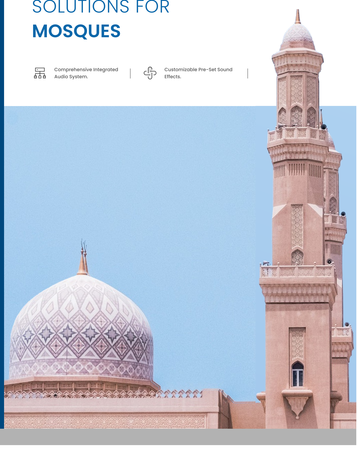
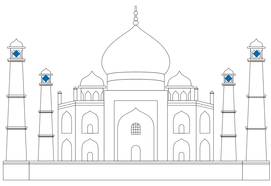
SPON

SOLUTIONS FOR **MOSQUES**

Comprehensive Integrated Audio System. | Customizable Pre-Set Sound Effects.



Why Is Necessary To Use **Sound Amplification** At Mosque



▲ **Ensuring Audibility In Large Spaces:**
In Mosques, Especially During Significant Religious Gatherings Or Prayers, Sound Amplification Ensures That The **Imam's** (Prayer Leader's) Voice, Recitation Of The **Quran** And Sounds From Other Religious Ceremonies Are Clearly Heard By All Attendees, Regardless Of Their Location Within The Mosque.

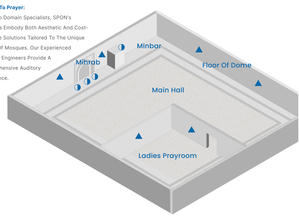
▲ **Enhancing Community Engagement:**
Amplification Allows More People To Hear Sermons, Lectures, And Announcements, Fostering Greater Community Involvement And Connection.

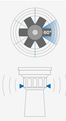
▲ **Disseminating Important Information:**
Apart From Prayers, Amplification Systems Are Used To Convey Community Notices, Educational Activities, And Other Significant Messages.

▲ **Call To Prayer:**
Sound Systems In Mosques Broadcast The Call To Prayer, Or Adhan. They Facilitate The Observance Of The Five Daily **Salah** Prayers - **Fajr**(Pre-Dawn), **Dhuhr**(Midday), **Asr**(Afternoon), **Maghrib**(Sunset), And **Isha'i**(Evening) - At Their Specific Times. This Ensures Clear Communication, Enabling Community Participation In These Significant Rituals, Thereby Fostering Religious Discipline And Enhancing Communal Unity.

System **Deployment** Architecture And **Overview**

▲ **Call To Prayer:**
As Audio Domain Specialists, SPON's Products Embody Both Aesthetic And Cost-Effective Solutions Tailored To The Unique Needs Of Mosques. Our Experienced Solution Engineers Provide A Comprehensive Auditory Experience.





◆ MINARET

Horn Speaker:
Durable, Weatherproof Outdoor Speaker With Powerful Long-Range Capabilities.

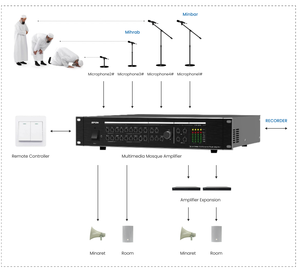
Six Horn Speakers, Each With A 60° Coverage Angle, Strategically Placed In A Minaret, Effectively Encompass The Entire Area.

Inside Of Dome

Main Hall:
▲ **Wall Mounted Speaker:**
Wide Frequency Response With Perfect Clarity.

Mihrab:
◑ **Gooseneck Mic:**
Get Strong Directional Sound Capture.

System Overview High **Integration** And Easy **Expandability.**



▲ **High Integration And Easy Expandability:**
The power amplifier in the mosque is a multifunctional unit, combining a mixer, effects processor, and power amplifier in one. This all-in-one solution is ideal for medium and small-sized mosques, efficiently handling their sound amplification needs. It also boasts a variety of external interfaces, enabling easy expansion with additional constant voltage amplifiers should the need for more power arise.

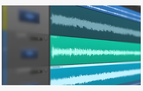
System Configuration Overview High **Integration** And Easy **Expandability**.

▲ 1. User-Friendly Design for Daily Operations.

- **Simplified Daily Operation:**
The system is designed for ease of use in daily mosque activities, requiring minimal technical knowledge.
- **Enhanced Voice Intelligibility and Feedback Control:**
Incorporates a 3-band equalizer to manage sound levels both inside and outside the mosque, reducing feedback and ensuring clear, celestial sound quality.

▲ 2. Customized Sound Quality And Effect

- **Optimal Microphone Sensitivity:**
Adjusted sensitivity to suit the distance between the microphone and the Imam, enhancing voice clarity.
- **Pre-programmed Sound Effects:**
Built-in sound effector with adjustable reverberation, ideal for enhancing acoustics in small and medium-sized mosques.
- **Digital Signal Processing:**
Ensures high-quality sound output, complemented by pre-set special effects for optimal audio experience.



▲ 3. Outdoor Speaker System

- **Wide-Range Horn Speakers:**
Installed on the minaret to broadcast the Azan effectively over large areas. SPON's built-in speaker EQ, tailored for horn speakers, minimizes feedback and heightens voice clarity.

- **Weatherproof Design:**
Specifically built for outdoor use, these loudspeakers are weather-resistant and less prone to damage.

System Configuration Overview High **Integration And Easy** Expandability.

▲ 4. Safety Mechanisms For Amplifiers

- **Multiple Protection Features:**
Built-in mechanisms guard against overload, short-circuit, and overheating, ensuring stable and safe operation.

- **Enhanced Outdoor Safety:**
Includes specialized protections like lightning and surge protection, enhancing stability and resilience in outdoor settings.

▲ 5. Sound Mixing and Amplification

- **Integrated Mixer for Religious Activities:**
Supports connection with up to 4 microphones, catering to prayers, religious teachings, and preaching in mosques, besides.
- **Powerful Two Channel Amplifiers:**
Features 2×240W amplifiers, each with independently adjustable volume, for balanced sound distribution.
- **Remote Amplifier Control:**
Equipped with a remote control panel to manage amplifier channels, essential for adjusting outdoor sound during worship.

Multimedia **Mosque Amplifier**

▲ TECHNICAL PARAMETERS

Power Input	AC 220V~50Hz
Rated Output Power	2 × 240W
Frequency Response	20Hz (+3dB) to 20kHz (+3dB)
Total Harmonic Distortion	≤0.1% at 1kHz, 1/3 rated power
MIC Input	MIC1、MIC2：Sensitivity/Impedance/SNR：-40dB / 600Ω / >70dB MIC3、MIC4：Sensitivity/Impedance/SNR：-10dB / 10KΩ / >80dB
Individual Channel Control	Supports separate volume adjustment along with low, mid, and high-frequency tuning for each channel
AUX Input	Sensitivity/Impedance/SNR：-6dB/10KΩ/82dB
AUX Output	Two channels, 1000mv each
Output Channel Volume	Two channels, independently adjustable with reverb time control
Total Volume Adjustment	Supported
Amplifier EQ Adjustment	Supported, with adjustments for low, mid, and high frequencies

Remote **Controller**

▲ TECHNICAL PARAMETERS

Power Supply	Powered by the main unit
Communication Ports	RS485
Switch Control	Amplifier channel switch control

HORN **SPEAKER** (30W/100V)

▲ TECHNICAL PARAMETERS

Rated Power	30W (with power/impedance options of 30W/20W/10W/5W/2.5W/1.25W)
Maximum Power	40W
Input Method	100V
Sensitivity	90dB
Frequency Response	70-20kHz
Dimensions	290×200×150mm
Weight	3.6kg

WALL-MOUNTED **SPEAKER**

▲ TECHNICAL PARAMETERS

Rated Power	50w
Maximum Power	70W
Rated Voltage	100V
Sensitivity	105dB±3dB
Frequency Response	380Hz-4.5kHz
Dimensions	325×325×350mm
Weight	2.58kg