

# Praesideo sound management

## Application Note: Large Mosques

- ▶ EN 54-16, ISO 7240-16 and EN 60849 certified
- ▶ Superb sound & speech reproduction
- ▶ Multi-zone functionality
- ▶ Easy-to-use: intuitive user interfaces
- ▶ Extensive integration possibilities



# BOSCH

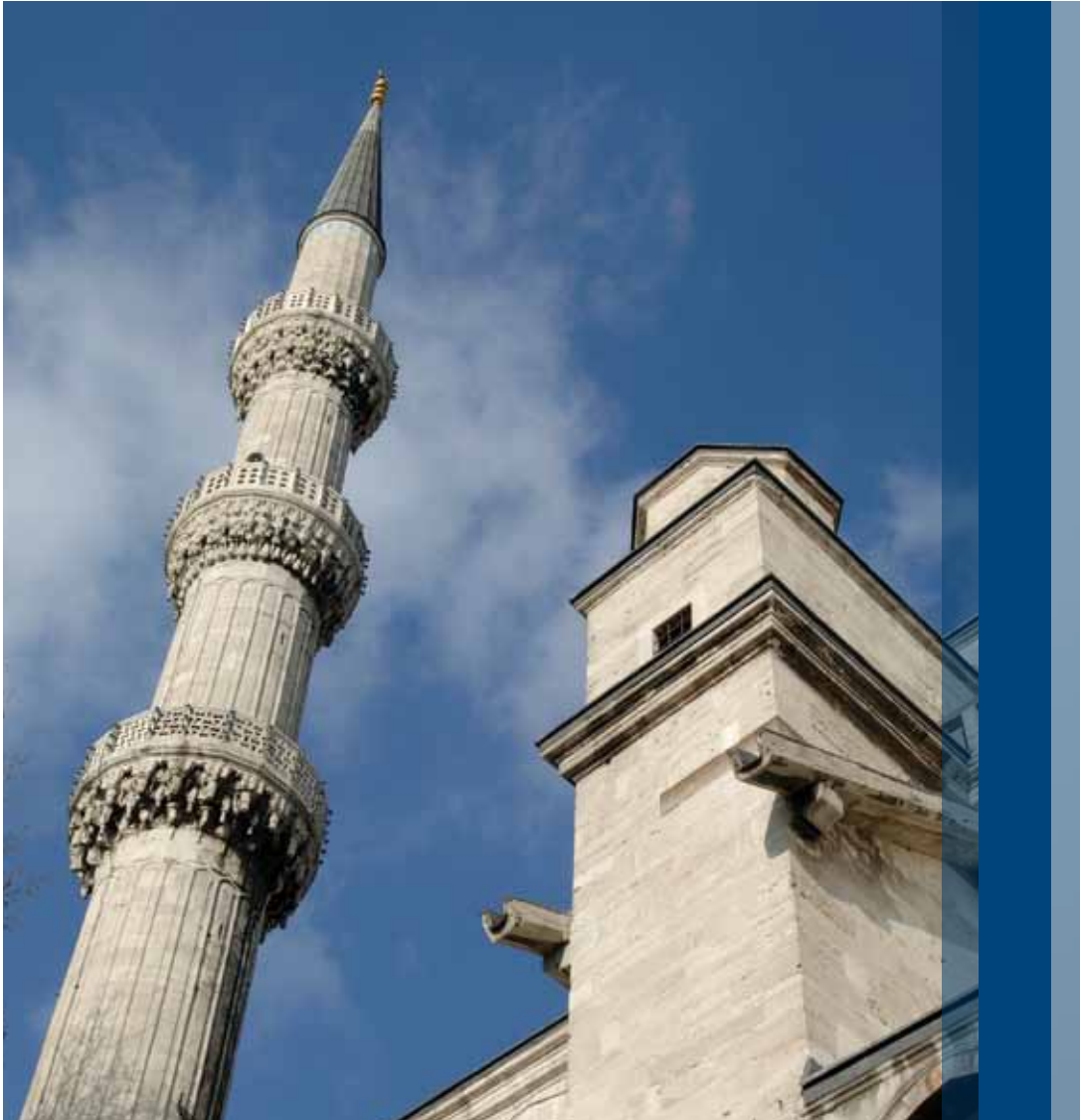
Invented for life



### Introduction

Praesideo is the ideal solution for effective sound management in large mosques. The world over, mosques stand proudly in cities and towns. They vary from small single-storey buildings to complexes with classrooms, offices, minarets, gateways and domes. Public address in a mosque is primarily for amplifying prayers. The number of PA zones is determined by segregated male and female areas, prayer hall, ablution areas, minaret

and so on. A CD player/recorder is also required for playing back Qur'an readings, and recording prayers, sermons and events. The PA system can also interface with the mosque's fire detection system. The Praesideo public address system provides amplification and crystal clear digital sound without detracting from the mosque's architectural beauty.

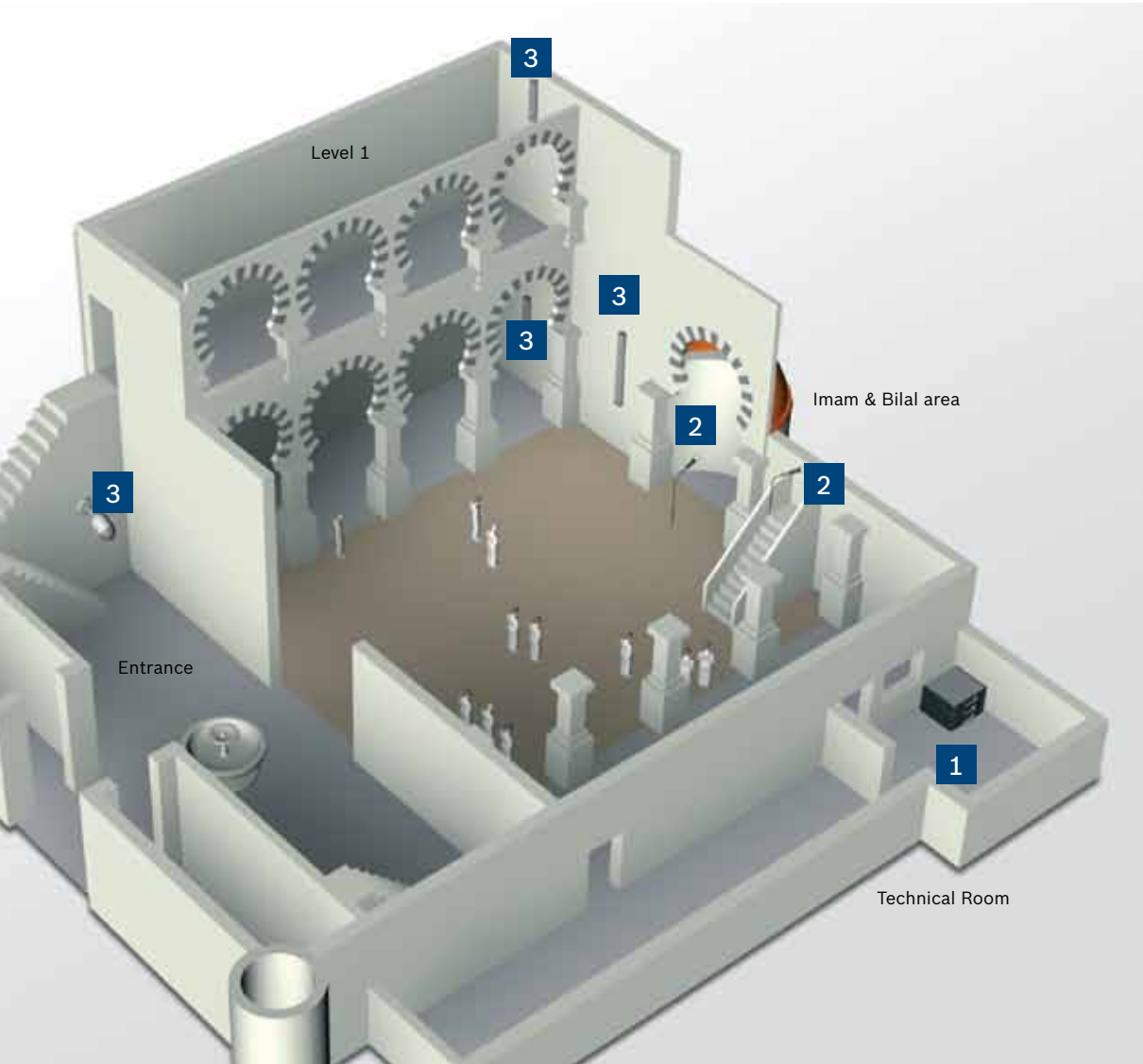


### Summary of requirements

- ▶ Typically 4 to 10 zones
- ▶ Speech intelligibility is priority
- ▶ Microphones for Imam and prayer caller
- ▶ Interface to fire alarm system
- ▶ Digital Sound Processing

### Solution

Praesideo provides interference-free audio with routing for up to 28 digital audio channels. The system's built-in supervision and redundancy includes a system bus loop and automatic spare amplifier switching. Praesideo's 'wire-free' loudspeaker supervision continuously monitors the functioning of all individual loudspeakers, including the horn loudspeakers mounted in the minaret. Fault conditions are immediately reported, allowing corrective action to be taken.



- 1 Equipment racks
- 2 Microphones
- 3 Speakers

### System description

The system is a combination of a Praesideo system, wired and wireless microphones and a CD player/recorder. Different power amplifier types are used to meet the specific power requirements of each zone. In the main prayer hall, vari-directional active line array loudspeakers are used. The available analog audio inputs and outputs on the Praesideo system are used to connect the CD player/recorder and the wired and

wireless microphones for the Imam, the prayer leaders and the Bilal (the prayer caller). Each input can be easily routed to any of the zones. Praesideo audio inputs and outputs have a digital parametric equalizer to optimize speech intelligibility in each area. Praesideo amplifiers also have built-in Automatic Volume Control to ensure the volume of all loudspeakers is at a comfortable listening level regardless of the surrounding noise



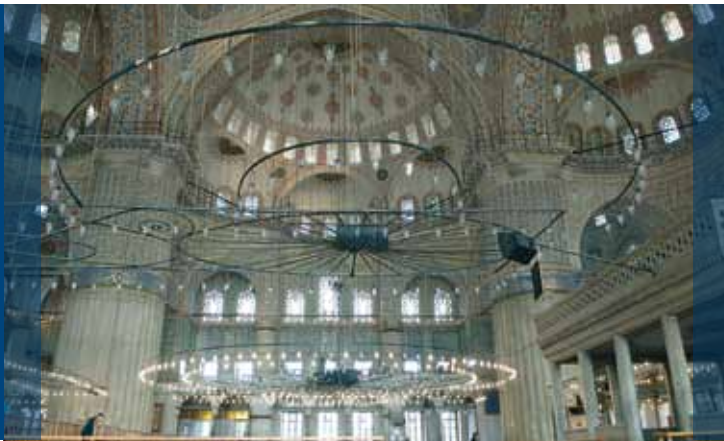
### Certified solutions

As part of the Bosch Security Systems commitment to meeting international standards, Praesideo meets legislated requirements for voice alarm systems. Praesideo by Bosch is certified according to EN 54-16, ISO 7240-16, EN 60849 and compliant with BS 5839:8. The system is also certified for many local evacuation standards.

### Complete security solutions

Bosch Security Systems offers a wide range of security, safety, and communication solutions that are relied upon every day in applications and places around the world, from government facilities and public venues to businesses, schools and homes.

**For more information about the Praesideo Digital Public Address and Emergency Sound System, please feel free to contact your nearest Bosch representative or visit our website: [www.boschsecurity.com](http://www.boschsecurity.com).**



**EN54-16**

EVAC Certified  
Emergency  
Voice Alarm

### Bosch Security Systems

To learn more about our product offering, please visit [www.boschsecurity.com](http://www.boschsecurity.com) or send an e-mail to [emea.securitysystems@bosch.com](mailto:emea.securitysystems@bosch.com)

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