



Bosch Praesideo sound management in large Mosques



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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. Praesideo public address system provides amplification without detracting from the mosque's architectural beauty.

Introduction

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 prayer, sermons and events. The PA system can interface with the mosque's fire detection system.

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 built-in supervision and redundancy includes system bus loop and automatic spare amplifier switching. Praesideo's 'wire-free' loudspeaker supervision continuously monitor functioning of all individual loudspeakers, including the horn loudspeakers mounted in the minaret. Fault conditions are immediately reported, allowing corrective action to be taken.

System description

The system is a combination of Praesideo, wired and wireless microphones and a CD player/recorder. Different power amplifier types are used to meet the specific power requirements of each specific zone. In the main prayer hall, Intellivox active line array loudspeakers are used.

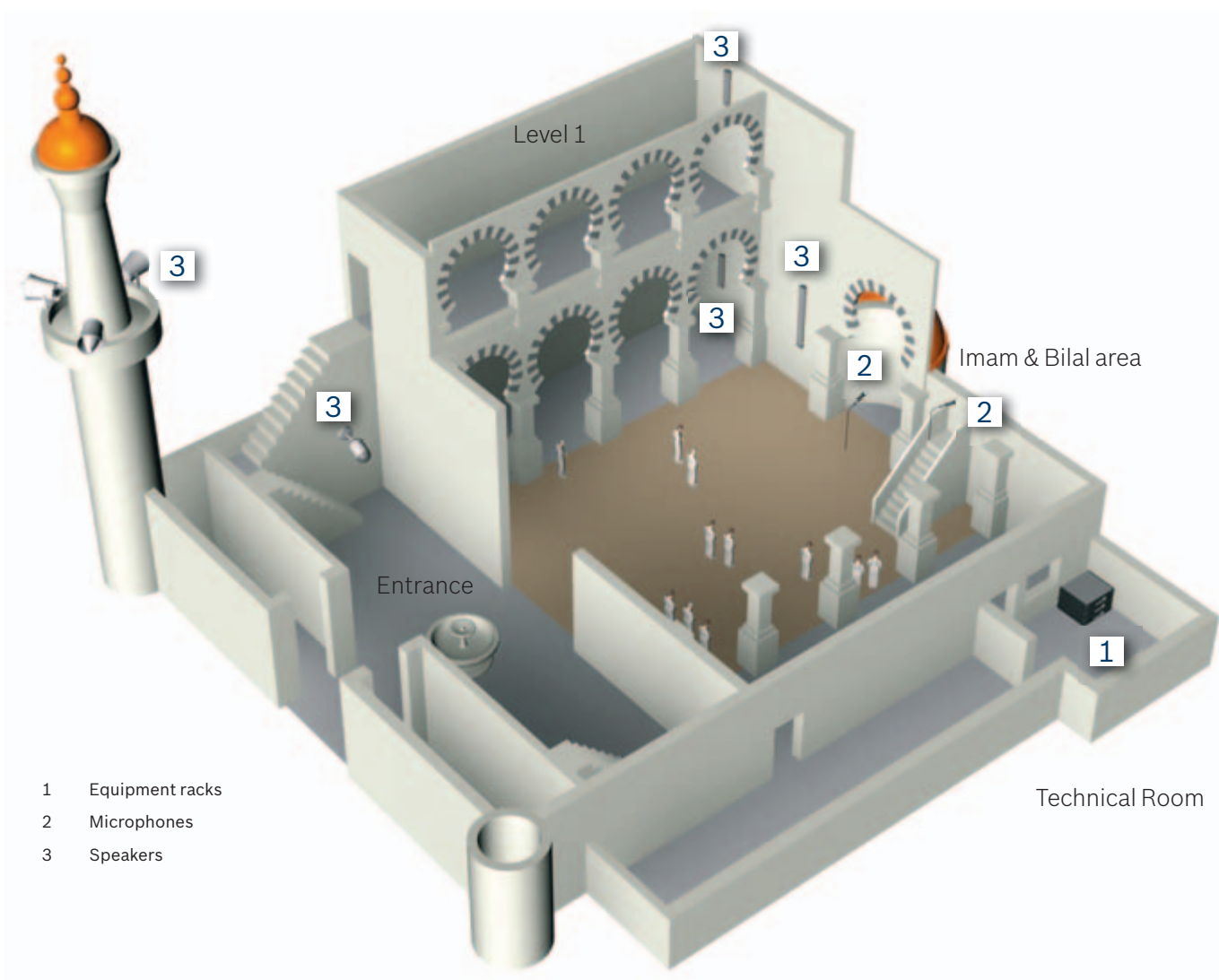
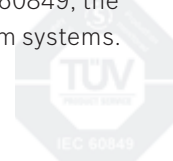
The available analog audio inputs and outputs on the Praesideo system are used to connect the CD player/recorder and the wired and wireless



microphones for the Imam, the prayer leaders and for 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 comfortable listening level regardless of the surrounding noise.

TÜV certified

Praesideo is certified by TÜV for IEC60849, the international standard for voice alarm systems.



Bosch Security Systems

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Printed in The Netherlands
Modifications reserved
PA-EH-en-06_4998146792_03

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