

Bosch Praesideo voice evacuation in universities



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Summary of requirements

- Overall control from the main building
- Separate paging in several study faculties
- Voice evacuation in student accommodation
- BGM in catering facilities
- Commentary in sports field or stadium
- Interface to fire alarm system
- IEC60849 compliant

University campus

A university campus typically features a main building housing, the central administration plus several faculties for the various study disciplines. Each faculty may have lecture theaters, smaller lecture rooms, offices for personnel and other facilities for study. Most universities also have on-campus student accommodation, a sports field and catering services. Similar applications include training camps and military bases.

Introduction

Praesideo is the perfect solution for larger applications with several locations such as universities. It handles message routing (paging), emergency voice evacuation, local amplification for lecture theaters, commentary for sports events and background music in the catering zone. The system's daisy-chain network topology enables equipment to be located wherever it is required, and facilitates expansion without the need for re-wiring. Built-in supervision and redundancy, including a system bus loop, class-A loudspeaker loop and 'wirefree' digital line and loudspeaker supervision.

Solution

The Praesideo System equipment racks are distributed throughout the faculties and other locations. With up to 28 audio channels (routed via glassfiber cables), the system can easily accommodate local amplification in lecture halls located in each faculty and in the sports facility.

System description

The total Praesideo System comprises a network controller, audio expanders, multi channel interfaces, power amplifiers and call stations. The Praesideo Network Controller manages the public address and voice alarm functions, and is connected to the university's fire detection system. For zones that do not require specific sound processing, a multi channel interface in combination with Praesideo class-D Power Amplifiers is used, resulting in a flexible and more cost effective solution.





Multiple systems

For large sites with several buildings located at longer distances from each other, multiple Praesideo systems can be installed. All systems can easily be controlled from a central location using PC or touch screen controlled call stations, while local call stations in each building/faculty can be programmed to only access specific zones for local paging. Lecturers use wireless microphones that only be heard in the appropriate zone. Audio between the systems is routed via Ethernet using CobraNet™ technology.

TÜV certified

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



- 1 Sports facility
- 2 Student accommodation
- 3 Small & large lecture theatres
- 4 University campus
- 5 Main administration, Large theatre
- 6 Catering services
- 7 Indoor sports facility



Bosch Security Systems

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