

# Bosch Praesideo voice evacuation in Cruise Ships

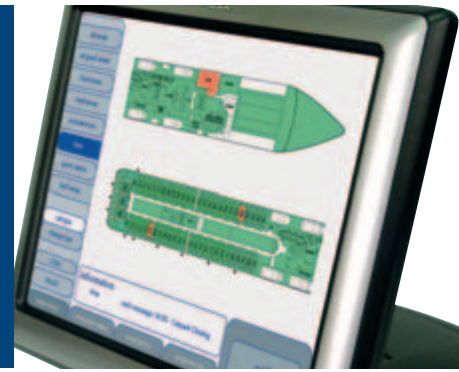


**BOSCH**

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# Praesideo voice evacuation in Cruise Ships



## Summary of requirements

- EVAC zones corresponding with ship fire zones
- Interface to fire alarm system
- A-B system set-up
- SOLAS, IEC60849 and BS5839 compliant
- Non emergency paging functionality
- Flexible BGM control
- Interface to ship entertainment system

## Cruise ships

Creating a pleasant atmosphere for passengers and ensuring their safety in the event of an evacuation are crucial considerations for a PA system on cruise ships. The system is a multi-zone configuration with a relatively high number of audio channels, with local volume control and source selection in passenger areas and cabins. It must also conform to the international SOLAS treaty and interface with the ship's fire detection system.

## SOLAS certified

Praesideo complies with all treaties for commercial ships engaged in international service, and is recognized by all major maritime nations. Praesideo is SOLAS ('Safety of Life at Sea' – the most important maritime safety treaty) certified by the Germanischer Lloyds. Praesideo includes standard maritime alarm tones, and interfaces with fire alarm control, weather alarm, security alarm and other third-party systems.

## Solution

Praesideo is fully digital, offering CD quality and disturbance-free audio. Its flexible 'daisy chain' network topology allows system units to be placed on different locations throughout the ship connected via glassfiber cabling. Zones are identified in the decks, cabins, function rooms and engine room.

## System description

On cruise ships, two complete systems are always installed at separate locations ('A-B configuration'). Each zone is connected via dual loudspeaker lines to both systems. The system incorporates rugged paging call stations (Praesideo call station kits).

- 1 Equipment racks
- 2 Fireman's Panel
- 3 Call Stations
- 4 Control and logging software



touchscreen-controlled call stations with a graphical user interface and an emergency call station on the bridge with duplicated electronics connected to both systems (A and B).

Various power amplifiers are used to meet the power requirements of each specific zone. Music sources (in public -areas and function rooms) connected to the line inputs of the NCO can be routed to the different public areas. Audio from the entertainment system is routed to Praesideo in the digital domain using Cobranet technology.

### Loudspeaker monitoring

Loudspeaker lines and individual loudspeaker at crucial locations are supervised using Praesideo's 'wire-free' multiple-line and loudspeaker supervision. Spare amplifiers are used to automatically take over in case a power amplifier fails. Fault conditions are immediately reported, allowing corrective actions to be taken.

### Automatic volume control

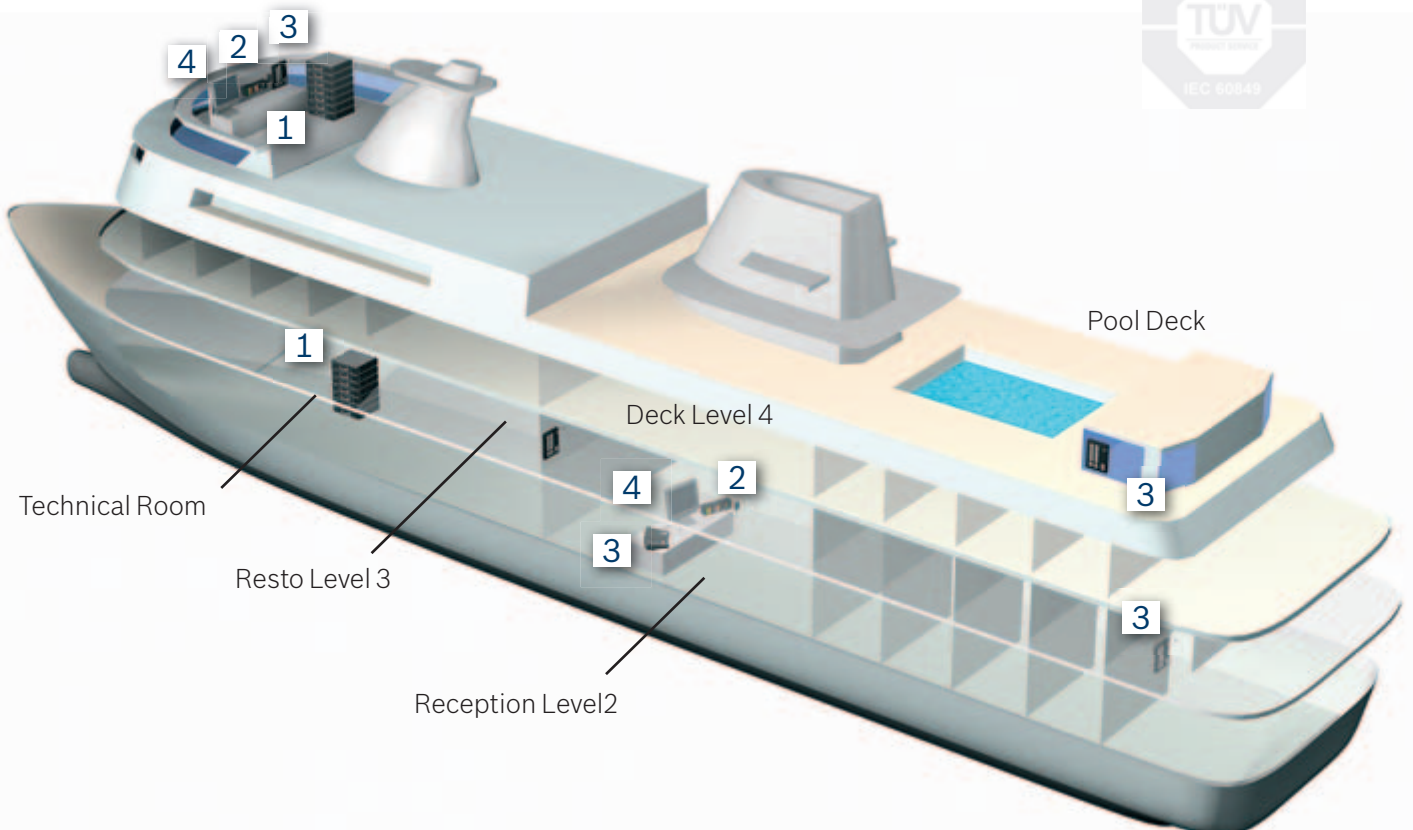
Built-in Automatic Volume Control in all Praesideo amplifiers ensures a comfortable volume level regardless of the surrounding noise. It assures excellent clarity of announcements, paging and evacuation messages.

### TÜV certified

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



Bridge & Technical Room



### **Bosch Security Systems**

For more information please visit  
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