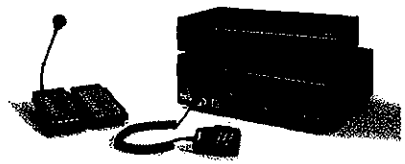
Plena Voice Alarm System

Product Launch

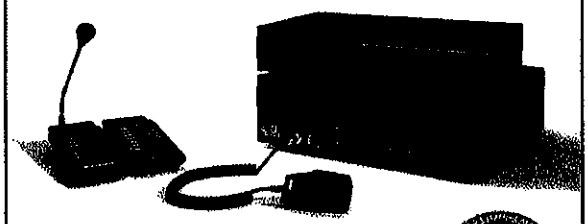


Agenda

1330 hrs	**Guest Seated**	
1400 hrs	**Welcome Speech**	**Juergen Alz** **--Director Product Marketing**
	**********	
1415 hrs	**Short Video Clip (65 secs)**	
	General/Commercial Intro. To Plena VAS	**Gary Chang** **- Product Manager, Supply Centre**
1500 hrs	**Technical Presentation (Part I)**	**Gary Chang**
1530 hrs	**Coffee Break**	
1545 hrs	**Technical Presentation (Part II)**	**Gary Chang**
1630 hrs	**Demonstration System**	**Gary Chang**
1700 hrs	**Questions & Answers Session**	**All**
1730 hrs	**End of Programs**	







Plena Voice Alarm System

Objectives

- Further growth of the Bosch Security Systems BU Communications market share in the public address and voice alarm market.
- Complete, up to date and competitive product portfolio to cover all market segments
- Further completion of product family approach
  - Plena
  - Praesideo

Security Systems BU Communication Systems **BOSCH**

System elements

- LBB1990/00 Controller
  - Complete stand-alone 6 zone Voice Alarm unit
  - Built-in booster amplifier (240W)
  - Built-in intelligent message manager with up to 255 messages
  - Fully supervised including loudspeaker line impedance supervision
  - 1-channel or 2-channel operation (with external booster)
  - EMG microphone on front panel (included)
  - BGM volume control per zone



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System elements

- LBB1992/00 Router
  - Same output functionality as controller except BGM volume control
  - Add 6 additional zones to a system
  - Use the Controller booster or any booster in the Plena range



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System elements

- LBB1956/00 Call Station
  - 6 Programmable keys and an all-call button
  - Fault-, EMG-, power OK and Zone indication
  - Built-in Limiter
  - Business calls only (not supervised)



- LBB1957/00 Call Station keypad
  - Add 7 programmable keys to Call Station
- Up to 2 Remote Control Panels (RCP) can be connected (Phase 2)
  - Same user interface as the Controller / Router (limited BGM control)
  - Up to 9 RCP extensions can be connected
  - Also available as a kit



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Key features

Complete Voice Alarm & Public Address solution

- IEC60849 Compliant
- Easy to install
- Easy to expand
- Easy to operate
- Economic solution for small to medium sized applications.



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Key features

IEC60849 Compliant

- Fully supervised including
  - emergency microphone on front panel
  - system interconnections
  - loudspeaker line impedance supervision
  - except call stations
- Spare amplifier switching
- Built-in supervised message manager
  - with unique message merge functionality



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Key features

IEC60849 Compliant

- Up to 60 emergency trigger inputs (6 per controller / router)
  - Up to 180 in phase 2
- 16 priority levels
- 24 V battery back-up input
- Fireman's panel user interface
  - Customized fireman's panel with optional remote control panel kits (phase 2)



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Key features

Easy to expand

- Out of the box supervised 6 zone Voice Alarm System
- Expandable up to 60 zones using additional Routers
- Additional power or 2 channel operation by adding Plena Booster Amplifiers
  - Up to 480 Watt per 6 zones
- Up to 8 call stations and 32 keypads
- Up to 2 Remote Control Panels (phase 2)
- Easily integrate with other systems like Praesideo



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Key features

Easy to install

- Out of the box 6 zone system
- Quick settings via DIP switches at the back of the controller
- More advanced settings via software tool
  - delivered with controller LBB1990
  - connection via serial USB port
- System elements interconnects easily via standard CAT5 cables and RJ45 connectors



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Key features

Easy to operate

- Clear user interface on front panels
- Customized label for EVAC button on Controller / Remote Control Panel
- Emergency, Power, Call, Fault and Zone indication on call station
- Call station key labeling as on the LBB1946/00



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IEC60849 Conformity

- The Plena Voice Alarm System will be tested by the TUV to confirm IEC60849 compliancy
- Official TUV test report will be used in the market to proof compliancy
- The Plena Voice Alarm System will not be IEC60849 Certified like Praesideo





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Product positioning vs Praesideo

Main differences





Analog system	Fully digital system
100V line switching	Digital matrix switching
1 or 2 channel operation	28 audio channels
Up to 60 zones	Up to 240 zones per system
Up to 480 Watt per 6 zones	Unlimited power per zone

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Product positioning vs Praesideo

Main differences





To be used with Plena Booster Ampl.	Dedicated Praesideo amplifiers
Loudspeaker impedance supervision	WLS Loudspeaker line supervision
Call stations not supervised	Fully supervised
Integrated fireman's panel interface	Custom made panels
CAT5 cable with RJ45 connectors	Optical fiber cable
Alarm tones & chimes are WAV files	Generated by Network Controller

Product positioning

Correct positioning of the Plena Voice Alarm System is essential.

Application types:

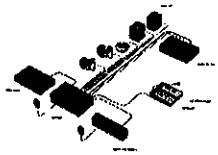
- Small systems where compliance to IEC60849 standard is required
- Systems with many small zones (e.g. schools)
- Medium-sized systems where 1 call channel is enough

Application Areas

Recreation Facilities

Typical Requirements:

- Up to 6 zones
- IEC60849 compliant
- High power requirement in noisy sport / recreation area
- Call station in reception and office
- Paging and BGM functionality





Application Areas

Hotels

Typical Requirements:

- 10 – 20 zones
- IEC60849 compliant
- High power requirement per zone (multiple loudspeakers)
- Call station in reception and office
- Fireman's panel by exit
- Paging and BGM functionality





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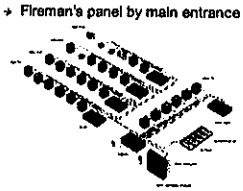
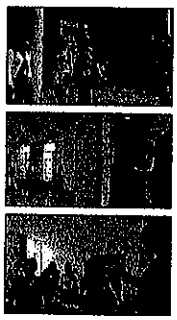
Application Areas

Schools / Universities

Typical Requirements:
- 20 – 60 zones
- IEC60849 compliant
- Low power requirement per zone (1 loudspeaker)
- Call station in main office
- Fireman's panel by main entrance





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Application Areas

Shopping Malls

Typical Requirements:
- Up to 60 zones
- IEC60849 compliant
- Low / medium power requirement per zone
- Call station in security room
- Fireman's panel at exit
- BGM in public areas and shops



