

Bosch Plena Public Address Solutions

A flexible approach to sound management



BOSCH

Invented for life



Your easy-to-expand **public address system**

Whether it is a local supermarket, a larger retail chain, an office complex, warehouse, or a popular self-service lunch spot, every location is unique with its own specific requirements. This is why the Bosch engineers designed this comprehensive and highly functional range of public address equipment.

Plena Public Address Solutions can be used to tailor virtually any public address system to the precise needs of small-to-mid-sized locations. It can develop to an extensive, multi-zone public address configuration with digital messaging, automated functions and additional power capability.

A qualified Bosch dealer will be more than happy to advise which Plena Public Address Solutions are best suited to the site and desired functionality. Bosch dealers can help you automate your current Plena system with a digital message manager and weekly timer, increase your input options with a background music source or even help you extend your system's power capabilities. With Plena Public Address Solutions, extending a public address system or integrating time-saving automation is easy and efficient.

Sturdy and durable, all Bosch Plena Public Address Solutions are built to last without overlooking user-friendly functionality, sound quality and speech intelligibility.



**Record and play
your messages**



Improve speech intelligibility in difficult acoustic environments

Time your messages and music levels

Announcements in up to 6 zones

High performance mixers and pre-amplifiers for every application

Loop amplifier for assistive listening device users



Watching, listening, mixing and amplifying in one device.

Extra power for large spaces or distances

Listen to the radio, a CD or watch a DVD



System Pre-Amplifier

- ▶ **Six-zone capability**
- ▶ **Two inputs for multiple loop-through call stations**
- ▶ **Separate music and call channels with dedicated tone controls**
- ▶ **Emergency input with Voice Activated Switching (VOX)**
- ▶ **Selectable alarm tone, time signal and chimes**

This high performance, versatile public address pre-amplifier features single channel and dual channel operation for simultaneous calls and background music. Extremely flexible with up to six-zone coverage, this amplifier is designed to be used with the Plena message manager/timer and Plena amplifiers.

Universal Pre-Amplifier

- ▶ **Full-featured four-input mixer**
- ▶ **Three different input priority modes**
- ▶ **Individual audio settings for each input**
- ▶ **Interconnection for external equipment**

A universal solution with mixing, blocking or serial input priority modes, this pre-amplifier can override loudspeaker volume controls for announcements. It also features a cascade mode in which multiple Plena Pre-amplifiers can be connected to increase the number of input channels.





Power Amplifiers

- ▶ **IEC60849 compliant (evacuation standard)**
- ▶ **120 W, 240 W, 480 W and 1000 W units**
- ▶ **70 V, 100 V and low-impedance outputs**
- ▶ **Temperature-controlled fan**
- ▶ **3 inputs with priority switching**

Compact, these power amplifiers with pilot tone supervision are available in 120 W, 240 W, 480 W and 1000 W versions. Highly dependable and solidly built, these amplifiers are protected against overload, short circuits and overheating. With 100 V - 8 ohm (70 V - 4 ohm) main power and a 24 V built-in backup charger, they provide the required power for any application.



All-in-One BGM/Paging System

- ▶ **Out-of-the-box solution for music and announcements**
- ▶ **Dual zone 120 W mixer amplifier**
- ▶ **Emergency input with Voice Activated Switching (VOX)**
- ▶ **DVD/CD player with MP3 compatibility**
- ▶ **Digital FM tuner with 10 presets**

A versatile audio/video solution for background music, announcements, paging and video presentation, this all-in-one unit is easy to install and use. Practical and universally compatible, users can listen to the radio and play DVDs and CDs including MP3-encoded discs.



DVD/CD player



2 zones





BGM Source

- ▶ Separate tuner and disc output
- ▶ Professional DVD/CD player with MP3
- ▶ Combined radio and disc output with automatic switch over
- ▶ Digital FM tuner with 10 presets
- ▶ Simultaneously plays images and music from a single disc

This professional-quality DVD/CD player lets users program up to 999 MP3 tracks. Thanks to separate outputs, the radio and DVD/CD player can operate simultaneously.



Feedback suppressor

- ▶ Acoustic feedback suppression based on unique patented algorithm
- ▶ Suppresses feedback before it occurs
- ▶ Easy-to-install and operate
- ▶ 2 input automatic microphone mixer
- ▶ Superb audio performance

Any installation with a microphone and speakers in the same room can benefit from this professional quality feedback suppressor with sophisticated digital sound processing to maintain top quality sound.

With 2 microphone inputs and a built-in auto-mixer, it's extremely easy-to-use, making it a popular choice in houses of worship, community centers, boardrooms and small-scale conference facilities.





Message Manager

- ▶ Stores 12 prerecorded messages
- ▶ 12 trigger inputs with front-panel and remote control capability
- ▶ Zone control for the Plena system pre-amplifier
- ▶ IEC60849 compliant for emergency sound systems

This highly flexible stand-alone digital message manager plays up to 12 messages in WAV format via either trigger inputs or buttons. Users can easily create, manage and upload messages.

Weekly Timer

- ▶ Two schedules possible
- ▶ Starts timed messages in combination with message manager
- ▶ Operation of up to 6 contact outputs
- ▶ Timed music level control
- ▶ Back-up battery keeps clock running

This accurate digital timing unit is suited for schools, retail chains and shopping malls, office buildings and other venues that need regularly timed messages, signals or automatic actions. Besides automated messages, the system can also be programmed to save energy, shutting off lights and stopping escalators.





Loop Amplifier

- ▶ High power loop amplifier for up to 600 square meters (6458 sq. feet)
- ▶ Two mic/line inputs
- ▶ Built-in limiter and automatic volume control (AVC)
- ▶ Metal loss compensation
- ▶ EN54 and IEC60849 compliant

An ideal way to integrate a solution for assistive listening device users, this loop amplifier is a cost effective unit designed to drive an installed wire loop located in either the floor or ceiling.





Charger

- ▶ **Four stage charger**
- ▶ **24 V and auxiliary power supply**
- ▶ **Fully supervised and EN54-4 compatible**
- ▶ **IEC60849 certified**
- ▶ **24 V outputs independent of charging voltage.**

An intelligent, microprocessor-controlled device, this high-tech charger guarantees that system is always ready. Rack-mountable, it charges lead-acid batteries and simultaneously provides 24 V for volume overrides (temperature controlled) and remote control.

Call stations

- ▶ **All-call and six-zone call stations**
- ▶ **Uni-directional condenser microphone on a flexible stem**
- ▶ **Excellent speech quality**
- ▶ **Matching tabletop condenser microphone**
- ▶ **6 zone call station features selectable gain and speech filter.**

Available with or without chimes, all call stations have a flexible stem condenser microphone with a sturdy metal base for excellent stability or flush-mounting.





As a world-class expert with industry-leading research and development, Bosch is known around the world for premium communications products and systems.

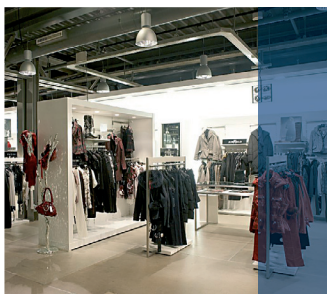
A company synonymous with innovation, quality and reliability, Bosch consistently introduces trustworthy yet versatile products based on years of experience and close customer interaction.

For more information about the Plena Easy Line Range, Plena Public Address Solutions and Plena Voice Alarm products, please feel free to contact your nearest Bosch representative or visit our website: www.boschsecurity.com



A Tradition of Quality and Innovation

For over 100 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.



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

Bosch Security Systems

To learn more about our product offering, please visit www.boschsecurity.com or send an e-mail to emea.securitysystems@bosch.com

© Bosch Security Systems, 2008
Printed in The Netherlands
Modifications reserved
PA-EH-en-01_F01U519328_01