

# PLENA

THE EASE OF AMPLIFICATION



RESTAURANTS, BARS AND HOTELS  
INDOOR AND OUTDOOR RECREATION AREAS  
PUBLIC BUILDINGS AND SCHOOLS  
SHOPS, MALLS AND SHOWROOMS  
FACTORIES AND WORKSHOPS  
PUBLIC TRANSPORT TERMINALS  
PLACES OF WORSHIP

*Let's make things better.*



**PHILIPS**

## DESIGNED FOR YOU ...

Philips is synonymous with quality and innovation in electronics. From high-volume consumer products to leading-edge professional solutions, the worldwide Philips concern is a leader in terms of technology and creativity. With over a century of experience and know-how to call on, Philips is in a uniquely strong position to translate customer requirements and wishes into products. These are designed with your needs in mind.

The Plena public address equipment family is the result of this commitment to making things better for you and your customers: the end-users. You can choose from a complete family of system elements that are easily built into versatile systems for a wide range of applications.



**PLENA** 

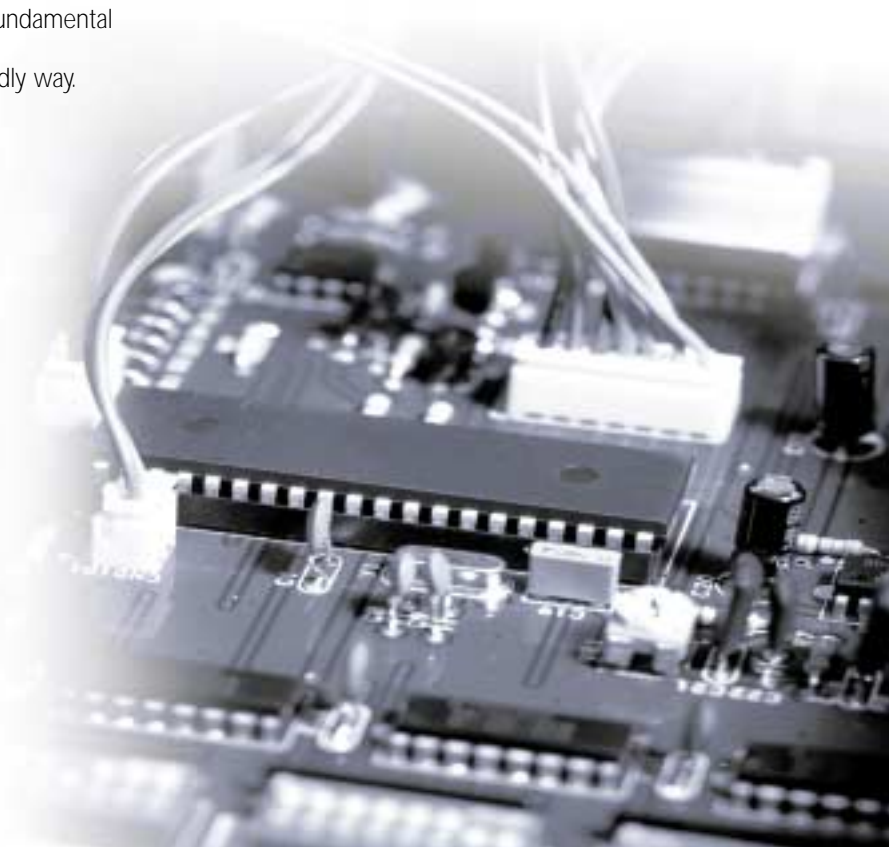
**FOR YOUR  
CUSTOMERS...**

Plena is one family in the extensive product and system range from Philips Communication, Security and Imaging (Philips CSI). Our solutions help serve the safety and security needs of people and their property, and enhance communication channels in our ever-changing world.

Businesses, government institutions and private individuals are entitled to a secure environment. These are your customers, and they have come to expect the reassurance and convenience of professional public address installations and observation systems. Philips CSI can help you meet these fundamental needs in a cost-effective, user-friendly way.

**AND FOR COMPLETE  
SATISFACTION**

We place great emphasis on developing reliable and robust products that are easy to understand, economical to install and a pleasure to operate. This is achieved without compromising functionality or limiting the potential for expansion. We use proven technology, reliable engineering and quality materials to produce the best equipment available in its class. And then we strive to ensure that solutions like Plena are available whenever and wherever you need them. In short, complete satisfaction for customers – yours and ours.



# PLENA

Plena is a complete range of public address solutions for wherever people gather to work, worship, trade or simply enjoy themselves. It is a family of system elements that enables you to specify and install public address systems tailored to almost all application needs. The range includes mixer amplifiers and pre-amplifiers, system ampli-

fiers and booster amplifiers, a source unit and dedicated call stations. Each one is designed to complement all other Plena units. The acoustical, electrical and mechanical specifications are in tune with each other, while the modern design and quality construction are consistent throughout the range.

*Integrated and fully featured  
CD player and tuner for all  
your music desires*



*Powerful, low-profile booster  
amplifiers for driving as many  
loudspeakers as you need*

## THE TOTAL PUBLIC ADDRESS SOLUTION

Whether you need to construct a modest announcement installation or a fully featured multi-zone solution, Plena has the building blocks for you to do so. Compatibility is

guaranteed, and because Philips CSI also offers loudspeakers, microphones and other professional audio components, you can call upon an unequalled range of products.



*Fully featured mixers and universal pre-amplifiers with four configurable input channels*

*A feature-packed system pre-amplifier with call and music channels into up to six zones*

*Dedicated call stations and a matching table-top microphone for a complete Plena system*

## PLENA MIXER AMPLIFIERS

- A choice of output power up to 120W
- Single and dual-zone mixer amplifiers
- Four balanced inputs
- Includes priority input with chime
- Separate emergency input

Plena mono mixer amplifiers have four microphone inputs, and separate emergency and music inputs. Additional functionality like priority assignment, VOX switching, speech filters and two-tone chimes are also provided. You can add Plena booster amplifiers to increase the loudspeaker driving capability. The dual-zone model directs sound (announcements or background music) to two separate areas – very useful if announcements or background music need not be heard everywhere. Two front panel switches direct the output to the separate zones.

The mixer amplifiers are available with a choice of 30W, 60W or 120W rated output power. They can drive 70V and 100V constant voltage outputs and low-impedance loudspeakers.



All models have interconnection facilities for connecting external sound processing equipment as an equalizer between the pre-amplifier and power-amplifier stages.

## PLENA UNIVERSAL PRE-AMPLIFIER

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- **Fully-featured, four-input mixer**
- **Three different input priority modes**
- **Individual audio settings for each input**
- **Interconnection for external equipment**
- **Ideal in combination with booster amplifiers**



The universal pre-amplifier extends the configuration possibilities of the Plena family. It offers a choice of mixing, blocking or serial input priority modes. Each input channel has its own volume and tone controls, a selectable filter to optimise speech intelligibility, and direct outputs. On the output, it's also possible to override local loudspeaker volume controls to ensure an important message gets through.

Three input priority modes are available: mixing mode; blocking mode (first activated channel gets priority over all others); and serial mode (channel 1 has priority over 2, 3 and 4, channel 2 has priority over 3 and 4, and channel 3 has priority over 4). In mixing mode, each input channel can be mixed to the master output, irrespective of priority.

## PLENA SYSTEM PRE-AMPLIFIER

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- **The heart of a six-zone call system**
- **Two inputs for dedicated call stations**
- **Separate music and call channels with dedicated tone controls**
- **Emergency input with VOX switching**
- **Selectable alarm tone, time signal and chimes**



The Plena multi-zone call system provides dual-channel operation (calls and background music) for six zones. It has two call station inputs, a selectable filter for optimising speech intelligibility, and separate volume control and tone controls for the speech and background music channels. Six levels of priority are available for music, microphone, call stations, trigger inputs and the emergency input.

Six buttons on the front panel are used to route the background music to the selected zones. Zone selection for the call channel is made via the Plena call station. The unit has an emergency/telephone input with VOX. When an emergency audio signal is detected, it automatically overrules all other inputs.

## PLENA BOOSTER AMPLIFIERS

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- **Increase the power potential of Plena installations**
- **Up to 240W in a low-profile unit**
- **Drive 70V/100V and low-impedance outputs**
- **Temperature-controlled fan for extra reliability**



The compact yet powerful mono booster amplifiers can be added to drive as many loudspeakers as your application requires. They are used with the universal and system pre-amplifiers, and to supplement the built-in power stage in the Plena mixer amplifiers. Available with 120 or 240W output power, they drive both 70V/100V constant voltage and low-impedance loudspeaker loads. A temperature-controlled fan ensures high reliability when driven at high power.

A balanced loopthrough connector simplifies connecting multiple booster amplifiers together for increased output power. A 100V line input is provided to connect the booster amplifier to a 100V loudspeaker line – useful for systems in remote locations.

## PLENA CD PLAYER/TUNER

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- **Mono source unit for background music**
- **Single CD-player with random and repeat**
- **Digitally-controlled FM/AM tuner**
- **Simultaneous operation of CD-player and tuner**



An all-round PA system needs a quality music source. The Plena CD player/tuner is the perfect background music source. The track selection keys of the slot-loading CD player include random and repeat for background music. The digitally controlled FM/AM tuner uses a frequency synthesizer for accurate capture of radio stations. It has 10 presets to store programs and keys for tuning and scanning. The CD-player and tuner both operate in mono as required for background music, and separate outputs are

provided to allow two-channel music distribution. A mixed output provides the tuner signal, as long as the CD player is not playing. If the CD player is activated, then the CD player signal is provided on that output.

## PLENA CALL STATIONS

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- **All-call and six-zone call stations for system pre-amplifier**
- **With a uni-directional condenser microphone on a flexible stem**
- **Selectable gain, speech filter and limiter**
- **Matching table-top condenser microphone**



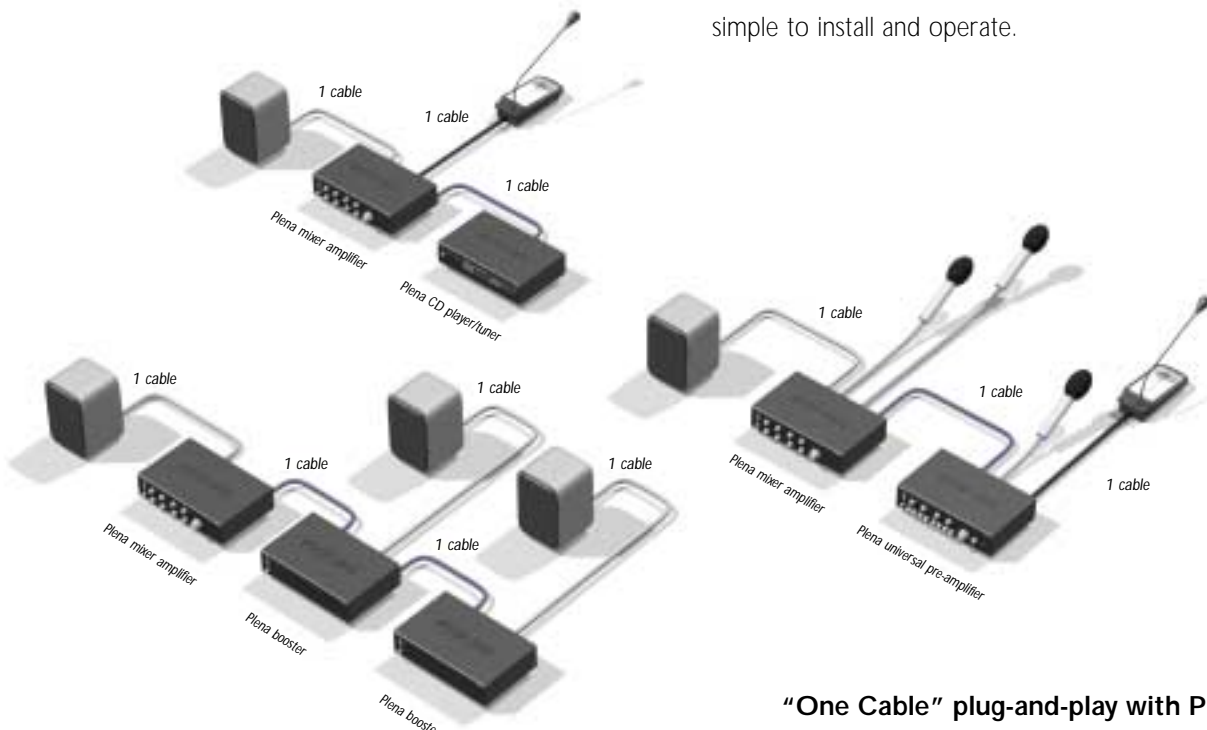
Plena call stations have a stable metal base with a flexible-stem condenser microphone. The special design of the metal base also allows for flush mounting in desk-tops. There's an all-call model, and a six-zone version (making calls to selected zones) for call routing – both for public address based on the Plena system pre-amplifier. Selected zones are indicated with LEDs on the call station, and two additional LEDs give visible feedback on the active state of the microphone and the system.

The call stations have selectable gain, and a speech filter and limiter for improved intelligibility. Switches in the call station allow various pre- and post-call chimes to be selected. A matching table-top microphone is available for use with Plena mixer amplifiers and pre-amplifiers.

## THE BENEFIT OF PLUG-AND-PLAY

Plug-and-play is more than just an approach to product and system design. It is an installation and operation philosophy that benefits the installer and the end-user. The new Plena family embraces it from all sides. For installers, it saves time – and therefore money – by streamlining installation – just one cable linking units to each other is all that is required for most configurations. If you need more than basic functionality, a few settings make advanced features possible to meet any application requirements. Plug-and-

play also facilitates modifications, and allows integration with existing equipment or units from other manufacturers. And for the end-user, it encourages correct use whatever the level of operator competence. Yet all this is achieved without limiting the system possibilities of Plena. Philips CSI is committed to plug-and-play throughout its range of public address products, including the loudspeakers, microphones and accessories. These products are packed with innovative features for improving performance – yet remain simple to install and operate.



**"One Cable" plug-and-play with Plena...**

## FULFILLING BASIC REQUIREMENTS

Amplified speech that can be clearly heard is the most basic public address requirement, and it's the point where Plena starts to make sense because the 'plug-and-play' approach is excellent for 'smaller-scale' applications. With Plena, you can cost-effectively assemble and install even the most basic system and still enjoy the quality and audio performance of professional equipment. And when the time comes, upgrading is simplicity itself.

**Bars and restaurants •**

**Sports halls and playing fields •**

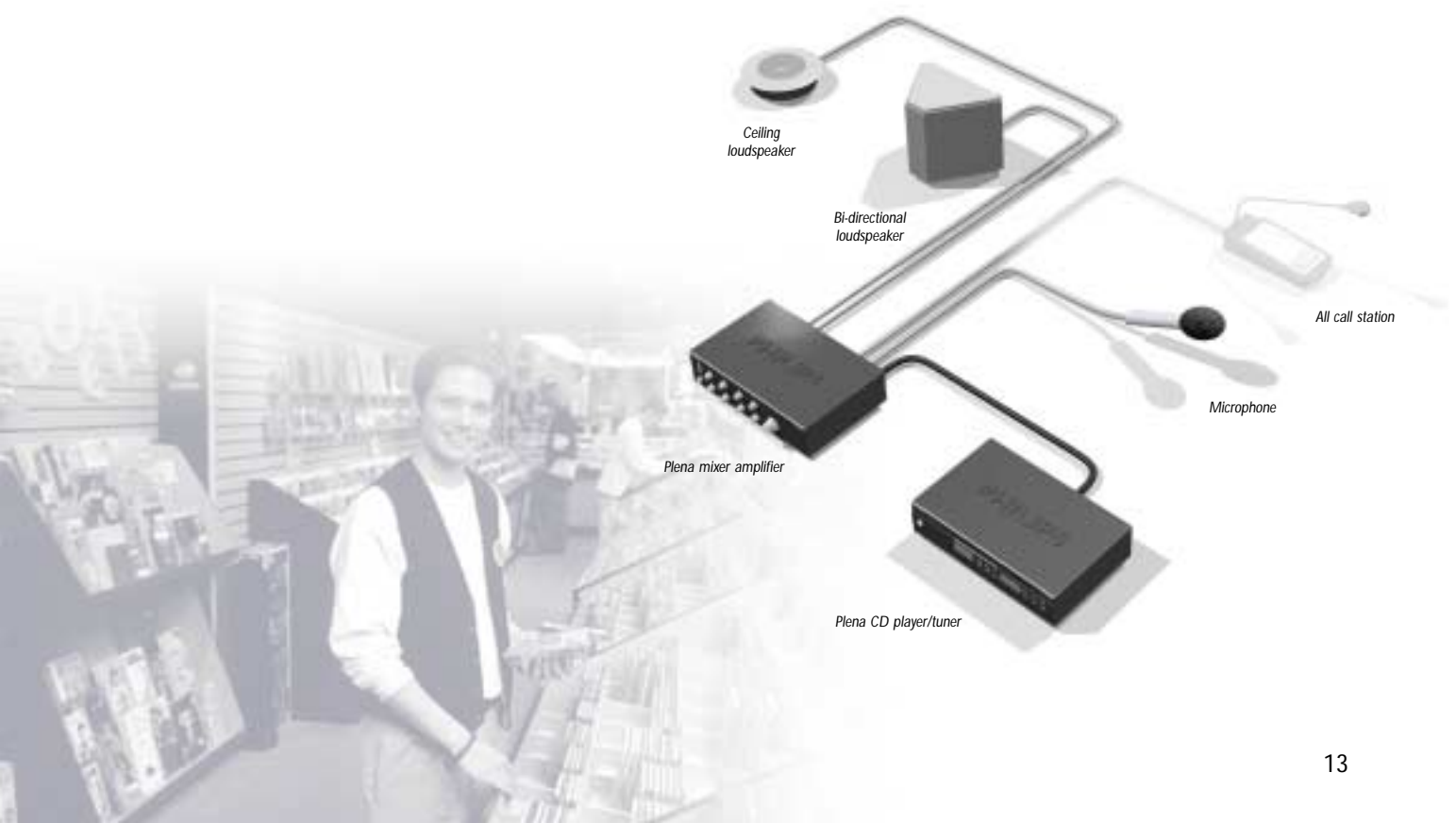
**Offices and schools •**

**Shops and showrooms •**

**Workshops and warehouses •**

**Small railway and bus stations •**

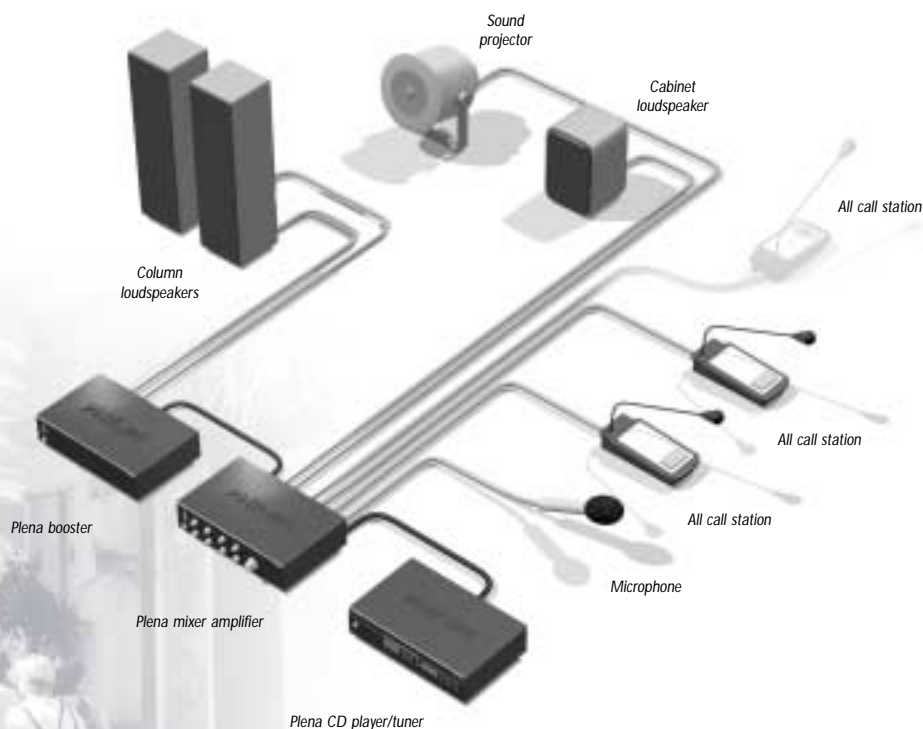
**Small churches •**



## ADDING POWERFUL FUNCTIONALITY

Moving up a size, 'medium-scale' applications benefit from more functionality. So when you're confronted with a need for additional mixed inputs, emergency evacuation facilities, chime attention tones or alarm tone generation, Plena is still the ideal choice. Even two zone systems, with separate call and music channels, are possible with one of the mixer amplifiers. Plena's configurable functionality is accessed and enabled without software or special tools.

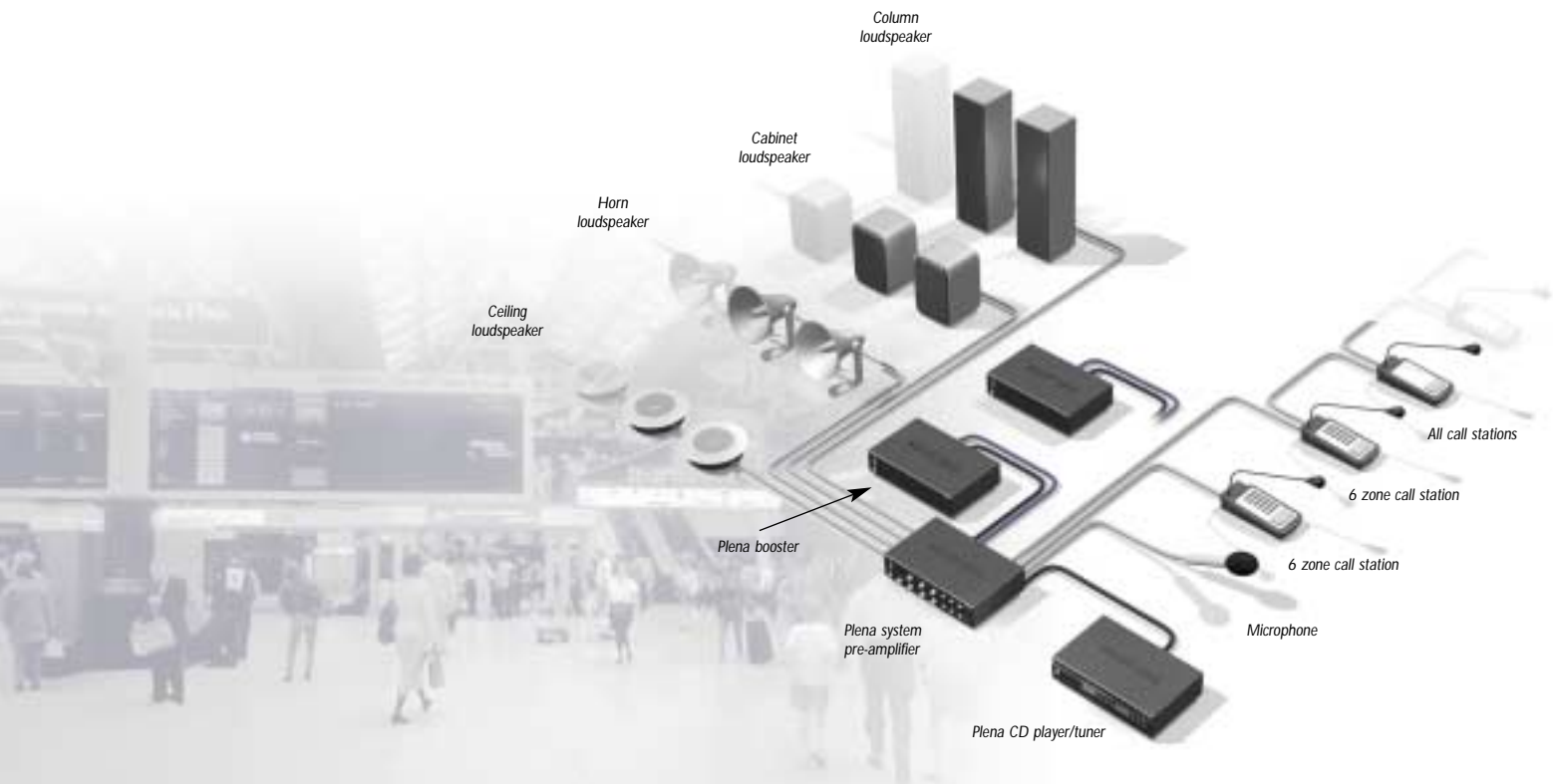
- Restaurants and small hotels •
- Leisure centers and swimming pools •
- Civic centers and colleges •
- Supermarkets and larger shops •
- Factories and work places •
- Central railway stations and bus terminals •
- Places of worship •



## EXPLOITING FULL SYSTEM CAPABILITY

Unleash the full potential of Plena, and you have dual-channel, six-zone call systems with a choice of input priority modes. The 'larger-scale' applications, once only feasible with expensive sound management systems, are well within the reach of Plena public address. With just a few type numbers, a wide variety of configurations can be built. Even with limited sound management experience, you can create an ultimate solution.

- Larger hotels and transport terminals**
- Theme parks and entertainment complexes**
- Town halls and universities**
- Shopping malls and department stores**
- Industrial complexes**
- Transport terminals and ports**





## ALL-ROUND EXPERTISE

Philips' Plena and other PA products form only one part of the Philips Communication, Security & Imaging (Philips CSI) range. Philips CSI is a leading supplier of products and systems which keep people safe, secure and in touch with each other all over the globe. Philips CSI's expertise covers CCTV systems and products, and communication products, and helps increase business efficiency and improve the quality of life for personnel and the general public.

DEALER STAMP

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