

Installed audio solutions

for offices and warehouses



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Background music is a crucial component of a superior employee and customer/visitor experience, while in-house announcements ensure a clear call-to-action for everyone on site.

A Bosch solution can add value to the workday in many ways. Our systems offer an optimal combination of professional sound quality and user-friendly operation and installation. For example, a facility manager or employee can easily control the system from a handheld device – from simply adjusting the volume or making a live call/page to full-system DSP configuration – while larger areas can be covered with fewer loudspeakers, minimizing maintenance and cleaning costs.

Bosch offers a wide range of options that cater to the specific needs of offices and warehouses, and, with decades of experience in these areas, we are a partner you can trust.

We offer more



Local support and customer service

We are present in more than **150 countries** and focus on putting our customers first. **Experts** with the required **knowledge** will help answer your questions and address any challenges together with you.



Product reliability and partnership

As a customer, you need to be able to rely on the **quality** of your audio system, the coverage provided by the Bosch **warranty**, and the **trust** you can place in Bosch as a partner.



Broad portfolio of electronics and loudspeakers

We address customer needs with sound solutions that offer **high performance** while being **low profile and easy to install**, for **retail applications of every size**.



Installed audio solutions for offices and warehouses

Details

- Energy-efficient system, typically covering 4900 square meters
- Loudspeakers optimized for speech, background music and occasional announcements
- Potentially different zones (office areas, storage areas, etc.)
- Basic front panel control or in-store volume controls
- Compact electronics require minimal rack space
- Flexible system configuration: controller + amplifier or amplifier only

System requirements



Zone volume can be independently adjusted



Flexible control via wall panel, PC or mobile devices



Control by app or DSP functionality



Customer profile:

Area to cover



4900 m²

(room height is 12 m)

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For office areas, warehouses or production halls – products for spaces of every size

1. Electronics



PLENA matrix

This high-quality audio system with DSP delivers excellent background music to create a pleasant atmosphere for employees or visitors. With a 4-channel/8-zone configuration, you can easily create different settings for the various spaces in your facility.

3. Accessories



PLENA matrix wall control panel and call station

The wall panel can be used for local volume control and source selection per zone. With the PLENA call station you can make business calls in up to eight different zones. Placing a call to one or more zones is easy and other zones are not unnecessarily disturbed.

2. Loudspeakers



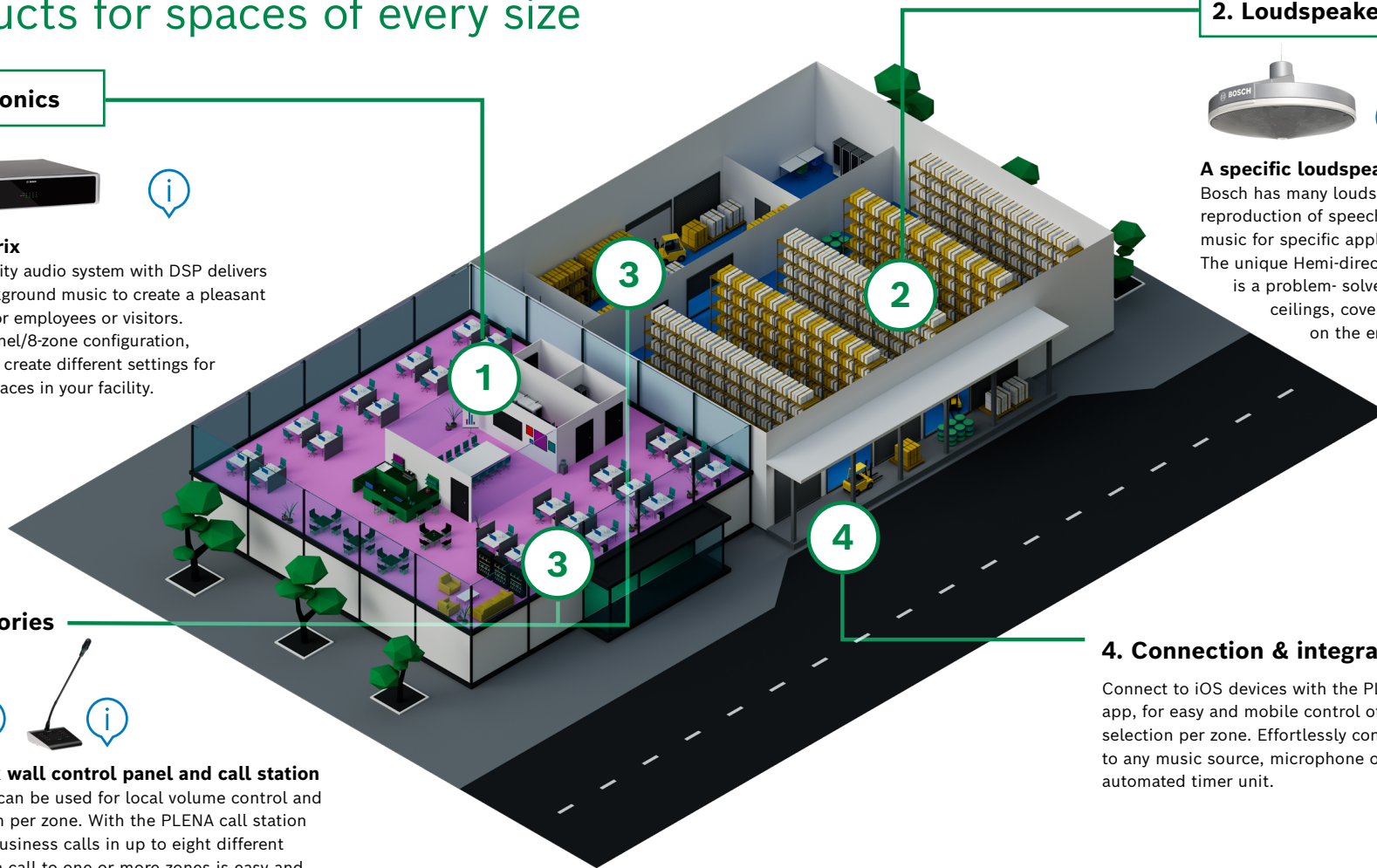
A specific loudspeaker for every application

Bosch has many loudspeaker options for the superior reproduction of speech, background and foreground music for specific applications or surroundings. The unique Hemi-directional Loudspeaker LS1-OC100E is a problem-solver for large halls with high ceilings, covering at least 700 m² depending on the environment and ceiling height.

4. Connection & integration



Connect to iOS devices with the PLENA matrix control app, for easy and mobile control of volume and source selection per zone. Effortlessly connect PLENA matrix to any music source, microphone or (for example) automated timer unit.



1- Electronics

PLM-4P220 PLENA matrix DSP amplifier

This high-quality DSP amplifier supports the indoor and outdoor requirements of restaurants and cafes. It provides up to 440 W of output (when bridging two channels) to power larger loudspeakers and subwoofers. The amplifier offers a four-channel, four-zone solution for excellent background and foreground music, thanks to its ability to work in standalone mode without the PLM-8M8 PLENA matrix mixer, which can be connected and integrated with the amplifier very easily later if required (for call station and/or wall module connectivity).



Details:

- Four-channel Class-D power amplifier
- 4 x 220 W (4 x 125 W variant also available)
- 100 V / 70 V / 8 Ω / 4 Ω outputs
- Loudspeaker processing DSP (compressor, limiter and EQ)
- Controlled by PC GUI and iOS app
- Amp Link to connect easily with PLM-8M8 PLENA matrix controller (optional)
- Environmentally friendly auto-standby mode

2- Loudspeakers

LS1-OC100E Hemi-directional Loudspeaker

The Bosch Hemi-directional Loudspeaker is an easy to install, innovative loudspeaker which projects consistent and high-quality sound, ensuring superb reproduction of background music and high speech intelligibility for paging or emergency calls. The speaker's opening angle and high sound pressure level allows it to cover at least 700 m², making it particularly suitable for indoor high-ceiling areas like warehouses, transport and exhibition halls, megastores and swimming pools.



For large area, high-ceiling applications

- Architecturally and acoustically innovative
- Hemi-directional pattern
- EN 54-25 certified
- Optional bracket for fixed mounting
- Provision for internal mounting of the optional line/loudspeaker supervision board

2- Wall-mount loudspeakers

LB2-UC15-D1 / LB2-UC15-L1

For specific areas such as packing areas or offices with electrical power ducts and open ceilings, or where wall mounting is required, the LB2 cabinet loudspeaker reproduces speech and background music clearly, with the capability for higher output as needed. 30 W and 15 W models are available, each with four power taps to adjust output per area.



Details:

- Available in black or white
- Easy to mount horizontally or vertically using the included bracket

3- Accessories

PLM-WCP PLENA matrix Wall Control Panel

PLM-8CS PLENA matrix 8 Zone Call Station

Public address systems are often used for both announcements and background music distribution. Wall-mounted control panels can be used to adjust volume levels locally, and can be programmed with up to five different source selections. In the event of an emergency announcement, a built-in relay ensures that the message is broadcast at a preset level, independent of the local volume setting. For live announcements, the call station can address either a single zone or a user-defined group of up to eight zones – all with one touch.

Integration couldn't be easier: both units are powered via standard CAT 5 and communicate via RS-485, allowing multiple PLM-WCPs and/or PLM-8CS to be daisy-chained together, reducing cable runs and installation time.

Features include:

- Capacitive touch controls and LED indicators
- Sleek, modern designs for a clean look and feel
- Possibility to add more wall control panels or call stations



Invented for life



Contact information -