

Invented for life



BOSCH

PROSPERO

IP-Based Public
Address System





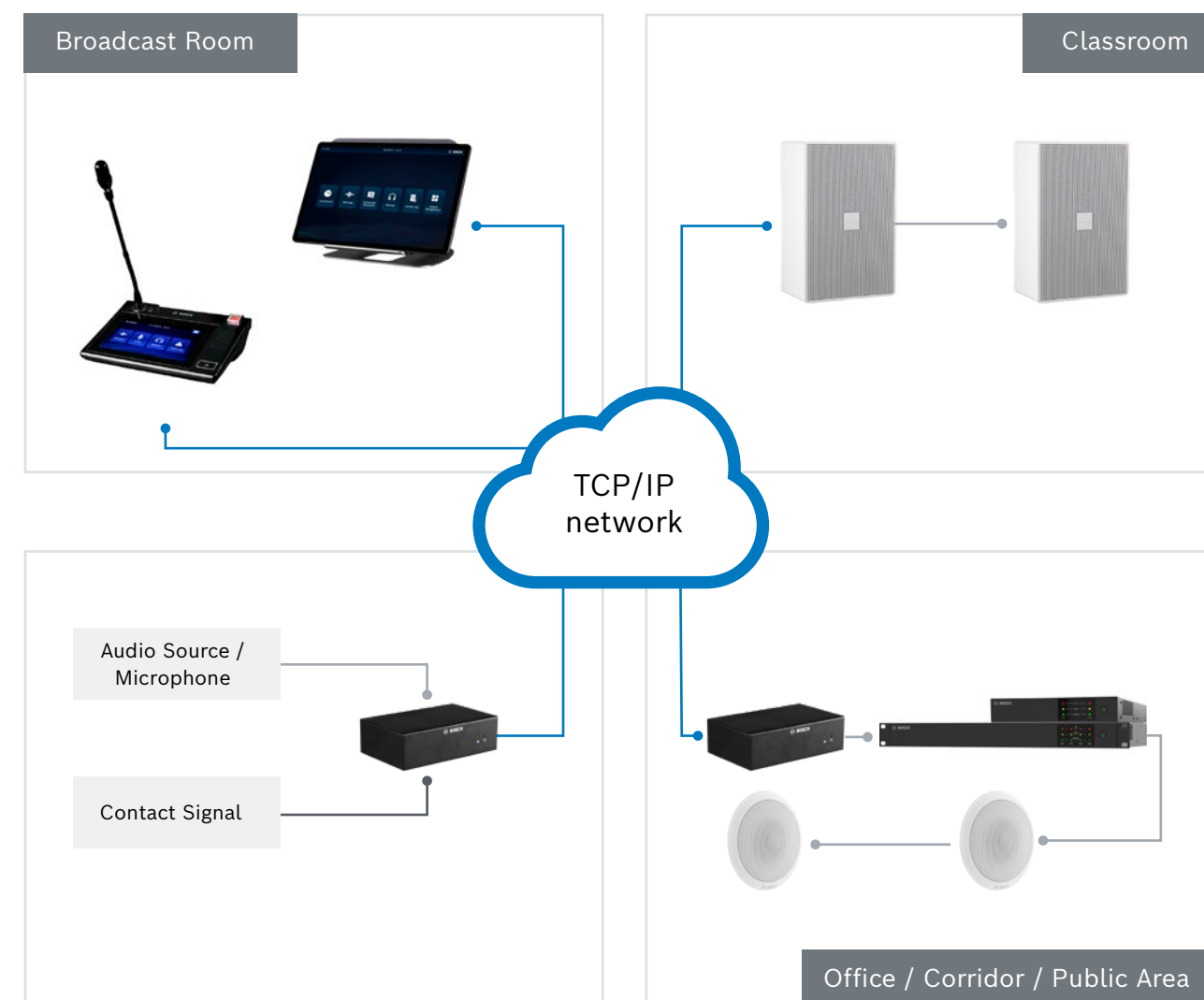
Software and hardware optimized for medium-sized applications

The PROSPERO public address system has been meticulously optimized for various environments. From school to production plants; medium-sized environments such as shopping malls, retail stores, hospitals and commercial buildings.

It includes a scheduled broadcasting feature that supports 24-hour timing, accurate to the second, ensuring timely announcements throughout the day. The system allows for seamless switching between different broadcast schedules to suit various operational needs.

The IP speaker, designed for mid-range commercial applications, comes with a powerful 30W digital amplifier capable of driving both the speaker itself and an additional secondary speaker. It also features dual local audio inputs, making it suitable for background music, promotional messages, or urgent announcements.

Additionally, the IP speaker includes a 100V high-priority input and an “Emergency Mode,” ensuring that critical safety messages or urgent instructions can be broadcast uninterrupted, even during network or power disruptions.



PROSPERO

IP-Based Public Address

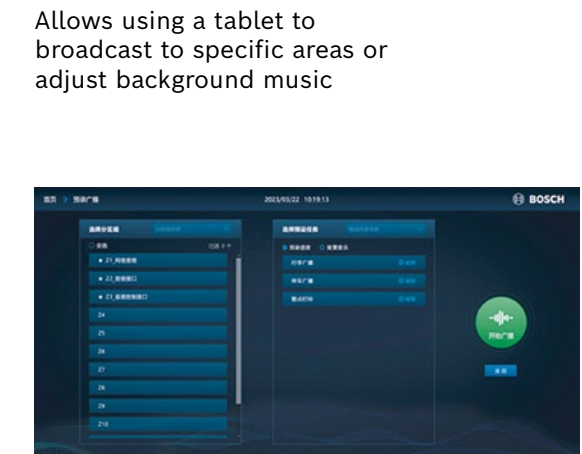
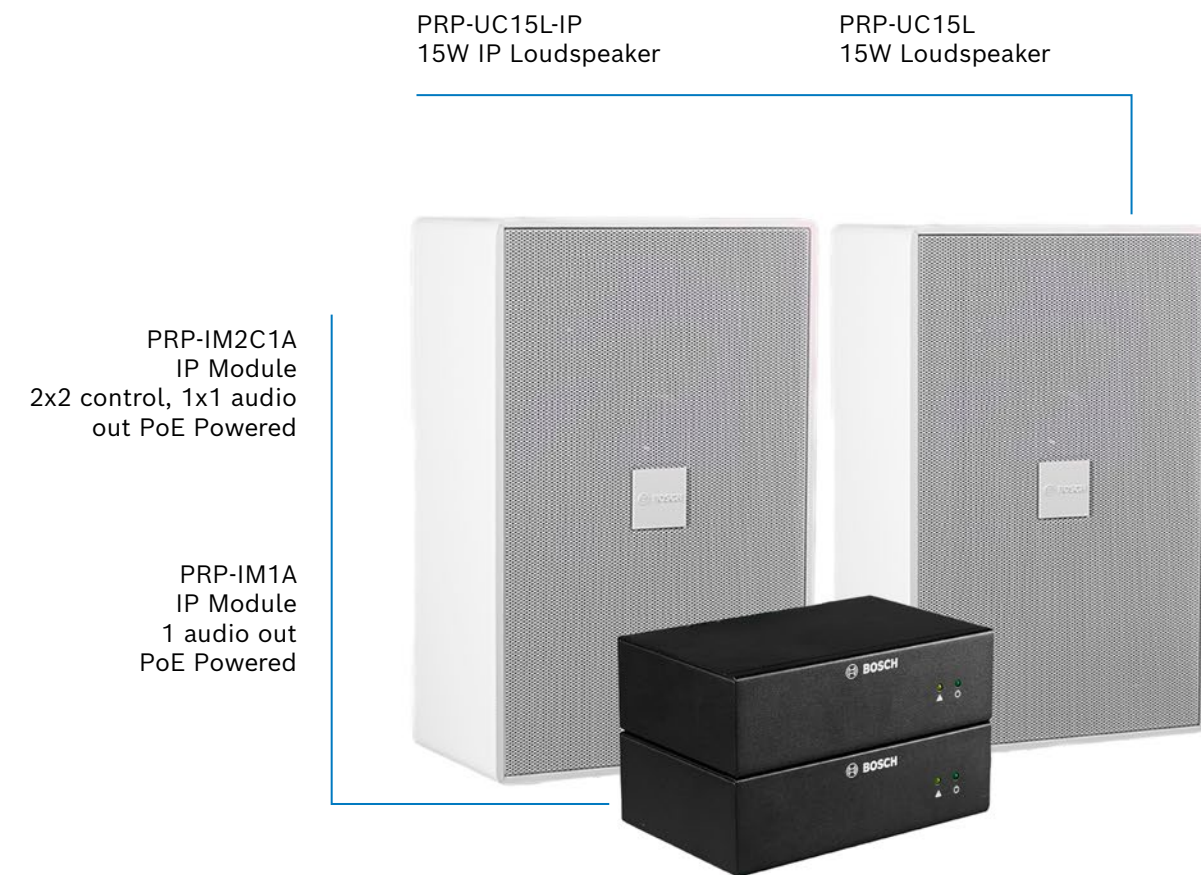
- Flexible IP architecture and ease of integration
- Interactive 7-inch LCD touch screen User Interface improves user experience
- User-friendly configuration and operation with standard web browser
- Optimized for various environments. From school to production plants; medium-sized environments such as shopping malls, retail stores, hospitals and commercial buildings.

The PROSPERO public address system utilizes IP communication protocol, allowing it to operate in a standard IP network environment. This ensures that the system components can be flexibly deployed and interconnected across the network. Additionally, both call stations and interface modules support PoE (Power over Ethernet).

The system's core is based on a Browser/Server architecture. The server-side of the main control software is installed on a computer running the Windows Server

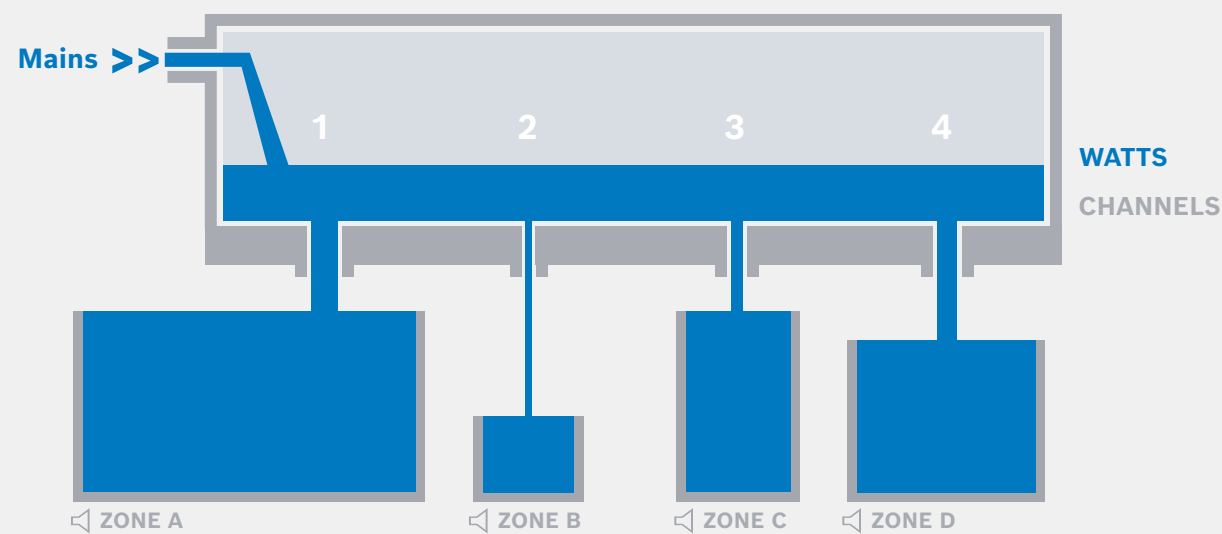
operating system, running in the background as a Windows service. Users can log into the public address system's web management interface using any "standard" browser, and multiple clients can log in simultaneously.

With an authentication mechanism in place to ensure system security, users can easily configure and operate the system, including tasks such as pre-recorded broadcasts, scheduled broadcasts, zone monitoring, system logs, system configuration, and emergency tasks.



Quickly initiate high-priority
announcement





User experience-focused design

The PROSPERO public address system's software and hardware are designed with a user experience-focused approach, including an intuitive interface for system software, call progress displays, and system status feedback.

All functions of the IP call stations can be easily selected on the touchscreen, with an authentication mechanism in place to ensure each user can only access the specified functions. Physical feedback is still provided through broadcast call buttons and emergency call buttons.

The PROSPERO system offers two PoE-powered interface modules. The audio interface module can be used in combination with the PRM-4P600 amplifier, as well as with other amplifiers from Bosch's public address product line.

The control and audio modules are versatile, meeting various application needs, including external audio source inputs, dry contact inputs for emergency task integration, and relay outputs for zone control panels.

Innovative power sharing technology, efficient and low-carbon

The flexibility of PROSPERO allows easy integration with SYNSONA amplifiers. The SYNSONA PRM-4P600 and PRM-2P600 amplifiers use innovative powerTANK technology, which allows the amplifier channels to adapt to the connected speaker loads. This enables the total available output power of 600W to be intelligently distributed across all output channels. This means the amplifier power is used more efficiently, significantly reducing wasted idle power. Ultimately, the SYNSONA amplifiers can meet the total power needs of the speakers with fewer power supplies and amplifiers.

Additionally, Bosch has integrated several energy-efficient technologies into the PRM-2P600 and PRM-4P600 amplifiers, including ecoRAIL, APD (Auto Power Down), and dualCOOL.

These technologies help the broadcasting system reduce power consumption during both normal operation and idle states, further saving energy costs and reducing carbon emissions. This also means lower operational and maintenance costs.

PRP-IM1A, rear view



Easy-to-use

PRP-IM2C1A, rear view



Flexible



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