

Paging and Mass Notification Solutions

Portfolio overview

SIGNALING



UL 864 | UL 2572
UL 1486

Life Safety

Paging and Mass Notification Solutions

With more than 90 years of experience in paging and mass notification solutions, also known as public address and voice alarm (PAVA), Keenfinity Group develops and delivers Bosch-branded systems that provide the highest performance in speech and music quality. Building on industry-leading technology, we continuously enhance our portfolio to meet evolving market demands.

We focus on putting end-users first by designing highly intuitive interfaces that make it easy to get the most from our products. Our goal is to address changing customer needs with outstanding systems that cater to applications of every size.

Comprehensive solutions

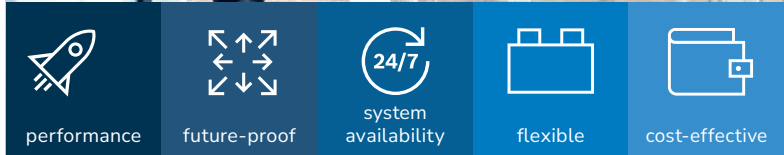
With a wide range of products covering the entire signal chain, we offer one-stop solutions that can accommodate applications of any size.

Exceptional sound quality

Our PAVA systems deliver excellent sound quality for both speech and music reproduction, ensuring clear communication and an enjoyable listening experience.

User-friendly interfaces

Designed with the user in mind, our PAVA systems feature exceptionally user-friendly interfaces for seamless interaction and easy integration with third-party products.



Reliability and security

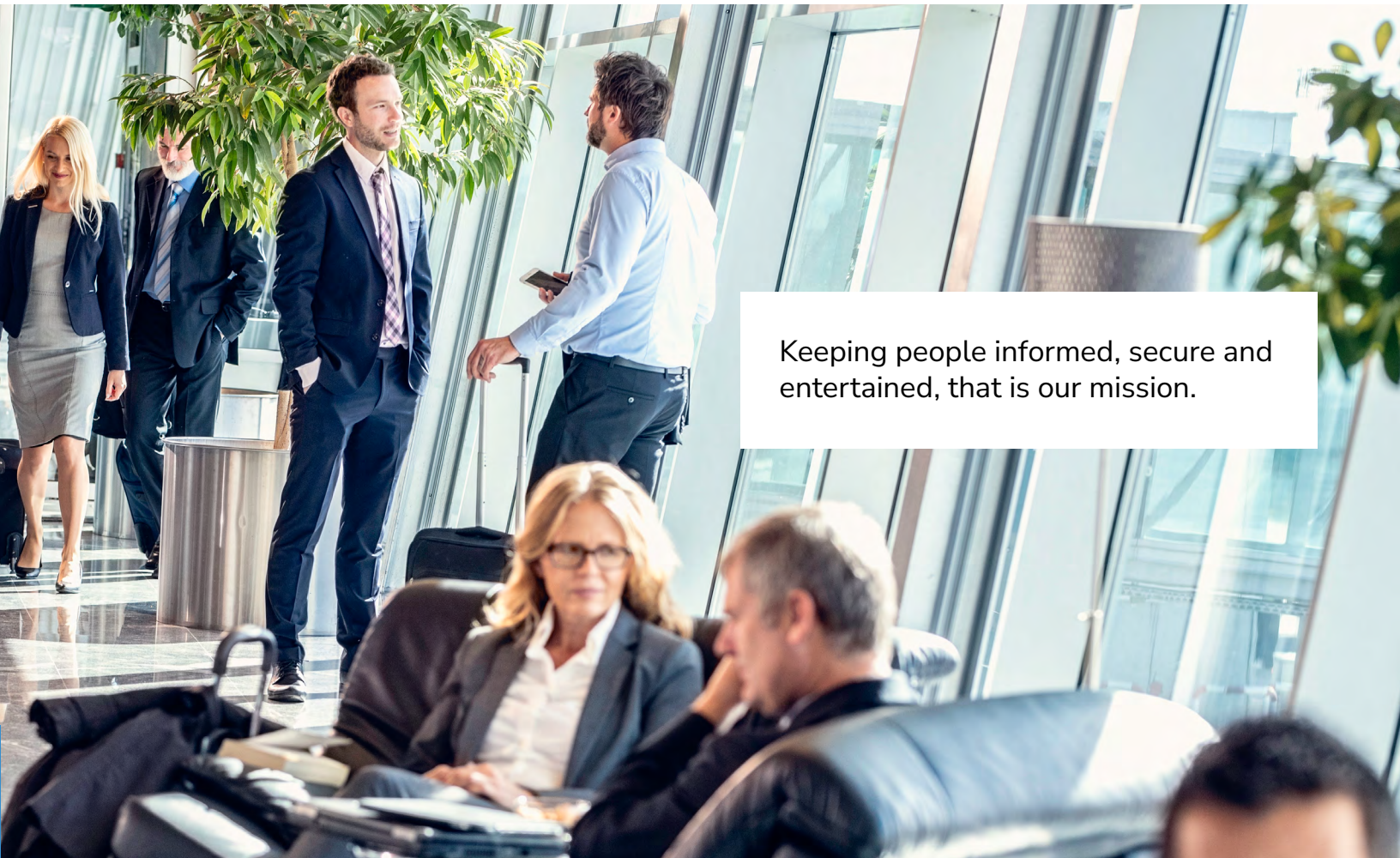
Leading the market in public address and voice evacuation, our PAVA systems are built for unmatched system reliability with robust security features and fail-safe redundancy options.

Future-proof technology

We are committed to innovation, offering PAVA systems that are adaptable to evolving needs, support quick integration, and leverage existing IP networks for remote maintenance and diagnostics.

Learn more:





Keeping people informed, secure and entertained, that is our mission.

Why choose Bosch public address and voice alarm?

- **Expertise** and outstanding quality in PAVA
we enable target groups to forecast challenging situations and user needs
- **Wide and resilient portfolio**
we design public address solutions that give a good conscience and contribute to a better world
- **Intelligent public address technology**
we deliver IP-based technologies that create a fascinating experience in public and commercial spaces
- **Global partnerships** and closeness to customers
we inspire and support our customers to shape their future

Peace of mind

for every stakeholder

Architects & consultants

We are committed to your project's success. Rely on the expertise and support of a trusted partner. Consult with us on full or blended solutions. Our experienced team can support your specification process and ensure smooth acceptance and minimize time-consuming revisions.

System integrators

Fast, straightforward installation of IP based components such as amplifiers and power supplies due to the PRAESENSA IP-architecture. Full integration possibilities with existing security, fire, passenger information and management systems. Training & system design consultation available to help ensure an efficient integration

Owner/operators

Invest in a system that will ensure reliability, peace of mind, and smooth operations through everyday traffic, emergencies, and facility expansions. Compliance - PRAESENSA as a life safety system complies with more federal and state regulations, including Alyssa's Law. Monetize your system with scheduled advertisements for positive ROI. Standards support and third-party integrations means a robust, scalable system that will continue to add new value for years to come.

IT administrators

Our public address solutions offering robust networking and reliability. IP-based architecture ensures seamless integration and supervision, with full redundancy across devices and connections. Clarity meets security in a fail-safe, user-friendly package designed for the demanding needs of modern IT environments.

Associates

Gate agents, floor supervisors, and other announcers keep things running smoothly with an easy user-interface that requires minimal training. Emergency procedures are quick, intuitive, and fail-safe.

Associates, guests, passengers, & customers

Keep everyone safe, informed, and entertained. Informed passengers & customers means fewer disruptions. Clear, relevant announcements keep everyone updated and on their way. In emergencies, automatic and phased evacuations ensure orderly traffic flow. Easily update and schedule messages for timely announcements. Tailor music and announcements to each area for an optimal experience.

Grant-eligible life safety system

Our PRAESENSA system can be covered by grant programs for schools, hospitals, airports, non-profits, and other facilities. The system can integrate with panic devices and other life safety systems to ensure compliance with local, state, and national regulations.

Not sure how to get started?

Schedule your free initial consultation today.

Contact us:



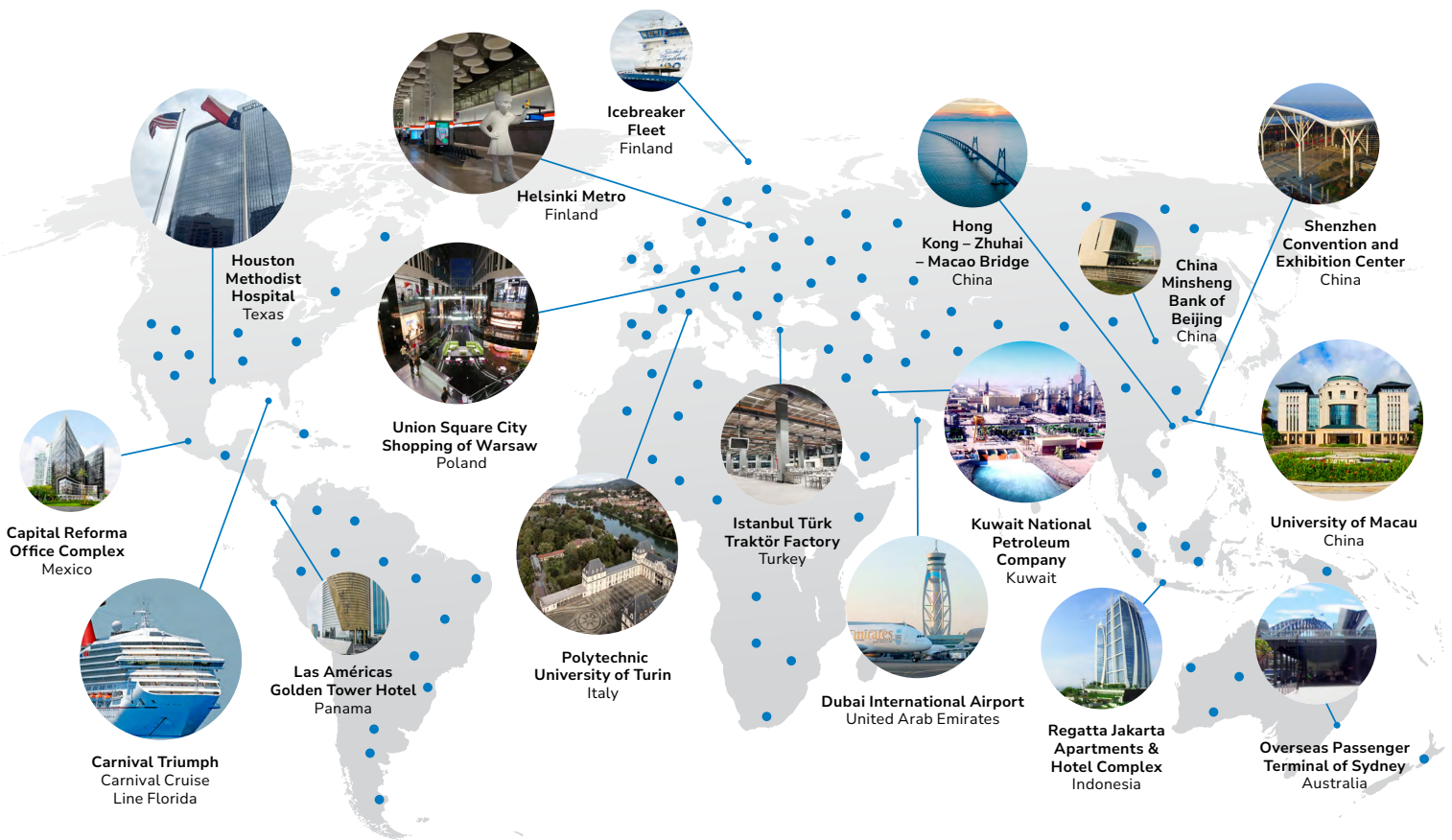
Global presence

in every major application area



We have built an international footprint of successful references. These combined with our unrivalled library of experience and expertise, giving us the unique ability to cater for applications of all sizes.

Huge, large, medium or small projects all benefit from the same high level of product quality and partnership. Our solutions are built to last, some of them still in service 20 years after installation, thanks to outstanding build quality and a well-defined fit for purpose.



AIRPORTS



RAILWAY / METRO



MARINE CRUISE SHIPS / FERRIES



GOVERNMENTS / PUBLIC BUILDINGS



EDUCATION



INDUSTRIES FACTORIES / OIL AND GAS / POWER PLANTS



COMMERCIAL BUILDINGS MALLS / DEPARTMENT STORES / FASHION STORES



CONVENTION CENTERS / MIXED-USE BUILDINGS



OFFICE BUILDINGS



HOTELS



HOUSES OF WORSHIP



ENTERTAINMENT CASINOS / STADIA / THEATERS / SPORTS AND LEISURE FACILITIES



HOSPITALS

Learn more:



Solutions covering large multi-site to small application areas.



We offer more

We address changing customer needs with outstanding systems and different types of speakers that cater for applications of every size. We can also integrate with most existing speaker systems for added flexibility.

Highest performance

In different environments and settings such as large airports or shopping malls, it is crucial to have excellent speech intelligibility and perfect professional sound.

Local support & partnership

Your success is our success. From system design & specification to training and post-installation support, our network of experienced system experts are committed to ensuring your system runs smoothly for years to come.

Product reliability & customer service

As a life safety system, quality and reliability are an absolute must. With multiple layers of redundancy built into every system and a competitive warranty, we deliver peace of mind.

Learn more:





PRAESENSA	PAVIRO
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Flexibility and power sharing

There is always a compromise between flexibility and cost. The degree of flexibility in audio routing is determined by the choice of system topology.

Flexibility (System topology)	High Direct (1:1)	Medium Relay switching (2-n)
Power sharing	Yes	Yes

Application size

The number of zones is an indicator for the size of the application handled by a single controller or a multiple-controller solution.

LSP zones / controller	500	496
Controllers (active)	Up to 20	4 (up to 984 zones)

IP

Integrated IP connectivity increases scalability, flexibility, ease of installation and cost-efficient maintenance.

IP Networked system connections	Yes	Yes
All system components on IP	Yes	No

Announcements and/or music

Application requirements can range from a single call to a mix of announcement and music across multiple zones.

Background music program	> 100	Up to 4
Simultaneous messages	8	2
Simultaneous calls	> 100	2

Digital Signal Processing (DSP) per zone

Built-in digital audio processing features for adjusting sound volume, enhancing music quality or refining speech intelligibility for every zone.

Volume	Yes	No
Delay	Yes	No
EQ	Yes	No
Automatic volume control	Yes	No

IP-connected and fully-featured

Ideal for mid-to-large (multi-site) application areas where complete flexibility and scalability is required



When you add or define new areas for use, this advanced and extremely cost-efficient IP-based system updates the changes effortlessly. PRAESENSA uses a smart-power concept with integrated redundancies, and is perfect for both centralized and decentralized topologies. The user interface is incredibly easy to use, intuitive and accessible. The system's use of digital audio contributes to better performance, faster installation and easier positioning of equipment. PRAESENSA's key hardware devices are controlled by custom software solutions, resulting in a system that is feature-rich and future-ready with the potential for further capabilities to be added over time.

Learn more:

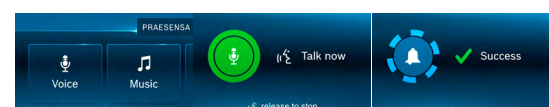


PRAESENSA

- All components of the system are IP-networked for highest flexibility and scalability
- Innovative amplifier architecture allocates power intelligently, increasing efficiency and lowering cost of ownership
- No single point of failure and built-in redundancy are at the core of the system concept
- User-centric design delivers an intuitive interface with feedback on progress and status
- Comprehensive system adapts to changing needs

Desktop call station

With built-in two-port Gigabit Ethernet switch and graphical user interface offering clear user guidance and feedback



Highest flexibility and scalability

All devices across the system are IP-connected, facilitating easy interconnectivity with other systems. PRAESENSA devices are managed via OMNEO media networking technology, enabling better audio quality with greater flexibility and scalability than any other public address and voice alarm system. The possibilities are virtually unlimited.

Effective power utilization

The system comprises innovative multi-channel amplifier architecture, with intelligent power allocation across the amplifier outputs and an integrated spare channel. This significantly improves the effective utilization of available power, regardless of the loudspeaker load in each zone. As a result, fewer amplifiers are needed, saving up to 50 percent on space, energy and backup battery power, leading to a very competitive cost of ownership.

Ensuring reliability and security

PRAESENSA ensures reliability from the moment of installation, with redundancy incorporated throughout the entire public address and voice alarm system. This includes all devices and network connections, critical signal paths and functions, which can all be constantly supervised. The system also supports smart integration of functions and backup facilities, with encryption (AES128) and authentication (TLS) offering complete protection against eavesdropping and hacking.

Optimized user experience

The intuitive interface of the call station provides an optimized user experience, through an effective combination of touch screen and selection buttons. Clear progress guidance and status feedback ensure comfort and ease of use for operators.



Ambient Noise Sensor

Monitors changing ambient noise levels for automatic adjustment of announcement or background music levels (AVC - Automatic Volume Control)

Controllers

Full control of PRAESENSA devices and audio routing with built-in five-port Gigabit Ethernet switch



Audio interface module

The PRA-IM2A2 module adds two balanced audio inputs and outputs to the PRAESENSA system, with configurable control inputs and outputs. It supports calls, background music, and DIN rail mounting, needing only a PoE-enabled OMNEO gigabit IP connection



Amplifiers

600 W single-channel, four-channel and eight-channel amplifiers with flexible power partitioning across one, four or eight output channels, built-in two-port Gigabit Ethernet switch and built-in redundancy

Multifunctional power supply

Fully supervised DC-power supply with integrated fail-safe redundancy, built-in six-port Gigabit Ethernet switch



Wall control panel

Wall control panel, available in white or black, features a 4.5 cm (1.77") color TFT display and a single-knob rotary/push encoder for volume adjustments and source selection



Control interface module

Flexible interfacing options for third-party integration via classic parallel contact inputs and outputs. The GPIO module is equipped with 16 control inputs, eight relay outputs, and two supervised outputs for Notification Appliance Circuit (NAC) extenders

Advanced public address server and software

Advanced functionality for announcements, messages, text-to-speech, internet radio and music. The user interface software runs on PCs or tablets and Amazon Polly and Microsoft Azure Neural Text-to-Speech (Neural TTS) services are supported

Flexibility right from the start

Ideal for small-to-mid-sized (multi-site) application areas where flexibility and professional sound quality is required



From a single system to an IP-networked solution, PAVIRO allows decentralized application set-ups and more system-wide audio channels.

Thanks to its powerful range of features, PAVIRO not only answers an extremely wide variety of application requirements, it also delivers best-in-class performance in power efficiency, ease of installation and configuration convenience.

The smart call station design contributes to more efficient evacuation procedures. Thanks to its premium 24-bit digital processor, superior digital-to-analog converters, and outstanding signal-to-noise ratio, PAVIRO delivers truly professional quality sound.

Learn more:



PAVIRO

- The system can accept architecture changes at any stage during installation and provide a wide range of announcement/music combinations
- Lowest power consumption of any system in this class
- Fast, easy and complete set-up with both “Basic” and “Expert” configurations
- Zone monitoring on the call stations



Two-channel amplifier
2 x 500 W class-D power amplifier (70/100 V output)

System flexibility

PAVIRO can handle last-minute changes to the system design without issue. That's because intelligent input switching, dynamic channel assignments and power load sharing makes the system extremely flexible, allowing design changes to be made at any stage of the project without risk.

Your own announcement/music combinations

PAVIRO offers highly flexible announcement/music distribution combinations – thanks to its four-channel matrix architecture. For example, you can send classical music to one set of six zones and pop music to another.

You can also send one or more individual announcements to any zone without disrupting the music.

Power consumption and cost-efficiency

The use of high-efficiency class-D amplifiers and intelligent power-management hardware and software dramatically minimize power consumption. Thanks to the combination of dynamic source routing and intelligent amplifier input switching, the system also uses fewer amplifiers than other systems. With fewer amplifiers in use, fewer batteries need to be replaced on a regular basis, lowering operational costs even more.

Controller with DSP for single and networked applications

Control and routing of four simultaneous audio channels

24-zone router with four channels

Zone extension for the PAVIRO system. One router can handle up to 4,000 W speaker load. The maximum load of one zone is 500 W

Call station and call station extension

Soft touch selection buttons and 35 free programmable function keys (15 on the call station and 20 on the call station extension)



Leading the way in acoustical excellence

Professional public address and voice alarm loudspeakers for every scenario, featuring superior sound quality at a competitive price point.



Public address and voice alarm loudspeakers

- Excellent sound quality, matching speaker's purpose and price point
- Clear three tier loudspeaker portfolio structure: Entry, Mid and Performance level
- Focus on easy installation and low total cost of ownership
- EN 54-24 certified speakers are widely available across all types these are fully compatible with PRAESENSA for integrated monitoring, fault detection, and full system integrity

We offer a wide range of professional loudspeaker solutions for every scenario, featuring superior sound quality at a highly competitive price point. Our portfolio of cabinet, column, active line-array, ceiling, sound projector and horn models are the proven choice for EN 54-24 certified voice alarm installs, speech and background/foreground music. With models available in a range of form factors, you have the tools to precisely address the budget and application requirements of your next project.

Learn more:



Pendant speakers

Designed to be suspended from the ceiling by their connecting cables. Their excellent directivity makes them ideal for use in buildings with high ceilings, such as supermarkets and warehouse stores.



Hemi-directional loudspeaker

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 600 m², making it suitable for indoor high-ceiling areas like warehouses, exhibition halls and swimming pools.

Acoustical excellence

With decades of experience in the design and development of electroacoustic technology, We are an established leader in the field with Bosch PAVA loudspeakers. Our guiding principle is to create products that are superior in terms of technology, design and ease of use. From

waveguide to array technology, from 3D simulation to cutting edge design, our acoustical expertise is as extensive as it is innovative. Turning comprehensive experience into world-class acoustical solutions.

Ceiling speakers

A range of choices for overhead sound reinforcement, in various sizes and configurations to precisely cover every size and shape of space. Designed to blend almost invisibly into their environment, all models are equipped with time-saving features for swift and secure installation.



Sound projector speakers

Ceiling or wall-mounted, our sound projectors offer superb speech and music reproduction, heavy-duty build quality, clean lines with integrated cabling, and sleek styling to compliment a range of interior and exterior applications such as office buildings, shopping malls and airports.

Column speakers

Multiple drivers in each column enclosure collectively provide excellent speech intelligibility and background music reproduction, with high sensitivity and long throw for spaces such as houses of worship and conference rooms. Swivel wall-mounting ensures precise directivity control.

Cabinet speakers

Offering an optimal combination of architecture-friendly aesthetics and acoustic performance for indoor/outdoor installations. Whether in a restaurant or a retail store, robust, low-profile designs and flexible mounting options make our cabinets a go-to for integrators.

Horn speakers

Highly accurate speech reproduction and powerful sound distribution for a broad scope of outdoor applications such as sports grounds, parks, exhibitions, factories, and swimming pools. Super-durable construction, premium components, and protection features make horns a great choice voice alarm.

Active line-array speakers

Digitally steerable multi-beam designs and enhanced musicality combine for precise, room-filling coverage and best-in-class audio performance, perfect for background music, speech and paging in acoustically challenging indoor and outdoor spaces.

Immediate audio intervention

Superior sound quality and flexible integration for video security and public address and voice alarm applications



Business facilities and institutions must monitor their perimeters to ensure safety and proactively prevent trespassing, theft and vandalism. Similarly, large venues need to maintain order and ensure that public safety or information announcements are heard quickly and clearly. Our horn loudspeakers and amplifier module can be integrated into Video Management Systems (VMS) based on the ONVIF standard and in addition they can be an integral part of SIP based solutions including full support of SIP cloud-based server providers.

Learn more:



Remote configuration

Camera and speaker are configurable via web application

IP loudspeakers and amplifier module

- Exceptional audio clarity and versatile integration for use in video surveillance and public address systems
- Audio communication using SIP systems and/or ONVIF based Video Management Systems (VMS)
- Full IP for power (PoE), communication and control
- Excellent speech reproduction
- Features a build-in Class D amplifier and Digital Signal Processing (DSP)
- Remotely configurable via Web-GUI



Long throw

Applications

Perimeter security

Immediately make trespassers aware of your security. Automatic, prerecorded audio messages are triggered by intelligent camera detection, preventing further trespassing, theft or vandalization. Being warned, they will not risk getting caught on your property.

Smart city solution

Address the public. Make live public announcements or automatically play prerecorded audio messages as a part of smart city solution.

Street security

Maintain public order in areas that are typically sensitive to misbehavior like entertainment or nightlife areas. Simply use live speech to address a crowd or person and make a significantly faster impact.

Burglary security

Deter burglars during their first attempt with embedded automated audio playback. Either as part of an intrusion system or simply just by adding a single PIR sensor. Knowing they are detected, intruders will leave as fast as possible.

Ingress Protection (IP)
IP66

Exceptional audio clarity
Optimized speech intelligibility by configurable Ambient Noise Control



Wide angle

Versatile integration
options such as ONVIF interface, SIP interface, Alarm Task Scripting Language (ATSL) and REST-API

Message supported file formats
WAV, MP3, Ogg Vorbis and Opus

Power over Ethernet
PoE IEEE 802.3af Class 3
PoE+ IEEE 802.3at Class 4



Amplifier module



What makes us different

Application design engineering & support services

Leading expertise, unparalleled value

As part of our commitment to your project's success, our experienced application engineering and support teams offer unmatched value-added services. Services are available remotely and on-site.



Training

Maximize your investment by giving your team the skills necessary for smooth and efficient system design and deployment. Training benefits everyone involved in designing, integrating, using, and maintaining the system.



System design

Maximize performance and efficiency and minimize costly revisions by consulting with industry-leading experts on the optimal design to fit your project's scope and budget.



Post-installation support

We are committed to ensuring your system remains running smoothly. Together with our integrator partners, our expert support team is available to help with upgrades, maintenance, and advanced troubleshooting.



We are built on standards



A networking technology that enables multiple channels of high-resolution digital audio to be distributed in real-time across standard Ethernet networks.



Scalability

OMNEO is a professional media networking solution that provides high-quality multi-channel media transmission and powerful, reliable system control via standard Ethernet IP networks.



Flexibility

DANTE provides a common language for devices to communicate with each other. This makes it easier to add new components to an existing public address system.



Ease-of-Use

DANTE provides a standardized interface for communication between devices, which can simplify the installation and configuration process.



Interoperability

DANTE allows different devices from different manufacturers to work together seamlessly. Components from different manufacturers can be easily integrated into the public address system.

OMNEO

A media networking solution for multi-channel media transmission and system control.



Media networking

OMNEO is a professional media networking solution that provides **high-quality multi-channel** media transmission and powerful, reliable system control via standard Ethernet IP networks.



Compatibility

OMNEO is fully compatible with **Audinate's Dante™, AES67 and SMPTE ST 2120-30** for media transport. In addition, OMNEO has been designed to support emerging and future standards as they come to the market.



Built on standards

OMNEO is built upon multiple technologies, including IP and **open public standards**, to support the technologies of today and tomorrow.



Professional performance

OMNEO seeks to provide a professional media networking solution that includes **low latency, high channel count** program transport, full-function **remote device control** and monitoring, and the ability to **interconnect systems** such as public address, intercom, conferencing, and pro audio/video.



Program + control

OMNEO architecture is based on two main components: an IP media transport solution that offers **low-latency, high-quality**, fully-synchronized multi-channel audio exchange; and a robust control protocol that provides **reliable, secure and highly scalable** system control and monitoring for professional applications of all sizes.



For specifications and design tools visit
keenfinity-group.com/us/en/our-businesses/audio/public-address-solutions/



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