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A clear emergency warning, announced early and in a calm voice, can make a huge difference in a crisis situation. That’s why at LDA Audio Tech we take our product development work very seriously to guarantee the most advanced public address (PA) and voice evacuation products.

LDA Audio Tech is one of the world’s leading providers of sound reinforcement solutions for voice alarm systems and active protection in buildings. We design, develop and manufacture audio systems that integrate easily into any facility and offer the best security guarantees and quality certifications according to the best international standards.

The LDA Audio Tech team is made up of experienced professionals who understand integrators, installers, engineers and large companies’ needs.

Through R&D and continuous recycling, always attentive to the latest technological innovations, LDA offers the best customised solutions for any type of facility.
We supply equipment to more than 50 countries worldwide.
From the Technological Park in Malaga, Andalusia, Spain, at LDA Audio Tech we have been investing in R&D for four decades to open new paths.

- **Mission and values**
  - We believe in great ideas and aren’t afraid to roll-up our sleeves to make them a reality.
  - We are passionate about small details and we supervise all processes directly.
  - We like technology that makes our lives easier and safer.
  - We find simple solutions to complex problems.
  - We encourage teamwork and open minds.
  - We look towards a global world: we have an international, border-less focus.
  - We are restless and we research beyond what is obvious.
  - Our goal is quality, and we do whatever it takes to achieve it.

- **Corporate Social Responsibility**
  The LDA Audio Tech team collaborates with Universities and Vocational Training schools by teaching in training and master’s degree courses. LDA is a company that is committed to a local human resources policy, so as to strengthen the local productive manufacture.

- **We respect the environment**

- **At the forefront of quality standards**
  LDA Audio Tech has a rigorous quality management system certified under the ISO 9001 international standard. The company has a presence in the technical committees that establish requirements and protocols regulating standards for voice evacuation. Nationally, LDA Audio Tech collaborates with the CTN 23 Standardisation Technical Committee. Internationally, it works with the European Committee for Standardisation (CEN) and Technical Committee for Automatic Electrical Controls TC72 WG23, to draft EN 54-16 (equipment), EN 54-24 (speakers) and EN 54-32 (systems) fire detection and alarm system standards.
VOICE EVACUATION SYSTEMS
MAINTAINING SAFETY IN RISK SITUATIONS

The voice alarm system allows sending sequenced emergency warnings that are differentiated by zones using pre-recorded messages, guaranteeing a safe evacuation in any emergency situation: fire, earthquake, terrorist threat, etc.

The evacuation instructions can be customised and announced at any stage during an emergency situation.

The system informs users about how to evacuate the building in a controlled manner, according to an established evacuation plan.

It uses pre-recorded messages with clear instructions, not strident alarms, which helps evacuate buildings effectively.

It covers all sound needs, including PA and background music systems.
Each installation has its own needs, which not all PA and voice evacuation systems can effectively satisfy. Many of them also have high configuration and maintenance costs.

An LDA Audio Tech all-in-one PA and voice evacuation system offers a scalable, flexible solution that is easily integrated with other pre-existing systems thanks to its plug-and-play philosophy.

Its adaptation to international quality standards also adds value.

• Lower installation costs.
• Lower maintenance costs.
• Simple design.
• Robust and reliable.

WHY CHOOSING AN LDA CERTIFIED ALL-IN-ONE SYSTEM?

INTERNATIONAL STANDARDS FRAMEWORK

Voice alarm equipment are governed by Construction Products Regulation (CPR, EU no. 305/2011), which is mandatory throughout the EU and accepted as a standard in many other countries worldwide.

Specifically, voice controlled and activated alarm equipment are governed by standard EN 54-16, and components and speakers by standard EN 54-24.

While national regulations standards establish the obligation to install an EN 54 certified voice evacuation system.
ADVANTAGES OF AN LDA AUDIO TECH SYSTEM

GREATER RELIABILITY AND ROBUSTNESS
An all-in-one and EN 54-16 certified system offers advanced features with high quality and durable components.

GREATER EASE OF USE, INSTALLATION AND MAINTENANCE
A plug-and-play philosophy allows all functions to be included into a single device: amplifiers, digital audio matrix and pre-recorded message player, among others.

MORE POSSIBILITIES OF EXTENSION
An all-in-one system allows you to easily, distributed or locally scale the system through a network cable.

AUDIO OVER ETHERNET
Audio over Ethernet allows you to publish and receive additional and independent high quality digital audio inputs without any delays, in both Cobranet and Dante formats.

WEB CONTROL
The web remote control allows you to operate the entire system in the cloud, through the data network and from a central control post.

MORE FLEXIBILITY AND EASE OF INTEGRATION
Integration and open communication with other systems through Ethernet commands by UDP, RS-485 or by contact closure. There is also possibility of low-level integration directly by DLL.

NEO AND ONE, TWO SIDES OF THE SAME COIN

At LDA Audio Tech we have brought together all the advantages of the best PA and voice evacuation systems on the market during years of research, development and innovation, to offer you products that are designed to ensure the safety of all installations.

• For medium and large facilities.
• A single system covers 8 different zones.
• Easily scalable with NEO Extension units.
• High-tech and quality features that are easy and intuitive to use.
• Interfaces that easily integrate with other systems through IP and Ethernet.
• EN 54-16 and EN 60849 certificates. Approved by Middle East Civil Defence associations and various other regulatory bodies.

• For small and medium installations.
• Integration interface with fire panel.
• Simple configuration, no need for external applications.
• With 6 control zones and DSP processor.
• Prio, pre-AMP and override audio inputs and outputs.
• EN 54-16 and EN 54-4 certified.
• Scalable by ring-connecting ten ONE-500 units, reaching 60 zones and 5000 W of power.

NEO: VIRTUE, IN THE MIDDLE GROUND
ONE: WHO SAID SMALL?
• Compact and affordable all-in-one system.
• EN 54-16 and EN 60849 certified.
• Audio matrix (40x1024) and DSP.
• 5 balanced analogue + 32 digital audio inputs.
• Advanced event configuration.
• Scalable to up to 1024 zones.
• Audio over Ethernet.

• Control by touch screen and remote control through cloud SIME Control software.
• PA and BGM system with high sound quality.
• Internal memory for pre-recorded messages (13 hours or 99 messages).
• Line supervision and backup amplifier.
• Evacuation by stages according to EN 54-16, with 2 separate pre-recorded message players.

• 2 amplification channels with 250 W to distribute between zones.
• Line terminator without return for supervision.
• DSP processor.
• 6 control zones.
• Possibility of wall installation, rack and desk.
• Integrated battery charger and housing EN 54-4 certified.

• Integration interface with fire panel.
• EVAC and ALERT pre-recorded messages.
• All integrated, no need for external applications.
• 4 pre-AMP outputs.
• 3 audio inputs with Vox and Prio.
• 6 override outputs.
We have been innovating and creating voice evacuation and PA system solutions for all kinds of venues for decades, and we know that a comprehensive service is as important as a good product.

That’s why we accompany installers, system integrators and companies that choose LDA Audio Tech throughout their entire project, from start to completion: because we want our clients and partners’ projects to be a success, wherever they are.

**SOLUTION DESIGNS**

Our clients place their trust in our experience; we analyse their needs and offer them the appropriate and suitable solutions for their needs.

We assist our partners on the presales and design of PA and voice evacuation systems, as well as provide consultancy services based on industry regulatory frameworks and international regulations.

LDA’s engineering teams study each case and propose tailored, functional designs for a complete solution, including reports and diagrams of the system to be installed.
effectiveness of the system and intelligibility objectives are reached.
In general, we design electroacoustic solutions and ensure the most suitable equipment for each installation, from speakers and microphones to distributed audio, PA and voice evacuation systems.

An example of the acoustic study carried out for Metro Río

Distribución de STI en superficie:

ACOUSTICS ENGINEERING

We carry out on-site acoustic studies, with simulations developed through specialised EASE® software.
We study each case and draw up a proposal for improving the system based on acoustic measurements taken on-site; we assess necessary insulation, associated noise levels and possible corrective measures to ensure the effectiveness of the system and intelligibility objectives are reached.

In general, we design electroacoustic solutions and ensure the most suitable equipment for each installation, from speakers and microphones to distributed audio, PA and voice evacuation systems.

SYSTEM INSTALLATION

We take care of commissioning of our systems and accessories, and go to wherever our customers are based.
We assist in the installation, and train maintenance and operations personnel in all the system's technical aspects.
We carry out the necessary wiring or cabling services, and parametrisation and configuration of the systems, so that everything works efficiently and runs smoothly thanks to our plug-and-play philosophy.
In addition, our systems are easily integrated with third-party technologies as they comply strictly with industry protocols and international standards.
This makes any installation an affordable project in terms of costs and maintenance, and with the comfort of knowing you are in LDA Audio Tech hands.

SUPPORT AND REPAIRS

Our support team is ready to offer you the best personalised care and resolve any doubts that may arise when installing our systems.
We offer continuous telephone support 8 hours a day, 5 days a week for all LDA Audio Tech installations, as well as remote access for solving any technical issues.
Additionally, we provide on-site advanced support and on-site assistance in case of complex installations.
LDA Audio Tech’s post-sales service includes the repair and tuning of equipment, and has an ‘in advance’ replacement service for damaged components.
We provide specialised repair training for our partners and distributors, so that they can stay up-to-date on the latest technologies and innovations in the sector.
SOLUTIONS FOR ANY ENVIRONMENT

SHOPPING CENTRES
• Possibility of installing a high quality sound system.
• Announcements of advertising messages.
• Integration with automatic text-to-speech systems.
• Differentiation by zones.
• Integration of PA systems with the general system by stores.
• Automatic gain control.

AIRPORTS
• Design of direct electroacoustic solutions.
• Integration with airport automatic announcements systems.
• Parametrisations according to project requirements.
• Multizone and multisource (boarding gates).
• Automatic gain control.

HOSPITALS
• Sealed speakers for medical environments.
• Multizone and multisource (microphones).
• Integration with IP telephony.
• BMS and SCADA integration.

TRANSPORT NETWORK
• Redundant distributed system.
• Integration with TETRA system.
• BMS and SCADA integration.
• Acoustic studies to optimise intelligibility in stations.
• Automatic gain control.

UNIVERSITIES
• Possibility of systems distributed by buildings (large campuses).
• Integration of the general system with the local system in each class.
• Evacuation by stages.

SPORTS CENTRES AND AUDITORIUMS
• Great audio quality.
• Possibility of selecting local music source.
• Single PA and voice evacuation system.
• More suitable electroacoustic solutions.

TUNNELS
• Distributed system.
• High intelligibility and directivity.
• Integration with SCADA (Modbus or Ethernet).
• SNMP Supervision.
QUALITY IS AN ATTITUDE

The best way to ensure that our systems comply with the function they were designed to do is to ensure they are awarded relevant accredited certifications according to the strictest international standards.

All LDA Audio Tech quality systems and processes are endorsed by the ISO 9001 certification and our solutions are guaranteed by the main sector standards and safety certificates.

LDA Audio Tech is the leading Spanish company in the manufacture of PA and voice evacuation systems. We have offered innovation, quality and commitment for 40 years, by meeting our customers and partners' needs.

Our priority is to guarantee people's safety in alarm and emergency situations. And we do it with functional, flexible, efficient and accessible solutions.

We work with installers, engineers and integrators to provide them with a product that is worthwhile in terms of maintenance, and whose reliability and performance are our main focus.

We continue to innovate alongside professionals to provide the best experience to the end user.

Because we know that the most important thing is often what you can’t see; what you don't notice is what makes the difference; that is what gives us the security and tranquillity of knowing that everything is under control.

THE MOST IMPORTANT THING IS OFTEN WHAT YOU CAN’T SEE