

**OUR  
PRODUCTS**



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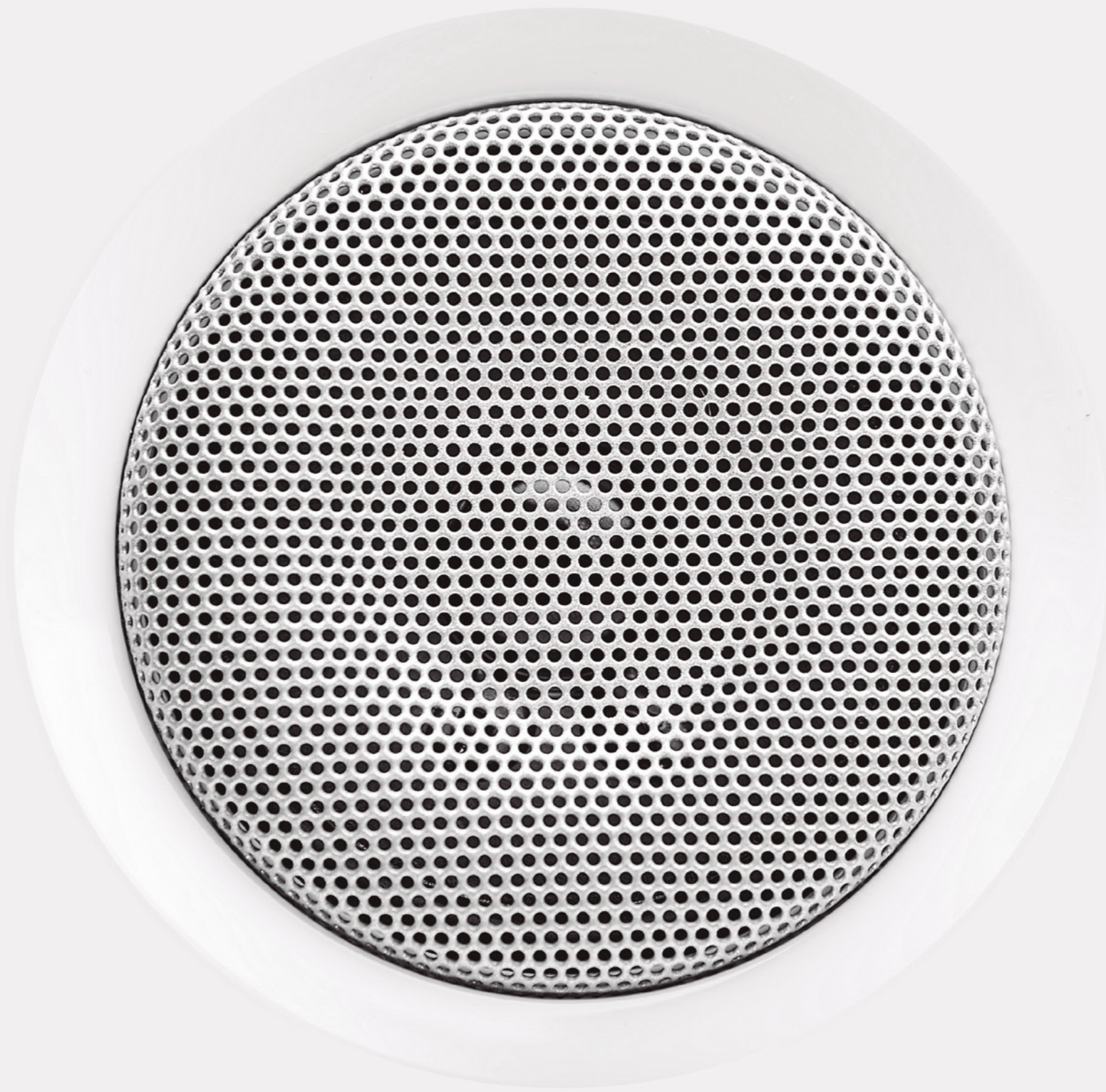
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# NEO



COMPACT  
SOLUTION FOR  
DEMANDING  
FACILITIES



NEO is an EN 54-16 certified public address (PA) and voice evacuation system designed for medium and large venues.

It is an all-in-one compact system with plug-and-play connections that reduces costs and saves time by facilitating all installation, maintenance and operating procedures in any building.

A single unit covers up to 8 separate amplification areas, it has configurable events and uses Ethernet, Cobranet and Flexnet protocols to send and receive audio from the data network without special cabling.

Rear view ▶

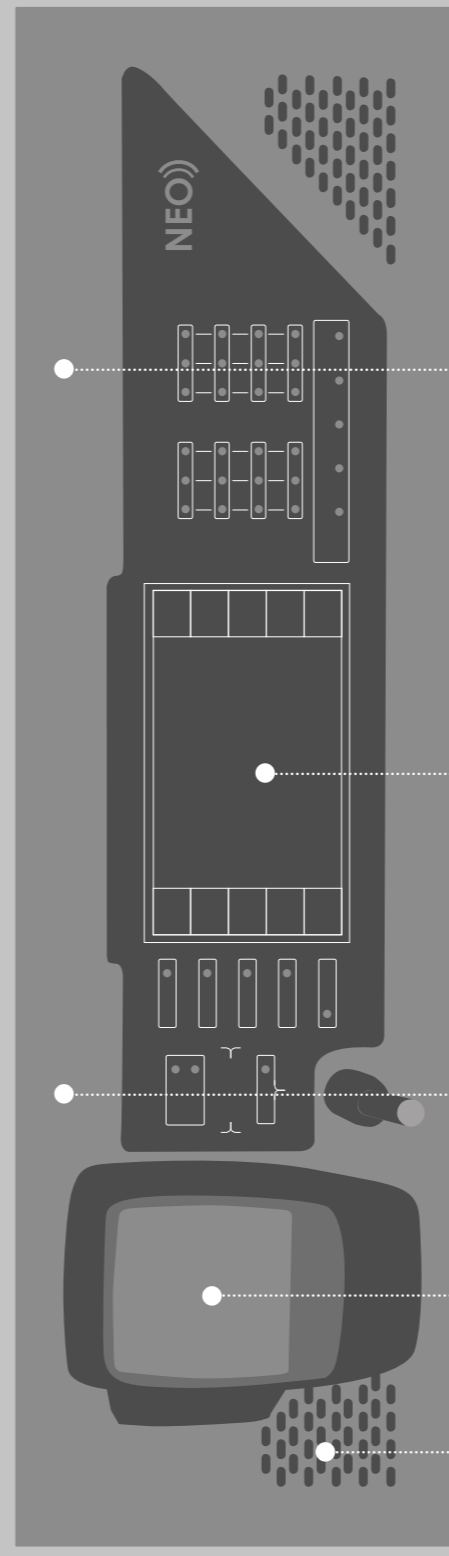
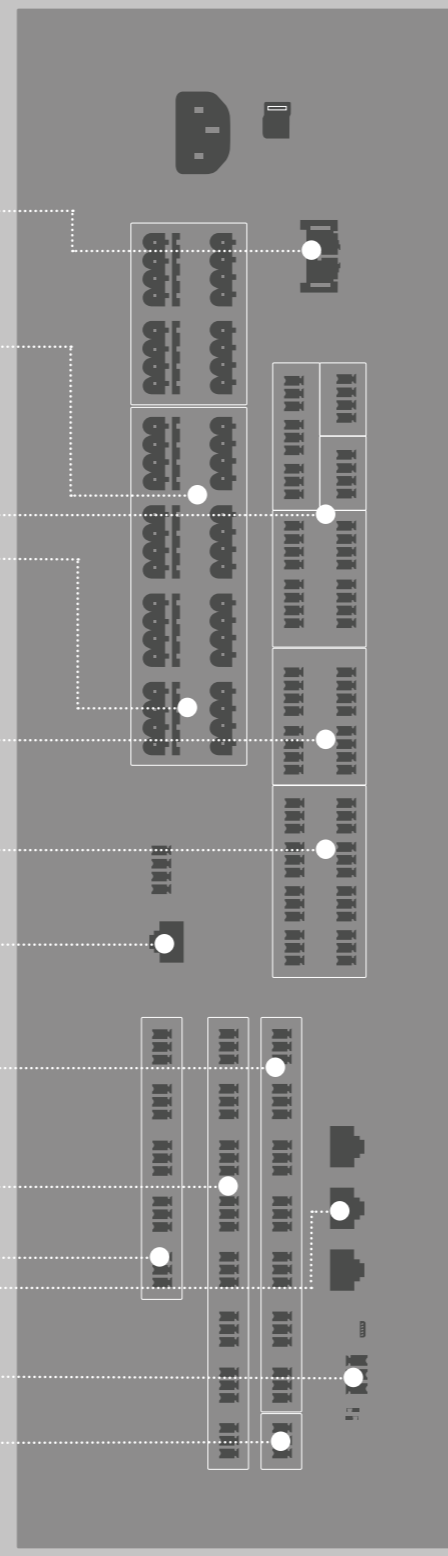
◀ Front view

# NEO 8060

Master controller

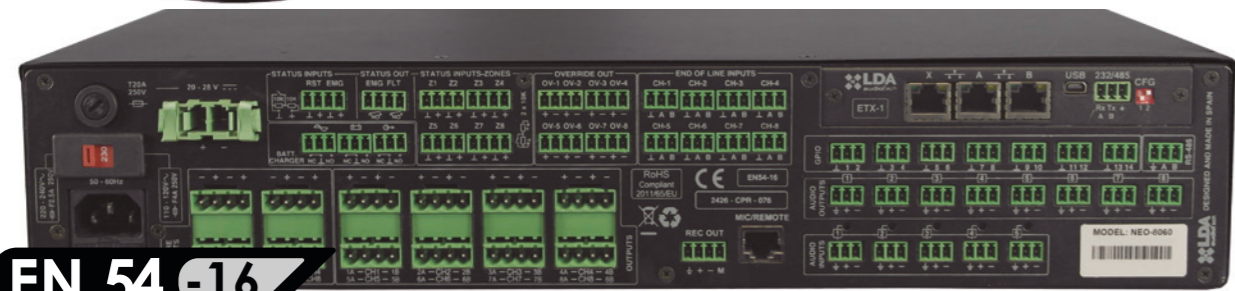
- 1 Backup power input 24 V DC
- 2 8 Class D amplifiers, each 120 W
- 3 Contact closure interface with fire detection panel
- 4 Line supervision and standby amplifier
- 5 8 24 V outputs for attenuator control
- 6 8 EOL device inputs
- 7 Microphone bus and remote panel
- 8 14 GPIO closures for integration
- 9 8 pre-amplified audio outputs
- 10 5 balanced analogue audio inputs
- 11 Triple Ethernet interface
- 12 RS-485 port for integrations
- 13 RS-485 interface with fire detection panel

- 14 Dual player for pre-recorded messages (13 hours / 99 messages)
- 15 4.3" colour, touch-screen display
- 16 Digital audio matrix (40 inputs and up to 1024 zones)
- 17 Supervised emergency microphone
- 18 Monitor speaker



# NEO 8060 FEATURES

- 1 BACKUP POWER INPUT 24 V**  
Connection with EN 54-4 certified battery charger.
- 2 8 CLASS D AMPLIFIERS 120 W**  
Controls up to 8 zones simultaneously with 8 x 120 W @100 V settings. Each amplifier has A+B lines to increase redundancy.
- 3 CONTACT CLOSURE INTERFACE WITH FIRE DETECTION PANEL**  
It has 12 supervised interfaces: input, output and zone.
- 4 LINE SUPERVISION AND STANDBY AMPLIFIER**  
DC, AC and ground leak, as well as the possibility of enabling an amplifier as a backup.
- 5 8 24 V OUTPUTS FOR ATTENUATOR CONTROL**  
Automatic deactivation up to 32 volume attenuators via 8 24 V outputs and sending of priority signals.
- 6 8 EOL DEVICE INPUTS**  
Including optional end-of-line terminators (EOL) to detect faults in the line.
- 7 MICROPHONE BUS AND REMOTE PANEL**  
Up to 8 remote devices on ACSI bus, both microphones and emergency panels.
- 8 14 GPIO CLOSURES FOR INTEGRATION**  
It has a combination of signals received by contact closures through logical operations to act on the equipment, through the event manager.
- 9 8 PRE-AMPLIFIED AUDIO OUTPUTS**  
Duplication of the signal sent through 8 audio outputs.
- 10 5 BALANCED ANALOGUE AUDIO INPUTS**  
Mono audio inputs for BGM or LDA A1 single-zone microphones.
- 11 TRIPLE ETHERNET INTERFACE**  
Cobranet digital audio with up to 32 additional inputs, remote control, UDP and redundant connection of extensions.
- 12 RS-485 PORT FOR INTEGRATIONS**  
Sending and receiving of advanced commands for integrations by RS-485.
- 13 INTERFACE BY RS-485 WITH FIRE DETECTION PANEL**  
Exclusive port for advanced integrations with fire detection panels.
- 14 DUAL PLAYER OF PRE-RECORDED MESSAGES**  
Internal memory for audio (13 hours or 99 messages), with simultaneous execution, both manual and automatic.
- 15 4.3" COLOUR, TOUCH-SCREEN DISPLAY**  
Quick and intuitive access to the NEO system main functions.
- 16 DIGITAL AUDIO MATRIX**  
Simultaneous and independent routing of any input to any output (zones) thanks to the digital matrix of 40 inputs and up to 1024 zones.
- 17 SUPERVISED EMERGENCY MICROPHONE**  
Push-to-talk (PTT) system supervised with integrated output recording.
- 18 MONITOR SPEAKER**  
To supervise any stored pre recorded messages, input or audio output.



**EN 54 -16**

Certificate No. 2426-CPR-076

## OTHER FEATURES NEO 8060

### · EASY INTEGRATION WITH THIRD-PARTY TECHNOLOGIES THROUGH SOFTWARE

NEO easily integrates with other devices by Ethernet commands (UDP), RS-485 serial port or GPIO contact closure thanks to the NEO Configurator software.

### · ADVANCED EVENTS MANAGEMENT

With the NEO Configurator software you can create events, save them and perform different actions: programming by date and time, volume control by areas, playback by pressing the mic button, etc.

### · AUDIO OVER ETHERNET

NEO sends and receives audio over Ethernet with optimal quality (48 KHz, 24 bits) and with up to 32 different inputs simultaneously.

### · TOP QUALITY SOUND

Filters and parametric equalisation of 7 bands for audio inputs and outputs with digital signal processing (DSP) technology.

### · SUPERVISION OF LOUDSPEAKER LINE

The NEO system measures the state of the loudspeaker lines from its amplifiers, in addition to allowing the optional use of EOL devices at end-of-line.

# NEO

EXTENSION



**EN 54 -16**

Certificate No. 2426-CPR-105

## WE REACH WHEREVER YOU NEED US TO

The LDA Audio Tech NEO system can be expanded with NEO Extension units to reach up to 1024 amplification zones with a single system. So we have more power and a versatile system that adapts to any configuration.

Simple, fast and cost-effective: a single UTP cable transmits signals via Ethernet and Flexnet, so that the system recognises the units and expands automatically by zones.



# NEO

EXTENSION

EN 54-16

Certificate No. 2426-CPR-105

## TECHNICAL FEATURES OF THE NEO EXTENSION RANGE

- Class D amplifiers in 70/100 V lines.
- Pre-amplified audio outputs for external PA.
- DSP, 7-band parametric equaliser input/output, loudness, LDA sound enhancer, independent volume controls per I/O channel and audio filters.
- Triple Ethernet port for Cobranet digital audio, remote control and scaling up to 1024 daisy-chained zones.
- Control for attenuators.
- Supervised contact closures with central fire alarm panel.



### NEO EXTENSION 4250

4 x 250 W / 2 x 500 W

- EN 54-16 Certification.
- 4 250 W class D amplifiers or 2 500 W amplifiers in lines of 70/100 V.
- 4 pre-amplified audio outputs.
- Up to 16 LDA AT6 attenuators.
- 4 contact closures zone (+1 general/reset) for integration with fire alarm control panel.



### NEO EXTENSION 8250

8 x 250 W

- EN 54-16 Certification.
- 8 250 W class D amplifiers of in 70/100 V lines.
- 8 pre-amplified audio outputs.
- Up to 32 LDA AT6 attenuators.
- 8 contact closures zone (+1 general/reset) for integration with fire alarm control panel.



### NEO EXTENSION 4500

4 x 500 W / 2 x 1000 W

- EN 54-16 Certification.
- 4 500 W class D amplifiers or 2 1000 W amplifiers in lines of 70/100 V.
- 4 pre-amplified audio outputs.
- Up to 16 LDA AT6 attenuators.
- 4 contact closures zone (+1 general/reset) for integration with fire alarm control panel.



### NEO EXTENSION 4500L

4 x 500 W @4 Ω

- EN 54-16 Certification.
- 4 500 W class D amplifiers for low impedance lines of 4 Ω.
- 4 pre-amplified audio outputs.
- 4 analogue audio inputs.
- Up to 16 LDA AT6 attenuators.
- 4 contact closures zone (+1 general/reset) for integration with fire alarm control panel.

## EASY AND HASSLE-FREE CONNECTIONS FOR ANY INSTALLATION

The NEO system by LDA Audio Tech is designed specifically for installers, engineers and integrators working on complex projects.

NEO easily and simply interacts with other third-party systems and technologies thanks to its connections, ports, triggers and native software.

NEO can be adapted to virtually any installation without additional wiring and allows for a remote centralised control.

## BASIC INTEGRATION

Based on events and managed via software from the NEO Configurator.

The NEO system offers:

- 21 contact closures.
- 485 serial port.
- Ethernet port.
- Other triggers: equipment status, date, time, etc.

## ADVANCED INTEGRATION

At low-level, the integration of NEO is based on communication through dynamic link libraries (DLL).

It is very effective and allows systems and devices to communicate without unwanted interference during the transmission of data.

LDA supplies a low-level communication interface for the most demanding projects and applications.



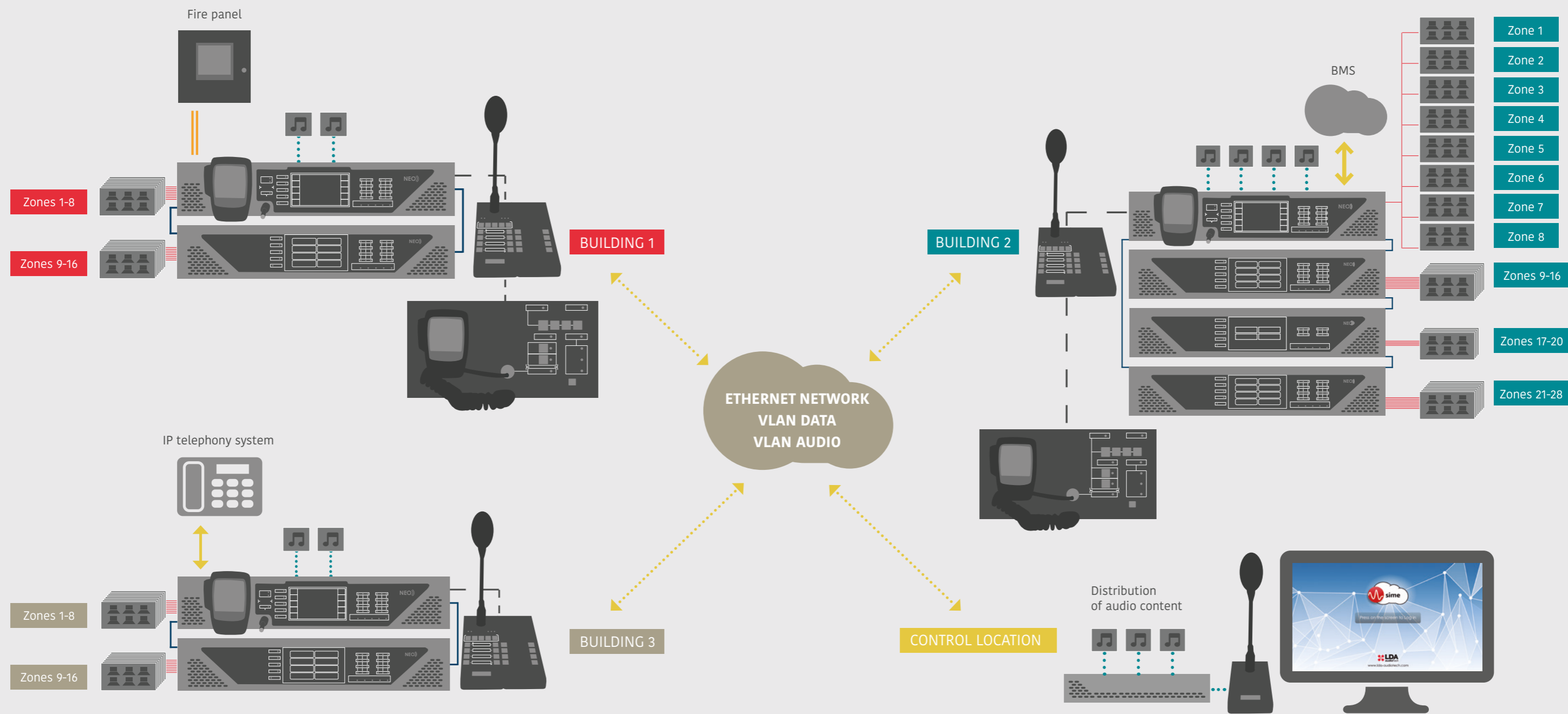








## AN INTEGRATED AND CENTRALISED SYSTEM

The LDA SIME Control software allows you to monitor several distributed NEO systems in an installation with separate zones.

A single person can control the status of the entire system through a touch-screen interface in the cloud.

The reception and routing of audio through the Ethernet network can be controlled from the SIME control panel, this includes incident detection in real time.



 Integration with fire panel	 Analogue audio inputs	 Amplification output (A + B wiring)	 LDA FlexNet® protocol	 LDA ACSI® bus	 Ethernet
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General or by zone contact series 485 closures

Audio balanced 2 pair shielded cable

2 x 1.5 mm<sup>2</sup> copper pair cable (according to power and distance)

Standard UTP cabling

Standard UTP cabling

Standard UTP cabling



# EVERYTHING UNDER CONTROL FROM ANY LOCATION

LDA Audio Tech offers the ideal management platforms to configure and control all your systems.

SIME is a software platform based on web services to manage LDA Audio Tech PA and voice evacuation systems.

It provides complete, easy and intuitive management through a touch-screen interface on a web browser. SIME is scalable and customisable to any installation.

NEO Control Software has been developed for remote and secure access to any NEO system integrated by NEO 8060 units and NEO Extension.



## SIME CONTROL

- Management and centralised supervision of the system.
- Multiplatform and remote access.
- Volume control.
- Audio routing and pre-recorded messages, with distribution to the entire network.
- Emergency functions.
- Integration with third-party technologies.
- SNMP Supervision.

### ADDITIONAL MODULES:

#### SIP VOIP MODULE

- SIP VOIP calls through PA.
- Integration with PBX telephone exchanges.
- Dialling available on SIP phone.

#### TTS MODULE

- Text-to-speech function.
- High quality Verbio TTS engine.
- Text introduction in SIME GUI.
- Several languages available.



## SIME CALENDAR

- Programming and automation of events.
- Event viewer by calendar.
- Creation of playlists.
- Distribution of audio content.
- Integration with SIME Control.



## NEO CONTROL SOFTWARE

- Central and secure control of the NEO system.
- Distribution and routing of quality audio.
- Easy to install and configure.
- Synchronised with the NEO system.
- Without the need to configure databases.
- Exclusive for NEO systems (NEO 8060 and NEO Extension units).



# PUBLIC ADDRESS AND BGM DISTRIBUTION OF CRYSTAL- CLEAR SOUND FOR ALL OCCASIONS

Reliable equipment to ensure the correct delivery of sound in any space.

LDA Audio Tech offers a complete range of PA and background music systems for high-quality, centralised broadcasting of pre-recorded messages, background music and other announcements.



## QX-060 MIXER AMPLIFIER

- 3 microphone inputs (1 with XLR) + 2 with 1/4" jack and RCA connectors.
- 2 priority levels for input sources.
- USB MP3 player, SD card and FM radio.
- Bluetooth input.
- Integrated audio source line output.
- Integrated protection systems for overcurrent and thermal protection.



## BA-2250 MULTICHANNEL AMPLIFIER

- 2 Class D amplifier channels, 250 W each @70/100 V.
- Balanced and unbalanced audio input.
- Short circuit and overload self-protection.



## RCD-21 PLAYER

- CD/DVD, CDR, CDRW, MP3, WMA and FM/AM, high-speed USB and SD cards player.
- Independent outputs to play music and applications on 2 channels simultaneously.
- Independent volume control for 2 line outputs.



## QX-240 MIXER AMPLIFIER

- 6 microphone inputs or line input.
- 3 priority levels and 7 band equalizer.
- Warning tone and siren.
- Integrated protection systems for overcurrent and thermal protection.



## BA-2500 MULTICHANNEL AMPLIFIER

- 2 Class D amplifier channels, 500 W each @70/100 V.
- Balanced and unbalanced audio input.
- Short circuit and overload self-protection.



## ATTENUATORS AT SERIES

- For high impedance lines.
- 10 volume steps, each 3 dB.
- Mounting bracket in different types of boxes.
- Manoeuvring entry for the emergency or priority system.
- Available for 12 W and 50 W.



## SPEAKERS: A MODEL FOR EVERY NEED

The adequate sound pressure and intelligibility levels of an emergency system largely depends on the speakers and acoustic solutions selected.

The LDA Audio Tech range is distinguished by its wide coverage, sharpness and variety of formats and applications.

We also have an EN 54-24 certified line for voice alarm systems in fire protection.

Our directive solutions allow it to adapt to any complicated acoustic or high reverberation environment.



EN 54-24  
certified

### CH-42TN

- 5" ceiling speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.375 W @70 V.
- High protection against fire.
- Fire dome included.



EN 54-24  
certified

### SC-95TN

- 6.5" coaxial ceiling speaker.
- Lines: 24/12/6/3 W @100 V / 4 Ω.
- Easily blends into interior decorations.
- Robust metal housing with fire dome.
- Easy configuration and wiring.

EN 54-24  
certified



### DS-60TN

- 4" surface speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.25 W @70 V.
- Robust metal case, that blends in with interior decoration.
- Easy installation and power configuration.



EN 54-24 certified

### PCM-20TN

- Unidirectional projector.
- Lines: 20/10/5/2.5 W @100 V.
- High sound pressure, low distortion and wide frequency response.
- High IP-65 ultraviolet resistance and protection.

Suitable for outdoor use



EN 54-24 certified

### PCM-220TN

- Bidirectional projector.
- Lines: 20/10/5/2.5 W @100 V and 10/5/2.5/1.25 W @70 V.
- High sound pressure, low distortion and wide frequency response.
- High IP-65 ultraviolet resistance and protection.

Suitable for outdoor use



EN 54-24 certified

### CI-825TN

- Acoustic column.
- Lines: 40/20/10/5 W @100 V and 20/10/5/2.5 W @70 V.
- Made of resistant aluminium, support bracket with angle adjustment.
- 100 V and 70 V transformer.
- Adaptable to extreme environments, IP-66 ultraviolet protection.

Suitable for outdoor use



EN 54-24 certified

### CI-225TN

- Acoustic column.
- 70/100 V transformer.
- Made of resistant aluminium, support bracket with angle adjustment.
- Adapts to extreme environments, IP-66 ultraviolet protection.

Suitable for outdoor use



EN 54-24 certified

### PS-30TN

- Horn.
- Lines: 15/10/5 W / 8 Ω @100 V and 7.5/5/2.5 W / 8 Ω @70 V.
- Made of highly resistant ABS, stainless steel U-bracket.
- High sensitivity and directivity.

Suitable for outdoor use



### SC-32T

- 2.5" flushmount loudspeaker.
- Lines: 6/3 W @70/100 V.
- Impedance transformer for 70 V lines.
- Metal housing with IP-54 ultraviolet protection.
- Temperature range: -40° to 110°C.



### CH-42T

- 6" speaker, high sensitivity.
- Lines: 6 W @70/100 V / 8 Ω.
- Low-loss transformer for 70 V and 100 V line.
- Body and grid made of acoustically transparent metal. Rear metallic cover.
- 4 contact Euroblock connector.
- High performance: 92 dB (1 W, 1 m).
- Fire dome, high protection against fire.



### SC-85T

- 2-way ceiling speaker (4" woofer).
- Lines: 20/10/5/2.5 W @100 V and 20/10/5/2.5/1.25 W @70 V.
- High performance: 87 dB (1 W, 1 m).
- 4-pole terminal block.
- Acoustically transparent metal grid, easy installation.



### SC-95T

- 2-way ceiling speaker: 8" woofer and 0.5" tweeter.
- Lines: 40/20/10/5/2.5 W @100 V and 20/10/5/2.5/1.25 W @70 V.
- High performance: 88 dB (1 W, 1 m).
- Audio crossover.
- Acoustically transparent metal grid, easy installation.



### CS-42T

- 6" speaker to flushmount in ceiling.
- Lines: 6 W @ 70/100 V / 8 Ω.
- Low-loss transformer for 70 V and 100 V line.
- Body and grid made of acoustically transparent metal.
- High performance: 92 dB (1 W, 1 m).
- Clamping claws for sheet tin and plaster ceilings.



### DS-60T

- 5" full-range surface speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.375 W @70 V.
- High performance: 92 dB (1 W, 1 m).
- Low-loss transformer for 70/100 V lines.
- Acoustically transparent metal grid.



### LS-51T

- 2-way acoustic box: 5" woofer and 1" tweeter.
- Lines: 30 W @100 V / 15 W @70 V.
- High performance: 89 dB (1 W, 1 m).
- Connector for up to 2.5 mm cable.
- Box in ABS and metal grid.
- Colour: white RAL 9003.
- Available in black
- IP-54 ultraviolet protection.

Suitable for outdoor use



### PCM 20T

- Cylindrical anti-vandalism projector.
- Lines: 20/10 W @100 V and 20/10/5 W @70 V.
- Full-range speaker, 5" diameter.
- Good sensitivity: 91 dB (1 W, 1 m).
- 3 mm aluminium enclosure, acoustically transparent and very resistant steel grid.
- IP-55 ultraviolet protection.

Suitable for outdoor use



### PS-30T

- Anti-vandal horn.
- Lines: 30/15/7.5/3.75 W @70/100 V / 8 Ω.
- Stainless steel U-bracket and U-shaped bracelet.
- High sensitivity.
- Manufactured in ABS and with IP-66 ultraviolet protection.

Suitable for outdoor use



### CI-625T

- Acoustic column with 6 drivers x 2.5".
- Lines: 40/20 W @100 V and 20/10 W @70 V.
- Very linear frequency response: 170 Hz - 15 kHz.
- Coherent phase response.
- Low-loss transformer.
- Acoustically transparent metal grill and IP-54 ultraviolet protection.



### CI-825T

- Acoustic column with 8 drivers x 2.5".
- Lines: 40/20 W @100 V and 20/10 W @70 V.
- Very linear frequency response: 170 Hz - 15 kHz.
- Coherent phase response.
- Low-loss transformer.
- Acoustically transparent metal grill and IP-54 ultraviolet protection.



### SW-100T

- 8" ceiling subwoofer.
- Lines: 7.5/15/30/60 W @70/100 V.
- Excellent frequency response at 35-200 Hz +/- 10 dB low frequency.
- Compact design, easy to install.
- 8" driver.
- High sound depth.



### SF-25T

- 5" full-range spherical speaker.
- Lines: 20/10/5 W @100 V and 10/5/2.5 W @ 70 V / 8 Ω.
- High performance: 92 dB (1 W, 1 m).
- Low-loss transformer for 70/100 V lines.
- Acoustically transparent metal grid, easy installation.



### ICX7 MECHANICAL STEERING COLUMN

- Passive column.
- 350 W PGM @6 Ω.
- High performance: 117 dB.
- Options: stackable and white/black colours.
- With wall mounting accessory.

### IC7 MECHANICAL STEERING COLUMN

- Active column.
- IC1-200 amplification module.
- High performance: 117 dB.
- Options: stackable and white/black colours.
- With wall mounting accessory.



### CI-207T

- 2-way metallic acoustic box: 2 2" woofers and 1 0.5" tweeter.
- Lines: 10/5/2.5 W @100 V and 5/2.5/1.25 W @70 V.
- High sensitivity: 88 dB (1 W, 1 m).
- Very linear frequency response: 170 - 15000 Hz.
- Colour: black RAL 9005.
- Support for easy mounting on ceilings.



### BS-40T

- Hidden speaker with steel chassis, can be embedded into walls and ceilings.
- Transformer for 70/100 V lines.
- Up to 40 W.



### LM-200

- 2-way system with double bass reflex: 10" woofer and 1.75" tweeter with 6-12 dB/oct crossover.
- Rated power 250 W AES, maximum power 500 W.
- Frequency response 45 Hz - 20 kHz (- 3 dB).
- Sensitivity 98 dB - 3 dB (1 W, 1 m).
- Speaker impedance 8 Ω.
- Horizontal dispersion 100°/ vertical dispersion 55°.



## NEO ACCESSORIES FOR A COMPREHENSIVE SYSTEM

The reliability of a good system depends on each component. That's why at LDA Audio Tech we focus on each and every accessory that makes NEO an authentic PA and voice evacuation center with high functionality and maximum flexibility.



### POWER-3600

- EN 54-4 battery charger.
- Reserve and auxiliary power.
- 6 outputs x 960 W, maximum power 3600 W.
- Supports up to 3 NEO Extension units.

### POWER-960

- EN 54-4 battery charger.
- Reserve and auxiliary power.
- 2 outputs x 480 W, maximum power 960 W.
- Supports 1 NEO 8060 unit.

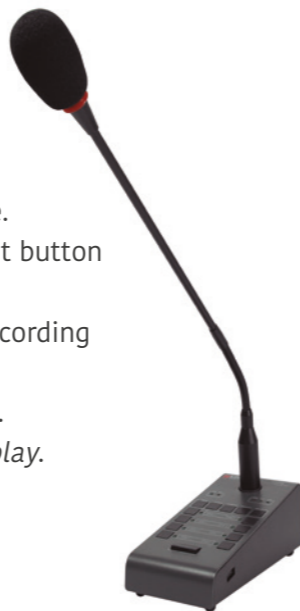


### ZES-22

- Digital audio processor, 4 inputs/outputs.
- Configurable 2x2 / 1x3 / 3x1 / 0x4 / 4x0.
- Audio via Cobranet (48 KhZ, 24 bits).
- High performance DSP.
- Adjustable sensitivity +20 dB / -10 dB.
- Phantom power.

### MPS-8Z

- Multizone microphone.
- 8 zone buttons, 1 event button and 1 memory button.
- Auto lock and voice recording for redial.
- ACSI bus (UTP) control.
- LED indicator and *display*.
- Local power supply.



### MPS-8K

- Expansion unit for MPS-8Z microphone.
- 8 programmable buttons for software for 8 PA zones.
- Allows connecting up to 5 units together.
- Designed for intensive use.



### A1

- Microphone desk with light indicators.
- Microcontroller for different systems: on/off mode, PTT, RS-485, 2-wire TTL, pre-warning tone and TTL control levels.
- Local power and audio gain adjustment.



### VCC-64

- Wall controller installed in local zone by RS-485 bus cable.
- Up to 99 channels and volume from 0 to 9.
- 4-pin connector (terminal block).
- Channel selector DIP and 2x8 character display.



### TFL-1

- Line terminator to measure impedance.
- Supervision of lines 70/100 V.
- Connection of several devices to a line.
- Easy installation, external assembly, small size and low consumption.



### VCC-64PSK

- RJ-45 communication and power adapter for VCC-64 controller.
- Connection of up to 10 devices.
- Up to distances of 200 m.
- Standard UTP cabling.



### VAP-1

- Voice-activated alarm panel with event button.
- Direct access to all NEO system evacuation functions.
- Power indicators, status, remote control and warnings.



### 4U RACK

- 4U 19" wall rack for remote voice-activated alarm panel VAP-1.
- Includes glass door.
- Allows up to 2 VAP-8K extension units.
- Measurements: 600 x 150 x 288 mm.



### VAP-8K

- Keyboard expander for VAP-1 panel.
- 8 software programmable buttons for 8 PA zones.
- Each VAP-1 supports up to 7 expansion keypads.



### 6U RACK

- 6U 19" wall rack for remote voice-activated alarm panel VAP-1.
- Includes glass door.
- Allows up to 5 VAP-8K extension units.
- Measurements: 600 x 150 x 360 mm.

## RELIABLE AND FLEXIBLE TECHNOLOGY FOR YOUR PROJECT

LDA Audio Tech equipment and components are designed with one single objective: **to provide you with the solution you need.**

The LDA team will give you support, personalised attention and specialised advice. We know that your investment is valuable, that's why we guarantee reliability from the start through to the completion of your project.

We will accompany you throughout your project's life-cycle, offering flexible **audio, PA and voice evacuation solutions**, while accommodating the strictest international standards.

LDA Audio Tech provides service to installers, integrators and engineers around the world who trust our quality and rely on us for the best sound.