PRODUCT
CATALOGUE

**PUBLIC ADDRESS AND
VOICE ALARM SYSTEMS**

LDA audioTech

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HEADQUARTERS
Severo Ochoa, 31
29590 Malaga
Spain
Tel. +34 952 028 805
sales@lda-audiotech.com

SPAIN
San Rafael 4 B,
oficina 28
28108 Alcobendas, Madrid
Tel. +34 910 534 750
lrada@lda-audiotech.com

**GERMANY / AUSTRIA /
SWITZERLAND / LUXEMBOURG
/ NETHERLANDS / BELGIUM**
Gräf & Meyer GmbH
Ringstraße 1. D-66459 Kirkel
Tel. +49 (6841) 93493–0
info@gplusm.de

SAUDI ARABIA
Al Nour Commercial Center.
7th Floor
Jeddah
Tel. +966 53 300 3675
sufyan@lda-audiotech.com

EGYPT
El Merghany Street. 7th floor,
Office no 44. Heliopolis, Cairo
Ahmed Mostafa
Tel. +20 0111 004 4960
amostafa@lda-audiotech.com

COLOMBIA
Carrera 8a #99-55. Bogota D.C.
Tel. +57 313 568 8868
fmocana@lda-audiotech.com

QATAR
The Pearl
Yehya Ali
Tel. +974 3391 6539
qatar@lda-audiotech.com

IVORY COAST
vtib- Zone franche Bassam
Claude Kossigan
Tel. + 225 07 323 152
kossigan@lda-audiotechci.com

www.lda-audiotech.com/en
info@lda-audiotech.com

o1ne

THE MOST COMPACT AND COST-EFFECTIVE IN THE MARKET

ONE is a complete EN 54-16 certified public address, background music and voice alarm system that includes an integrated EN 54-4 battery charger in the same device.

ONE has an innovative Wall & Rack design that allows it to be mounted on both the wall and the rack, according to the needs of each project. It is specifically designed for small and medium installations.

ONE System is very easy to install and configure thanks to the Autosetup Function, saving both time and costs.

- EN 54-16, EN 54-4 and EN-60849 compliant.
- Built-in battery charger included.
- Very easy to install and configure (with autosetup function, wall or rack).
- 500 W*, 2 amplifiers, 6 zones and 6 audio sources.

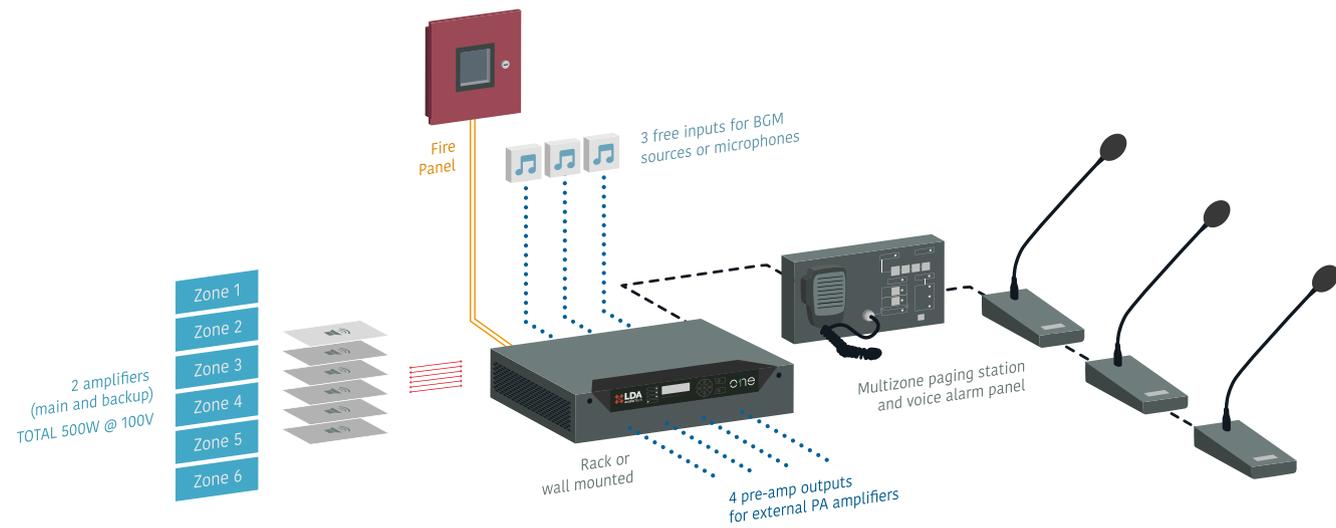*500 W according to EN 60065, equivalent to 200 Wrms

ONE-500

Main unit inside

1. 6 outputs/zones. Digital 6x6 audio matrix, expandable.

2. 2 class D amplifiers with two configurations for 100/70 V lines up to 500 W (total maximum*). Backup amplifier included.

3. EN 54-4 battery charger and 12 V 17 Ah battery.

4. 3 audio inputs (BGM or mic) + 1 mixed input. Noise gate and contact closure for control.

5. Paging station input up to 8 MPS-8Z multizone microphones or VAP-1 voice alarm panel.

6. Dual message player for pre-recorded messages EVAC + ALERT. Phased evacuation. 10 minutes storage for pre-recorded messages.

7. LCD display and control (access control).

8. Wall & Rack design, easy to install. Plug & Set mode for EN 54 PA/VA.

9. 8+2 GPIO ports (supervised for integration with Fire Alarm Control Panel).

10. Attenuators control.

11. 4 pre-amp outputs for external PA amplifiers connection.

12. DSP: 3/7-band input/output parametric equalizer, loudness, LDA sound enhancer, independent volume control per each input and master volume for outputs.

13. Loudspeaker lines supervision. Line terminator without return for supervision.

14. Failure detection and indication in all emergency functions. USB backup/restore and emergency log.

15. Designed and made in Spain by LDA AUDIO TECH.
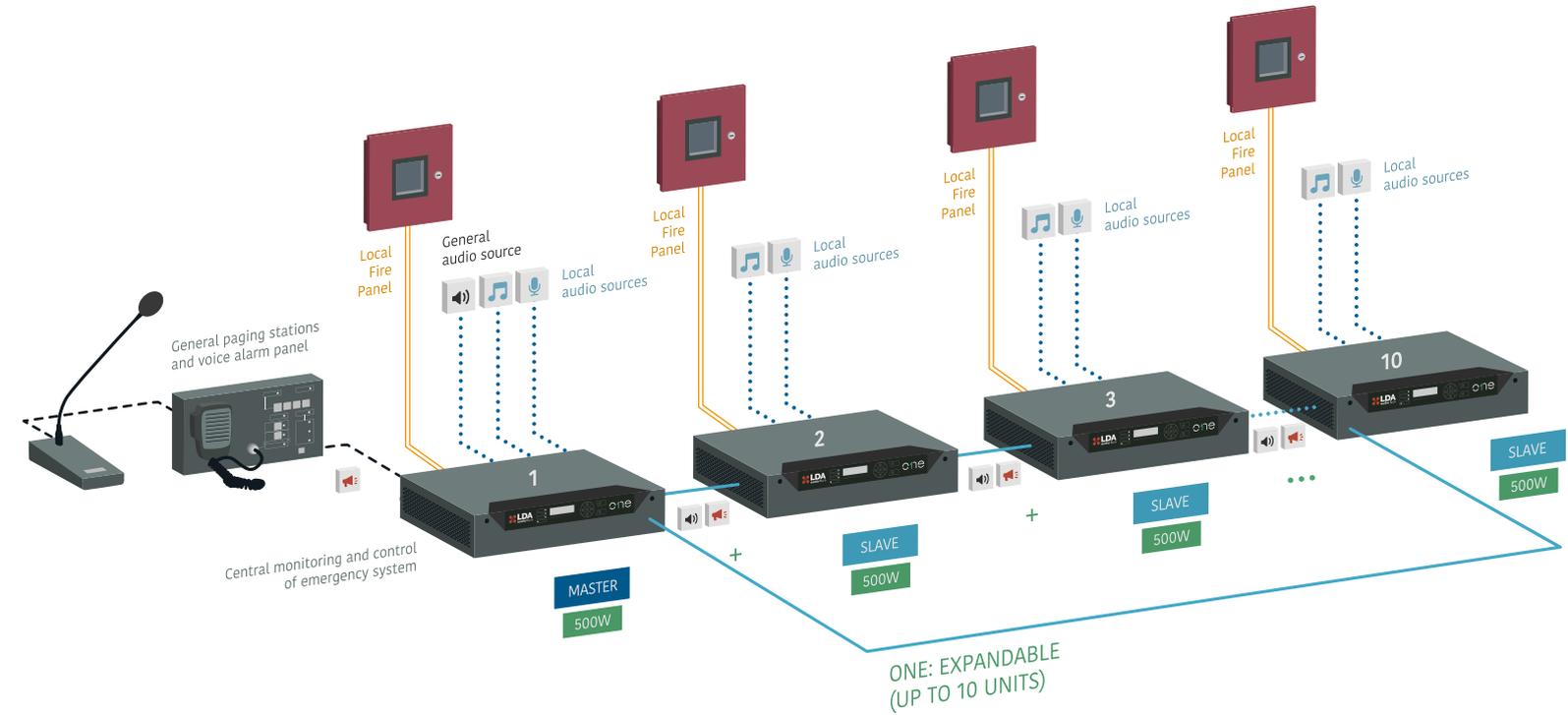
*500 W according to EN 60065, equivalent to 200 Wrms

ONE STAND ALONE UNIT

EN 54 -16
EN 54 -4

Fire Panel

3 free inputs for BGM sources or microphones

2 amplifiers (main and backup) TOTAL 500W @ 100V

Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
Zone 6

Rack or wall mounted

4 pre-amp outputs for external PA amplifiers

Multizone paging station and voice alarm panel

- - - - LDA ACSI® paging station bus (UTP cable)	—— Speakers line 100V	⋯⋯ Analogue audio	—— Fire alarm local zones and Fire alarm general / reset

Connection for up to 10 equipment with double communication link. Up to 60 zones and speaker lines.

ONE EXPANDABLE SYSTEM

EN 54 -16
EN 54 -4

Local Fire Panel

General audio source

Local audio sources

Local Fire Panel

Local audio sources

Local Fire Panel

Local audio sources

Local Fire Panel

Local audio sources

General paging stations and voice alarm panel

Central monitoring and control of emergency system

1
MASTER
500W

2
SLAVE
500W

3
SLAVE
500W

10
SLAVE
500W

ONE: EXPANDABLE
(UP TO 10 UNITS)

- - - - LDA ACSI® paging station bus (UTP cable)	—— Speakers line 100V	⋯⋯ Analogue audio	—— Fire alarm local zones and Fire alarm general / reset

Connection for up to 10 equipment with double communication link. Up to 60 zones and speaker lines. EVAC and ALERT local messages + Autonomous emergency power supply for each ONE unit.

◀) General audio source   ♫ Local audio source (background music)   🎤 Local audio source with priority   📢 General paging stations and voice alarm panel

ALL THE FLEXIBILITY OF A WIDE RANGE OF ACCESSORIES

The ONE system offers to any installation, however small, all the power and flexibility of a high-performance centralized public address, background music and voice evacuation system.

EN 54 certified

BATTERY CHARGER CARD
ONE-BC1

- EN 54 certified battery charger.
- For ONE-500.
- Format: license activation and update card.
- Once activated, the card becomes a key for the charger to work permanently.

BATTERY EQ-246113

- 12 V and 17 Ah lead-acid battery.
- For ONE-BC1 battery charger.
- Can be installed in any position except with the terminalas facing down.

RACK MOUNTING ONE-RMA

- Rack mounting kit in 3U 19" rack cabinet.
- Allows quick installation, assembly and disassembly of the ONE-500 unit.
- Includes accessories and installation hardware.

WALL MOUNTING ONE-WMA

- Wall mounting kit.
- Made of high strength galvanized steel.
- Quick installation, assembly and disassembly of the ONE-500 unit.
- Includes accessories and installation hardware.

RACK FIXED MOUNTING KIT
ONE-RMA2

- Mounting kit in 2U 19" rack cabinet.
- Solid fixing base for the ONE-500 unit.
- Colour: black RAL 9005.
- Includes accessories and installation hardware.

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.
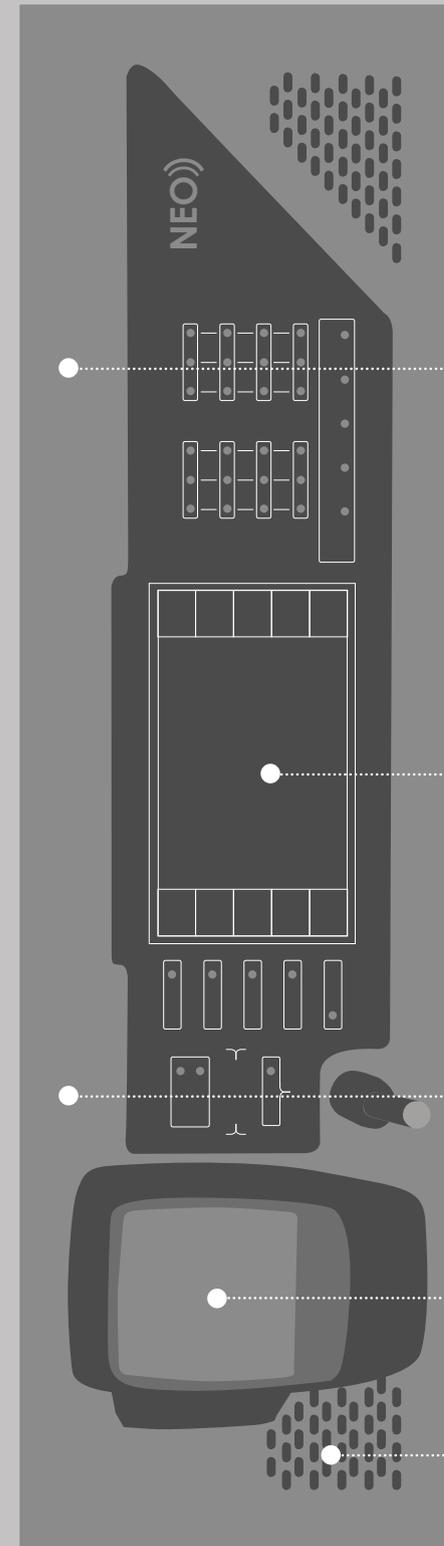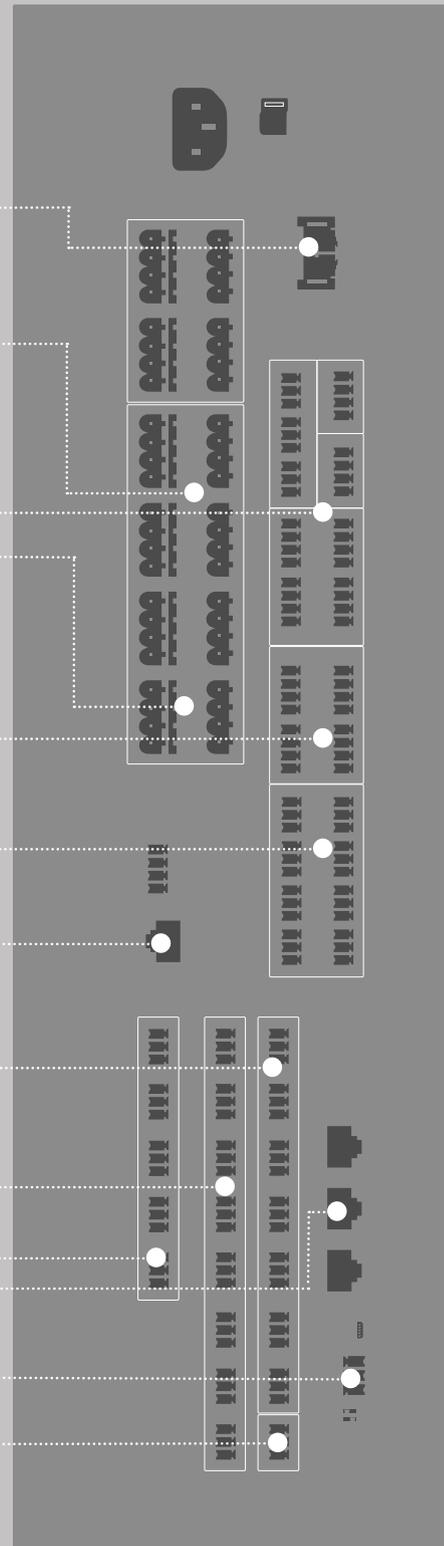
Rear view ▶

◀ Front view

NEO-8060
Master controller

Backup power input 24 V DC **1**

8 Class D amplifiers, each 120 W **2**

Contact closure interface
with fire detection panel **3**

Line supervision
and standby amplifier **4**

8 24 V outputs for attenuator control **5**

8 EOL device inputs **6**

Microphone bus and remote panel **7**

14 GPIO closures for integration **8**

8 pre-amplified audio outputs **9**

5 balanced analogue audio inputs **10**

Triple Ethernet interface **11**

RS-485 port for integrations **12**

RS-485 interface with
fire detection panel **13**

14 Dual player for pre-recorded messages
(13 hours / 99 messages / up to 10 minutes
per message)

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))

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,
up to 10' per message), 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.

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.
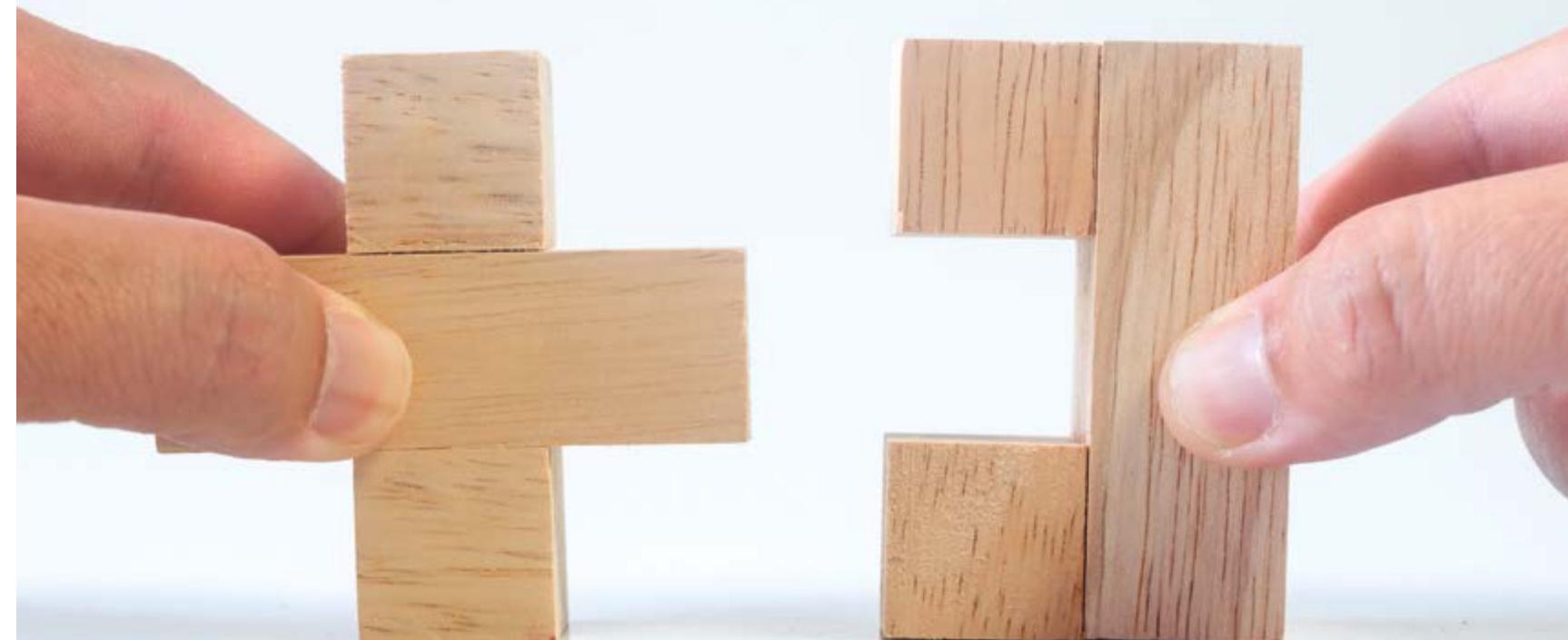
NEO))
E X T E N S I O N

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 0370-CPR-3260

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.

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.

DIGITAL MATRIX 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 supply.

EN 54 certified

BATTERY CHARGER EQ-241976

- EN 54-4 battery charger.
- Backup and auxiliar power supply.
- 2 x 480 W outputs, total maximum 960 W.
- Supports 1 NEO-8060 unit.

BATTERY CHARGER EQ-241977

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

ACSI BUS ADAPTER ZES-22ACSI

- Adaptation unit for digital matrix ZES-22.
- Directly coupled to the ZES-22 unit.
- Allows to connect up to 8 MPS-8Z microphones.
- Protection against short-circuit and wrong polarity.

BATTERY EQ-241978

- 45 Ah @ 12 V battery for use with EQ-241976 charger.
- Absolutely maintenance-free.
- Long service life, 10 years and more than 500 recharging/discharging cycles.
- Valve-regulated plastic container as overload protection.

BATTERY EQ-241994

- 120 Ah @ 12 V battery for use with EQ-241977 charger.
- Absolutely maintenance-free.
- Long service life, 10 years and more than 500 recharging/discharging cycles.
- Valve-regulated plastic container as overload protection.

WALL CONTROLLER VCC-64

- In-wall installation in local zone via bus RS-485.
- Up to 99 channels and 0-9 volumen.
- Terminal block 4 pin.
- DIP channel selector and 2x8 character display.

EN 54 certified

END OF LINE DEVICE TFL-1

- End of line device to test the integrity of 70/100 V speaker lines, requires return.
- Several devices can be connected to the same speakers line.
- Easy installation, surface mountable, small dimensions and low consumption.

POWER ADAPTER VCC-64PSK

- RJ-45 communication and power adapter for VCC-64 wall controller.
- Connection for up to 10 devices.
- Up to 200 m distance.
- Standard UTP cable.

SHARED ACCESSORIES TO GO FURTHER

At LDA Audio Tech we work tirelessly to design public address and voice evacuation solutions that are both safe and efficient. Therefore, our range is completed with these accessories that can be used equally in NEO and ONE systems to provide them with the best features.

MICROPHONE A-1

- Desktop microphone with lighting indicators.
- Microcontroller for different systems: on/off mode, PTT, RS-485, 2 wires TTL, advise tone and TTL control level.
- Local power supply and audio gain setting.

EN 54 certified
MULTIZONE MICROPHONE MPS-8Z

- 8 zone buttons, 1 for events and 1 for memory.
- Auto-lock and recall function.
- ACSI bus control (UTP).
- LED indicator and display.
- Local power supply source.

EN 54 certified
EXPANSION KEYBOARD MPS-8K

- Expansion unit for the paging microphone MPS-8Z.
- 8 programmable buttons via software for 8 different public address zones.
- Allows to connect up to 5 units altogether.
- Designed for an intensive use.

EN 54 certified
EXPANSION KEYBOARD VAP-8K

- Keyboard expansion for VAP-1 panel.
- 8 programmable buttons for paging up to additional zones.
- Each VAP-1 can equip up to 7 expansion keyboards.

EN 54 certified
VOICE ALARM PANEL VAP-1

- Voice alarm panel with event button.
- Direct access to all NEO system evacuation functions.
- Indicators for power supply, general emergency state, remote control and notifications.

EN 54 certified

END OF LINE DEVICE TFL-2

- End of line device to test the integrity of 70/100 V speaker lines with impedance measurements.
- Several devices can be connected to the same speakers line.
- Easy installation, surface mountable, small dimensions and low consumption.

WALL-MOUNTED CABINET
RACK-6ALT

- 19" and 6U wall-mounted rack cabinet for VAP-1 voice alarm panel.
- With glass front door and lock.
- Allows up to 5 VAP-8K extension units.
- Dimensions: 600 x 150 x 360 mm.

BLANK BLOCK VAP-1EC

- Blank block for voice alarm panel VAP-1.
- For use with VAP-1 in 4U and 6U racks.
- Below ONE-500 when installed on wall.

WALL-MOUNTED CABINET
RACK-4ALT

- 19" and 4U wall-mounted rack cabinet for VAP-1 voice alarm panel.
- With glass front door and lock.
- Allows up to 2 VAP-8K extension units.
- Dimensions: 600 x 150 x 288 mm.

ETHERNET CONTROLLER STE-21

- Ethernet controller Full Duplex RJ45 10/100.
- With 2 SUB-D9 RS-232 interfaces (5 wires).
- With power supply and USB cable.

EVERYTHING UNDER CONTROL FROM ANY LOCATION

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

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

SIME is a software platform based on web services to manage LDA Audio Tech public address 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

- 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 one NEO system (1 NEO-8060 and NEO Extension units).

NEO CONFIGURATOR SOFTWARE

- Configuration and parametrization of NEO system.
- Events creation (trigger, condition, action).
- Can work off-line.
- Exclusive for one NEO system (1 NEO-8060 and NEO Extension units).
- Free download on LDA Support website.

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:
    - VOIP SIP Module.
    - TTS Module.
    - Automatic Gain Control Module.
    - Failure notification by email Module.
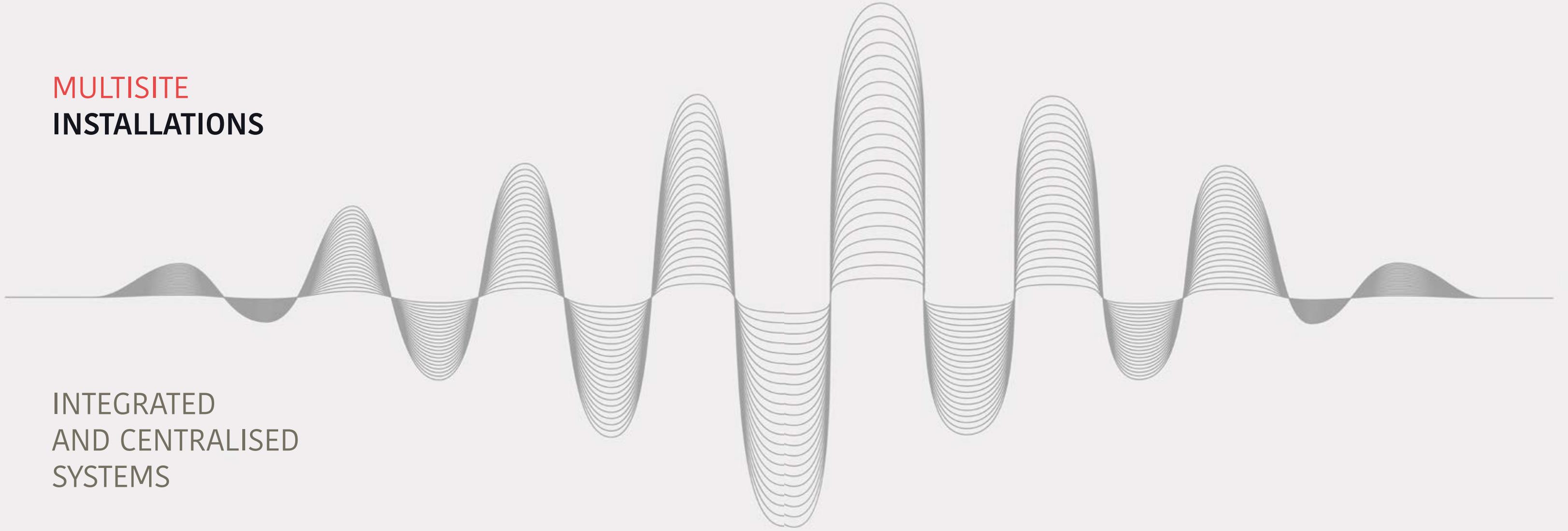
SIME CALENDAR

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

SIME EVAC

- Control and centralised supervision of the system via Ethernet networks.
- Messages and zones monitoriing while evacutation using color codes.
- Emergency operation center redundancy.
- Multiplatform access.
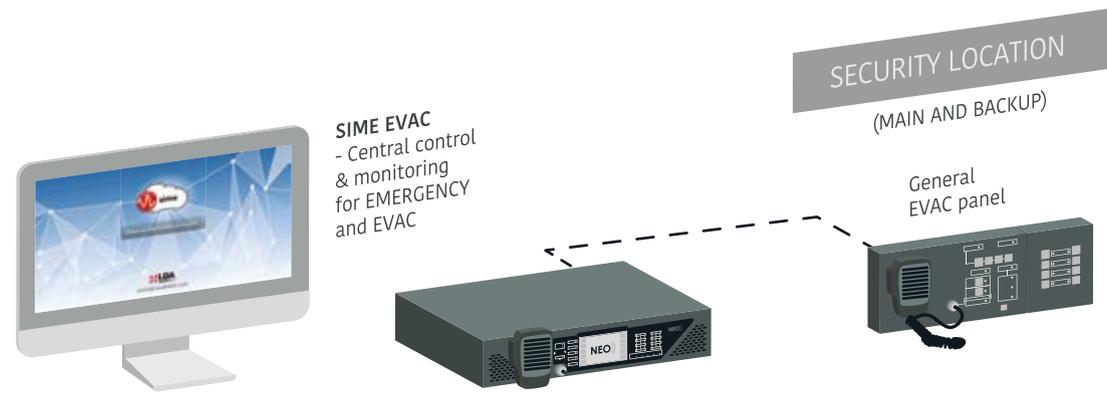
MULTISITE
INSTALLATIONS
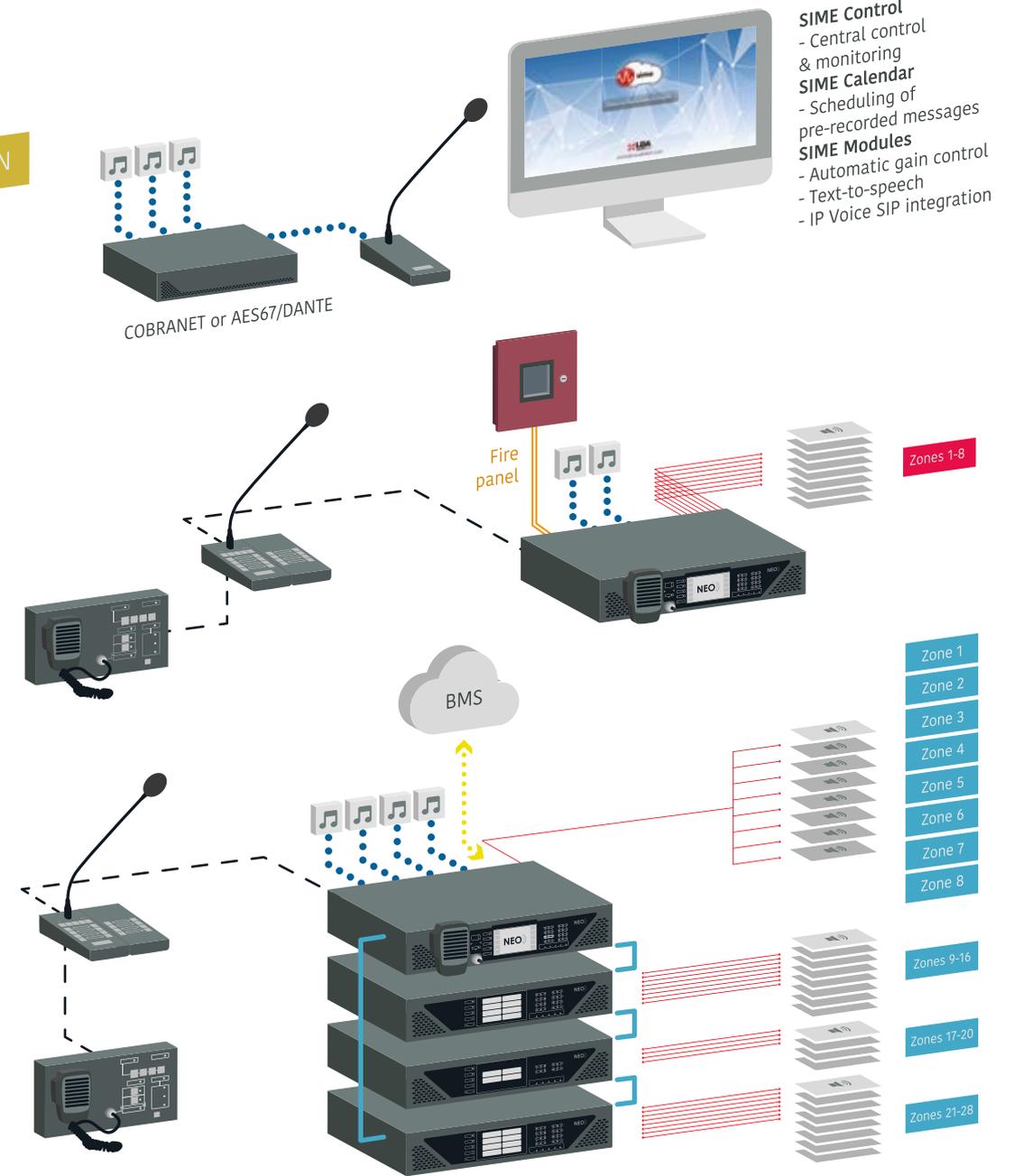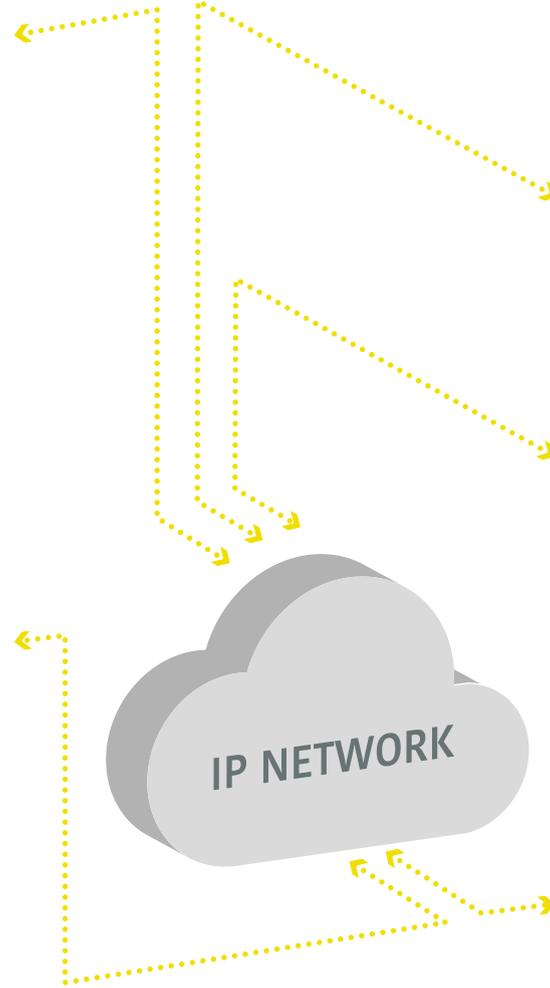
INTEGRATED
AND CENTRALISED
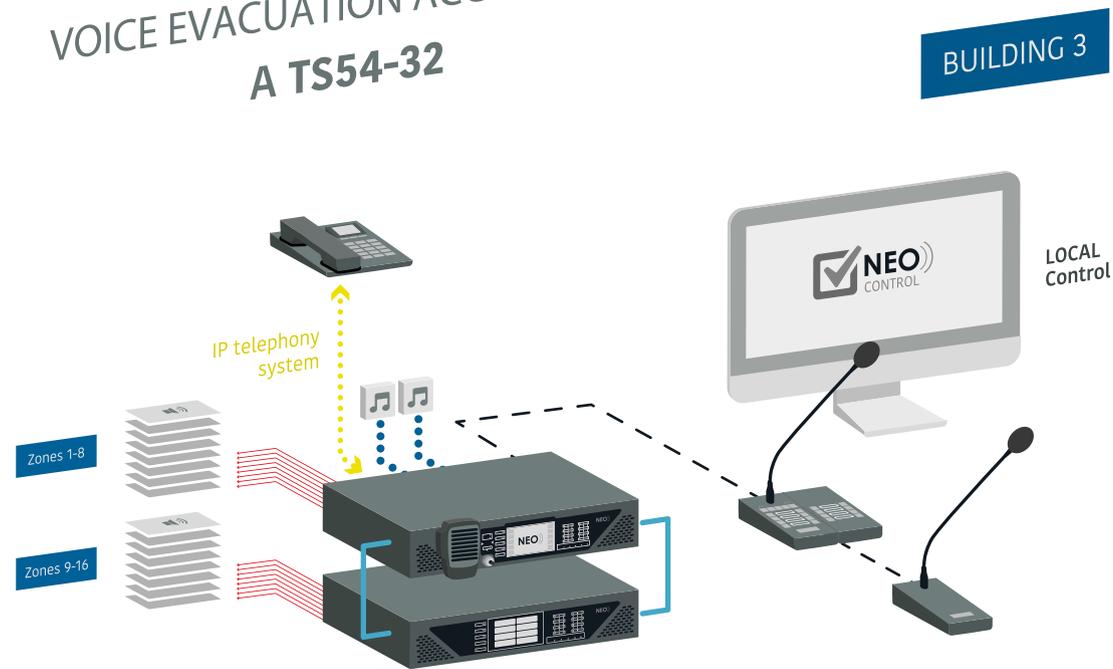## SYSTEMS

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.

PUBLIC ADDRESS SYSTEM AND VOICE EVACUATION ACCORDING A TS54-32

SIME EVAC
- Central control & monitoring for EMERGENCY and EVAC

SECURITY LOCATION

(MAIN AND BACKUP)

General EVAC panel

OPERATION LOCATION

(MAIN AND BACKUP)

SIME Control
- Central control & monitoring
SIME Calendar
- Scheduling of pre-recorded messages
SIME Modules
- Automatic gain control
- Text-to-speech
- IP Voice SIP integration

COBRANET or AES67/DANTE

BUILDING 1

Fire panel

Zones 1-8

IP NETWORK

BUILDING 3

BUILDING 2

BMS

LOCAL Control

NEO CONTROL

IP telephony system

Zones 1-8

Zones 9-16

Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
Zone 6
Zone 7
Zone 8

Zones 9-16

Zones 17-20

Zones 21-28

Integration with fire panel	Analogue audio inputs	Amplification output (A + B wiring)
General or by zone contact series 485 closures	*Audio balanced 2 pair shielded cable*	*2 x 1,5 mm² copper pair cable (according to power and distance)*

LDA FlexNet® protocol	LDA ACSI® bus	Ethernet
Standard UTP cabling	*Standard UTP cabling*	*Standard UTP cabling*

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.
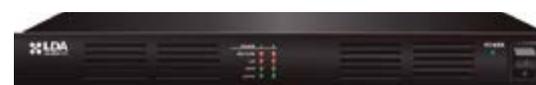

MIXER AMPLIFIER QX-060

• 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.

MIXER AMPLIFIER QX-240

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.

MULTICHANNEL AMPLIFIER BA-2250

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

MULTICHANNEL AMPLIFIER BA-2500

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

PLAYER RCD-21

• 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.

CABINET RACK-22ALT / RACK-22ALT / RACK-12ALT

- Multipurpose rack cabinets.
- Four 19" moveable profiles and acccessible side panels.
- Glass front door with lock and vent slots.
- Levelling feet or wheels.
- Dimensions: 600 x 800 x 1983 mm (42U), 600 x 800 x 1050 mm (22U) and 600 x 450 x 635 mm (12U).

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 certified

CH-32TN

- 3" ceiling speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.375 W @70 V.
- Can be used with fire dome CH-32TNFD.
- With ceramic terminal and isolation fuse.

EN 54 certified

CH-32TNFD

- Fire dome for CH-32TN speaker.
- Red color.

EN 54 certified

CH-42TN

- 6" ceiling speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.375 W @70 V.
- Can be used with fire dome CH-42TNFD.
- With ceramic terminal and isolation fuse.

EN 54 certified

CH-42TNFD

- Fire dome for CH-42TN speaker.
- Red color.

EN 54 certified

DS-60TN

- 5" surface speaker.
- Lines: 6/3/1.5/0.75 W @100 V and 3/1.5/0.75/0.375 W @70 V.
- Robust metal case for fire and vandalism protection.
- With ceramic terminal and isolation fuse.

EN 54 certified

Suitable for outdoor use

PCP-20TN

- 5" unidirectional projector.
- Lines: 20/10/5/2.5 W @100 V and 10/5/2.5/1.25 W @70 V.
- ABS V0 case, fire protected.
- High sound pressure, low distortion and wide range for frequency response.
- With ceramic terminal and isolation fuse.

EN 54 certified

PCM-20TN

- 5" unidirectional projector.
- Lines: 20/10/5/2.5 W @100 V and 10/5/2.5/1.25 W @70 V.
- 3 mm aluminum case and steel grid.
- High sound pressure, low distortion and wide range for frequency response.
- With ceramic terminal and isolation fuse.

Suitable for outdoor use

SC-95TN

- 24 W ceiling coaxial 2 ways speaker.
- Lines: 24/12/6/3 W @100 V / 4 Ω.
- Easy blending with any indoor decorations.
- Robust metal case with fire dome.
- Simple power setting and wiring.

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

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

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

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

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: -40o to 110oC.

CS-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.

CH-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.

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.

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.

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

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.
- Available in white or black color.
- Support for easy mounting on ceilings.

MS-55T

- Full-range garden speaker.
- Waterproof base, for outdoor use.
- With low loss transformer for 70/100 V lines.

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.

EQ-242048

• Steerable array model DC 12/2.
• High performance beam steering control.
• Self-powered with 12 full-range, two-inch drivers (24 W each).
• Controllable via smartphone or tablet.
• Maximum sensitivity. SPL: 117 dB peak.

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.