NEO))

EN 54 -16

PUBLIC ADDRESS, BACKGROUND MUSIC AND VOICE ALARM SYSTEM

LDA audioTech

NEO))

VIRTUE IS
IN THE MIDDLE WAY

NEO is an EN 54-16 certified public address, background music and voice alarm system, compact and all-in-one, that allows a quick installation using only one unit.

Designed for medium and large venues, NEO offers advanced functions while reducing time and costs. Its plug-and-play philosophy facilitates all installation, maintenance and operating procedures.

MADE IN
SPAIN

EN 54 -16

Certificate No. 0370-CPR-3260

NEO-8060

MAIN UNIT 8 x 120 W

Scalable and customizable system, EN 54 certified

Central control for up to 1024 public address and emergency zones

Maximum security and intelligibility in any situation

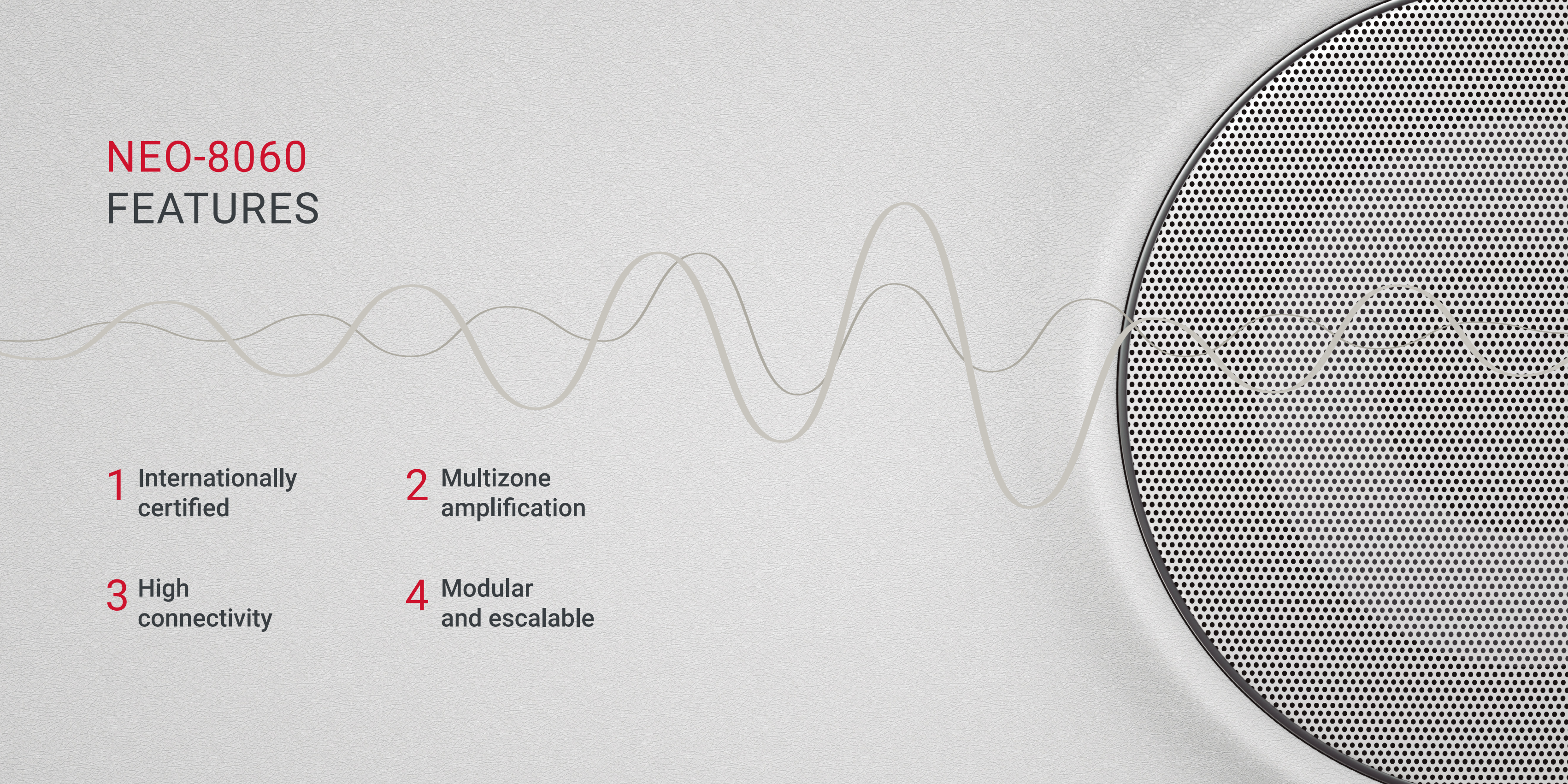Easy and intuitive use both in local and remote mode

NEO-8060
FEATURES

1 Internationally certified

2 Multizone amplification

3 High connectivity
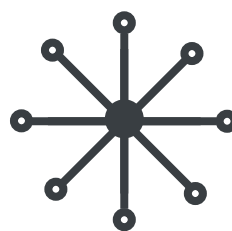
4 Modular and escalable

COMPLYING WITH INTERNATIONAL STANDARDS

The NEO system guarantees a safe and controlled evacuation since it is designed to comply with the strictest international regulations. The main unit and its extensions adjust to the EN 54-16 standard (certificates 0370-CPR-3260 and 0370-CPR-3261) and the EN 60849 standard. They are complemented with EN 54-24 certified speakers and EN 54-4 certified power supply equipment.
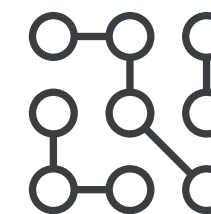
8 AMPLIFICATION ZONES WITH ONE NEO UNIT

The NEO system includes 8 class D amplifiers for 8 independent audio zones, working from 8 local and 32 remote sources. The user can configure up to 8 120 W channels with line supervision, and use one of them as a back-up. NEO has a built-in dual player with 4 GB storage to record up to 99 messages and/or 13 hours of audio.

EXPANDABLE AND SCALABLE TO REACH EVERYWHERE

NEO works with other equipments using standard Ethernet networks and universal protocols such as Flexnet and RS-485. This high connectivity makes it work fine without special cabling in any installation through the data network.

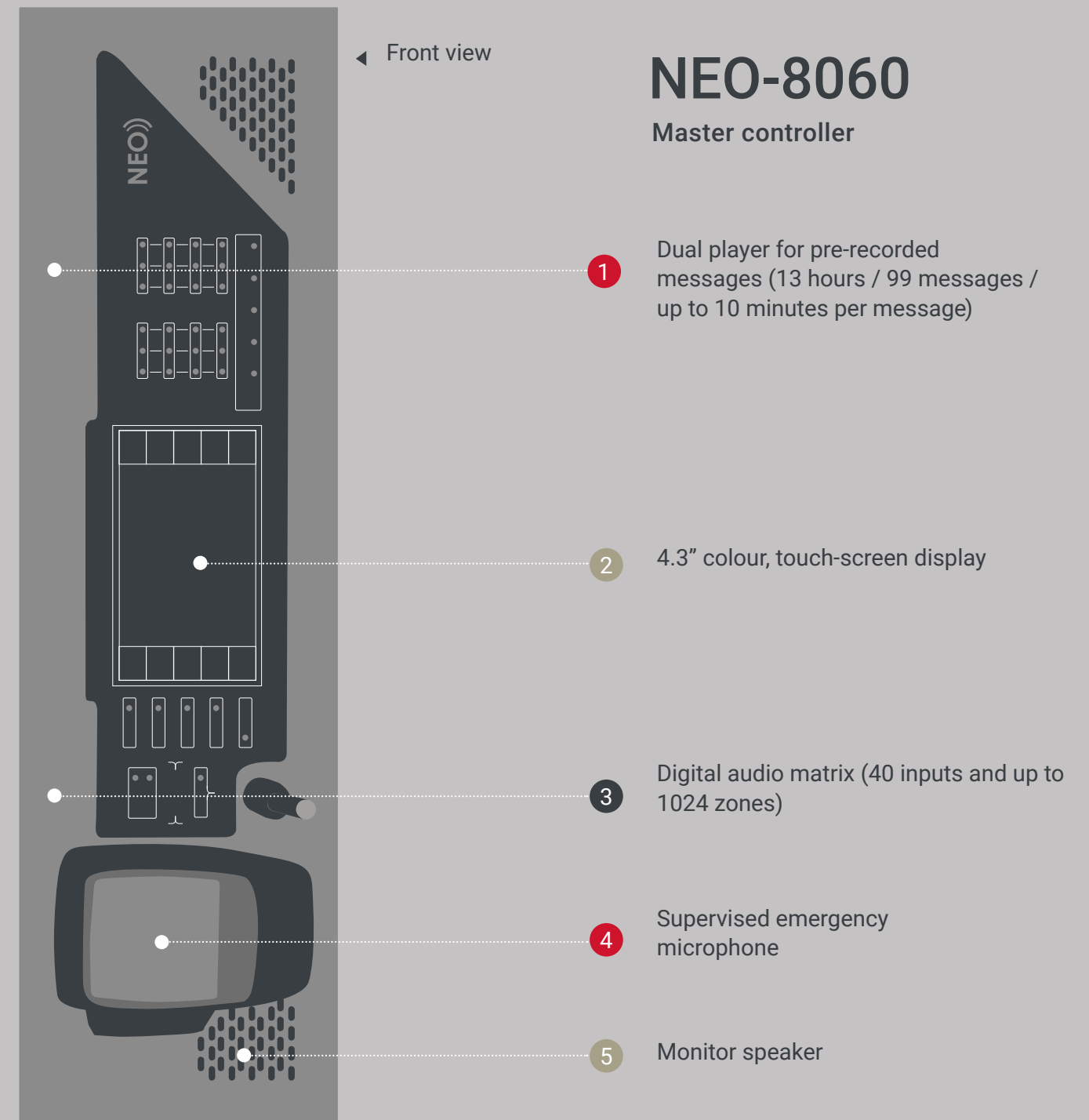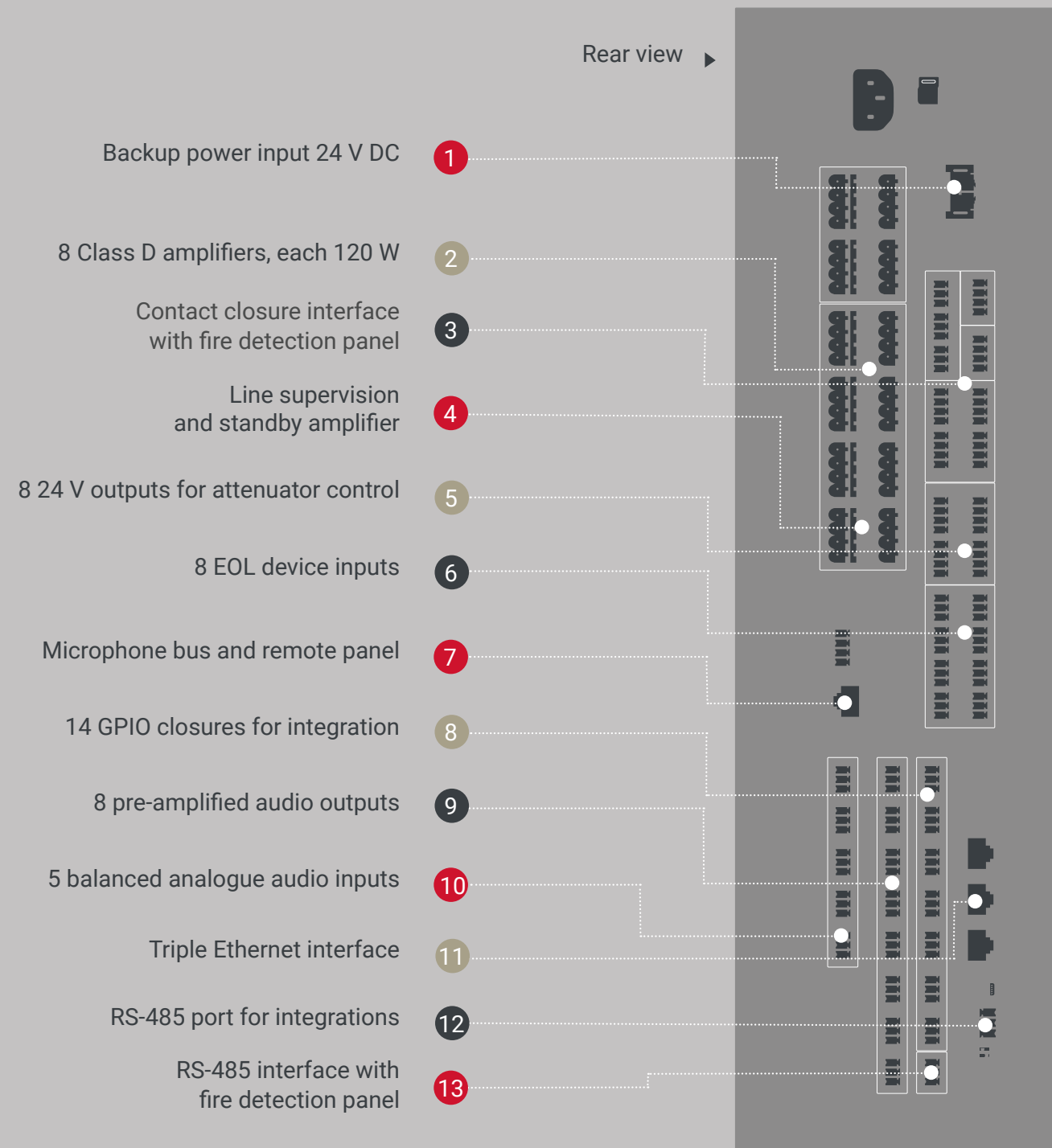## THE MOST ADVANCED INTEGRATION

The NEO 40x1024 audio matrix can send audio out to any zone simultaneously. This allows to have different audio for every area, with digital quality provided by the DSP system for filters and parametric equalisation of 7 bands. Thanks to its modular configuration, NEO can reach up to 1024 zones in a system with 128 stations.

Discover NEO at **lda-audiotech.com/en/neo**

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**

NEO-8060

Master controller

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

2 4.3" colour, touch-screen display

3 Digital audio matrix (40 inputs and up to
1024 zones)

4 Supervised emergency
microphone

5 Monitor speaker

NEO
EXTENSION

EN 54 -16

Certificate No. 0370-CPR-3260

GO FURTHER WITH NEO EXTENSION

NEO can expand up to 1024 alarm zones with ease and scalability thanks to the NEO Extension units.

Through UTP wiring, Flexnet and audio over Ethernet, the NEO main unit sends the signal out to all system zones and can control them centrally.

NEO automatically recognises the connected NEO Extension units and expands the zones according to the desired configuration in each installation.

EN 54-16 certified

NEO EXTENSION 4250E

4 x 250 W / 2 x 500 W

EN 54-16 certified

NEO EXTENSION 8250E

8 x 250 W

EN 54-16 certified

NEO EXTENSION 4500E

4 x 500 W / 2 x 1000 W

EN 54-16 certified

NEO EXTENSION 4500LE

4 x 500 W @4 Ω

NEO CONTROL: SAFE REMOTE SUPERVISION

The whole NEO system, main unit and extensions included, can be easily managed thanks to the NEO Control auto-install software.

Without the need to configure databases, NEO Control can add the installation drawing plans and manage the system from top to bottom: volume control, audio routing, failure supervision, evacuation mode, etc.

NEO CONFIGURATOR: MAKE THE MOST OF NEO SYSTEM

With an easy and intuitive interface, NEO Configurator allows to configurate each and every NEO parameter.

Using this Windows software, any project can be managed as required down to the smallest detail, adding and assigning devices, linking systems, setting audio zones messages, launching events, etc.
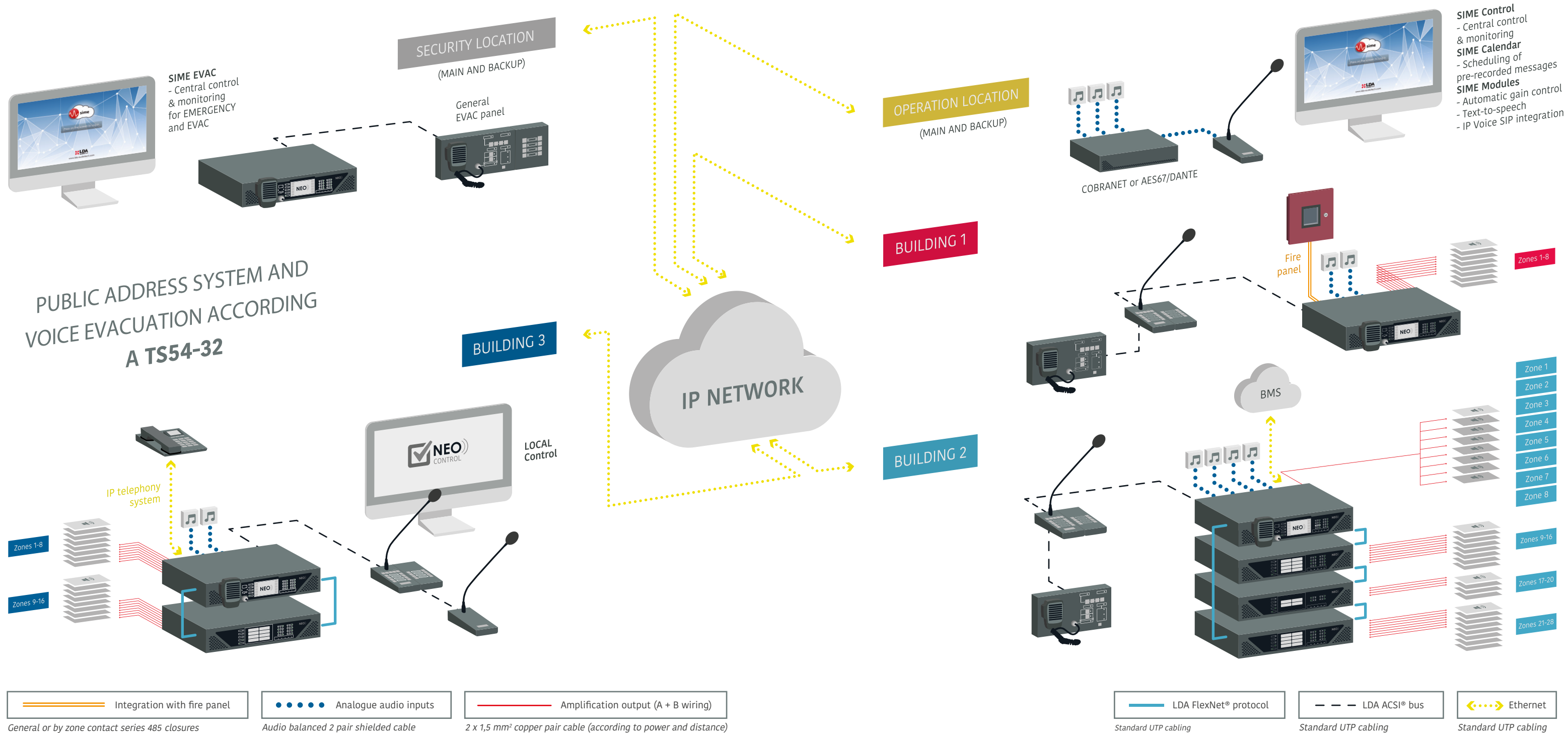
CENTRALISED AND INTUITIVE CONTROL WITH SIME

NEO system can be remotely controlled through a TCP/IP connection and using the LDA SIME Control software.

This application allows to monitor at a glance all the public address and voice alarm installation, including real-time failure detection.

This software is based on web services and works on the cloud through a touch-screen interface. SIME Control can be completely customised and expanded with the event programmer module **SIME Calendar, the VOIP SIP module and the TTS module.**

SIME EVAC
- Central control
& monitoring
for EMERGENCY
and EVAC

SECURITY LOCATION
(MAIN AND BACKUP)

General
EVAC panel

NEO

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

PUBLIC ADDRESS SYSTEM AND
VOICE EVACUATION ACCORDING
A TS54-32

BUILDING 3

IP NETWORK

BMS

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

NEO
CONTROL

LOCAL
Control

BUILDING 2

IP telephony
system

Zones 1-8

Zones 9-16

NEO

NEO

Zones 9-16

Zones 17-20

Zones 21-28

────	Integration with fire panel	∙∙∙∙∙	Analogue audio inputs	────	Amplification output (A + B wiring)	────	LDA FlexNet® protocol	– – –	LDA ACSI® bus	⟨∙∙∙⟩	Ethernet

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)

Standard UTP cabling

Standard UTP cabling

Standard UTP cabling

A CUSTOM-MADE SYSTEM WITH RELIABLE ACCESSORIES

EN 54 certified

AES67 AND ACSI NET CONVERTER NEXO

AES67 network audio converter and ACSI v2 bus controller for connecting up to 32 MPS-8Z. MPS-8Z+ or VAP-1 devices.

EN 54 certified

EN 54 NETWORK DEVICES

Switch and media converter for configuring IP communication networks between EN 54 devices according to certified standards.

EN 54 certified

DANTE-AES67 CONVERTER DANTE-16

Dante-AES67 digital audio converter, includes LDA eCore device to convert up to 16 channels of digital audio.

EN 54 certified

INTEGRATION INTERFACE DIRECT LINK

Device for integrating fire detection systems and NEO+ and NEO systems. Allows native communication of alarms and emergency management.

EN 54 certified

MICROPHONE
MPS-8Z+

Paging station with ACSI v2 protocol to connect up to 32 devices in one bus.

EN 54 certified

EXPANSION
KEYBOARD MPS-8K+

EN 54 certified expansion unit for MPS-8Z paging station with 8 programmable buttons in ACSI v2 protocol.

EN 54 certified

MICROPHONE
MPS-8Z

Paging station with 8 zone buttons, 1 for events and 1 for memory.

EN 54 certified

EXPANSION
KEYBOARD MPS-8K

EN 54 certified expansion unit for MPS-8Z paging station with 8 programmable buttons.

MICROPHONE A-1

One zone desktop microphone with lighting indicators and microcontroller.

DIGITAL MATRIX ZES-22

Digital audio processor. Analogic-digital audio converter with 4 balanced inputs/outputs.

BLANK BLOCK
VAP-1EC

Blank block for VAP-1 alarm panels. Can be used in 4U and 6U racks.

EN 54 certified

VOICE ALARM PANEL
VAP-1

EN 54 certified emergency panel with event button and access to evacuation functions.

EN 54 certified

EXPANSION KEYBOARD
VAP-8K

EN 54 expansion unit for VAP-1 with 8 programmable zone buttons.

EN 54 certified
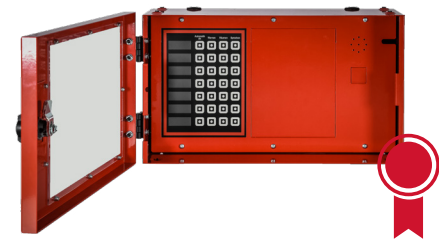
FIRE BRIGADE CONTROL PANEL VAP1-FES

EN 54 voice alarm panel with advanced functionalities and status monitoring by zones. General control unit with emergency microphone. Includes red wall cabinet model EQ-242057.

EN 54 certified
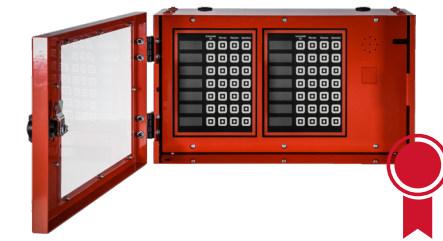
FIRE CONTROL PANEL AND KEYBOARD VAP1-FES 7Z

EN 54 voice alarm panel with advanced functionalities and status monitoring by zones. General control unit with emergency microphone and 7-zone expansion keyboard. Includes red wall cabinet model EQ-242057.
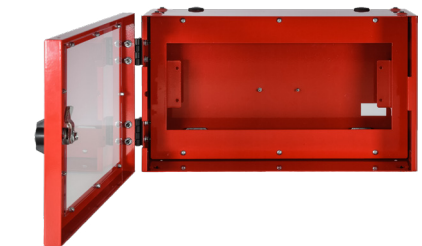

WALL-MOUNTED CABINET RACK-4ALT

19" and 4U wall-mounted rack cabinet with glass front door and lock for VAP-1 voice alarm panel and VAP-8K expansion keyboard.

WALL-MOUNTED CABINET RACK-6ALT

19" and 6U wall-mounted rack cabinet with glass front door and lock for VAP-1 voice alarm panel and VAP-8K expansion keyboard.

EN 54 certified

7 ZONES EXPANSION VAP1-FES ERW 7Z

Panel with 7-zone expansion keyboard for use with VAP1-FES and VAP1-FES 7Z. With advanced functionalities and status monitoring by zones. Includes red wall cabinet model EQ-242057.

EN 54 certified

14 ZONES EXPANSION VAP1-FES ERW 14Z

Panel with 14-zone expansion keyboard for use with VAP1-FES and VAP1-FES 7Z. With advanced functionalities and status monitoring by zones. Includes red wall cabinet model EQ-242057.

RED WALL-MOUNTED CABINET EQ-242057

Housing set to accommodate a VAP-1 microphone unit and a VAP 8K keypad extension. Finished in RAL 3000 (fire red).

EN 54 certified

END OF LINE DEVICE TFL-2

EN 54 certified EOL device to test the integrity of 70/100 V speaker lines with impedance measurements.

EN 54 certified

BATTERY CHARGER
EQ-241976

EN 54-4 charger with 2 outputs (480 W each) and 960 W maximum power.

EN 54 certified

BATTERY CHARGER
EQ-241977

EN 54-4 charger with 6 outputs (960 W each) and 3600 W maximum power.

BATTERY EQ-241978

45 Ah and 12 V battery for EQ-241976 charger.

BATTERY EQ-241994

120 Ah and 12 V battery for EQ-241977 charger.

IMPEDANCE ATTENUATORS AT SERIES

Attenuators for high impedance lines, with models covering power ratings from 6 W @70 V to 50 W @100 V. Includes surface mounting box model MC-20EC.

MULTISOURCE PLAYER RCD-21R

All-in-one player for multiple audio sources. Includes CD/DVD, CDR, CDRW, MP3, WMA and FM/AM, Hi-Speed USB and SD cards.

WALL CONTROLLER VCC-64

Controller for channels (up to 99 programmable) and volume (0-9 levels) with RS-485 bus connection.

POWER ADAPTER VCC-64PSK

RJ-45 communication and power supply adapter to connect up to 10 VCC-64 wall controllers.

LEADING TECHNOLOGY MADE IN SPAIN

For more than 40 years, LDA Audio Tech has been designing and manufacturing the most advanced sound equipments for public address, background music and voice alarm systems from its headquarters in Málaga (Spain).

We work with installers, integrators and distributors in 50 countries to provide them with the customised solutions that they need in AV systems for security and fire protection.

Our specialised engineering and technical team works constantly to stay up-to-date with the latest technology. That is why we are active participants in the international committees that establish the regulations about voice evacuation, at the same time as we are offering training to all our partners worldwide.

LDA Audio Tech guarantees a solid structure and a committed team for any large-scale project anywhere in the world.

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