



Experts in
PA/VA Systems





CONTENT

1. WHO WE ARE

2. REFERENCES

3. NEO: Virtue is in the middle way

4. ONE: Who said small?

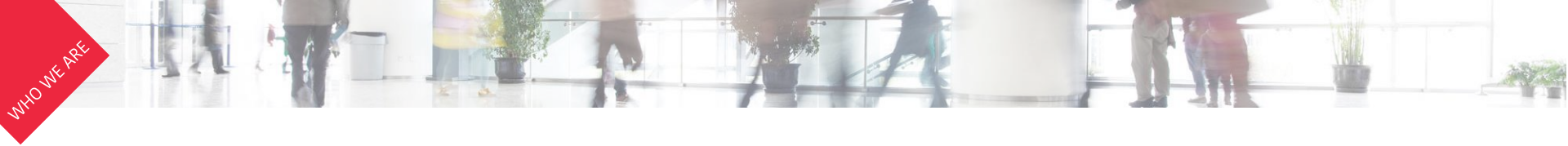


WHO WE ARE



1. WHO WE ARE





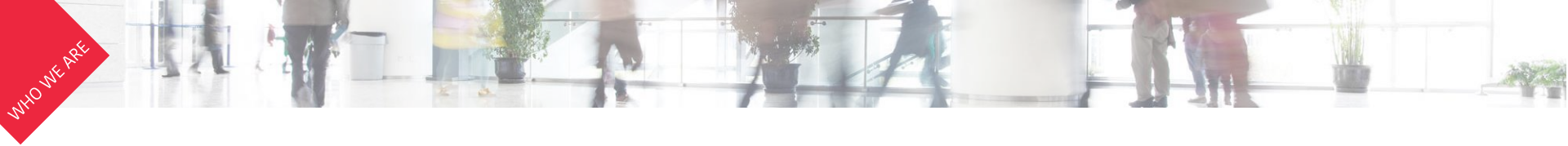
ABOUT US

Spanish manufacturer of **PA/VA systems**

40 years of experience



- **High Quality**
- **Price Competitive**
- **Service**



OUR FIGURES

- **> 130 released products**
- **> 1300 finished projects**
- **In 42 countries**





WHO WE ARE



OUR LINES OF PRODUCT

EN 54 -16

NEO

c1ne





WHO WE ARE



OUR LINES OF PRODUCT

EN 54-16

NEO

- **Large & Medium Projects**
- **Advanced Functions**

one

- **Small Projects**
- **Entry Level**

MADE IN SPAIN



WHO WE ARE

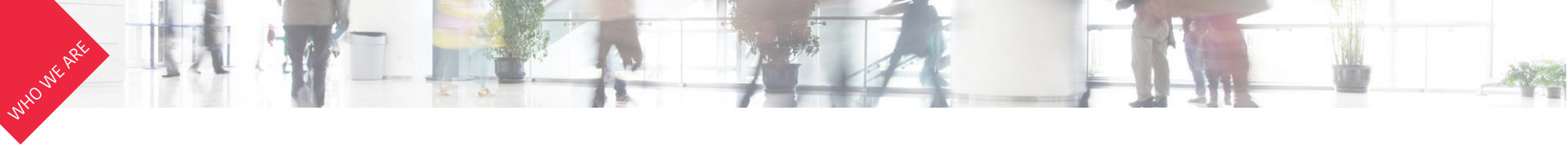


OUR LINES OF PRODUCT

EN 54 -16

ACCESSORIES





WHO WE ARE



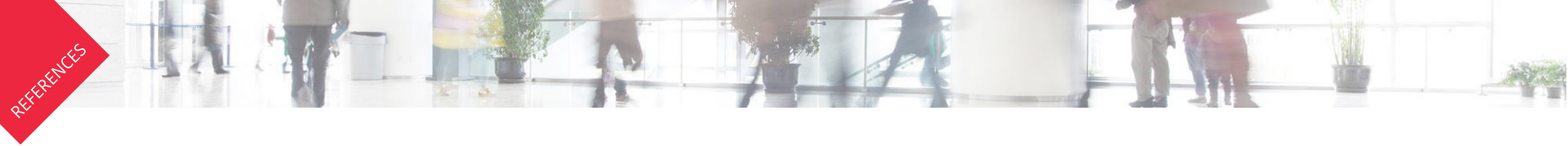
OUR LINES OF PRODUCT

SPEAKERS



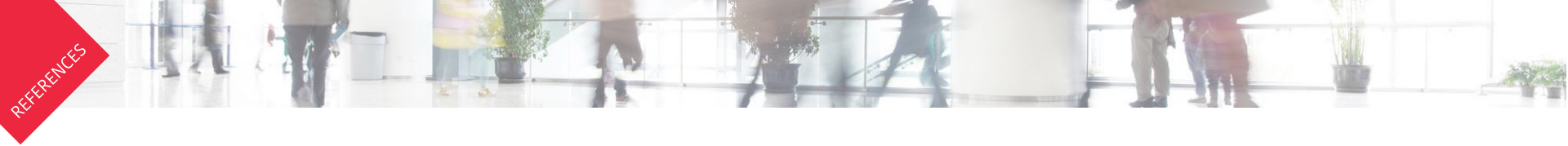


2. REFERENCES



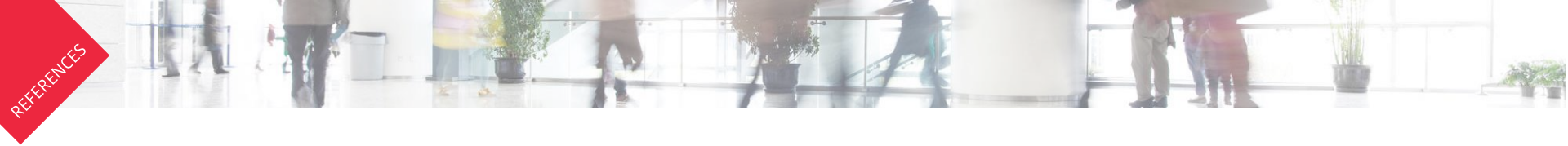
Over 80 shopping centres of “El Corte Inglés” in Spain and Portugal





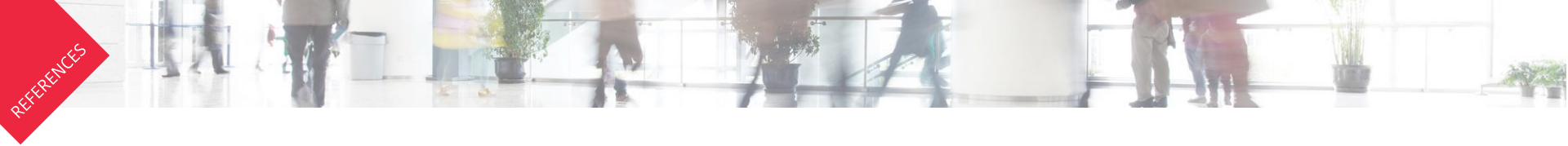
IKEA Centres





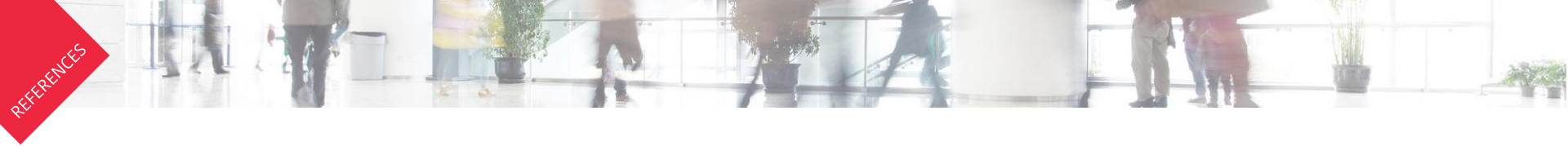
Real Plaza (Peru)





Zara, Armani, Calvin Klein, Massimo Dutti...

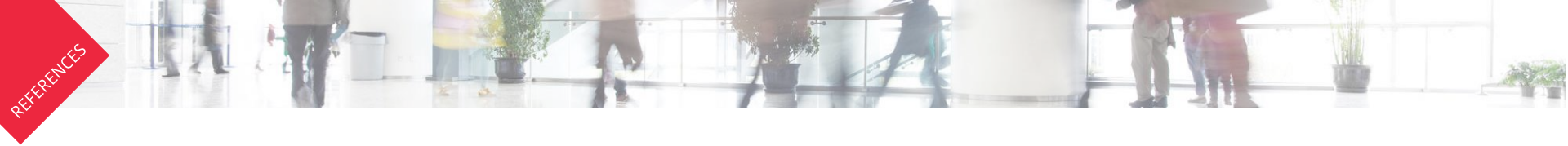




CORPORATE BUILDINGS

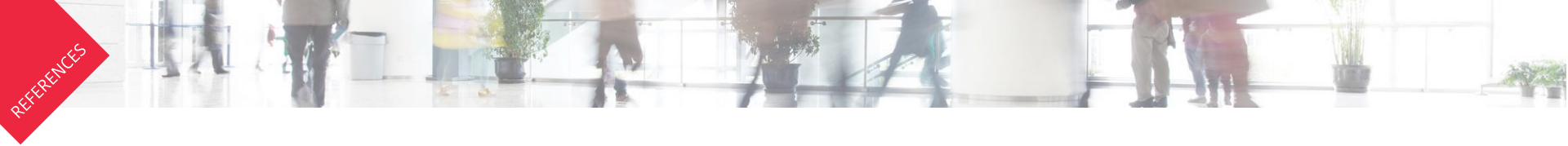
Financial City of Santander Banking Group (Spain)





Qatar Foundation Headquarters





UNIVERSITIES

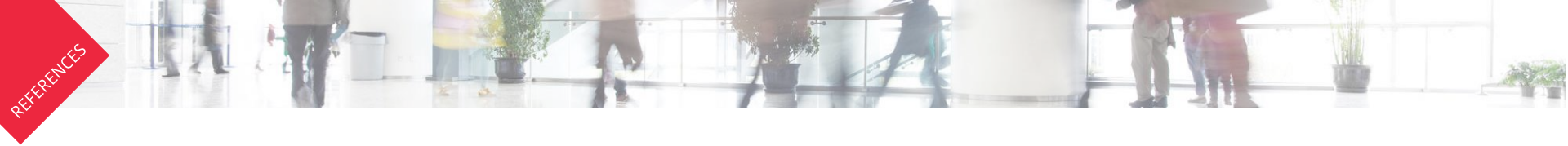
Rey Juan Carlos University (Spain)





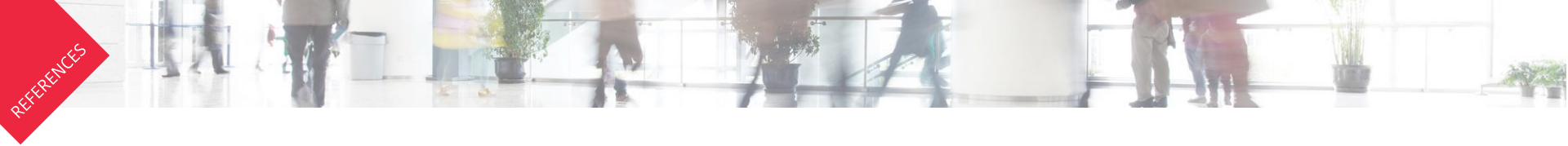
Hospital of Ceuta





Madrid “Magic-Box” Sports Center

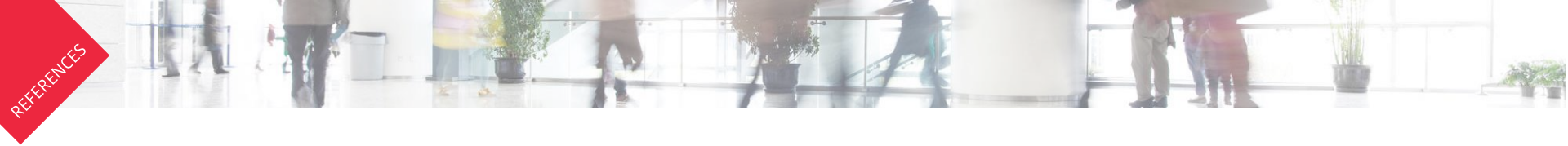




LDA | EXHIBITION CENTRES
audioTech

IFEMA (Madrid)

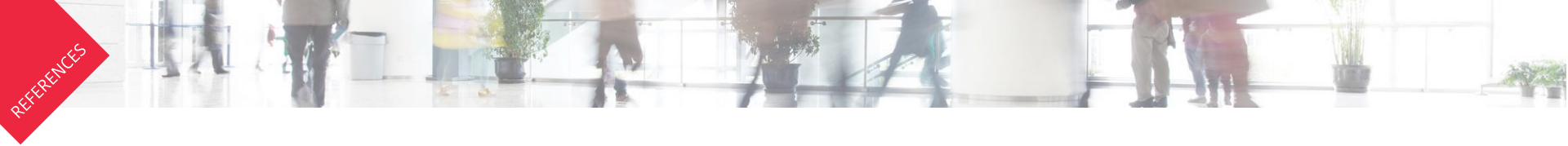




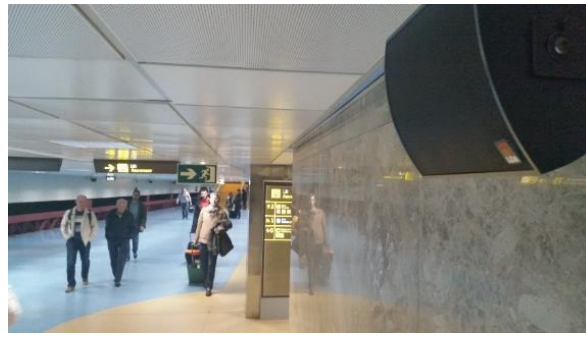
RAILWAY NETWORKS

Metro of Malaga, Seville, Valencia...





Madrid Barajas International Airport







EXPOSSIBLE!





3. NEO: Virtue is in the middle way

NEO



NEO SYSTEM

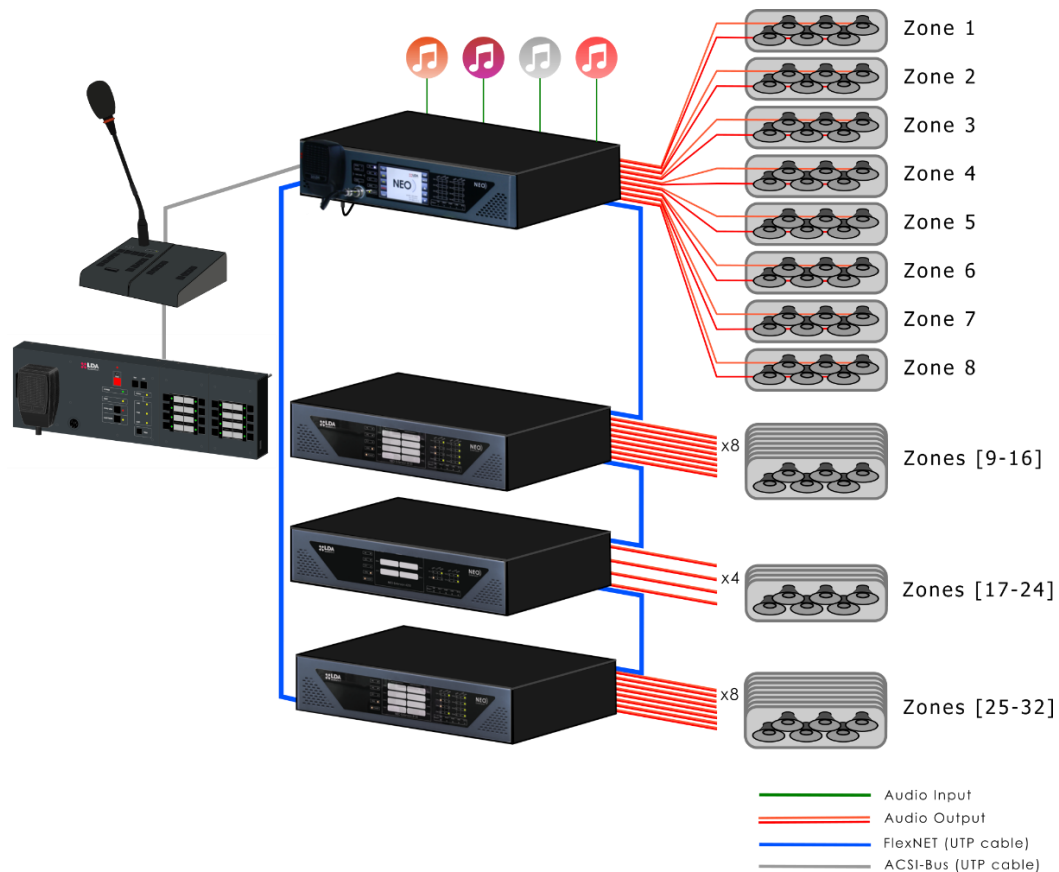
EN 54 -16

NEO



- Medium + Large Projects
- High-end Features
- All-in-a-box Solution

NEO



NEO 8060: Master Unit

8 x 120 W



- 8 integrated amplifiers
- 8 local sources + 32 remote sources
- FULL MATRIX: 40 x 1024



NEO Extensions

NEO 4250E: 4 x 250W
2 x 500W



NEO 4500E: 4 x 500W
2 x 1000W



NEO 8250E: 8 x 250W



NEO 4500LE: 4 x 500W
@ 4 ohm





MPS-8Z: Multi-Zone Paging Microphone



MPS-8Z

Up to 7 x MPS-8K
(Keyboard extensions)



64 buttons

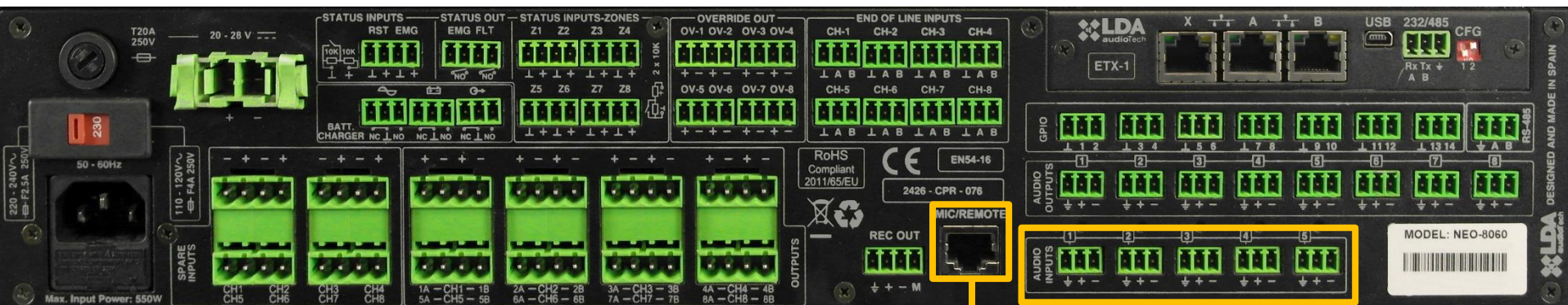


VAP-1: Voice Alarm Panel



VAP-1: Fireman's Panel + VAP-8K: Extensions

8 local sources



4 or 5 balanced
audio analogue
inputs

ACSI bus input:

- VAP-1
- MPS-8Z



- ▶ Audio
- ▶ Control
- ▶ Power



8 x MPS-8Z or VAP-1

Up to 1000 m



NEO



FRONT SIDE



**Frontal PTT
microphone**



**2 simultaneous
message players**

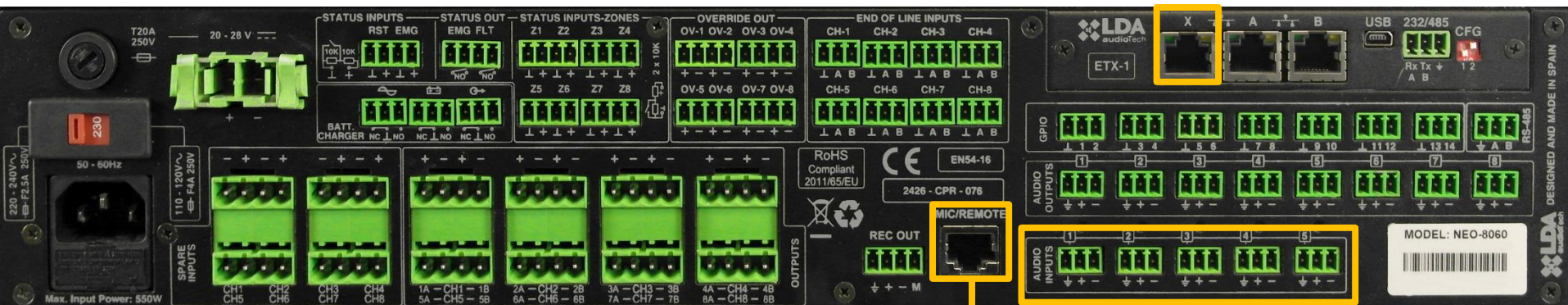
99 messages
12 hours

8 local sources

- **4 x Balanced audio** analogue inputs with **DSP**
- **1 x Microphone ACSI BUS input** (up to 8 microphones)
- **2 x Message Player** (up to 99 messages, 12 hours)
- **1 x Frontal PTT Microphone**

+ 32 remote sources (Cobranet)

**32 remote sources
(Cobranet)**



**4 or 5 balanced
audio analogue
inputs**

ACSI bus input:

- VAP-1
- MPS-8Z



ZES-22: Analog-Cobranet Converter



8 local sources

- **4 x Balanced audio** analogue inputs with **DSP**
- **1 x Microphone ACSI BUS input** (up to 8 microphones)
- **2 x Message Player** (up to 99 messages, 12 hours)
- **1 x Frontal PTT Microphone**

+ 32 remote sources (Cobranet)



OUTPUTS

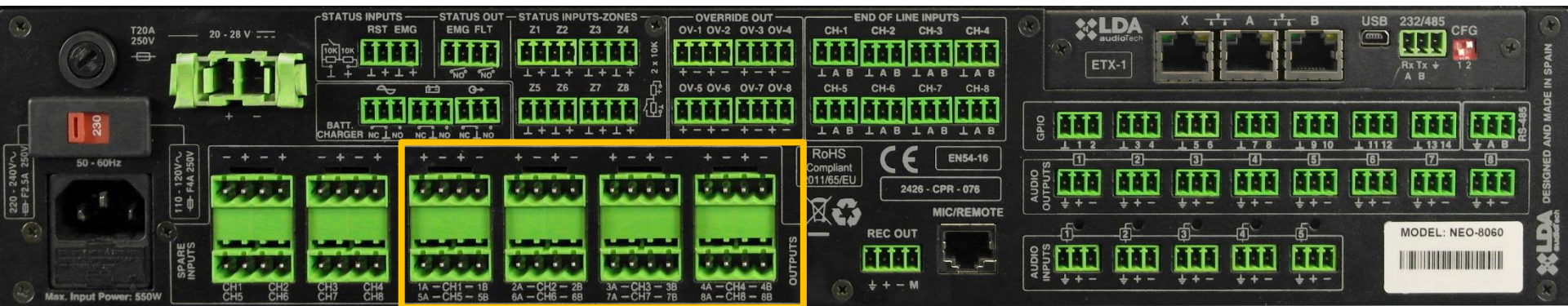
8 – 1024 channels

- 120 W – 1000 W amplifiers
- Flexible power

NEO



REAR SIDE



Amplifier outputs



FLEXIBLE POWER: NEO 4250E

OUT	POWER
#1	250 W
#2	250 W
#3	250 W
#4	250 W

OUT	POWER
#1	500 W
#2	500 W
#3	0 W
#4	0 W

OUT	POWER
#1	500 W
#2	0 W
#3	500 W
#4	0 W

OUT	POWER
#1	0 W
#2	0 W
#3	500 W
#4	500 W

OUT	POWER
#1	200 W
#2	300 W
#3	100 W
#4	400 W

FLEXIBLE POWER: Summary

NEO 4250E

OUT	POWER	MAX
#1	500 W	1000 W
#2	500 W	
#3	500 W	
#4	500 W	

NEO 4500E

OUT	POWER	MAX
#1	1000 W	2000 W
#2	1000 W	
#3	1000 W	
#4	1000 W	



OUTPUTS

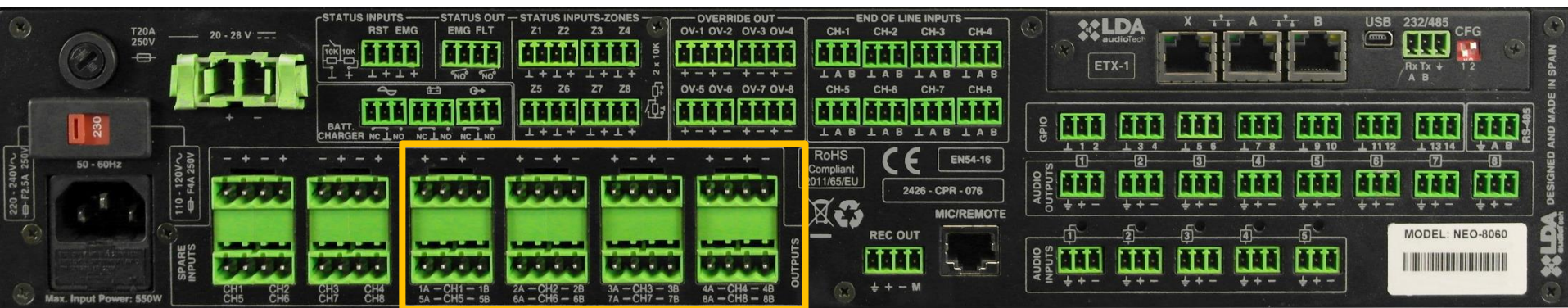
8 – 1024 channels

- 120 W – 1000 W amplifiers
- Flexible power
- A+B wiring

NEO

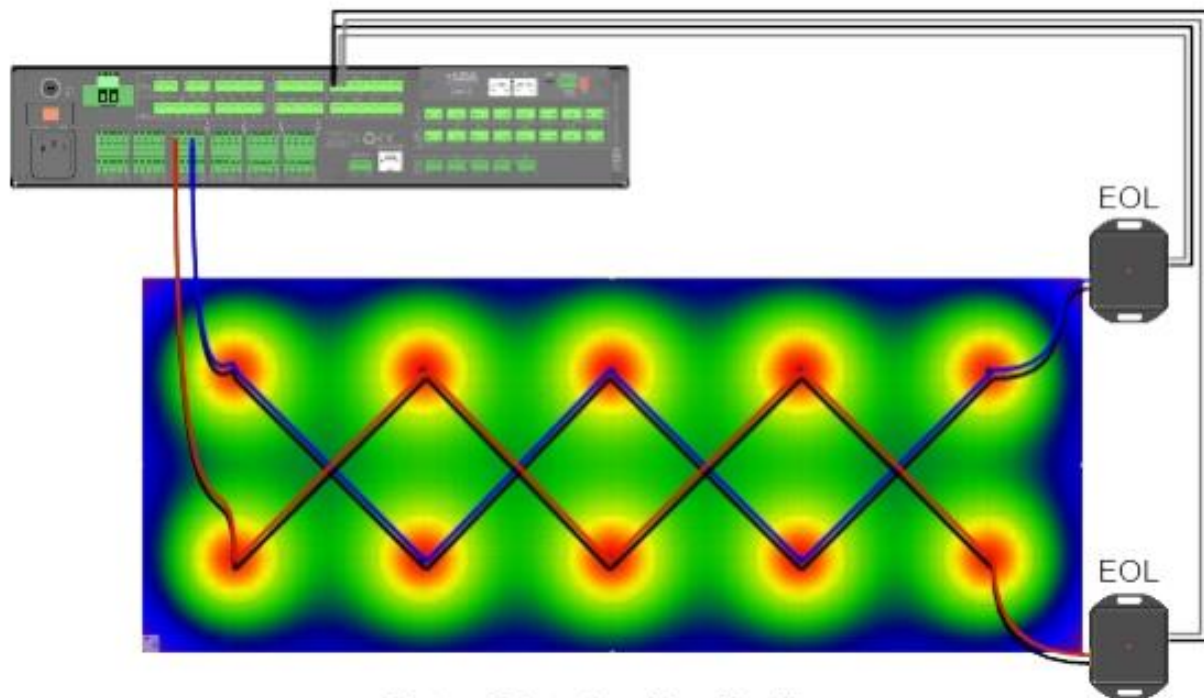


REAR SIDE



8 amplifier channels
(A+B wiring: 16 lines)

A+B WIRING



Picture 45: Speakers Line. AB wiring



OUTPUTS

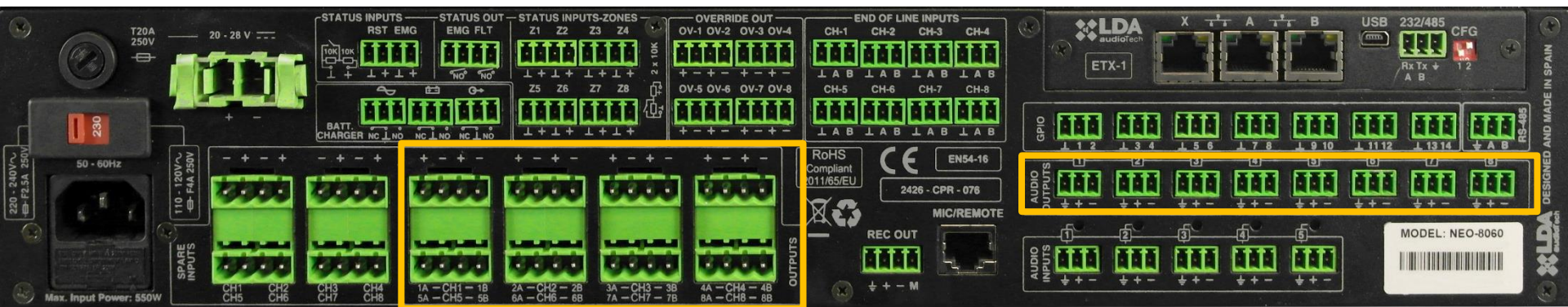
8 – 1024 channels

- 120 W – 1000 W amplifiers
- Flexible power
- A+B wiring
- Balanced Pre-Amplified Outputs

NEO



REAR SIDE



8 amplifier channels
(A+B wiring: 16 lines)

8 pre-amp outputs



OUTPUTS

8 – 1024 channels

- 120 W – 1000 W amplifiers
- Flexible power
- A+B wiring
- Balanced Pre-Amplified Outputs
- Backup Amplifier

NEO



BACKUP AMPLIFIER

NEO8060: 8 x 120W



NEO 8250E: 8 x 250W



7+1

NEO 4250E: 4 x 250W
2 x 500W



NEO 4500E: 4 x 500W
2 x 1000W



3+1 or 1+1 ?

NEO



BACKUP AMPLIFIER

NEO8060: 8 x 120W



NEO 8250E: 8 x 250W



7+1

NEO 4250E: 4 x 250W
2 x 500W



NEO 4500E: 4 x 500W
2 x 1000W



3+1 or 2+1

BACKUP AMPLIFIER 2+1

OUT	POWER
#1	500 W
#2	0 W
#3	500 W
#4	0 W

Total Power: 1000 W

BACKUP AMPLIFIER 2+1

OUT	POWER
#1	500 W
#2	0 W
#3	500 W
#4	500 W

Total Power: 1000 W

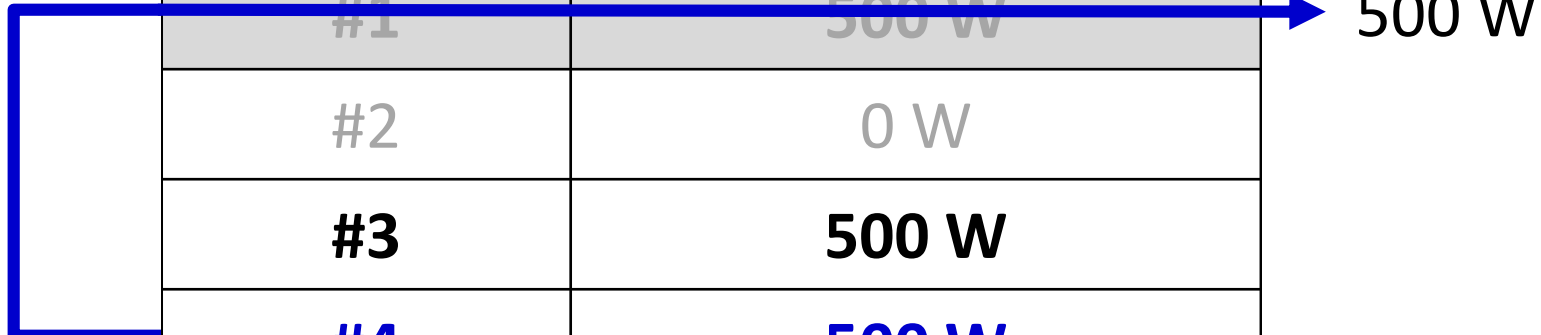
BACKUP AMPLIFIER 2+1

OUT	POWER
#1	500 W
#2	0 W
#3	500 W
#4	500 W

Total Power: 500 W

BACKUP AMPLIFIER 2+1

OUT	POWER
#1	500 W
#2	0 W
#3	500 W
#4	500 W

**Total Power: 1000 W**



OUTPUTS

8 – 1024 channels

- 120 W – 1000 W amplifiers
- Flexible power
- A+B wiring
- Balanced Pre-Amplified Outputs
- Backup Amplifier
- Speaker Lines Supervision



SPEAKER LINES SUPERVISION

NEW METHOD:

Impedance Measurement (19 kHz) + End Of Line Device (v2)

- No return cable
- No minimum load
- More accurate (Tolerance < 10%)
- Until the last speaker





SUMMARY: Inputs & Outputs

- **40 x 1024 FULL DIGITAL MATRIX** with DSP
- **4 Balanced Inputs**
- **8 Microphones/Panels**
- **2 Simultaneous Messages**
(99 messages, 12 hours)
- **Frontal PTT Microphone**
- **32 Remote Inputs** (Cobranet)
- **Flexible Amplifiers**
- **From 120W to 1000W**
- **A+B Wiring**
- **Balanced Pre-Amp Outputs**
- **Backup Amplifier**
- **Speaker Lines Supervision**

- **Dual Power Supply:**

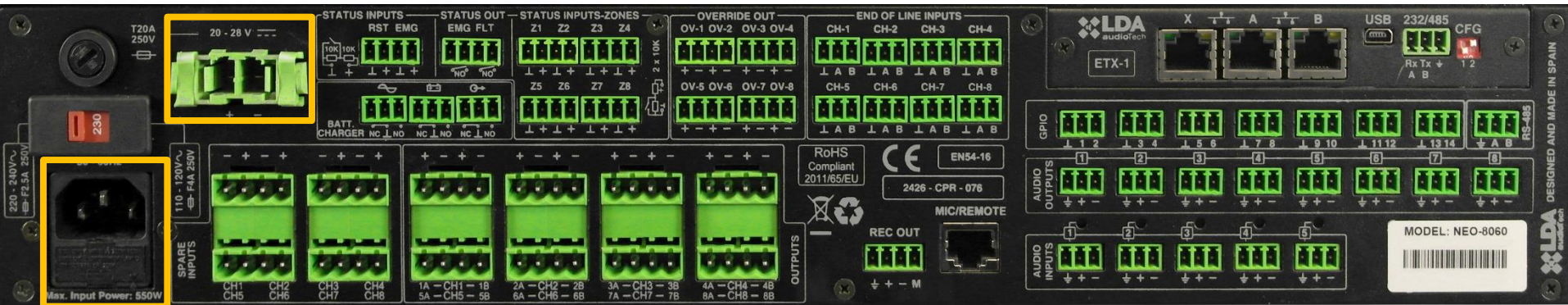
230V AC + 24V Battery Charger

NEO



REAR SIDE

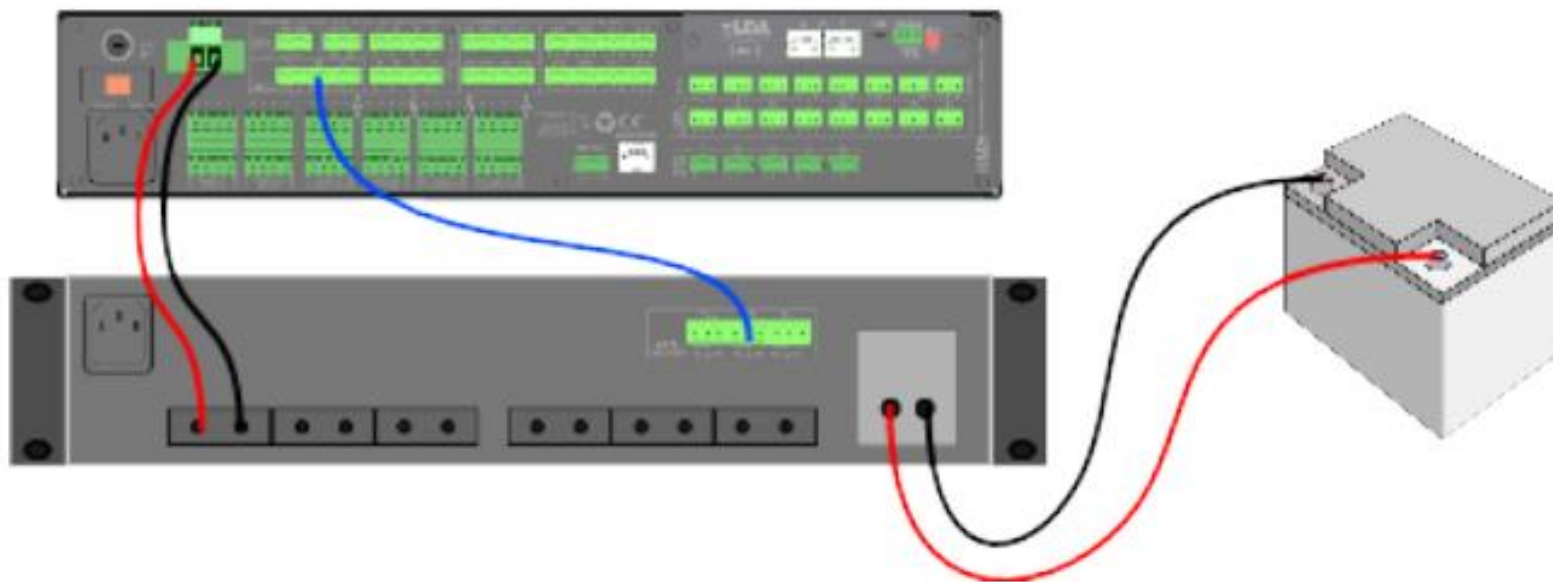
24 V Battery Charger Power Supply



Main 230V AC Power Supply

- **Dual Power Supply:**
230V AC + 24V Battery Charger
- **EN 54-24 Battery Charger Support:**
 - 2 x 12V batteries
 - 24h standby + 30' Full Power: **40 Ah / device**

BATTERY CHARGER CONNECTION

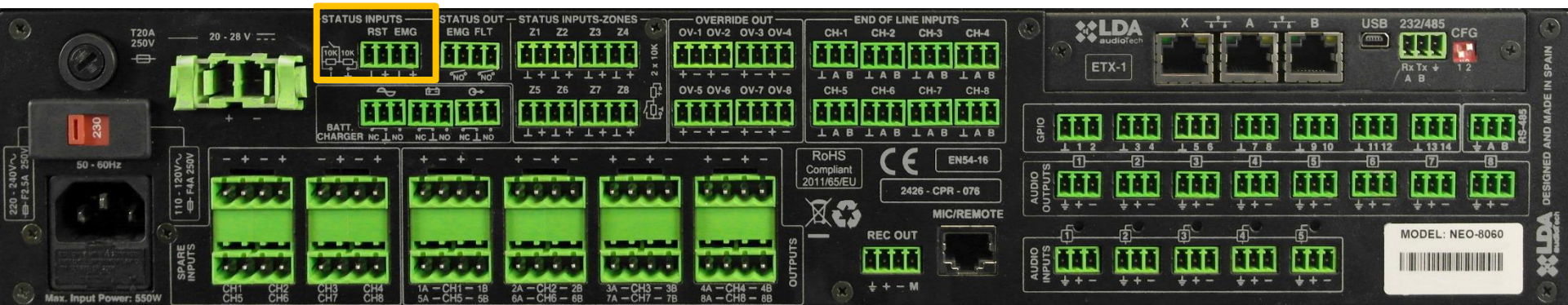


- **Dry Contacts (Relays):**
 - General Alarm + Reset

NEO



REAR SIDE



- **Dry Contacts (Relays):**

- General Alarm + Reset
- EMG on + FLT on



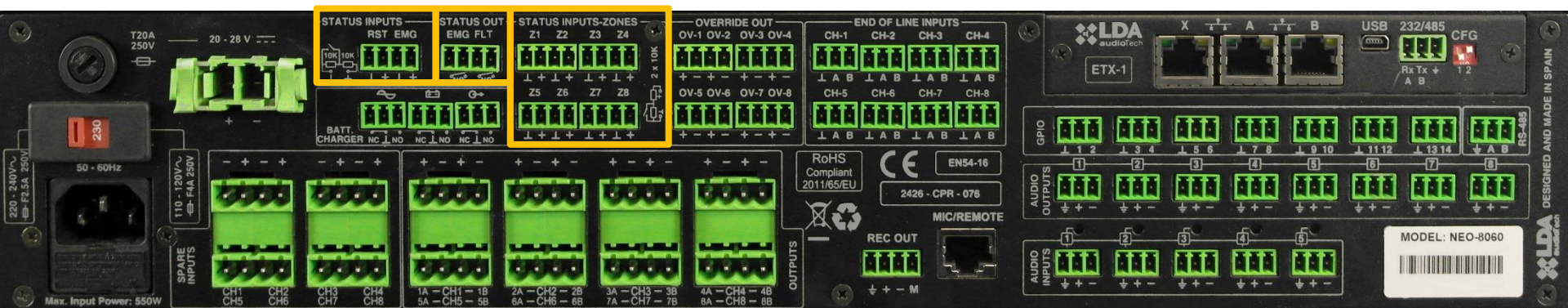
- **Dry Contacts (Relays):**

- General Alarm + Reset
- EMG on + FLT on
- 1024 x Zones Alarm

NEO

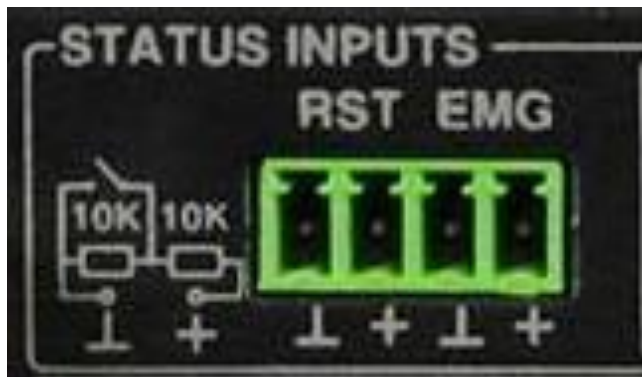


REAR SIDE



- **Dry Contacts (Relays):**
 - General Alarm + Reset
 - EMG on + FLT on
 - 1024 x Zones Alarm
- **Fully Supervised from NEO**

- **Fully Supervised from NEO**

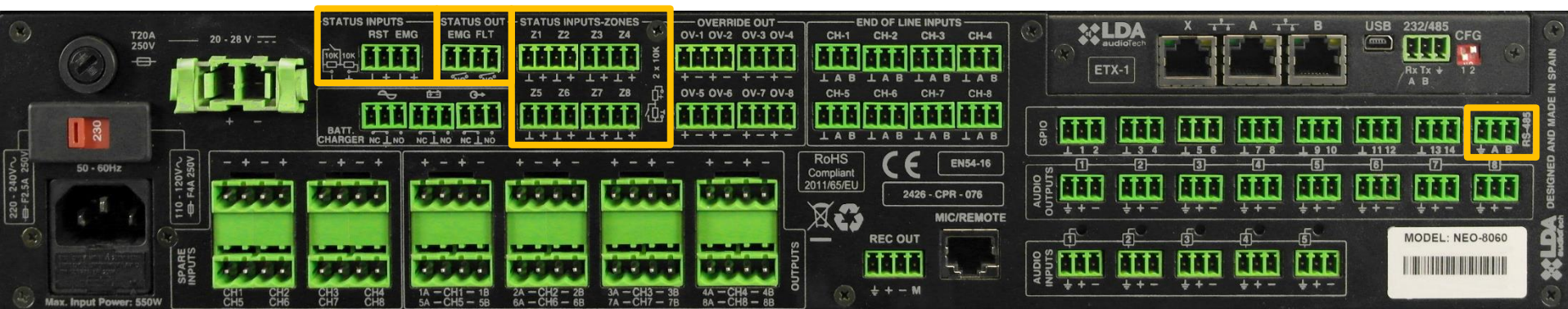


- **Dry Contacts (Relays):**
 - General Alarm + Reset
 - EMG on + FLT on
 - 1024 x Zones Alarm
- **Fully Supervised from NEO**
- **Advanced Integrations:** RS485 Serial Port

NEO



REAR SIDE





ADVANCED INTEGRATIONS

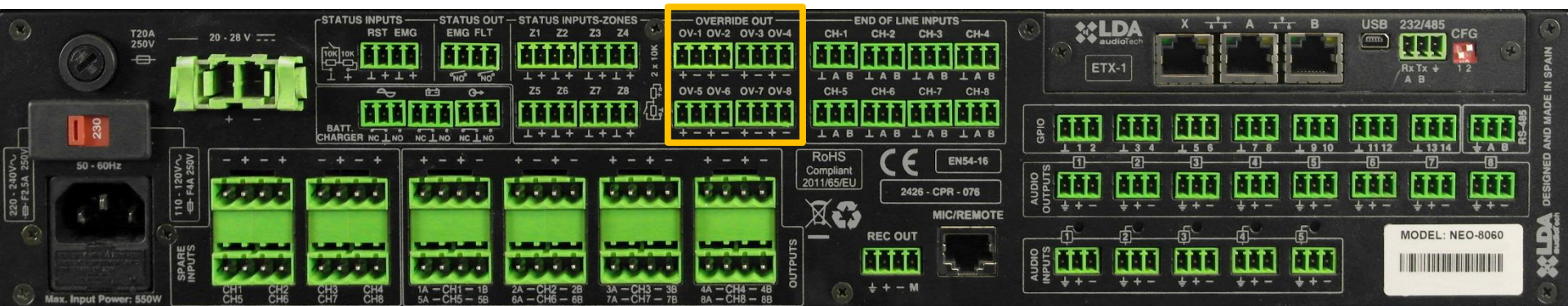
- **Override Outputs 24V**

- Attenuators
- Flash lights
- 3rd party systems

NEO



REAR SIDE





ADVANCED INTEGRATIONS

- **Override Outputs 24V**

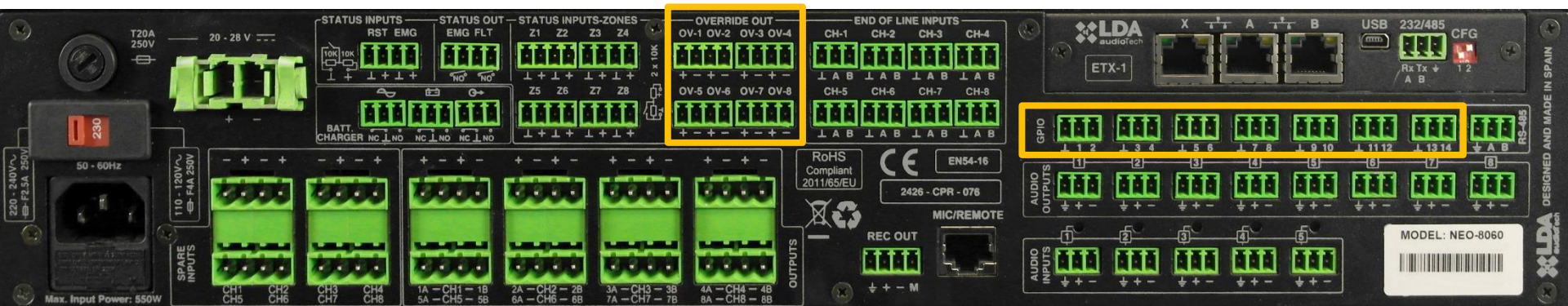
- Attenuators
- Flash lights
- 3rd party systems

- **14 x GPIOs**

NEO



REAR SIDE



DESIGNED AND MADE IN SPAIN





ADVANCED INTEGRATIONS

- **Override Outputs 24V**

- Attenuators
- Flash lights
- 3rd party systems

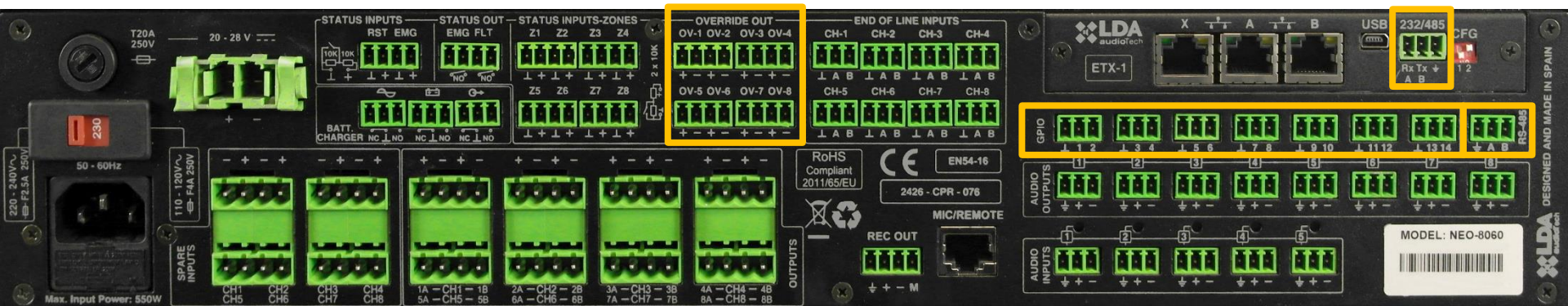
- **14 x GPIOs**

- **2 x RS485 Serial Ports**

NEO



REAR SIDE



- **2 x RS485 Serial Ports**
 - SPECIAL CASE: **VCC 64 Volume & Channel Controller**





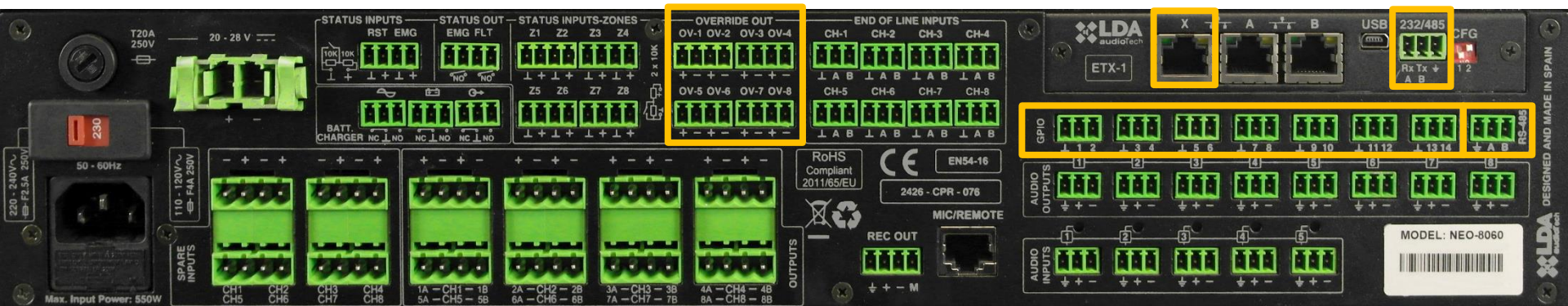
ADVANCED INTEGRATIONS

- **Override Outputs 24V**
 - Attenuators
 - Flash lights
 - 3rd party systems
- **14 x GPIOs**
- **2 x RS485 Serial Ports**
- **UDP Ethernet Commands**

NEO



REAR SIDE





ADVANCED INTEGRATIONS

- **Override Outputs 24V**

- Attenuators
- Flash lights
- 3rd party systems

- **14 x GPIOs**

- **2 x RS485 Serial Ports**

- **UDP Ethernet Commands**

- Intercomm
- IP Telephones
- Building Management Systems
- ...



ADVANCED EVENT MANAGER

- **Schedule Events in Time & Date:**
 - Messages
 - Audio Source Channel
 - Volume Levels
- **Phased Evacuation**
 - EVAC and ALERT on different zones and delays
- **Easy Programming of Automatic Events**

NEO



NEO CONFIGURATOR







☒ Cancel

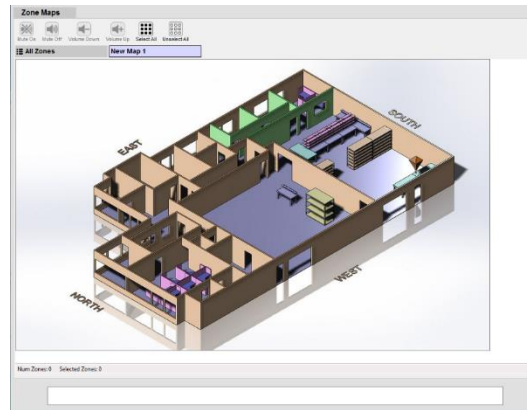
☒ Login



NEO CONTROL

Remote control for NEO systems

- Easy to configure
- Volume & Channel Control
- System Monitoring



Sources

Id	Name	Gain	Mute
01	Source #1	-10 dB	☐
02	Source #2	-10 dB	☐
03	Source #3	0 dB	☐
04	Source #4	0 dB	☐

Zone Maps

Num Zones: 5 Selected Zones: 1

Sources **Events**

System Monitor

2018-03-20 _ 11:49:31 _ Connected to system PA/VA System [192.168.0.3]
 2018-03-20 _ 11:53:47 _ Disconnected from system PA/VA System [192.168.0.3]
 2018-03-20 _ 11:54:25 _ Connected to system PA/VA System [192.168.0.3]



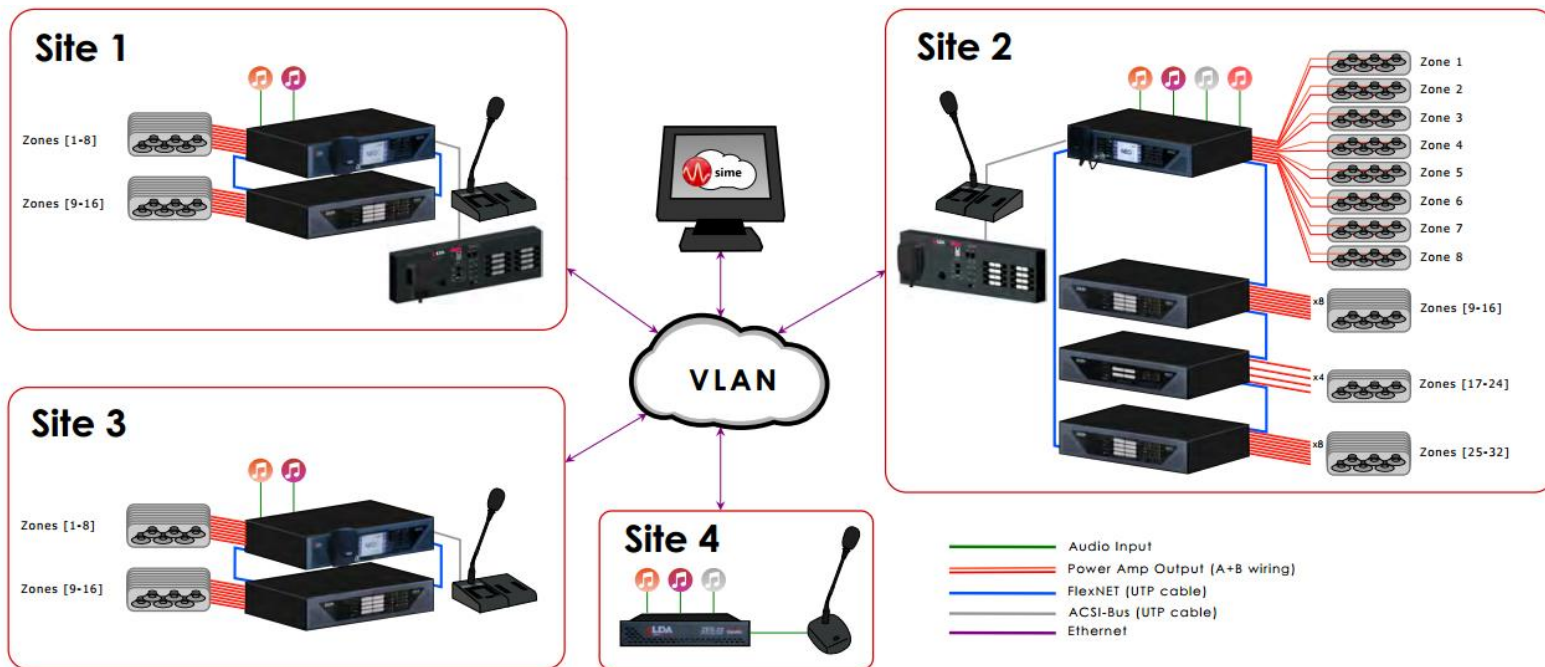
SIME SOFTWARE

Central Control for Multiple Systems

- Easy & Intuitive
- Integration with 3rd party systems
- Multi-platform access

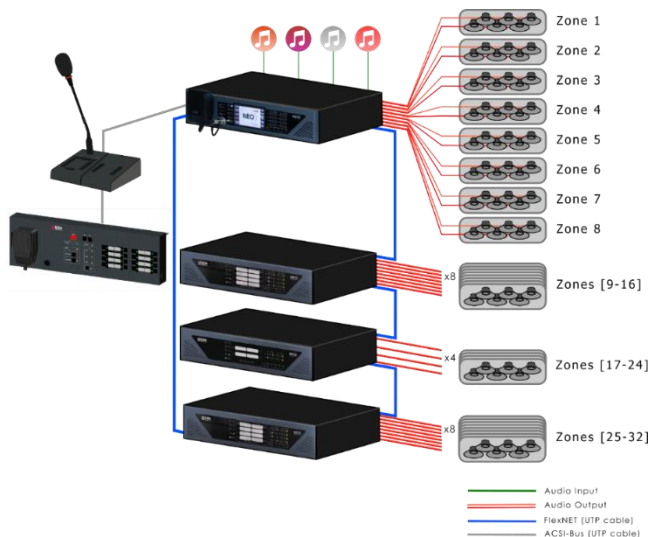


MULTI-SITE SYSTEM



NEO

- ✓ **40 x 1024** Full Digital Matrix
- ✓ **Balanced** Audio & Inputs with **DSP**
- ✓ Flexible Amplifiers (**120W-1000 W**)
- ✓ **99 messages**, 12 hours
- ✓ **Backup Amplifiers**
- ✓ Easy **Integration**
- ✓ **Events Scheduler**
- ✓ **NEO Configurator + NEO Control + SIME**



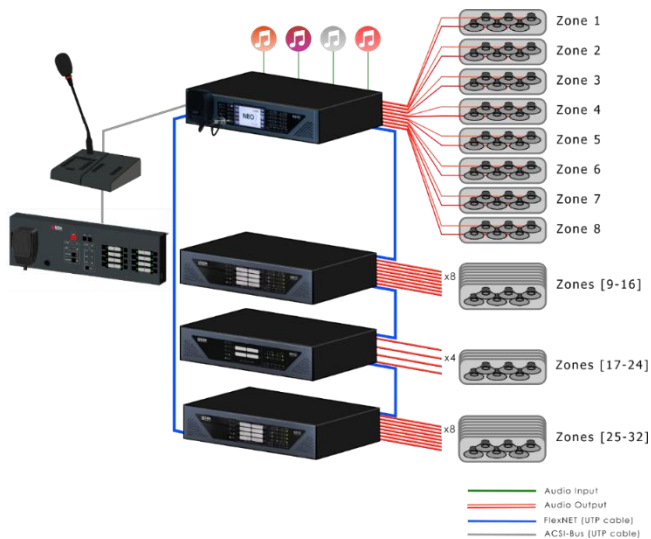
NEO



NEO SUMMARY

EN 54 -16

NEO



[Video: NEO System](#)





4. ONE: Who said small?

ONE



ONE: Who said small?



ONE



ONE: Who said small?

one

WHO SAID SMALL?

EN 54 -16 / -4

- **Full PA/VA System**
+ Integrated Battery Charger
- **Small Projects**
- **Extremely easy to install**

**EN 54 -16 / -4**

Battery Charger 12V
designed by LDA

Battery 12V, 22Ah

6 AUDIO SOURCES



3 x Audio Inputs

- Balanced Audio
- PRIO 1 + PRIO 2 dry contacts
- Optional Mixer

6 AUDIO SOURCES



1 x Bus ACSI



MPS-8Z

Public Address



VAP-1

Voice Alarm

EN 54-16



MPS-8Z: Multi-Zone Paging Station



MPS-8Z: Paging Microphone

8 Buttons for Zone Call



VAP-1: Voice Alarm Panel **EN 54-16**



VAP-1: Fireman's Panel + VAP-8K: Extension

ONE



BUS ACSI



- ▶ Audio
- ▶ Control
- ▶ Power



8 x MPS-8Z or VAP-1



Up to 1000 m



6 AUDIO SOURCES



1 x Bus ACSI

3 x Audio Inputs

2 x Message Players

- 10 minutes memory for:

✓ EVAC

✓ ALERT

EN 54 -16

- USB upload to internal memory



6 x Audio Outputs

2 x Amplifiers @ 500 W



6 x Audio Outputs

OUT	MAX POWER
#1	500 W
#2	500 W
#3	120 W
#4	120 W
#5	120 W
#6	120 W

Max Total Power: 500 W

ONE



AUDIO OUTPUTS



6 x Audio Outputs

2 x Amplifiers @ 500 W

2 simultaneous channels
+ Backup Amplifier **EN 54 -16**



Automatic Source Priority

AUDIO SOURCE PRIORITY



Priority	AUDIO SOURCE
#1	VAP-1
#2	EVAC/ALERT message
#3	MPS-8Z
#4	Audio Input 1 (Dry contact / Noise gate)
#5	Audio Input 2 (Dry contact / Noise gate)
#6	Audio Input 3

ONE



AUDIO OUTPUTS



6 x Audio Outputs

2 x Amplifiers @ 500 W

Speaker Lines Supervision
no return cable



EN 54 -16

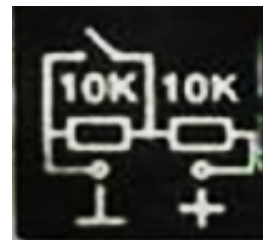
**2 x Input Dry Contacts:**

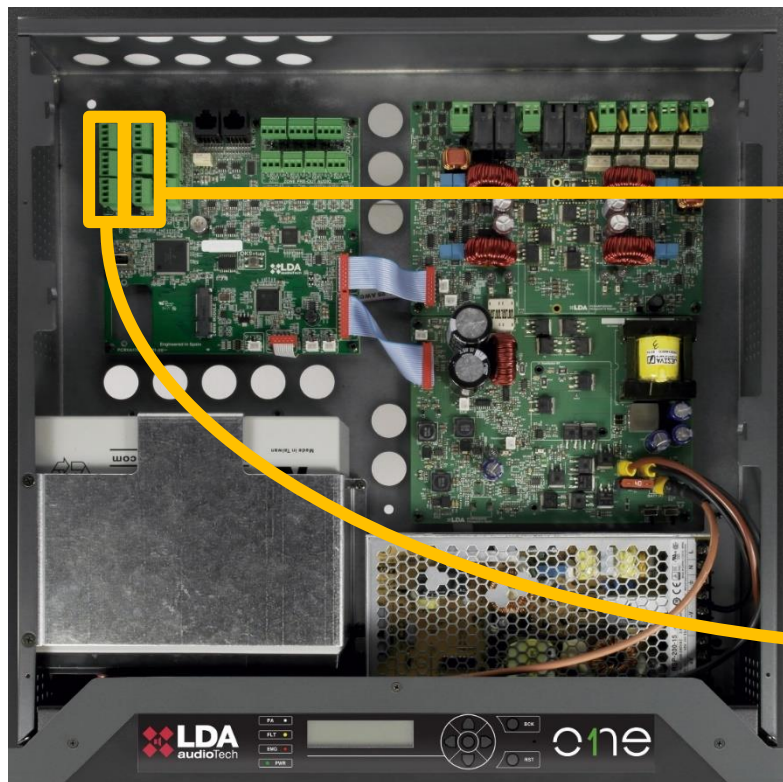
- General EVAC
- RESET

2 x Output Dry Contacts:

- Emergency ON
- Fault ON

**Supervised
Connection**



**2 x Input Dry Contacts:**

- General EVAC
- RESET

2 x Output Dry Contacts:

- Emergency ON
- Fault ON

**6 x Zonal EVAC
Input Dry Contacts**



6 x Override Outputs 24V

- Attenuators
- Flash Lights

4 x Pre-Amplified Outputs



INSTALLATION



- **Wall & Rack Design**





INSTALLATION



- **Wall & Rack Design**
- **Plug & Set Mode**



■ Wall & Rack Design

■ Plug & Set Mode

- ✓ Audio Inputs
- ✓ Fire Alarm Supervision
- ✓ MPS-8Z and VAP-1
- ✓ Messages from USB
- ✓ Audio Outputs
- ✓ Speaker Lines Supervision
- ✓ Battery Supervision



- **Wall & Rack Design**
- **Plug & Set Mode**
 - ✓ Audio Inputs
 - ✓ Fire Alarm Supervision
 - ✓ MPS-8Z and VAP-1
 - ✓ Messages from USB
 - ✓ Audio Outputs
 - ✓ Speaker Lines Supervision
 - ✓ Battery Supervision
- **Manual Configuration from LCD Screen**
- **USB Backup & Restore**

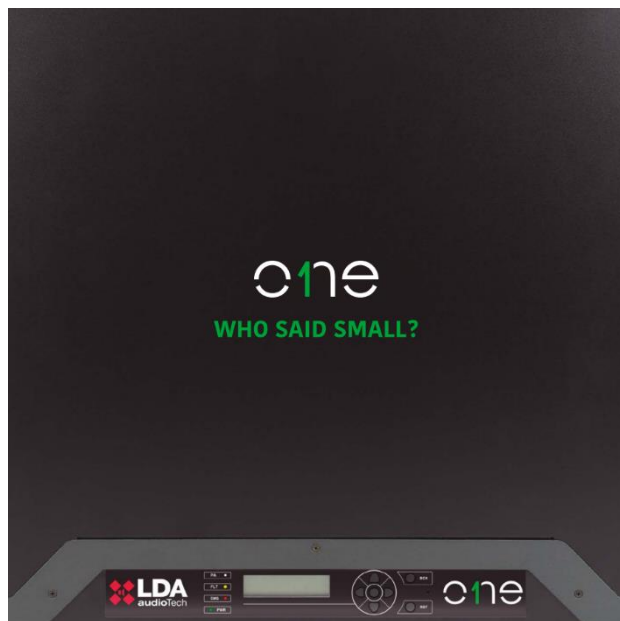
ONE



VERSIONS TIMELINE

ONE v1: STANDALONE

RELEASE DATE:
May/Oct 2018



ONE



VERSIONS TIMELINE

ONE v2: EXPANDABLE

RELEASE DATE:
Mid-2019



500 W + 500 W + 500 W + 500 W

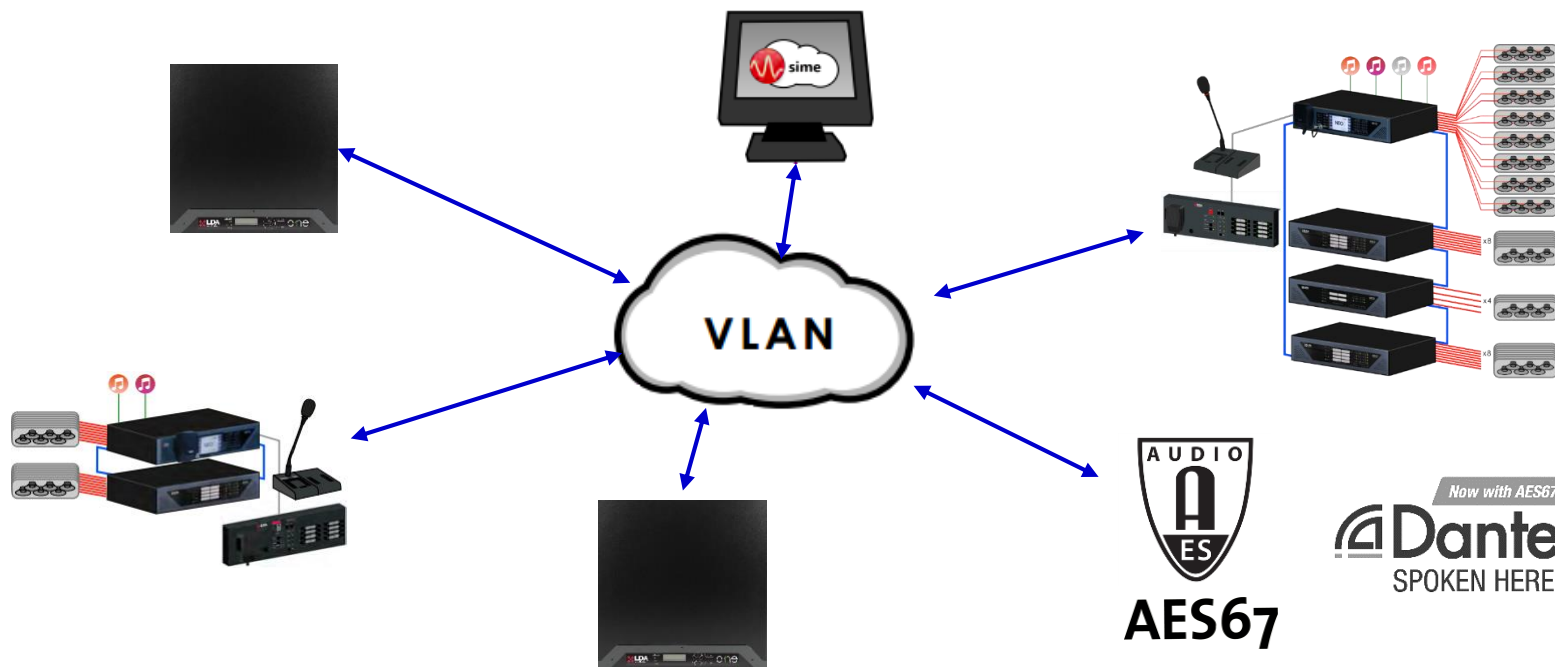
ONE



VERSIONS TIMELINE

ONE v3: IP CONNECTIVITY

RELEASE DATE:
End of 2019



ONE



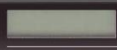
ONE: Who said small?

one

WHO SAID SMALL?

EN 54 -16 / -4

- **Full PA/VA System**
+ Integrated Batteries
- **Small Projects**
- **Extremely easy to install**

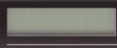


ONE



ONE: Who said small?

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WHO SAID SMALL?



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Experts in PA/VA systems



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