



# NEO)))

## PA/VA system

EN 54 -16

# EN 54-16 PA/VA System

NEO is an innovative Public Address and Voice Alarm system that allows an easy audio installation with just one piece of equipment.

- ◆ Fast and controlled emergency evacuations: NEO is EN 54-16 certified (2426-CPR-076) and even surpasses the stringent requirements of this standard in order to be a reliable and future proof system.
- ◆ One NEO unit integrates 8 independent class D amplifiers, that are configurable to 8 channels of 60Wrms or 4 channels of 120Wrms. One of the amplifiers can serve as a back-up amplifier for the rest.
- ◆ NEO can work over standard Ethernet networks, using protocols such as CobraNet and FlexNET to send and receive audio from the data network without the need of special wiring.
- ◆ NEO has an Event configurator and can perform actions triggered from Time&Date, GPIO inputs, buttons from the MPS microphone or even UDP commands. As a result, it can be easily integrated with other systems such as fire detection systems, digital signage, intercoms or other PA systems.

8 x 60Wrms or 4 x 120Wrms



2U rack size

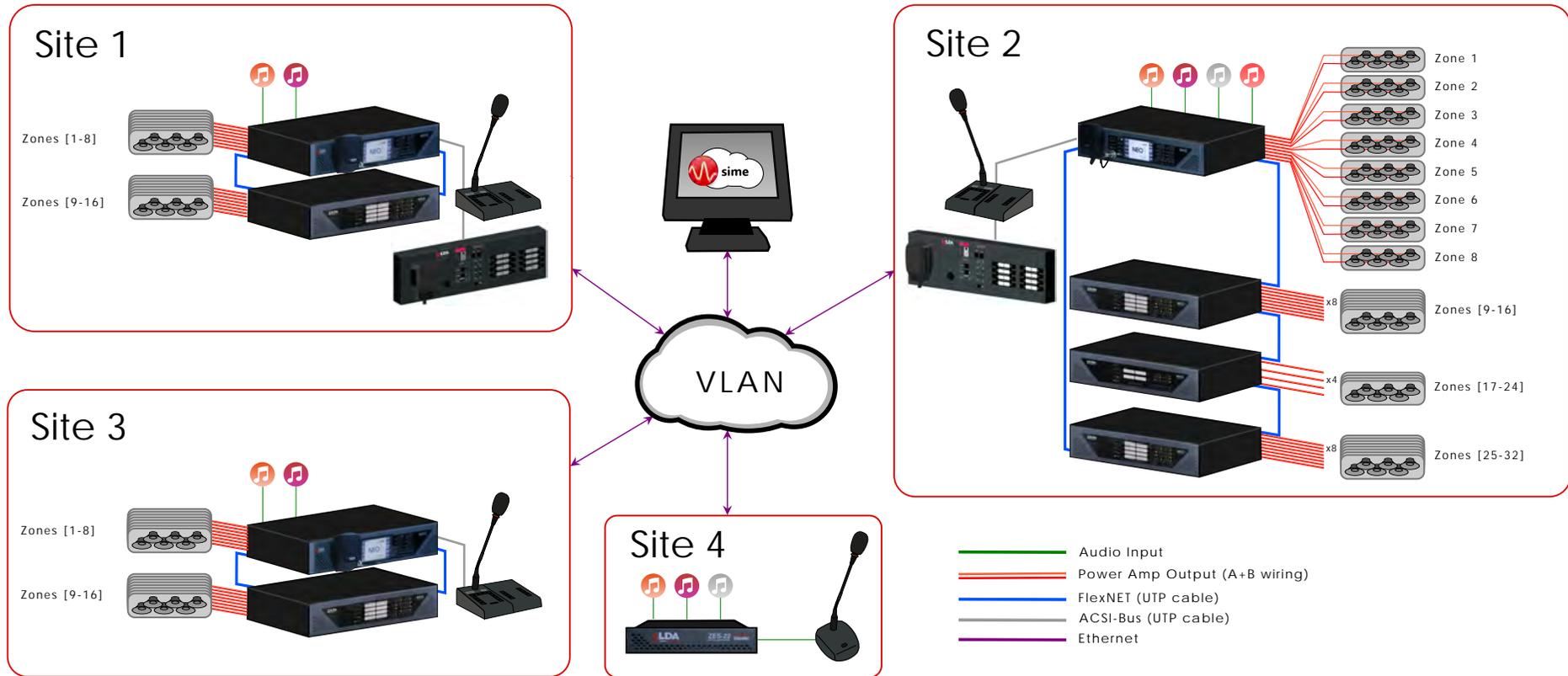
## NEO All-in-one compact system:

- 8 independent power amplifier channels
- Audio Matrix (40 x1024) and DSP
- 5 analog + 32 digital audio inputs
- Advanced Event configurator
- Expandable up to 1024 zones
- Audio over Ethernet



- Cost effective compact PA/VA system
- EN 54-16 certified and EN 60849 compliant
- High quality audio PA and BGM system
- 4GB for pre-recorded messages
- Line supervision and back up amplifier
- Web-based control with SIME Software

# NEO Multi-Site system with SIME software:



**Central Control:** By using the SIME Control software, it is possible to control and monitor several distributed NEO systems. In this example, there are 3 NEO systems and a total of 64 zones which will be visible from SIME Control software.

**Central Supervision:** Operators can easily monitor the state of the entire system from the web-based SIME Control user's interface. Whether any NEO system is in Emergency mode, have any disarmed zone or they are reporting a failure, the information will be displayed in SIME.

**Audio over Ethernet:** Every NEO is capable of receiving up to 32 audio inputs from the data network (Cobranet) and route them to any zone in the system. In the above example, in Site 4 there are 4 analog audio inputs (3 music sources and a microphone) that the ZES 22 unit will convert to uncompressed high quality digital audio. These digital audio inputs can be routed from any NEO system to its zones or from SIME to any zone in the entire system.



SIME Control (GUI)

# NEO Extension

The EN 54-16 NEO PA/VA system can be easily scaled with NEO-Extension units to add more power and zones to the system. Audio and control signals are transmitted from the main NEO unit to the NEO Extension units with a daisy-chain connection via FlexNet technology and audio over Ethernet just by using UTP cable. Once connected in a single or redundant connection with the NEO Extension units, the NEO system will easily recognize the additional units and will expand its zones (up to 1024 zones).

## NEO Extension 8120: 8 x 120Wrms



NEO-Extension 8120 offers 8 independent class D amplifiers of 120Wrms and control features, in order to add up to 8 more zones to the main NEO PA/VA system.

## NEO Extension 4250: 4 x 250Wrms 2 x 500Wrms



NEO-Extension 4250 offers 4 independent class D amplifiers of 250Wrms and control features, in order to add up to 4 more zones to the main NEO PA/VA system. This unit can also be configured to provide 2 power amplifier channels of 500Wrms.

## NEO System's accesories:

### VAP-1: Voice Alarm Panel

The VAP-1 offers remote control of the VA functions of the NEO PA/VA system. It offers direct access buttons to enter the system in Emergency mode in order to evacuate from the integrated EMG PTT microphone or to play the Evacuation or Alarm messages. When used with the VAP-8K, it allows zone selection to perform an evacuation per zone or to launch VA Events.



### MPS-8Z: Multi-zone Paging Station

The MPS-8Z is a high performance digital paging station for the PA/VA system NEO. Up to 8 MPS-8Z units can be connected in a bus configuration to the ACSI bus via CAT5 cable (1Km of total length). It has 8 buttons for paging to 8 zones, and additional zone buttons can be added with MPS-8K units.

The MPS-8Z offers an Event button that combined with the zone buttons allow a wide variety of system's functions such as launching pre-recorded messages or loading presets. The sound processing has been configured to achieve high quality results on the paging of voice, in terms of distortion, sensitivity, bandwidth and signal/noise ratio. It has an iron chassis to provide a superior stability and protection against damages and all buttons are designed for an intensive use.



### VCC-64: Volume and Channel Controller

The VCC-64 allows the volume control of the zone where it is located and the routing of audio inputs (channels) from the system to that zone. Unlike an attenuator, the VCC-64 has a direct communication with the NEO system as it uses an RS-485 interface. Up to 8 zones can be controlled in the same bus and several VCC-64 units can be assigned to the same zone.





LDA Audio Tech is focused in the design and manufacture of PA/VA solutions and has more than 35 years of experience offering innovation, quality and trust to partners and clients from all around the world.

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