



## NXAMPmk2 based Universal Amplifiers Rack

The NUARmk2 provides a scalable, plug & play, amplified audio distribution solution.

### NUARmk2 main features

- 19", 12U, double sliding doors rack with shock mount system.
- 2x NXAMP4x4mk2 powered TD controllers with active PFC universal power supply.
- 2x Digital Metering Units (DMU) to connect Analog and optional AES/EBU or Dante™ inputs with vue-meters.
- 2x Digital Patching Units (DPU) to easily connect any association of NEXO speakers.
- Optional NXAEDT extension card adding AES/EBU and Dante™ inputs.
- Optional 2x phases power supply for 400 volts tri-phases mains.

The NEXO Universal Amp Rack (NUAR) allows to have a standard rack amplifiers format to ease cross rental between NEXO users.

### Complete integration of power and control

The heart of the NUARmk2 is a pair of NXAMP4x4mk2 powered TD controller, the most advanced NEXO amplifiers model.

Based on dual-phases power supplies with active PFC and universal mains inputs, these amplifiers delivers up to 8 channels of 4500 watts with the latest generation of 96 kHz, 64-bit NEXO processing.

Coupled with an ultra-low distortion proprietary Class D amplifier design, even with very low loads, the NXAMP4x4mk2 can feed any NEXO system.

### DMU Metering on inputs

The original DMU has been redesigned to accommodate the NXAEDT extension board.

Front panel connectors allows to connect up to 4 Balanced Analog Inputs on XLR with link, 1 AES/EBU input on XLR with buffered and failsafe relay by-passed output, and 4 flexible 1Gb network inputs on etherCON RJ45 connector.

Each audio input level, can be monitored through LED based vue-meters while the network activity uses different LED color depending of the network port configuration (Dante™ Primary, Dante™ secondary or separate Remote Control port).

### DPU Patching on outputs

The DPU is an intelligent amplifier power outputs patch bay that can route the NXAMPmk2 outputs to any combination of SPK-4 or SPK-8 connectors.

Three different mode of routing can be user selected : Automatic (let the DPU decide the best routing to the SPK connectors), All-on-SPK8 (useful to route the NXAMPmk2 4 channels outputs on one cable) and Pass-through (to reuse existing cabling foreseen for NXAMP outputs).

### Optional Power distribution Units

The MDU-232C is an optional power distribution units targeted for 220 to 240 Volts mains country.

6 different output circuits are connected to 2x out of the 3 phases of the 400 volts Mains input. The NUARmk2 pre-cabled with this power distribution unit can be ordered in three variant (Yellow, Red, Blue) depending which phases are in use.

Balancing the color on the NUARmk2 on the mains allow a balanced usage of the three phases.

### Optional Digital Inputs card

The NXAMPmk2 can be fitted through their extension slot with the NXAEDT extension card.

This optional digital inputs card can accept 2x channels of AES/EBU input (with buffered output and failsafe relay) or 4 channels of Dante™ inputs, all with 24 bits resolution and 44.1, 48, 88.2 or 96 kHz sampling frequency).

### 12U 19" tailored rack

The NUARmk2 rack is made on light birch plywood and is tailored to fit perfectly the NXAMPmk2 on both front and back rigging system in a shock-mount case.

A perforated steel grill at the back cleans up the design and protect from unwanted manipulation.

*NB : NUARmk2 cannot be assembled with first generation NUAR rigging system.*

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

### POWER AMPLIFIER PART MAIN SPECIFICATIONS

|                                       |   |
|---------------------------------------|---|
| Amplifier Model                       | 2x NEXO NXAMP4x4 <sub>mk2</sub> Powered TD controller |
| Total number of channels              | 8 Amplifier channels, bridgeable by pairs             |
| Total Max. output power (non bridged) | 8x 4500 Watts / 2 Ohms                                |
| Total Max. output power (bridged)     | 4x 9000 Watts / 4 Ohms                                |
| Audio AD and DA Converters            | 24 bits @ 96 kHz                                      |
| Total Processing                      | 6 multi core 64 bits processing DSPs                  |

### DIGITAL METERING UNIT MAIN SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Integrated meters              | 8 Channels of 8 levels meters, one per input (4x Analog and 4x Digital)        |
| Network activity               | RGB LED per network input  |
| Analog audio connectors        | 4x XLR input with parallel output link on XLR (Front) and 4x XLR output (Back) |
| AES/EBU audio connectors       | 1x XLR input with buffered output link on XLR (Front) and 2x XLR In/out (Back) |
| Network connectors             | 4x etherCON connector (Front) and 4x RJ45 connector (Back)                     |
| NXAMP <sub>mk2</sub> interface | DB-25 for GPIO communication and power from host NXAMP <sub>mk2</sub>          |

### DIGITAL PATCHING UNIT MAIN SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Routing matrix                 | Route any of the 4x input channels to one or several SPK pins pairs on the front |
| LCD displays                   | 4x LCD displays, 2x 8 characters   |
| Power inputs and outputs       | 2x SPK-4 inputs (Back) and 4x SPK-4 + 2x SPK-8 outputs (Front)                   |
| Mains inputs                   | 2x IEC connectors with security latch (V-Lock system)                            |
| NXAMP <sub>mk2</sub> interface | DB-9 for RS232 communication from host NXAMP <sub>mk2</sub>                      |

### OPTIONAL AES/EBU DANTE™ EXTENSION CARD MAIN SPECIFICATIONS

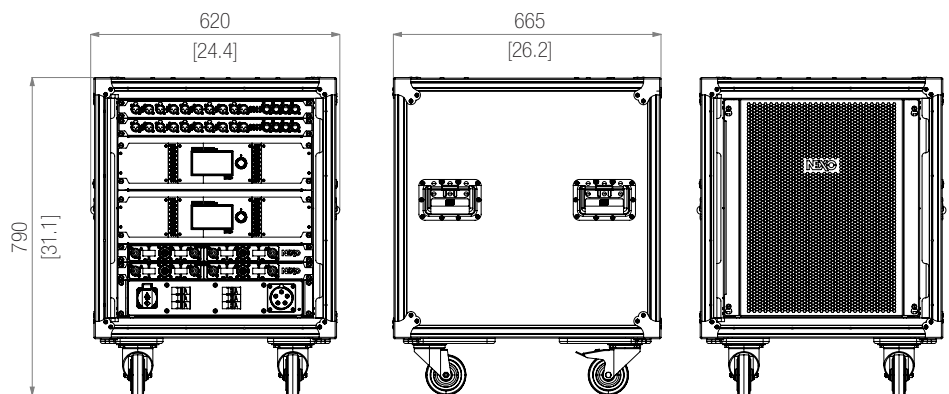
|                            |   |
|----------------------------|---|
| Digital audio type         | 1 AES/EBU stereo input with link or 4 channels from a Dante™ Network        |
| Resolution and sample rate | 24 bits @ 44.1, 48, 88.2 or 96 kHz  |
| Latency                    | 0.25 ms to 5.0 ms (Typical 1 ms)  |
| Network connectivity       | 4x 1 Gb RJ45 Ethernet connectors with flexible Gigabit switch configuration |

### OPTIONAL POWER DISTRIBUTION UNIT MAIN SPECIFICATIONS

|               |   |
|---------------|---|
| Power Input   | 32 A P17, 3P + N + G, 400 Volts, (Yellow, Red or Blue)                      |
| Power Outputs | 4x 4" Tails wig NA3FC, 4x IEC 10A with locks, 2x auxiliary plugs            |
| Protection    | 4x 20A breakers C type for Powercon output, 2x 10A breakers for Aux. output |

### RACK SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Equipment                      | 4x wheels Ø100 with brake, 4x dish for stacking, 4x handles, 1x dish for label |
| Finish                         | Heavy duty black 900 vinyl cover   |
| Height x Width x Depth (Net)   | 790mm x 620mm x 665mm (31.1" x 24.4" x 26.2")                                  |
| Height x Width x Depth (Gross) | 665mm x 620mm x 800mm (26.2" x 24.4" x 31.5")                                  |
| Weight (Net)                   | 116 kg (256 lbs)   |
| Weight (Gross)                 | 131 kg (289 lbs)   |
| Operating temperature range    | 0° C - 40° C (32° F - 104° F)  |
| Storage temperature range      | -20° C - 60° C (-4° F - 140° F)  |



NEXO S.A.  
 Parc d'Activité  
 du Pré de la Dame Jeanne  
 B.P. 5  
 60128 PLAILLY  
 Tel: +33 (0) 3 44 99 00 70  
 Fax: +33 (0) 3 44 99 00 30  
 e-mail: info@nexo.fr

#### LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of five (5) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labor. The item is to be adequately packaged and dispatched, prepaid, to a NEXO authorized distributor/service center. Unauthorized repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.