

# A&E SPECIFICATIONS

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### **ID24i, ID24t & ID24c**

The loudspeaker shall be a 2-way full-range system operating in a water-resistant Polyurethane cabinet. It shall have two 4" self-shielded Neodymium LF drivers and one 1" PET diaphragm / Neodymium HF driver with a 1/2" exit.

Horizontal and vertical dispersions shall range from 40° to 120°. Users shall be able to rotate the horn in 4x directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 132 mm H x 309 mm W x 233 mm D (5.2" H x 12.2" W x 9.2" D), and it shall weigh 6 kg (13 lbs). All models shall spec the same; the "i" version is intended for fix installation and the "t" version for touring applications. The « A la carte » "c" version enables users to choose from a range of color, mounting, connectivity and HF dispersion options. All "i", "t" and "c" models shall be available in any RAL color paint.

Frequency response shall be 95Hz – 20kHz +/-6dB. The 1W/1m sensitivity shall be 100dB SPL and the peak output shall reach up to 126dB. The system shall have an internal passive crossover with a crossover point of 2.3kHz. The nominal impedance shall be 16 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's wired in parallel for the "t" version, one captive cable for the "i" version and any of these two options for the "c" version. All models shall be wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-.

The full-range system shall be the NEXO ID24i, ID24t or ID24c.

### **ID S110i & ID S110t**

The subwoofer shall be a band pass tuned design operating in a Finnish birch plywood cabinet. It shall have one high excursion 10"x2.5" driver.

The cabinet dimensions shall be 285 mm H x 525 mm W x 550 mm D (11.22" H x 20.67" W x 21.65" D), and it shall weigh 21 kg (47 lbs). Both models shall spec the same; the "i" version is intended for fix installation and the "t" version for touring applications. Both models shall be available in any RAL color paint.

Frequency response shall be 43Hz – 130Hz +/-3dB. The 1W/1m sensitivity shall be 97dB SPL and the peak output shall reach up to 125dB. The nominal impedance shall be 4 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's wired in parallel for the "t" version and one captive cable for the "i" version. All models shall be wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-.

The subwoofer shall be the NEXO ID S110i or ID S110t.

### **ID S210i & ID S210t**

The subwoofer shall be a band pass tuned design operating in a Finnish birch plywood cabinet. It shall have two high excursion 10"x2.5" drivers.

The cabinet dimensions shall be 285 mm H x 1050 mm W x 550 mm D (11.2" H x 41.3" W x 21.7" D), and it shall weigh 37 kg (82 lbs). Both models shall spec the same; the "i" version is intended for fix installation and the "t" version for touring applications. Both models shall be available in any RAL color paint.

Frequency response shall be 43Hz – 130Hz +/-3dB. The 1W/1m sensitivity shall be 103dB SPL and the peak output shall reach up to 131dB. The nominal impedance shall be 2 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's wired in parallel for the "t" version and one captive cable for the "i" version. All models shall be wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-.

The subwoofer shall be the NEXO ID S210i or ID S210t.

## **P8**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 8"x2.5" LF driver and 1.5" Polyimide annular diaphragm HF driver with a 1" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 100°. User shall be able to modify these dispersions by fitting an optional 110° x 60° horn. Users shall be able to rotate the optional horn in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 423 mm H x 276 mm W x 250 mm D (16.7" H x 10.9" W x 9.8" D), and it shall weigh 12 kg (26.5 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 66Hz – 20kHz at -6dB. The peak output shall reach up to 129dB. The system shall have an internal passive crossover with a crossover point of 1.6kHz. The nominal impedance shall be 8 ohms.

The speaker shall include 4 NL4 4-pole SPEAKON's, one per handle and two at the back, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. All NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO P8.

## **P8-I**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 8"x2.5" LF driver and 1.5" Polyimide annular diaphragm HF driver with a 1" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 100°. User shall be able to modify these dispersions by fitting an optional 110° x 60° horn. Users shall be able to rotate the optional horn in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 423 mm H x 276 mm W x 250 mm D (16.7" H x 10.9" W x 9.8" D), and it shall weigh 12 kg (26.5 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 66Hz – 20kHz at -6dB. The peak output shall reach up to 129dB. The system shall have an internal passive crossover with a crossover point of 1.6kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include one captive cable.

The full-range system shall be the NEXO P8-I.

## **P10**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 10"x2.5" Neodymium LF driver and 1.7" Polyimide dome diaphragm HF driver with a 1" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 100°. User shall be able to modify these dispersions by fitting an optional 110° x 60° horn. Users shall be able to rotate the optional horn in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 497 mm H x 384 mm W x 274 mm D (19.6" H x 15.2" W x 10.8" D), and it shall weigh 15 kg (33 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 63Hz – 20kHz at -6dB. The peak output shall reach up to 136dB. The system shall have an internal passive crossover with a crossover point of 1.5kHz. The nominal impedance shall be 8 ohms.

The speaker shall include 4 NL4 4-pole SPEAKON's, one per handle and two at the back, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. All NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO P10.

## **P10-I**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 10"x2.5" Neodymium LF driver and 1.7" Polyimide dome diaphragm HF driver with a 1" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 100°. User shall be able to modify these dispersions by fitting an optional 110° x 60° horn. Users shall be able to rotate the optional horn in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 497 mm H x 384 mm W x 274 mm D (19.6" H x 15.2" W x 10.8" D), and it shall weigh 15 kg (33 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 63Hz – 20kHz at -6dB. The peak output shall reach up to 136dB. The system shall have an internal passive crossover with a crossover point of 1.5kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include one captive cable.

The full-range system shall be the NEXO P10-I.

## **P12**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 12"x3.5" Neodymium LF driver and 3" Titanium diaphragm HF driver with a 1.4" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 60°. User shall be able to modify these dispersions by adding either a 90° by 40° magnetic flange or an asymmetrical magnetic flange whose vertical dispersion shall range from 60° to 100° and horizontal dispersion shall be +20°/-20°. Users shall be able to rotate the additional flanges in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 534 mm H x 432 mm W x 314 mm D (21" H x 17" W x 12.3" D), and it shall weigh 20 kg (44 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 60Hz – 20kHz at -6dB. The peak output shall reach up to 138dB for the passive mode and 140dB for the active mode. The system shall have an internal passive or active crossover with a crossover point of 1.5kHz. The nominal impedance shall be 8 ohms in passive mode, each component shall be 8 ohms in active mode. The choice between active and passive mode shall be made by means of a switch, without any tools.

The speaker shall include 4 NL4 4-pole SPEAKON's, one per handle and two at the back, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. All NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO P12.

## **P12-I**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch and poplar cabinet. It shall have one coaxial long excursion 12"x3.5" Neodymium LF driver and 3" Titanium diaphragm HF driver with a 1.4" exit mounted on a low distortion, constant directivity dispersion horn.

Default horizontal and vertical dispersions shall be 60°. User shall be able to modify these dispersions by adding either a 90° by 40° magnetic flange or an asymmetrical magnetic flange whose horizontal dispersion shall range from 60° to 100° and horizontal dispersion shall be +20°/-20°. Users shall be able to rotate the additional flanges in 4 directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 534 mm H x 432 mm W x 314 mm D (21" H x 17" W x 12.3" D), and it shall weigh 20 kg (44 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 60Hz – 20kHz at -6dB. The peak output shall reach up to 138dB. The system shall have an internal passive crossover with a crossover point of 1.5kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include one captive cable.

The full-range system shall be the NEXO P12-I.

## **L15**

The subwoofer shall be a band pass tuned design operating in a Baltic birch and poplar cabinet. It shall have one long excursion 15"x4" Neodymium driver.

The cabinet dimensions shall be 439 mm H x 550 mm W x 650 mm D (17.3" H x 21.7" W x 25.6" D) and it shall weigh 35 kg (77 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 40Hz – 110Hz at -6dB. The peak output shall reach up to 139dB. The nominal impedance shall be 4 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO L15.

## **PS8**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one 8"x2" self-shielded Neodymium LF driver and one 1.4" titanium diaphragm / self-shielded Neodymium HF driver with a 1" exit mounted on a low distortion, constant directivity asymmetrical dispersion horn.

Horizontal dispersion shall range from 50° to 100° and vertical dispersion shall be +25°/-30°. Users shall be able to rotate the horn in 4x directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 406 mm H x 250 mm W x 219mm D (15.98" H x 9.84" W x 8.62" D), and it shall weigh 7.5kg (16.5 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 69Hz – 19kHz +/-3dB or 62Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 96dB SPL and the peak output shall reach up to 125dB. The system shall have an internal passive crossover with a crossover point of 2.5kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. Both NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO PS8.

## **PS10R2**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one 10"x2.5" self-shielded Neodymium LF driver and one 1.7" PI diaphragm / Neodymium HF driver with a 1" exit mounted on a low distortion, constant directivity asymmetrical dispersion horn.

Horizontal dispersion shall range from 50° to 100° and vertical dispersion shall be +25°/-30°. Users shall be able to rotate the horn in 4x directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 515 mm H x 316 mm W x 277 mm D (20.28" H x 12.44" W x 10.91" D), and it shall weigh 14 kg (31 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 65Hz – 20kHz +/-3dB or 58Hz – 21kHz at -6dB. The 1W/1m sensitivity shall be 99dB SPL and the peak output shall reach up to 132dB. The system shall have an internal passive crossover with a crossover point of 2kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. Both NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO PS10R2.

## **PS15R2**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one high excursion 15"x3" Neodymium LF driver and one 3" Titanium diaphragm HF driver with a 2" exit mounted on a low distortion, constant directivity asymmetrical dispersion horn.

Horizontal dispersion shall range from 50° to 100° and vertical dispersion shall be +25°/-30°. Users shall be able to rotate the horn in 4x directions, in 90° increments, as required by the application.

The cabinet dimensions shall be 675 mm H x 434 mm W x 368 mm D (26.57" H x 17.08" W x 14.48" D), and it shall weigh 28 kg (62 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 50Hz – 18kHz +/-3dB or 47Hz – 18kHz at -6dB. The 1W/1m sensitivity shall be 102dB SPL and the peak output shall reach up to 136dB. The system shall have an internal passive or active crossover with a crossover point of 1.1kHz. The nominal impedance shall be 8 ohms in passive mode, LF shall be 8 ohms and HF shall be 16 ohms in active mode.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. Both NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO PS15R2.

## **LS400**

The subwoofer shall be a band pass tuned design operating in a Baltic birch cabinet. It shall have one high excursion 12"x 2.5" self-shielded Neodymium driver.

The cabinet dimensions shall be 338 mm H x 500 mm W x 406 mm D (13.31" H x 19.61" W x 15.98" D), and it shall weigh 19.5 kg (43 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 43Hz – 120Hz +/-3dB or 40Hz – 140Hz at -6dB. The 1W/1m sensitivity shall be 99dBSPL and the peak output shall reach up to 131dB. The nominal impedance shall be 6 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO LS400.

## **LS600**

The subwoofer shall be a band pass tuned design operating in a Baltic birch cabinet. It shall have one high excursion 15"x3" Neodymium driver.

The cabinet dimensions shall be 435 mm H x 688 mm W x 528 mm D (17.12" H x 27.09" W x 20.79" D), and it shall weigh 30 kg (66 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 40Hz – 110Hz +/-3dB or 38Hz – 120Hz at -6dB. The 1W/1m sensitivity shall be 101dBSPL and the peak output shall reach up to 138dB. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO LS600.

## **LS18 & LS18-E**

The subwoofer shall be a band pass tuned design operating in a Baltic birch cabinet. It shall have one high excursion 18"x4" driver.

The cabinet dimensions shall be 516 mm H x 675 mm W x 775 mm D (20.32" H x 26.1" W x 30.5" D), and it shall weigh either 55.5 kg (122.3 lbs) for the flying version, or 53 kg (117 lbs) for the "-E" version. Both versions shall be available in any RAL color paint.

Frequency response shall be 35Hz – 120Hz +/-3dB or 32Hz – 130Hz at -6dB. The 1W/1m sensitivity shall be 107dBSPL and the peak output shall reach up to 140dB. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The "E" version is not intended for flying.

The subwoofer shall be the NEXO LS18 or LS18-E.

## **RS15**

The subwoofer shall be a bass reflex design operating in a Baltic birch cabinet. It shall have two high excursion 15"x3" Neodymium drivers.

The cabinet dimensions shall be 454 mm H x 1074 mm W x 564 mm D (17.9" H x 42.3" W x 22.2" D), and it shall weigh 52 kg (115 lbs) without accessories. The cabinet shall be available in any RAL color paint.

Frequency response shall be either 35Hz – 100Hz at -3dB or 35Hz – 250Hz at -6dB for the omni mode or 35Hz – 100Hz at -3dB or 35Hz – 150Hz at -6dB for the directional mode. The 1W/1m sensitivity shall be either 105dB SPL for the omni mode or 103dB SPL for the directional mode and the peak output shall reach up to either 139dB for the omni mode or 136dB for the directional mode. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that pins 1+/1- are connected to the driver closer to the connector and pins 2+/2- are connected to the driver further from the connector for both omni and directional mode. Both NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO RS15.

## **RS18**

The subwoofer shall be a bass reflex design operating in a Baltic birch cabinet. It shall have two high excursion 18"x4" Neodymium drivers.

The cabinet dimensions shall be 520 mm H x 1238 mm W x 732 mm D (20.46" H x 49.92" W x 28.81" D), and it shall weigh 90 kg (199 lbs) without accessories. The cabinet shall be available in any RAL color paint.

Frequency response shall be either 31Hz – 100Hz, +/-3dB or 29Hz – 200Hz at +/-6dB for the omni mode or 31Hz – 100Hz, +/-3dB or 29Hz – 120Hz at +/-6dB for the directional mode. The 1W/1m sensitivity shall be either 107dB SPL for the omni mode or 105dB SPL for the directional mode and the peak output shall reach up to either 146dB for the omni mode or 143dB for the directional mode. The nominal impedance shall be 8 ohms.

The cabinet shall have two connection plates with 2 NL4 4-pole SPEAKON's on each, wired so that pins 1+/1- are connected to the driver closer to the connector and pins 2+/2- are connected to the driver further from the connector for both omni and directional mode. Both NL4's on each connection plate shall be wired in parallel to each other.

The subwoofer shall be the NEXO RS18.

## **GEOM620**

The line array module shall be a 2-way full-range system operating in a lightweight Polyurethane composite cabinet. It shall have one high excursion 6.5"x1.5" driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 6.5" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a BEA/FEA optimized hyperboloid reflective wave-source (HRW™) shall have a 1.5" PET diaphragm and a 1" exit.

Horizontal dispersion shall be either 80° or 120° with the addition of a flange kit and vertical coverage shall be 20°.

The cabinet dimensions shall be 191 mm H x 373 mm W x 260 mm D (8.22" H x 14.8" W x 11.1" D) and it shall weigh 9.7 kg (21.3 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 80Hz – 19kHz +/-3dB and 75Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 95dBSPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have a passive crossover frequency of 2kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.5°, 2°, 5°, 10°, 15° and 20°.

The line array module shall be the NEXO GEO M620.

## **GEOM6B**

The bass module shall be a band pass tuned design operating in a lightweight Polyurethane composite cabinet. It shall have one high excursion 6.5"x1.5" driver.

The cabinet dimensions shall be 191 mm H x 373 mm W x 260 mm D (8.22" H x 14.8" W x 11.1" D) and it shall weigh 7.6 kg (16.8 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 75Hz – 120Hz +/-3dB and 70Hz – 1kHz at -6dB. The 1W/1m sensitivity shall be 94dBSPL and the peak output shall reach up to 125dB. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4-4 pole SPEAKON's, wired so that output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.5°, 2°, 5°, 10°, 15° and 20°.

The bass module shall be the NEXO GEO M6B.



## **GEOM1012 & GEOM1025**

The line array module shall be 2-way full-range system operating in a Lightweight Polyurethane composite cabinet. It shall have one high excursion 10"x2.5" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 10" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a BEA/FEA optimized hyperboloid reflective wave-source (HRW™) shall have a 2.5" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 12° for the "12" module and 25° for the "25" module. Horizontal dispersion shall be either 80° or 120° with the addition of a magnetic flange kit for both modules.

The cabinet dimensions shall be 288 mm H x 531 mm W x 404 mm D (11.3" H x 20.9" W x 15.9" D) and it shall weigh 21 kg (47 lbs) for both modules. Both modules shall be available in any RAL color paint.

Frequency response shall be 59Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 100dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive crossover with a crossover point of 1.3kHz. The nominal impedance shall be 8 ohms.

The connector panel shall include 2 NL4-4 pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1-. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.6°, 1.6°, 3.3°, 6.3°, 9.5°, 12.5°, 16°, 20° and 25°.

The line array module shall be the NEXO GEO M1012 or GEO M1025.

## **GEOM1012-I & GEOM1025-I**

The line array module shall be 2-way full-range system operating in a Lightweight Polyurethane composite cabinet. It shall have one high excursion 10"x2.5" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 10" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a BEA/FEA optimized hyperboloid reflective wave-source (HRW™) shall have a 2.5" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 12° for the "12" module and 25° for the "25" module. Horizontal dispersion shall be either 80° or 120° with the addition of a magnetic flange kit for both modules.

The cabinet dimensions shall be 288 mm H x 531 mm W x 404 mm D (11.3" H x 20.9" W x 15.9" D) and it shall weigh 21 kg (47 lbs) for both modules. Both modules shall be available in any RAL color paint.

Frequency response shall be 59Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 100dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive crossover with a crossover point of 1.3kHz. The nominal impedance shall be 8 ohms.

The cabinet shall include 2 fast connectors, wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.6°, 1.6°, 3.3°, 6.3°, 9.5°, 12.5°, 16°, 20° and 25°.

The line array module shall be the NEXO GEO M1012-I or GEO M1025-I.

## **MSUB15**

The subwoofer shall be a hybrid reflex design operating in a Baltic birch cabinet. It shall have one high excursion 15"x3" Neodymium driver.

The cabinet dimensions shall be 437 mm H x 531 mm W x 704 mm D (17.2" H x 20.9" W x 27.7" D) and it shall weigh 40 kg (88.2 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 40Hz – 120Hz at -6dB. The 1W/1m sensitivity shall be 101dB SPL and the peak output shall reach up to 136dB. The nominal impedance shall be 8 ohms.

The cabinet shall have two connection plates, one at the front and one at the back, with 2 NL4 4-pole SPEAKON's on each. All NL4's shall be wired so that output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. All NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO MSUB15.

## **MSUB15-I**

The subwoofer shall be a hybrid reflex design operating in a Baltic birch cabinet. It shall have one high excursion 15"x3" Neodymium driver.

The cabinet dimensions shall be 437 mm H x 531 mm W x 704 mm D (17.2" H x 20.9" W x 27.7" D) and it shall weigh 40 kg (88.2 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 40Hz – 120Hz at -6dB. The 1W/1m sensitivity shall be 101dB SPL and the peak output shall reach up to 136dB. The nominal impedance shall be 8 ohms.

The cabinet shall include two fast connectors at the front and two fast connectors at the back. All fast connectors shall be wired in parallel to each other.

The subwoofer shall be the NEXO MSUB15-I.

## **GEOM1210 & GEOM1220**

The line array module shall be 2-way full-range system operating in a Lightweight Polyurethane composite cabinet. It shall have one high excursion 12"x3" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 12" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a BEA/FEA optimized hyperboloid reflective wave-source (HRW™) shall have a 3" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 10° for the "10" module and 20° for the "20" module. Horizontal dispersion shall be either 80° or 120° with the addition of a magnetic flange kit for both modules.

The cabinet dimensions shall be 370 mm H x 700 mm W x 446 mm D (14.6" H x 27.6" W x 17.6" D) and it shall weigh 34 kg (75 lbs) for both modules. Both modules shall be available in any RAL color paint.

Frequency response shall be 50Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 105dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive or active crossover with a crossover point of 1.1kHz. The nominal impedance shall be 8 ohms in passive mode, LF shall be 8 ohms and HF shall be 16 ohms in active mode. The choice between active and passive mode shall be made by means of a switch, without any tools.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.25°, 0.5°, 1°, 2°, 3.5°, 5°, 7°, 10°, 13°, 16° and 20°.

The line array module shall be the NEXO GEO M1210 or GEO M1220.

## **GEOM1210-I & GEOM1220-I**

The line array module shall be 2-way full-range system operating in a Lightweight Polyurethane composite cabinet. It shall have one high excursion 12"x3" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 12" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a BEA/FEA optimized hyperboloid reflective wave-source (HRW™) shall have a 3" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 10° for the "10" module and 20° for the "20" module. Horizontal dispersion shall be either 80° or 120° with the addition of a magnetic flange kit for both modules.

The cabinet dimensions shall be 370 mm H x 700 mm W x 446 mm D (14.6" H x 27.6" W x 17.6" D) and it shall weigh 34 kg (75 lbs) for both modules. Both modules shall be available in any RAL color paint.

Frequency response shall be 50Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 105dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive or active crossover with a crossover point of 1.1kHz. The nominal impedance shall be 8 ohms in passive mode, LF shall be 8 ohms and HF shall be 16 ohms in active mode. The choice between active and passive mode shall be made by means of a switch, without any tools.

The cabinet shall include 2 fast connectors, wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.25°, 0.5°, 1°, 2°, 3.5°, 5°, 7°, 10°, 13°, 16° and 20°.

The line array module shall be the NEXO GEO M1210-I or GEO M1220-I.

## **MSUB18**

The subwoofer shall be a bass reflex design operating in a Baltic birch cabinet. It shall have one high excursion 18"x4.5" Neodymium driver.

The cabinet dimensions shall be 525 mm H x 701 mm W x 704 mm D (20.6" H x 27.6" W x 27.7" D) and it shall weigh 55 kg (122 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 32Hz – 120Hz at -6dB. The 1W/1m sensitivity shall be 107dB SPL and the peak output shall reach up to 139dB. The nominal impedance shall be 4 ohms.

The cabinet shall have two connection plates, one at the front and one at the back, with 2 NL4 4-pole SPEAKON's on each. All NL4's shall be wired so that output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. All NL4's shall be wired in parallel to each other.

The subwoofer shall be the NEXO MSUB18.

## **MSUB18-I**

The subwoofer shall be a bass reflex design operating in a Baltic birch cabinet. It shall have one high excursion 18"x4.5" Neodymium driver.

The cabinet dimensions shall be 525 mm H x 701 mm W x 704 mm D (20.6" H x 27.6" W x 27.7" D) and it shall weigh 55 kg (122 lbs). The cabinet shall be available in any RAL color paint.

Frequency response shall be 32Hz – 120Hz at -6dB. The 1W/1m sensitivity shall be 107dB SPL and the peak output shall reach up to 139dB. The nominal impedance shall be 4 ohms.

The cabinet shall include two fast connectors at the front and two fast connectors at the back. All fast connectors shall be wired in parallel to each other.

The subwoofer shall be the NEXO MSUB18-I.

## **GEO S1210 & S1230**

The line array module shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one high excursion 12"x3" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 12" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF driver, mounted on a hyperboloid reflective wave-source (HRW™) shall have a 3" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 10° for the "10" module and 28.5° for the "30" module. Horizontal dispersion shall be either 80° or 120° with the addition of a flange kit for both modules.

The cabinet dimensions shall be 344 mm H x 675 mm W x 378 mm D (13.5" H x 26.5" W x 14.87" D) for the "10" module and 344 mm H x 675 mm W x 400 mm D (13.5" H x 26.5" W x 15.5" D) for the "30" module, excluding external rigging hardware in both cases. Cabinet weight shall be 28.05 kg (61.8 lbs) for the "10" module and 26.8 kg (59.1lbs) for the "30" module. Both modules shall be available in any RAL color paint.

Frequency response shall be 53Hz – 19kHz +/-3dB and 50Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 103dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive or active crossover with a crossover point of 1.1kHz. The nominal impedance shall be 16 ohms in passive mode, each component shall be 16 ohms in active mode.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. Both NL4's shall be wired in parallel to each other.

The inter-box angles on the external rigging shall be logarithmic in progression with angles at 0.2°, 0.5°, 0.8°, 1.25°, 2°, 3.15°, 5°, 6.25°, 8°, 10°, 16°, 22.5° and 30°.

The line array module shall be the NEXO GEO S1210 or GEO S1230.

## **GEO S1210-ST & S1230-ST**

The line array module shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one high excursion 12"x3" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 12" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF neodymium driver, mounted on a hyperboloid reflective wave-source (HRW™) shall have a 3" Titanium diaphragm and a 1.4" exit.

Vertical dispersion shall be 10° for the "10" module and 28.5° for the "30" module. Horizontal dispersion shall be either 80° or 120° with the addition of a flange kit for both modules.

The cabinet dimensions shall be 344 mm H x 675 mm W x 378 mm D (13.5" H x 26.5" W x 14.87" D) for the "10" module and 344 mm H x 675 mm W x 400 mm D (13.5" H x 26.5" W x 15.5" D) for the "30" module, excluding external rigging hardware in both cases. Cabinet weight shall be 28.05 kg (61.8 lbs) for the "10" module and 26.8 kg (59.1lbs) for the "30" module. Both modules shall be available in any RAL color paint.

Frequency response shall be 53Hz – 19kHz +/-3dB and 50Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 105dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal passive or active crossover with a crossover point of 1.1kHz. The nominal impedance shall be 16 ohms in passive mode, each component shall be 16 ohms in active mode.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. Both NL4's shall be wired in parallel to each other.

The inter-box angles on the external rigging shall be logarithmic in progression with angles at 0.2°, 0.5°, 0.8°, 1.25°, 2°, 3.15°, 5°, 6.25°, 8°, 10°, 16°, 22.5° and 30°.

The line array module shall be the NEXO GEO S1210-ST or GEO S1230-ST.

## **STM M46**

The line array module shall be a two-way full-range system operating in a Polyurethane composite low density cabinet. It shall have four flat membrane / high excursion 6.5"x1.5" LF drivers and four 2.5" Ketone Polymer diaphragm / Neodymium HF drivers with a 1.4" exit mounted on a hyperboloid reflective wave-source (HRW™).

Horizontal dispersion shall be 90° and vertical dispersion shall be 10°.

The cabinet dimensions shall be 350 mm H x 575 mm W x 715 mm D (13.78" H x 22.64" W x 28.15" D) and it shall weigh 59 kg (130 lbs). The cabinet shall be available in black paint.

Frequency response shall be 85Hz – 19kHz +/-3dB and 80Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 110dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal active crossover with a crossover point of 1.5kHz. Nominal impedance of each component shall be 16 ohms.

The connector panel shall include 2 NL8 8-pole and 1 NL4 4-pole SPEAKON's, wired so that LF-MF output is present on pins 3+/3-, HF output is present on pins 4+/4-; the two other pairs shall pass through to sub module and bass module via pins 1+/1- and 2+/2-. All SPEAKON's shall be wired in parallel.

The allowed inter-box angles on the external rigging shall be 0.2°, 0.5°, 1.2°, 2.5°, 5°, 7°, and 10°.

The line array module shall be the NEXO STM M46.

## **STM M28**

The line array module shall be a two-way full-range system operating in a Polyurethane composite low density cabinet. It shall have two 8"x2" Neodymium LF drivers with high excursion and two 2.5" Ketone Polymer diaphragm / Neodymium HF drivers with a 1.4" exit mounted on a hyperboloid reflective wave-source (HRW™).

Horizontal dispersion shall be either 90° or 120° with the addition of a flange kit and vertical coverage shall be 15°.

The cabinet dimensions shall be 234 mm H x 575 mm W x 653 mm D (9.2" H x 22.6" W x 25.7" D) and it shall weigh 37 kg (82 lbs). The cabinet shall be available in black paint.

Frequency response shall be 65Hz – 19kHz +/-3dB and 60Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 107dB SPL. Max output is configuration dependent on the number of cabinets in the line and their inter-box angles. The system shall have an internal active crossover with a crossover point of 900Hz. Nominal impedance of each component shall be 8 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that LF output is present on pins 1+/1- and MF/HF output is present on pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.2°, 0.8°, 2°, 4°, 8°, 10°, 12.5° and 15°.

The line array module shall be the NEXO STM M28.

## **STM B112**

The bass module shall be a band pass tuned design operating in a Polyurethane composite low density cabinet. It shall have one very high excursion 12"x4" Neodymium driver.

The cabinet dimensions shall be 350 mm H x 575 mm W x 715 mm D (13.78" H x 22.64" W x 28.15" D) and it shall weigh 59 kg (130 lbs). The cabinet shall be available in black paint.

Frequency response shall be 63Hz – 200Hz +/-3dB and 55Hz – 250Hz at -6dB. The 1W/1m sensitivity shall be 107dB SPL and the peak output shall reach up to 141dB. The nominal impedance shall be 16 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to subwoofer models via pins 1+/1-. Both NL4's shall be wired in parallel to each other.

The allowed inter-box angles on the external rigging shall be 0.2°, 0.5°, 1.2°, 2.5°, 5°, 7°, and 10°.

The bass module shall be the NEXO STM B112.

## **STM S118 & STM S118-E**

The subwoofer shall be a band pass tuned design operating in a Baltic birch cabinet. It shall have one very high excursion 18"x4.5" Neodymium driver.

The cabinet dimensions shall be 704 mm H x 575 mm W x 730 mm D (27.73" H x 22.64" W x 28.74" D) and it shall weigh either 85 kg (187 lbs) for the flying version or 61 kg (134 lbs) for the "-E" version. Both versions shall be available in black paint.

Frequency response shall be 27Hz – 85Hz +/-3dB and 23Hz – 100Hz at -6dB. The 1W/1m sensitivity shall be 109dB SPL and the peak output shall reach up to 143dB. The nominal impedance shall be 16 ohms.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that sub output is present on pins 1+/1-; the other pair shall pass through to mid-hi models via pins 2+/2-. Both NL4's shall be wired in parallel to each other.

The "-E" version is not intended for flying

The subwoofer shall be the NEXO STM S118 or STM S118-E.

## **45N12**

The loudspeaker shall be a 2-way full-range system operating in a Baltic birch cabinet. It shall have one high excursion 12"x3" Neodymium LF driver. Its performances are modified by a patented structure known as Phase Directivity Device, PDD™; the net effect of this structure reduces the acoustic spacing of each 12" by nearly half; in a word the PDD shall be a waveguide for the LF component. The HF Neodymium driver, mounted on a 22.5° hyperboloid reflective wave-source (HRW™), shall have a 3" Titanium diaphragm and a 1.4" exit.

The cabinet dimensions shall be 392 mm H x 492 mm W x 576 mm D (15.43" H x 19.37" W x 22.67" D), and it shall weigh 24 kg (53 lbs). The cabinet shall be available in black paint.

Frequency response shall be 55Hz – 19kHz, +/-3dB or 50Hz – 20kHz at -6dB. The 1W/1m sensitivity shall be 106dB SPL and the peak output shall reach up to 140dB. The system shall have an internal passive or active crossover with a crossover point of 1kHz. The nominal impedance shall be 8 ohms in passive mode, LF shall be 8 ohms and HF shall be 16 ohms in active mode.

The connector panel shall include 2 NL4 4-pole SPEAKON's, wired so that output is present on pins 2+/2-; the other pair shall pass through to sub-bass models via pins 1+/1- in passive mode; LF output shall be present on pins 1+/1- and HF shall be present on pins 2+/2- in active mode. Both NL4's shall be wired in parallel to each other.

The full-range system shall be the NEXO 45N12.

## **NXAMP4X4MK2**

The amplifier shall be a class D four-channel power amplifier. The amplifier's power supply shall have an active power factor corrector (PFC). The power amplifier shall be capable of operation from a 100-240V, 50/60 Hz line. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 4500 W per channel with a 2 ohm load, 3300 W per channel with a 4 ohm load, 1900 W with an 8 ohm load, 9000 W two channels bridged into a 4 ohm load, and 6600 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +18 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

The amplifier shall employ forced-air cooling with three temperature-controlled fans, variable in speed. Air flow shall be from front to rear.

The front panel shall have a 4.3" touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be two POWERCON connectors. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

A remote-control software or hardware can access these parameters using standard Ethernet based protocols.

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use three standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 132 mm H (18.89" W x 19.76" D x 5.2" H). Weight shall be 24.9 kg (54.9 lbs).

The amplifier shall be NEXO NXAMP4x4MK2.

## **NXAMP4x2MK2**

The amplifier shall be a class D four-channel power amplifier. The amplifier's power supply shall have an active power factor corrector (PFC). The power amplifier shall be capable of operation from a 100-240V, 50/60 Hz line. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 2500 W per channel with a 2 ohm load, 1900 W per channel with a 4 ohm load, 1200 W with an 8 ohm load, 5000 W two channels bridged into a 4 ohm load, and 3800 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +16 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

The amplifier shall employ forced-air cooling with three temperature-controlled fans, variable in speed. Air flow shall be from front to rear.

The front panel shall have a 4.3" touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be one POWERCON connector. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

A remote-control software or hardware can access these parameters using standard Ethernet based protocols.

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use two standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 88 mm H (18.89" W x 19.76" D x 3.46" H). Weight shall be 16.1 kg (35.3 lbs).

The amplifier shall be NEXO NXAMP4x2MK2.

## **NXAMP4x1MK2**

The amplifier shall be a class D four-channel power amplifier. The amplifier's power supply shall have an active power factor corrector (PFC). The power amplifier shall be capable of operation from a 100-240V, 50/60 Hz line. Quad power supply transformers are employed. The amplifier shall meet the following performance criteria.

Maximum power output with four channels driven shall be a minimum of 1300 W per channel with a 2 ohm load, 900 W per channel with a 4 ohm load, 600 W with an 8 ohm load, 2600 W two channels bridged into a 4 ohm load, and 1800 W two channels bridged into an 8 ohm load. Typical harmonic distortion (THD+N) shall be 0.01% at 20 Hz - 20 kHz, half power. Frequency response shall be from 20 Hz to 20 kHz (max +1dB, typ+0 dB, min -1 dB) at 8 ohms. The balanced inputs shall have a minimum impedance of 20k ohm. The input sensitivity shall be +13 dBu. The unweighted signal to noise ratio over the range of 20 Hz – 20 kHz shall be 110dB, referenced to full output. Built-in protection circuitry shall monitor voltage and current levels to minimize potential damage from overloads, and disable output during shorts, DC offset, or excessive operating temperatures exceeding 100° C.

The amplifier shall employ forced-air cooling with three temperature-controlled fans, variable in speed. Air flow shall be from front to rear.

The front panel shall have a 4.3" touchscreen with a 480 x 272 resolution and a rotary encoder. Rear panel input connectors shall be a 3-pin XLR connector for each channel and additional input connectors via the optional expansion cards. The XLR input shall be wired with pin 2 hot. Rear panel output connectors shall be four NL4 SPEAKON connectors and additional output connectors via the optional expansion cards. Rear panel power supply should be one POWERCON connector. The amplifier shall have a native dual Ethernet card which allows remote control. Moreover, extension cards shall allow four digital audio inputs to the amplifier among the following formats: Ethersound™, Dante™ or AES/EBU.

A GPIO connector shall provide digital communication used for sequential start up, amplifier monitoring or remote control and speakers' impedance fault indication, plus connection to an optional view-meter unit. A RS-232 port shall allow the connection to external automatic output power patching unit. The amplifier shall include three 64-bit multicore DSP with 32-bits/96 kHz A/D and D/A converters. The amplifier firmware shall allow the user to set up for each channel volume, delay, gain, ArrayEQ, 8-band parametric EQ, input patch (each of the four analog input and eventually the four analog output can be freely assigned and summed for each channel, with analog backup option and an alignment system for level and delay), GPIO modes, load monitor (setting pilot tone frequency and level, plus low and high impedance limit for each channel for alert triggering). It shall also allow the user to select on each channel the NEXO speaker of its choice, including bridge mode and crossover frequency.

A remote-control software or hardware can access these parameters using standard Ethernet based protocols.

The amplifier shall conform to the latest EU RoHS hazardous substances and WEEE directives. The amplifier shall be certified to meet Underwriters Laboratories Inc.'s safety requirement UL60065 and Intertek ETLSEMKO standard EM60065:2014 at 2 ohms.

It shall use two standard rack-spaces and its dimensions shall be 480 mm W x 502 mm D x 88 mm H (18.89" W x 19.76" D x 3.46" H). Weight shall be 15.7 kg (33.1 lbs).

The amplifier shall be NEXO NXAMP4x1MK2.



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