

# A&E SPECIFICATIONS

# STM



## **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 850 Hz. 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.

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The logo for NEXO, featuring the word "NEXO" in a bold, black, sans-serif font. The letter 'X' is stylized with a diagonal slash through it.