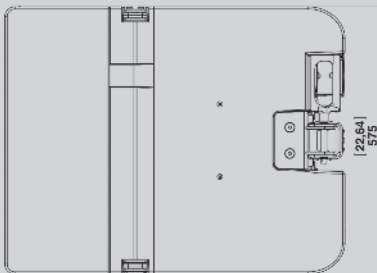
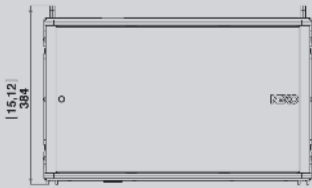
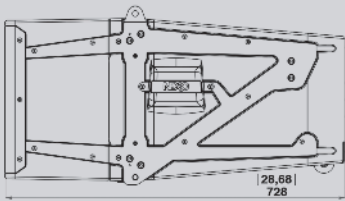


# STM M46 Main Module

# NEXO

**STM** Scale Through Modularity



## Key Features

- 4 x 6.5 inch LF/MF Drivers
- 4 x HF Compression Drivers
- 145dB peak SPL
- Frequency response: 85Hz-20kHz
- H350mm/W575mm/D715mm
- 59Kg/130lb
- Dispersion 90° H x 0-10° V

## System Applications

- Part of a modular, mobile sound system for applications ranging in size from small corporate events to large stadium concerts and festivals



Injection-moulded high-power cabinet with innovative components for enhanced performance. Flat-membrane drivers ensure completely even and full-range coverage over entire 90° horizontal dispersion. HF frequency range remains completely linear, using Ketone Polymer diaphragms that enhance tonal response and long throw.

From a simple groundstack to a compact, powerful line array, STM makes it quick and easy to 'clip together' the systems you need for any job.

Configuration possibilities include Main cabinets only, Main + Bass, Main + Sub, Main + Bass + Sub. The wide operating frequency range of the M46 main cabinets means that many speech or light music events can be run effectively with M46 alone, thereby removing the need for any extra cabinets. If programme material calls for low frequency extension, the 25-120Hz range of the S118 sub and the 55-200Hz range of the B112 bass offer the user complete freedom when configuring the system to achieve the desired frequency response or power.

Of course increased versatility brings a welcome improvement in return on investment. But with STM, that's just the start. From system storage and configuration, through transportation and rigging, to wiring and amplification, STM delivers important operational and logistical cost savings at every stage of the process.



Innovative PistonRig™ and REDLock™ rigging enables any size of system to be flown safely by one person. PistonRig™ allows pre-setting of inter-cabinet angle values. REDLock™ handle locks front rigging points from rear of cabinet. All adjustments made from one position at rear of cluster.



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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.

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## STM M46 with NXAMP 4x4

Frequency Response [a]	85Hz – 19kHz ±3dB
Usable Range @-6dB [a]	80Hz – 20kHz
Sensitivity 1W @ 1m [b]	110dB SPL Nominal
Nominal Peak SPL @ 1m [b]	145dB Peak
Dispersion [c]	90° Horizontal x 0-10° vertical
Crossover Frequency	1.5 kHz
Nominal Impedance	LF-MF:16Ω (12 Ω min) – HF: 16Ω (12 Ω min)
Amplified Controller	NXAMP4x4 - 3xSTM M46 in parallel on 2 NXAMP4x4 channels - 2x4000W/2Ω

## PRODUCT FEATURES

Components :	LF-MF: 4 x 6.5" (17cm) 16 Ω flat membrane high excursion drivers. HF: 4 x 2.5" voice coil, 1.4" throat Neodymium 16 Ω drivers, Keton Polymer diaphragm
Height x Width x Depth	350 x 575 x 715 mm – 13.78" x 22.64" x 28.15"
Weight : Net	59kg – 130lbs
Connectors	2 x NL8-MDV Speakon 8 poles (in/out) & 1 x NLT4-MDV Speakon 4 poles (to STM S118 and B112)
Construction	PU Composite Low Density – Polyurethane water based black coating
Fittings:	Handles 3 handles (2 sides and 1 rear) Front Perforated Dark Grey Metal Grille
Rigging	Integral 3 points flying system. Intercabinet angle adjustments from 0.2° to 10° in logarithmic steps.

## SYSTEM OPERATION

Electronic Controller	The NEXO NXAMP4x4 presets are precisely matched to the STM Series cabinets and include sophisticated protection algorithms. Using STM Series cabinets without a properly connected NEXO NXAMP4x4 will result in poor sound quality and can damage components.
Sub-Bass	STM S118 extends system low frequency response down to 25Hz
Speaker Cabling	1-/1+ : SUB - 2-/2+ : LF - 3-/3+ : LF-MF 4-/4+ : HF

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Half-Space Far Field for the STM S118 & B112 + NXAMP4x4.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Data are for speaker + amplified controller. Peak SPL is at clipping of NXAMP4x4.

[c] Directivity curves & data : obtained by computer treatment on off axis response curves.

E&OE January 2012.

### LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised 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.