



Configure. Manage. Update.

www.nexo-sa.com

Thinking. Inside the box.

NEXO



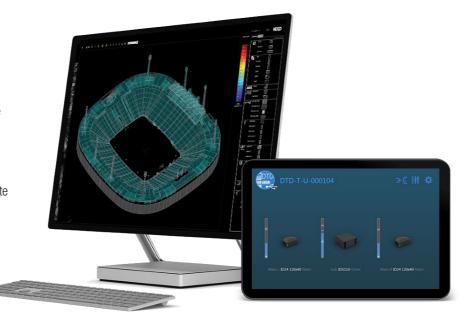


Choosing and arranging NEXO speakers.

In the beginning.

NS-1

Whether or not you already know what NEXO system you intend to use in your venue, NS-1 is the entry point to your project, helping you to configure any line source or point source from NEXO's catalog, thanks to intuitive yet powerful tools applied to your own geometry. NS-1 not only assists in achieving the best SPL coverage, but also certifies that mechanical constraints are satisfied. Finally, NS-1 enables you to create and present robust sound design proposals, including the speaker list, and also gain and delay to apply in the amplification and control chain.



Using Digital TD Controllers (DTD)? You need Dory.

Dory

The perfect controller for small configurations of PS, GEO M and ID speakers, the DTD is really easy to configure, thanks to its USB remote control application: Dory.

From a mobile or a desktop platform, Dory enables you to keep your DTD updated to the latest LOAD, and also to configure your system by selecting presets, patching the inputs, applying gain, delay, EQ and compression. In addition, Dory provides real-time monitoring of input, output and user compression levels.



Updating DTD

Configuring DTD

Monitoring DTD

With you at every stage

A powerful set of free software tools for every step of your workflow, from sound design to final event monitoring.



Preparing your NEXO devices.

NeFu

Your NEXO Powered TD Controller (NXAMP) should always be updated with the latest LOAD, which includes the device's firmware along with the presets required to achieve the best performance from your NEXO speakers. With NeFu, updating your NXAMPs and NXAMPmk2s is easy; when networked together, NEXO devices can be updated in parallel in a very short time.



Configuring and remote controlling your system.

NeMo

Native on the NXAMPmk2s and facilitated by extension cards on the NXAMPs and a DanteTM port on the DTD, NEXO's TD controllers and amplifiers are network-ready.

NeMo is a complete solution for controlling, monitoring and reviewing your system. Prepare your amplification and control chain offline, then remotely control and monitor the system online from a mobile or a desktop platform. Performance statistics from your NEXO devices can even be retrieved after a show.

Dante is a registered trademark of Audinate Pty Ltd

Preparing Amplifiers and TD controllers

Configuring NEXO devices

Monitoring speaker activity

Reviewing NEXO devices

Updating NXAMPs and NXAMPmk2s

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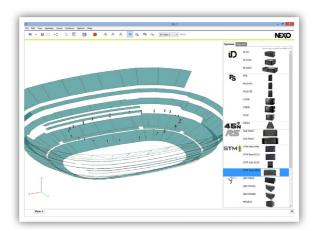




SketchUp 3D via Collada, Google Earth and STL files.

A powerful and intuitive system configuration and simulation tool ensuring uniform SPL coverage in any venue with any NEXO system.

Perfect coverage made easy



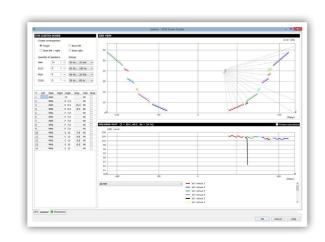
All NEXO speakers on tap

Once the geometry is defined, loudspeakers can simply be dragged and dropped into the project, and configured into flown or stacked clusters.

Surfaces

Sound pressure can be received differently on the venue surfaces. Venue items can be:

- Simple surfaces
- Standing-up or seated audience areas
- No audience areas, simply taken into account as obstacles
- Hidden to calculation.



Line-source calculations

NS-1 helps you to find the perfect series of angles for your clusters, by calculating acoustic pressure on the surfaces. Results can be displayed using NEXO's meaningful dB MIF, or other metrics of your choice.

Direct sound and time coherency

NS-1 performs direct sound calculations on your geometry. They allow you to tend towards the best speaker ratio, gains and positions to match your target coverage.

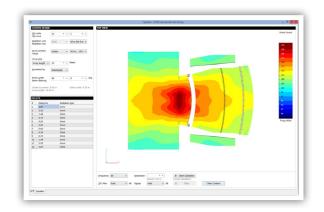
Furthermore, NS-1 makes it easy to align the delays of the speakers thanks to time-coherency calculations.

SketchUp is a registered trademark of Trimble in the United States. Ease is a registered trademark of AFMG Technologies GmbH. Collada is a trademark of the Khronos Group Inc. Google Earth is a trademark of Google.



Complex calculations

NEXO enjoys close collaboration with the world's leading experts in electro-acoustic simulation programming. NS-1 models the radiating behaviour of the speakers by spatially sampling them into a large number of monopoles and dipoles. In every mesh point of the venue's surfaces, the contribution of each one of the speaker monopoles is calculated for the frequency band of your choice. The simulation results are mapped to the surfaces, giving a 3D representation of the SPL coverage.



Sub design

NS-1 makes it easy to control the beam steering of horizontally arranged sub-arrays. Optimal electronic delays are calculated depending on the sub settings (omni/cardio,etc.), the beam width, and steering angle.

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Report editing

A complete speaker list, with specified positions, angles, gains, delays and pressure plots, can be exported from NS-1.

Fly safe

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For NEXO, safety is the number one priority. Capable of so much more than acoustic predictions, NS-1 also calculates the working load of the flown clusters, and gives you the green light.

NS-1's mechanical database is always double-checked by an independent expert. The advanced algorithm takes into account the hanging points, the bumper type and, most importantly, the angles between the speakers, providing an accurate result that is certified according to Eurocode 3 "Design of Steel Structure" by TÜV, the world leading certification company.

CLUSTER		EDIT SETTING	EDIT SETTINGS		WORKING LOAD - SAFETY FACTOR	
Cluster type	M1-2	Rigging Mode	-	Motors + Compression Ch: v	STM Cluster	
M46 (Main) Qty	14				% allowed working load (safety factor 4) 58	
Coupled columns	1	Bumper Inclina		pwards	Safety factor for 100% allowed working load 6.9	
Bumper angle	15.00 deg	Bumper Top	K2	beam + Ptilt		
Lower cabinet angle	-82.50 deg	Compression I	Davica C	ompression chain 1500 kg	CAUTION	
Cluster height (H)	4.46 m				READ USER MANUAL PRIOR TO OPERATION	
Cluster width (W)	0.60 m	M28 Mode	Te	ension	CHECK LOCAL REGULATIONS ON LOUDSPEAKER RIGGING SYSTEMS	
Cluster depth (D)	2.38 m 42.03 m				BOTH MOTORS MUST BE DIMENSIONED FOR TOTAL CLUSTER WEIGHT CHECK WITH WIND FORCES IF OUTDOORS	
Front rigging point height Rear rigging point height	42.03 m 41.72 m	Wind type	No.	n wind	CHECK WITH WIND FORCES IF OUTDOORS	
Lower cabinet height	37.63 m		_	2 km/h RR		
Lower capinet neight Distance between rigging points (A)	37.03 m 1.34 m	Wind speed				
Gravity center to front rigging point (A1)		Bottom secure	d No	0		
Gravity center to rear rigging point (A2)						
Clearance from front rigging point (C1)	0.05 m	ANGLE SEQUE	ENCE			
Clearance from rear rigging point (C2)	0.99 m	# De	eta	Sum		
Cluster weight (M)	898.40 kg	Bumper 15	5.00	15.00		
Weight on front rigging point (M1)	429.57 kg	1 2.5	50	12.50		
Weight on rear rigging point (M2)	468.83 kg	2 5.0	00	7.50		
,		3 5.0		2.50		
ALLOWED WORKLOADS		4 7.0		-4.50		
Bumper front rigging point R1	25 %	5 7.0		-11.50	La Company	
Bumper rear rigging point R2	28 %	6 7.0		-18.50		
Cabinet front connecting point S1 II	37 %	7 7.0		-25.50	~ <u> </u>	
Cabinet front connecting point S1 I	41 %	8 7.0		-32.50	intile " /	
Cabinet rear connecting point S2	58 %		0.00	-42.50 -52.50		
Cabinet side to front connection C1	49 %		1.00	-52.50 -62.50	Þ 	
Cabinet side to rear connection C2	57 %		1.00	-02.30 -72.50		
Bending moment on Internal Bar MI	53 %		0.00	-92.50 -82.50	IUIP I /	
Compression device	31 %	13 10	1.00	-82.50		
On cabinet connection to bottom bumper	31 %					
					; ; /	
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PS Speaker @ Mechanics						

Mechanics



Detailed Features



GENER/

Creating, opening, saving and duplicating NEXO NS-1 Project Files (.nexo, .nexo3). Project file includes speaker systems, venue items and simulated contours.

Accessing NEXO technical documentation (System Manuals, Structural Analysis, TÜV Certificates).

Importing venue as NEXO Venue (.nxv), Collada/Sketchup (.dae), 3D Systems (.stl), Google Earth (.kmz), Ease Audience/Face (.xar, .xfc), plain text (.txt). Exporting venue as NEXO Venue (.nxv), Ease Face (.xfc), or image.

Configuring Air Absorption

Expressing distances in Metres or Feet.

PROJECT 3D VIEW

Viewing a 3D representation of the venue's surfaces and speakers. Moving and rotating the camera.

Moving the speakers systems, venue planes or vertices using the mouse, or through a dialog (translation, rotation and/or predefined transformation like mirroring). Selecting and editing speaker systems or venue items.

Viewing or hiding the Direct Sound or Time Coherency contours mapped on the venue surfaces.

EDITING THE PROJECT

Adding speakers from the library by dragging and dropping. Choosing between Horizontally or Vertically Flown or Stacked Cluster, or Single Unit.

Naming and adding comments to speaker systems and venue items.

Duplicating speaker systems and venue items one or several times, applying transformations (translation, rotation, flip,...) to duplicate.

EDITING VENUE ITEMS

Creating surfaces as quadrangles (4 vertices) or polygons (custom number of vertices).

Assigning audience type to surfaces (no audience, surface, seated, standing, disabled).

Inserting side view or plane view drawing or any picture (.jpg, .png, .bmp) on a venue surface

Entering vertices using a Range Finder device (e.g. TruPulse 360).

EDITING SPEAKER SYSTEMS

Editing cluster arrangement and processing presets (setup on NXAMP), gains, delays and mute.

Specifying rig angle, angle sequence, steps between speakers, horizontal coverage, front/rear sub configuration, etc.

Viewing the side-view for the cluster (with radiation rays) and the venue surfaces (as well as audience levels). Viewing the sound pressure field in this cross-section.

Populating a pressure plot (sound pressure along distance on the surfaces), with various settings (dB MIF, dB A, dB Peak, SPL or fixed frequency).

Adding measure points, and viewing sound pressure dB level along with frequency as curve or bar graph, at this point.

Controlling beam-steering of horizontal or vertical sub-arrays. Calculating electronic delays depending on the steering angle and beam width.

Checking mechanical computations (dimensions, weight, forces, working load and safety factor) with various settings (bumper type, rigging point, wind,...)

SIMULATING

Calculating direct sound pressure field at audience level. Calculation is optimized depending on the selected frequency range, with surface shadowing options.

Calculating time coherency (i.e. time alignment quality), at low frequencies (subs to mains) or high frequencies (between mains).

Calculations on ISO frequency bands or broadband (Z, dB A, B, C or dB MIF), with user defined resolution, band-width, and SPL range (optional headroom). Choosing between fast or slow calculation time, for rough or precise simulation.

REPORT EDITING

Printing or exporting a configurable PDF containing:

- The equipment list (speakers and quantities)
- For each cluster, a side view, pressure plot and/or mechanics (angle sequence, electronics, horizontal coverage details,...)
- A picture of the venue with calculated contours.







NEXO

Nemo



One session, multiple functions

NeMo saves everything from the devices, groups and zones that you have created offline or online into a session. You can share this document with other NeMos, running on Mac, iPhone or iPad.



Full control at your fingertips

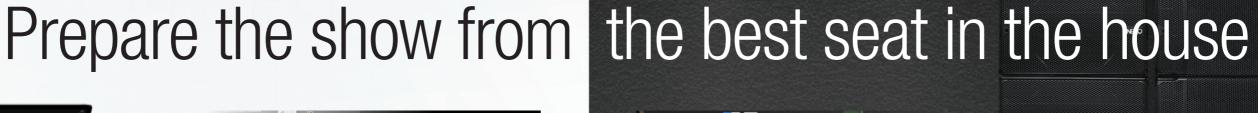
Thanks to intuitive and secure UI controls, many parameters can be edited while devices are offline or online, including preset selection, input patch, gains, delays and EQ. Several devices can be edited at once, and everything can be undone, even online.



Prepare your session offline

Creating and arranging devices

Offline device prototypes (NXAMP, NXAMPmk2 or DTD) can be created and grouped together in groups of devices, or zones of channels. All are represented on a map where they can be moved and stacked together, with a customizable background picture



A complete system management and remote control solution for networked

NEXO Powered TD Controllers (NXAMP), and Digital TD Controllers (DTD).



and match with online devices

Intelligent matching

NeMo suggests a matching between online and offline devices, that you can customize. NEXO devices can be easily identified thanks to flashing screens or LEDs. NeMo allows you to choose the synchronization direction: data is taken from or sent to the online devices.



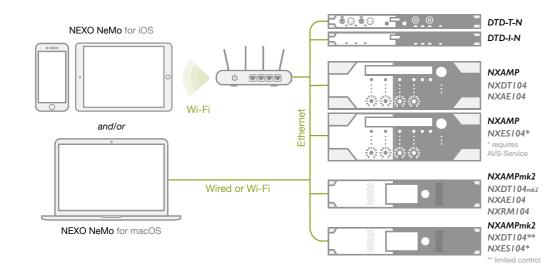




Easy to set up

NEXO introduces Direct Control: with your NXAMPs and NXAMPmk2s equipped with NXDT104, NXAE104 or NXRM104, and your DTD-Ns, you can simply connect your NEXO Devices to NeMo with Ethernet and/or Wi-Fi, and they are automatically discovered.

NXAMPs can also be equipped with NXES104, but AVS-Service is needed in addition to NeMo.





Checking up and monitoring

The Recap' Tab provides a full view of the input, preprocessing and output channels of the system. It makes it easy to perform a system check, by isolating the output channels one after another.

It's also the perfect view to monitor the input and output levels and the channel status, as well as to check the preset and settings.



Never miss a thing

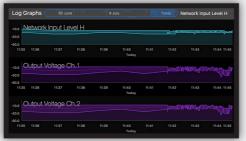
NeMo comes with a powerful logging and alerting system.

When online, alerts are reported and conditional red alerts can be activated.

A Log can be recorded and displayed in real-time to review useful information about the devices and their usage. Recorded parameters include levels, protections, temperatures, currents, voltages and errors.

Alert Reports and Log Records can be exported as files for further analysis, or even emailed regularly.





Detailed Features

GENERA

Creating, saving and sharing sessions (.nemo), containing devices and their parameter values, as well as groups and zones.

Connecting to the network using one or several network adapters (wired or Wi-Fi). Automatic discovery of compatible devices

Muting, soloing and locating the devices and channels from almost anywhere in the application (Selector, Network Tab, Recap Tab and Control Tab).

Accessing a fully configurable Live mode, where user interaction is limited.

Undo/redo and copy/paste on most functions, offline and online.

Presets library can be automatically downloaded from the internet or from the online devices.

Demo mode to test the application.

Supported plateforms: macOS 10.11 or later, IOS 10.0 or later

Pricing: available for free on the App Store and Mac App Store

COMPATIBLE DEVICES (DIRECT CONTRO	Maximum number of remote control sessions		
NXAMP with NXAE104, NXDT104 or NXDT104mk2	2		
NXAMPmk2 with NXAE104, NXDT104**, NXDT104mk	2		
DTD-T-N, DTD-I-N		1	
Recommended maximum number of devices	NeMo for macOS: 128	NeMo for iOS: 8	

COMPATIBLE DEVICES (AVS-SERVICE)	Maximum number of remote control sessions		
NXAMP with NXAE104, NXDT104, NXDT104mk2 or NX		32	
NXAMPmk2 with NXAE104, NXDT104**, NXDT104mk		32	
Recommended maximum number of devices	NeMo for macOS: 128	NeMo for iOS: 128	

**limited contro

Automatic matching based on history, or custom matching; viewing devices ID and previews. Device IDs can be edited while offline.

Matching from NeMo to online devices or reversely, on a common or individual device basis.

NETWORK TAB

Grouping devices or channels into groups and zones, for multi-device control.

Visualizing and positioning devices, groups of devices and zones of channels on 2D maps.

Adding custom background pictures, editing pictures' position, blurriness and opacity.

Muting, soloing or locating devices, groups and zones, monitoring input or output levels, and channel status (sense, peak, protect).

RECAP TAB/QUICK MUTE SOLO

Muting, soloing and locating individual channels. Solo can be exclusive or cumulative

Monitoring levels, status (sense, peak, protect) and parameter values (volume, delay, EQ...) of individual channels

Configurable list of displayed parameter values.

CONTROL, SETUP AND SCENE TABS

Editing parameters of one or several device(s), channel(s), group(s) or zone(s), in absolute or relative way.

Selecting presets from NEXO factory setups, or per-channel custom setups.

Patching input channels to preprocessing channels and to output channels.

Viewing and editing parameters including volume, gain, delay, headroom and array-EQ.

Viewing and editing all NXAMPmk2 Settings parameters (screen appearance, sleep settings, GPIO)

Locking and unlocking front panel or remote control of NEXO devices.

Viewing and editing EQ and user compressor. EQs can be saved in the EQ Library, that can be exported and imported (.nxeq).

Saving and recalling scenes. Scenes can be saved in the Scenes Library, as well as copied, pasted, exported and imported (.nxscenes)

LOG AND ALERTS

Recoding, visualizing and exporting a log of all the values of the online NEXO devices (including temperatures, voltages, currents, warnings...).

Viewing and exporting alerts (connections, disconnections, alerts and errors).

Configuring red alerts with value and time thresholds on many parameters of NEXO devices.

Periodically emailing log and alert reports.











A highly intuitive remote control solution for any NEXO Digital TD Controller (DTD) over USB, available on desktop and mobile platforms.

Because every hero needs a sidekick





Selecting preset

Take full advantage of NEXO's advanced speaker processing by using Dory to select the correct preset for the system you are using with the DTD.

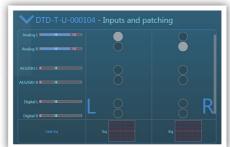
Choosing audio sources and patching

A wide range of audio sources can be selected for the stereo inputs: analog, AES/EBU, Dante, or even USB.

Preprocessing EQ can be applied independently to L and R inputs.

Configuring output channels

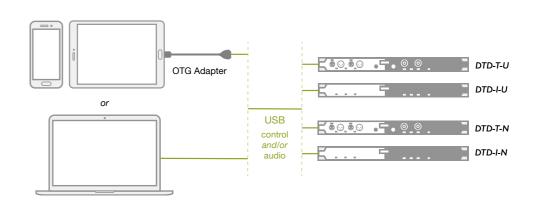
The R and L inputs can be independently patched to Main L, Main R or Sub output channels, on which gain and delay can be edited. A user compressor can be applied in addition to NEXO protection and compression layer.



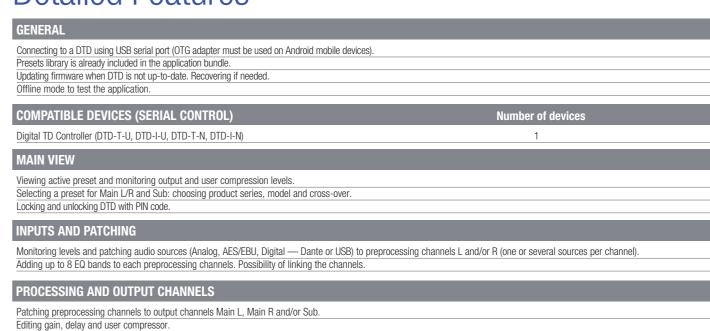


Truly 'Plug and Play'

Simply link your computer or Android device to the USB port of a DTD to take full control over it, and even stream audio.



Detailed Features



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NEXO

Nefu

The easy way to keep your NXAMP and NXAMP_{mk2} Powered TD Controllers up to date.

Simple. Fast.



Updating in parallel

Now several NXAMPs can be updated at the same time, making the update process much faster. You can even start updating some devices while others are already being updated. NeFu has advanced upload mechanisms that enhance reliability.

Straight to the point

When connected over network or from a serial port, NEXO devices are automatically discovered. NeFu updates only the parts (NXAMP or extension card) needing to be updated to the selected LOAD version.



Detailed Features

Opening a LOAD file (.dld) and reviewing its content (included firmware versions for NXAMP and extension cards). Automatic discovery of NEXO devices on a network. Filtering the available network interfaces.

Selecting one or several NEXO devices and, if needed, starting to update them and/or their extension cards, in parallel. Emailing log report to NEXO.

COMPATIBLE DEVICES	COMPATIBLE LOADS
NXAMP with NXAE104, NXDT104 or NXDT104mk2	Starting from LOAD3_23
NXAMPmk2 with NXAE104, NXDT104*, NXDT104mk2 or NXRM104 *only extension card can be updated	Starting from LOAD4_19

More software for NEXO systems

NEXO NXWin

Compatibility application to update NXAMP NXES104, NX241 and NX242. Latest version: 4.2.1.8

Supported platform: Windows Pricing: available for free, download link in NXAMPs https://nexo-sa.com/software

Supported platform: Windows Pricing: available for free on AuviTran's website http://www.auvitran.com

AuviTran AVS-Monitor

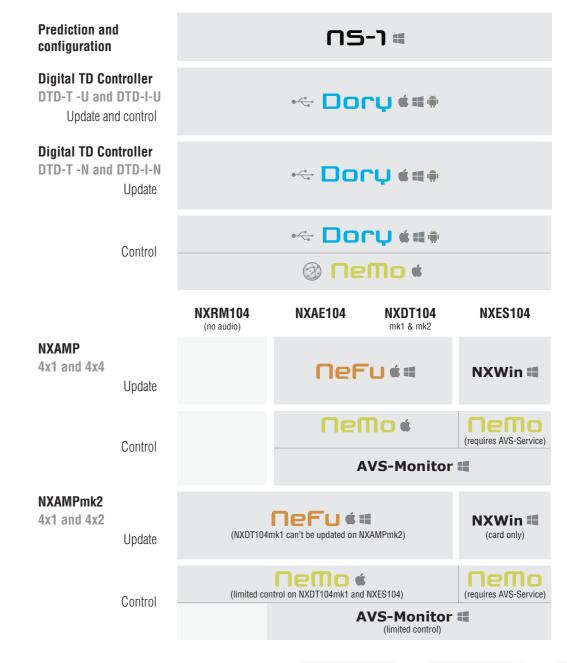
NXAMPmk2 over network.

Latest version: 5.11

Remote control application for NXAMP and

What do I need?

Discover the software tools you need for your project



Online Documentation

Download our Software QuickGuides at nexo-sa.com or contact us at technical@nexo.fr if you have a question







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