

# NXAMP<sub>MK2</sub> Powered TDControllers

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Thinking. Inside the box.





## NEXO and Yamaha collaborate to set new performance standards in power amplification

NEXO's expertise in DSP control for high-performance loudspeakers is unparalleled in the sound reinforcement industry. And Yamaha has an unrivalled heritage in developing highly efficient and reliable power amplification devices. So when the two collaborate to create a new range of powered controllers, the result is sure to be something special.



### Joseph Carcopino R&D Director, NEXO

A new version is always a challenge, especially when the original has been successful! But our Yamaha/NEXO mixed team of passionate engineers accepted this challenge, merging their know-how, culture, sensitivity, and finally delivering this NXAMP<sub>MK2</sub> that, when coupled with our acclaimed NeMo software, offers one of the top powering and processing solution worldwide.





## Ken Iwayama

Group Manager, PA Development Department, Yamaha

Our engineering team worked with NEXO R&D, implementing many new ideas to make this new generation of NXAMP deliver a significant improvement and upgrade on sound quality, power capability, efficiency, compactness, functionality, and reliability.

We believe that the NXAMP<sub>MK2</sub> superbly supports the NEXO sound, consistent with our passion for music.

# Formidable power. Precision control. Flexible networking.

## The perfect compact, light-weight power solution for NEXO systems

Available in 4 X 1300 Watts, 4 X 2500 Watts and 4 X 4500 Watts versions, the NXAMP<sub>MK2</sub> combines advanced signal processing with four state-of-the-art Class D amplifiers to create a flexible, light-weight powering and control solution for NEXO loudspeaker systems.

Ideal for use in fixed installations and touring, these powered controllers are easy to set up and quick to deploy, with all essential parameters readily accessible via a large colour touch-screen on the front panel and a comprehensive range of control and networking facilities on the rear panel.

Most importantly, the new NXAMP<sub>MK2</sub> achieves a whole new level of sound quality, partnering with NEXO speakers to deliver a whole new level of audience experience.



















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# 4 X 4500 Watts from a 3U rack



The Nexo NXAMP<sub>MK2</sub> ultra-low distortion Class D amplifiers combine 32-bit/96KHz converters and 64-bit signal processing to deliver significant advances in sound quality over the already highly regarded previous generation of NXAMPs. Bass is solid and highend definition is particularly impressive in a sonic performance that is both articulate and rich with detail. Even at low volumes, the sound is noticeably transparent and pure. The amplifiers integrate three new multi core DSPs providing a future-proofed hardware

platform, equipped to host new algorithms and run next-generation firmware updates for years to come.

With a mains voltage range of 100 to 240 Volts it means the amplifiers can be used anywhere in the world and run on all types of power generators. Robust power supplies use PFC (Power Factor Correction) technology to ensure maximum power conversion efficiency and that the current drawn is smoothed and free of

NeMo amplifier management software. In addition to the expansion spikes to limit the stress on the mains network at all times. A flexible audio input system encompasses four, high end analogue card slot, other rear panel connectivity includes RS232 serial inputs using cascaded converters for low output noise. Digital and GPIO ports along with Speakon outputs for each of the four channels. Occupying only 2U of rack space, the NXAMP4X1  $_{\mbox{\scriptsize MK2}}$  and inputs are also available through the rear panel expansion card slot offering optional AES/EBU, EtherSound<sup>™</sup>, Dante<sup>™</sup>, Dante<sup>™</sup> NXAMP4X2<sub>MK2</sub> weigh in at just 15.7kg and 16.1kg respectively, + AES/EBU or AES67 inputs, all with automatic analogue fallwhile the 3U NXAMP4X4<sub>MK2</sub> weighs 25kg. back. A native dual Ethernet card facilitates remote control and daisy-chaining of amplifiers, and seamless integration with Nexo's







# **Fingertip control**

## A large colour touchscreen makes set-up easy

With ease of use central to the NXAMP<sub>MK2</sub> design philosophy, a large colour 4.3" LCD touch-screen provides access to all main functions directly from the amplifier front panel.

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Array-EQ High		Array-EQ High	Array-EQ High
0.0 dB		1.5 dB	1.5 dB
Array-EQ Low		Array-EQ Low	Array-EQ Low
0.0 dB		0.0 dB	0.0 dB
S118 OM	п	M28 LF MAIN	M28 HF MAIN
30-120		120-900	900-20k

Array EQ Two settings of Array-EQ allow for a better compensation of ground, stacking and line array effect, on Low and High frequencies.



**Mute and Meters** NXAMP<sub>MK2</sub> has two layers of mute: per-channel and overmute. Voltage and Protection Meters give relevant information on System Headroom.



### **User EQ**

In addition to cabinet-related EQ and Array EQ, User EQ provides up to 8 bands per channel, editable on one or several channels at once.



**EQ Detail** User EQ is drawn in full screen for a better experience. The band type, frequency, gain, Q and on/off status can be easily edited.



### **Inactive Screen**

Displayed after a time interval of inactivity, this screen can be customised with a user image configured with NeMo.



### Inputs

The inputs view displays input levels and offers input alignment options. The input patch can be intuitively edited.



Load Monitoring

Load Monitoring can be enabled and configured on every channel, to ensure speakers are monitored in real time and ready to use.

Dismiss LOG Avg.	on 1 hour	Rese	t Min Ma	ax 🔌
< > Global			Max	Instant
Mains Voltage (V)	210	243	255	216
Power Supply Voltage (V)	147	154	220	151
Amp Protect	No	1%	Yes	No

Log Many parameters and alerts are always recorded into the log, providing valuable information on the NXAMP<sub>MK2</sub> usage.



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B112	л	M46 MF	M46 HF
	п.		
	B112	TRACTOR INC.	B112 🎵 M46 MF

## Scene

Parameters (volume, delay, gain, EQ, input patch, setup...) can be saved in one of the 32 scene slots, and can be copied and pasted.



## Setup

NEXO or Custom Setup can be edited on one or several channels. The cabinet name, its cross-over and output patch are always visible.



### System Headroom The System Headroom page gives real time information on amplifier levels and speaker temperature, displacement and protection levels.



**Volume, Gain and Delay** Navigate through menus and edit volume, gain (-18 to +18 dB) and delay (up to 1 second) on one or several channels at once.



# Total system management control For macOS and iOS

A large number of NXAMP<sub>MK2</sub> amplifiers can be conveniently controlled via a wired or WiFi network from a Mac or iOS device using NEXO's system management software NeMo. Following the automatic 'discovery' of available amplifiers, sessions can be easily prepared by arranging devices on a map over a background image, and groups of devices and zones of channels can be created. Sessions can be prepared both online and offline.

NeMo enables editing of parameters of several devices or channels simultaneously, using groups and zones. A library of presets makes set-up guick and easy, and settings like Volume and Delay can be

changed absolutely or relatively. EQ can also be edited on several channels, enabling different layers of EQ, and parameters can be copied and pasted, and changes undone and redone, even online. A Quick Mute / Solo page makes it easy to check the system by soloing every channel and is perfect for checking settings and monitoring levels. Finally, a powerful Logging and Alerting system covers levels, protections, temperatures, currents, voltages and errors

NeMo can be used via the optional extension cards, or via the included Remote Control card.

# ProVisionaire **Customisable control** panel software

Remote iOS control for Yamaha and NEXO installed sound systems

By simply dragging and dropping widgets such as faders and switches onto a screen. Yamaha's ProVisionaire software makes it possible to create an ideal original control panel dedicated to the applications and functions required for an installation project. No programming know-how or experience is necessary.

ProVisionaire can control a wide range of Yamaha PA equipment such as MTX/MRX series signal processors, CL/ QL/TF series digital mixers and Rio series I/O boxes, alongside NXAMP<sub>MK2</sub> powered TD controllers (ProVisionaire Control Version 3.0 or later) to provide a total Yamaha and NEXO control solution.









## Firmware Updates

Firmware updates can be downloaded from the NEXO website and installed via the RJ45 port on the Remote Control card. Firmware update software can run on both Windows and Mac and can download both first generation and MK2 NXAMP firmware simultaneously, its multithread architecture allowing downloading to multiple amplifiers to save time. There's a dedicated Firmware Update screen in the user interface which also displays the current Firmware version.

## **Typical Systems**

ID Series, PS8 and GE0 M6 systems powered by a single NXAMP4X1\_{MK2}





NXAMP4X1\_MK2 powering 3 X GEO M6 per side and 2 X LS18 in mono bridge

NXAMP4X1<sub>MK2</sub> powering 1 X PS8 and 1 X LS400 Sub per side

## **Typical Systems**

P12/L15 system and GEO M10 systems powered by a single NXAMP4X2\_MK2



NXAMP4X2 $_{\mbox{\scriptsize MK2}}$  powering 1 X P12 and 2 X L15 per side



NXAMP4X2 $_{\mbox{\scriptsize MK2}}$  powering 3 X GEO M10 and 2 X MSUB15 per side



NXAMP4X2<sub>MK2</sub> powering 3 X MSUB15 (one in cardio mode) and 6 X GEO M10





NXAMP4X1<sub>MK2</sub> powering 6 X GEO M6 per side



NXAMP4X2<sub>MK2</sub> powering 6 X GEO M10 per side

NXAMP4X1<sub>MK2</sub> powering 1 X ID24 and 1 X IDS110 Sub per side

# Typical Systems

## PS15 and GEO M12 systems powered by a single NXAMP4X4\_MK2



NXAMP4X4<sub>MK2</sub> powering 2 X PS15 + 2 X LS18 per side



NXAMP4X4<sub>MK2</sub> powering 3 X GEO M12 and 2 X MSUB18 per side



NXAMP4X4<sub>MK2</sub> powering 3 X MSUB18 (one in cardio mode) and 6 X GEO M12



NXAMP4X4<sub>MK2</sub> powering 6 X GEO M12 per side



# Specifications

POWER SPECIFICATIONS	NXAMP4x1M	IK2 NXAMP	<b>4х2</b> мк2	NXAMP4х4 <sub>мк2</sub>
Number of amplifiers channels		4 x amplifiers channel	s. 2 bv 2 bridgeable	
Max. output voltage (no load)	4 x 105 Volts	4 x 140	, , , ,	4 x 180 Volts
Max. output power (4 channels mode/8 Ohms load per channel)		4 x 1200		4 x 1900 Watts
Max. output power (4 channels mode/4 Ohms load per channel		4 x 1900		4 x 3300 Watts
Max. output power (4 channels mode/2 Ohms load per channel		4 x 2500	) Watts	4 x 4500 Watts
Max. output power (2 channels mode/8 Ohms load per channel)		2 x 3800	) Watts	2 x 6600 Watts
Max. output power (2 channels mode/4 Ohms load per channel)	2 x 2600 Watts	2 x 5000	) Watts	2 x 9000 Watts
Power consumption (Standby)		10 W	atts	
Power consumption (Idle)		200 V	/atts	
INPUT TO POWER OUT SPECIFICATIONS				
Frequency response		+/-1 dB from 20 H	z to 20 kHz	
Impedance / Input Sensitivity	20 K Ω / 13 dB			20 K Ω / 18 dBu
Dynamic Range / TDH + N		110 dB unweighted / Typical		
Latency		550 us on a fla		
Audio AD and DA Converters		32 bits @ 96	KHz	
Processing		3 x multicore 64 bits pr	ocessing DSPs	
BACK PANEL FEATURES		· · · · · · · · · · · · · · · · · · ·		
Analogue audio inputs		4 x balanced analogue		
Power outputs		4 x Neutrik Speakon		
RS232 port		1 x DB-9 connector dedicate		
GPIO port		connector with 5 x inputs and 8		
Expansion slot	For networking	g and digital audio cards, 4 x di	•	remote control
Mains sockets		2 x Neutrik Powercon I	VAC3 (2x 20A)	
USER INTERFACE AND CONTROLS				
USER INTERFACE AND CONTROLS Front panel buttons and knobs		Rotary Encoder with push and	backlight, tactile scree	n
		Rotary Encoder with push and a diagonal colour display, WQV		
Front panel buttons and knobs Display				
Front panel buttons and knobs				
Front panel buttons and knobs Display MAINS REQUIREMENTS	4.3 inches	s diagonal colour display, WQV	GA, 480 x 272, LCD to	uch screen
Front panel buttons and knobs Display	4.3 inches		GA, 480 x 272, LCD to PFC 100 - 240 Volts	uch screen
Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle)	4.3 inches Univ	s diagonal colour display, WQV rersal Power Supply with Active 190 V	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts	uch screen (50/60/Hz)
Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage	4.3 inches Univ 165 Watts	diagonal colour display, WQV	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts	(50/60/Hz) 270 Watts
Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms	4.3 inches Univ 165 Watts 1050 Watts	s diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts	(50/60/Hz) 270 Watts 3300 Watts
Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms DIMENSIONS AND CERTIFICATIONS	4.3 inches Univ 165 Watts 1050 Watts 1900 Watts	e diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V 3500 V	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts Vatts	(50/60/Hz) 270 Watts 3300 Watts 6350 Watts
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Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms DIMENSIONS AND CERTIFICATIONS Dimensions Depth	4.3 inches Univ 165 Watts 1050 Watts 1900 Watts 2U 19" Rack	e diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V 3500 V 2U 19" 502 mm	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts Vatts Rack (20")	(50/60/Hz) 270 Watts 3300 Watts 6350 Watts 3U 19" Rack
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Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms DIMENSIONS AND CERTIFICATIONS Dimensions Depth Weight Electrical safety certification	4.3 inches Univ 165 Watts 1050 Watts 1900 Watts 2U 19" Rack	e diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V 3500 V 2U 19" 502 mm s) 16.1 Kg (3 cULus, CB (CE),	GA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts Vatts Rack (20") 5.3 lbs) CCC, PSE, KC	(50/60/Hz) 270 Watts 3300 Watts 6350 Watts 3U 19" Rack
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Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms DIMENSIONS AND CERTIFICATIONS Dimensions Depth Weight Electrical safety certification EMC certification Green status EXTENSION CARDS CERTIFICATIONS Audio format Remote control Sta Number of input channels 4 x Dart Resolution / Sample rate 24 bits / 44 Audio Connectors 4 x RJ45 o Additional port	4.3 inches Univ 165 Watts 1050 Watts 1900 Watts 2U 19" Rack 2U 19" Rack 15.7 Kg (33.1 lbs UTM + AES/EBU IXAEDT ITM + AES/EBU IXAEDT	s diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V 2U 19" 502 mm s) 16.1 Kg (3 cULus, CB (CE), EN55032 / EN5 Compliant with F NXES104 Ethersound <sup>™</sup> based 4 24 bits / 48 KHz 2 x Ethercon <sup>™</sup> 1 x RJ45 2W from NXAMP	SA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts Vat	(50/60/Hz) 270 Watts 3300 Watts 6350 Watts 3U 19" Rack 24.9 Kg (54.8 lbs) (2(*) NXAE104 AES/EBU IP based 4 Hz 24 bits / 44.1~96 M 3 x XLR 2 x RJ45 VP 2W from NXAMP
Front panel buttons and knobs Display MAINS REQUIREMENTS Mains voltage Power consumption (Idle) Power consumption 1/8 max. / 2 Ohms Power consumption 1/4 max. / 2 Ohms DIMENSIONS AND CERTIFICATIONS Dimensions Depth Weight Electrical safety certification EMC certification Green status EXTENSION CARDS CERTIFICATIONS Audio format Panete Remote control Sta Number of input channels 4 x Dart Resolution / Sample rate 24 bits / 44. Audio Connectors 4 x RJ45 of Additional port Power supply 4W Dimensions & weight	4.3 inches Univ 165 Watts 1050 Watts 1900 Watts 2U 19" Rack 2U 19" Rack 15.7 Kg (33.1 lbs UTM + AES/EBU IXAEDT ITM + AES/EBU IXAEDT	s diagonal colour display, WQV rersal Power Supply with Active 190 V 1850 V 2U 19" 502 mm s) 16.1 Kg (3 cULus, CB (CE), EN55032 / EN5 Compliant with F NXES104 Ethersound <sup>™</sup> based 4 24 bits / 48 KHz 2 x Ethercon <sup>™</sup> 1 x RJ45 2W from NXAMP	AA, 480 x 272, LCD to PFC 100 - 240 Volts /atts Vatts Vatts Vatts Vatts Vatts Vatts Rack (20") 5.3 lbs) CCC, PSE, KC 5103-2 / FFC IOHS directive NXDT104MK Dante <sup>™</sup> IP based 4 24 bits / 48 K 2 x Ethercon <sup>™</sup> 1 x RJ45 3W from NXAM	(50/60/Hz) 270 Watts 3300 Watts 6350 Watts 3U 19" Rack 24.9 Kg (54.8 lbs) (2(*) NXAE104 AES/EBU IP based 4 Hz 24 bits / 44.1~96 M 3 x XLR 2 x RJ45 VP 2W from NXAMP

\*NXDT104 can be used as well, except that it is not possible to upgrade the NXAMP1w2 firmware. Default NXRM104 card should be put back for firmware update. As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

# Accessories





DMU

The DMU enables easy monitoring of all activity on the NXAMPMK2's audio inputs, with signal and power supply coming from the amplifier's GPIO port. Front panel features include four analogue XLR inputs plus links, three RJ45 ports for digital audio networking and LED VU meters.

# Network Cards



**AES/EBU** 

NXAEDT

Adds both AES/EBU and

Powered Controllers.

4 channels of DanteTM inputs

with Switched/Redundant

mode and 44.1kHz to 96kHz

digital audio support.

with buffered outputs and

support.



#### NXDT104mk2

The optional Dante card DanteTM inputs to NXAMPmk2 enables seamless integration of NXAMPMK2 into Dante audio networks. It receives 4 audio streams (24-bits / 48kHz) in the Dante or AES67 formats and allows remote 2 channels of AES/EBU inputs control from any computer on a LAN using TCP/IP commands. 44.1 kHz to 96kHz digital audio Its unique 3-port design can be used as an integrated 3 port gigabit switch or as two Dante redundant ports plus an optional third port for additional remote control.

The optional EtherSound card extracts 4 audio streams (24-bits / 48kHz) from the 2 X 64 channels of an ES100 EtherSound stream and features In and Out ports for easy daisy-chaining without an external switch and a third port for remote control and ASIO streaming.





#### DPU

The DPU optimises the NXAMPMK2's channel by channel preset selection by automatically routing its outputs to any of six output connectors on the DPU front panel. Cabinet names and bridging status are displayed alongside each output, making it easy to wire the system.



fail-safe relay.

2 X switched RJ45 ports

enable remote control and

easy daisy chaining.

updates.



NEX0

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