



Stage Monitoring Solutions



Pseries

45N
12

iD INSPACE
DEFINITION

nexo-sa.com

Thinking. Inside the box.

NEXO

A
Yamaha
Group
Company



From the concert stage to a global broadcast event

Powerful, flexible and directional monitoring for every application



Building on a global reputation for innovation in sound reinforcement systems for concerts and live events, NEXO stage monitoring solutions combine compact design, powerful sound and precision coverage with an unparalleled degree of versatility, delivering an excellent return on investment for sound contractors and rental companies.

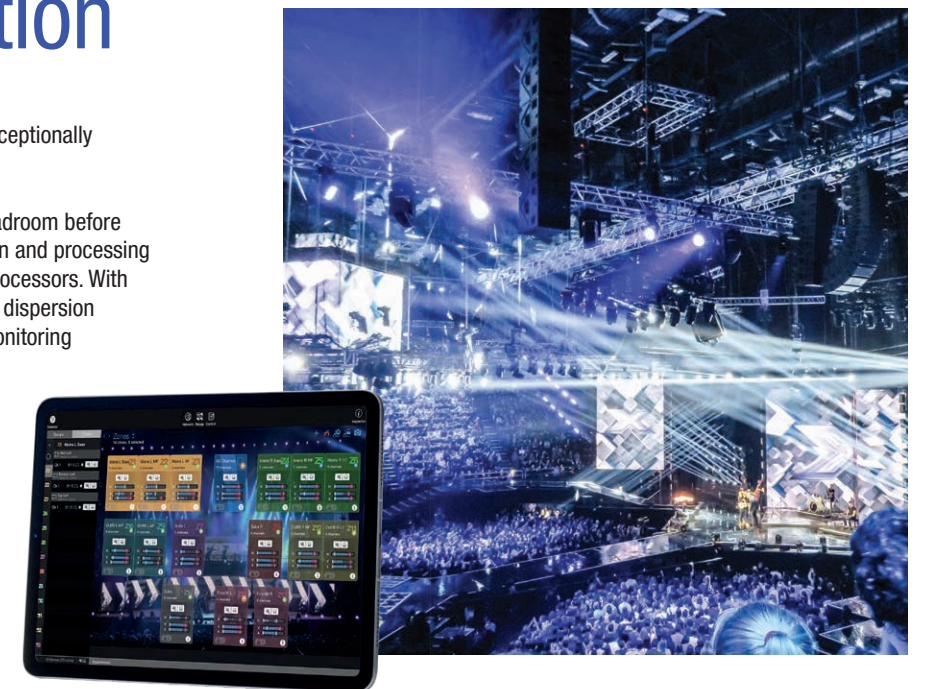
The ultra-compact ID Series and point source P+ wedges include ingenious features for quickly changing dispersion characteristics, making it easy to optimise coverage for every musician on the stage without having to pre-configure cabinets before the show. And the groundbreaking NEXO 45°N12 applies patented technology to create



the world's first arrayable wedge monitor, achieving exceptionally precise coverage in both vertical and horizontal planes.

All NEXO monitors share the characteristics of high headroom before feedback, with compact and cost-effective amplification and processing provided by NEXO's 4-channel NXAMPK2 powered processors. With phase aligned presets for every cabinet and with every dispersion setting, it's easy to quickly configure complex stage monitoring solutions combining cabinets from different NEXO ranges.

Compact, low-profile cabinets make NEXO monitors a first choice for prestigious global live events broadcasts. And NEXO's range of software tools includes the NeMo iOS app for the remote control and management of NEXO systems including monitors, completing a comprehensive monitoring solution that enhances both the experience of the performers, and the sound professionals running the show.



P+ series

Flexible wedge monitoring

With variable HF coverage



Building on NEXO's acclaimed expertise in compact, high-output, point source loudspeakers, P+ Series wedge monitors deliver pristine, full-range sound along with unparalleled versatility, thanks to an ingenious system for varying HF dispersion patterns for precise coverage of all types of musician, along with very high headroom before feedback.



P12



P15

P12 and P15 loudspeakers employ custom 12 and 15-inch LF/HF drivers in a coaxial configuration to deliver perfect phase alignment, exceptional clarity and a smooth response across the full frequency range. Cabinets can be used in both Active and Passive modes, and can also be pole mounted and used for further enhancing versatility.

Key Technologies

Narrow for guitarists or wide for brass sections, the dispersion characteristics of the P12 and P15 can be changed in seconds through the addition of optional magnetic flanges. The standard cabinets use a 60° x 60° horn with additional 90° x 40° and Asymmetrical (PS Type) 60° -100° x 40° flanges also available.



Recessed Speakon connectors

Changing the flanges is easy and requires no tools – the quick-release steel grille can be removed in seconds providing full access.

Connectivity is made easy by Speakon connectors recessed in the handles on both sides of the cabinet, in addition a pair of connectors on the rear panel.



Dispersion characteristics can be changed quickly without the need for tools

Key Features



139dB Peak SPL
(P15 / Passive Mode)



Dedicated L15 / L18
subs for drum / DJ
monitoring



Low-profile
cabinets



Variable HF
directivity



Coaxial, long-
excursion drivers



Active / Passive
modes



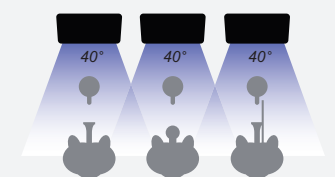
Drum / DJ Monitors

Dedicated L15 and L18 partner subs extend low frequency response down to 40Hz and 32Hz respectively. Subs are the same width as their corresponding main cabinets making it easy to configure drum and DJ monitoring systems, and side-fills.

Typical Systems



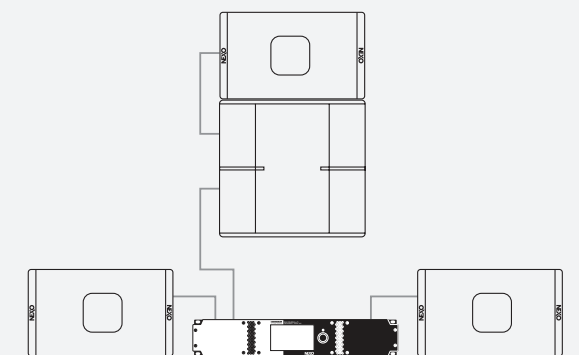
Guitarist Monitor: P15 wedge with 'PS horn' reversed
Drum Fill: P12 wedge with standard horn on L15 sub



Brass Section Monitors: P12 wedges with 90° x 40° horn for narrow horizontal coverage



Side Fills: P12 wedges (standard horn) on L15 subs on each side



Monitor System: 1 x P12 Wedge on 1 x L15 Sub (Drum Fill) + 2 x P12 Wedges powered by NXAMP4X1MK2

NEXO NXAMPMK2 Powered Controllers combine 4-channel amplification with phase-coherent processing presets for all NEXO cabinets, making it easy to configure P+ Series stage monitoring systems, or systems combining cabinets from other NEXO ranges.



The Stage Monitor, Redefined

Maximum level without feedback

The revolutionary NEXO 45°N12 brings all the benefits of line array technology to stage monitoring. Incorporating several ground-breaking technologies, the 45°N12 provides musicians, contractors and rental companies with a single, scalable solution to all their monitoring requirements.

Alongside the obvious benefits of a 'one box' inventory, the 45°N12 delivers extraordinary directivity and consistency of coverage, plus very high level before feedback. And if you need more SPL and wider coverage, just lock cabinets together to create monitor arrays.

The 45°N12 incorporates an innovative magnetic locking system, so it's easy to lock cabinets together to create monitor arrays where more SPL and wider coverage are needed, for instance in stereo pairs which are perfect for vocalists.

45°N12 monitoring systems are easily scalable and highly directional. High Frequency dispersion is 30° horizontal, 22.5° diagonal (coupling plane) and 60° vertical (asymmetrical -45° / +15°). Horizontal and diagonal dispersion is scalable in steps of 30° and 22.5° respectively when arrayed. And because SPL and frequency response are consistent up to 2.5 metres, musicians enjoy a new-found level of freedom to move around on stage, without compromising the quality of their monitoring.



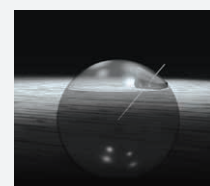
Key Technologies

The revolutionary design of the 45°N12 effectively locates the point source behind and beneath the cabinet, enabling the waveguide to radiate the high frequency at 45°.



The 45°N12 brings the advantages of line array technology to the stage monitor.

And unlike a conventional waveguide in which the exit is rectangular, the NEXO 45°N12's waveguide forms a smile. This takes into account the curvature at the surface of the virtual sphere at which the point source is at the centre. By creating a virtual acoustic source behind the cabinet and beneath the stage, there's no interference between wavefronts when cabinets are locked together to form monitor arrays.



The point source is effectively located behind and beneath the cabinet



The 'smiling' waveguide: A significant advance in stage monitor design

Key Features



A single solution for any musician



Maximum level without feedback



Arrayable



Low Profile Cabinet



Precision coverage



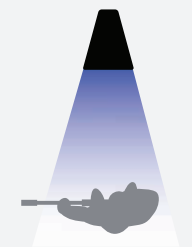
Advanced ergonomic design



Discreet monitoring for live events broadcasts

Because the coverage is so focussed, monitoring with the 45°N12 often results in lower acoustic power on stage, making it easier to achieve a good front of house mix. The compact, low-profile design is less conspicuous than conventional monitors, making the 45°N12 ideal for live TV production, and the cabinet features a non-slip base with a skid system and ergonomic handle for easy repositioning on stage.

Typical Systems



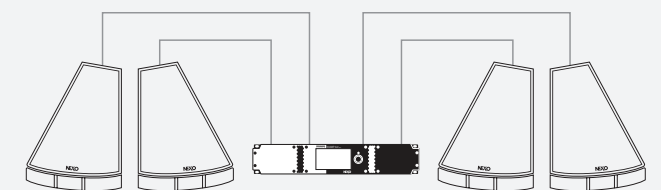
Guitarist / Vocalist Monitor



Drum Monitors



Keyboard Monitors



Monitor System: 4 x 45°N12 powered by NXAMP4X2MK2

NEXO NXAMP4X2MK2 Powered Controllers combine 4-channel amplification with phase-coherent processing presets for all NEXO cabinets, making it easy to configure 45°N12 stage monitoring systems, or systems combining cabinets from other NEXO ranges.



Ultra-Compact Monitoring



Powerful, full range sound, right where it's needed

A versatile, powerful and compact monitor, the ID24 measures just 132mm x 309mm x 233mm (5.2" x 12.2" x 9.2") and weighs only 6kg (13lbs). The ID24 uses twin 4 inch drivers in a V formation in a robust Polyurethane cabinet and achieves a frequency range of 95Hz to 20kHz with a peak SPL of 126dB.

Central to its versatility is a unique, user-rotatable horn that can be used to quickly select a range of HF directivity options, ensuring precision coverage of all types of musicians and performers, without the need to pre-configure cabinets before the show. No tools are required just a coin to adjust the horn rotator on the back panel.

Tough, kick-proof grilles complete a highly effective and discreet monitoring solution that puts powerful, full range sound right where it's needed.

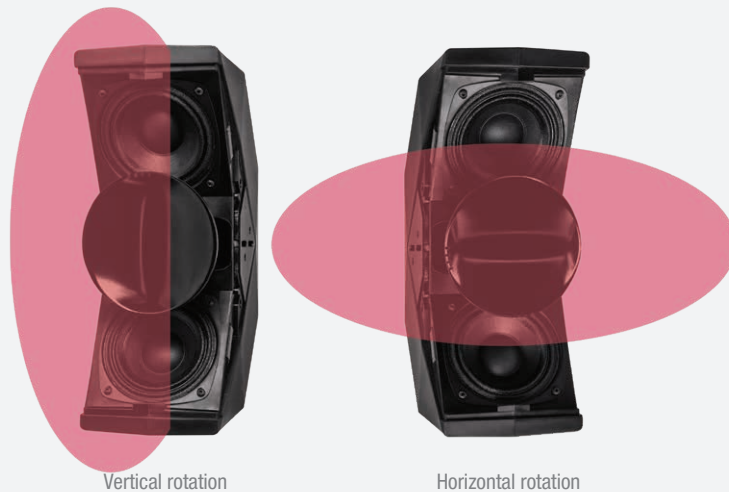
Key Technologies

To ensure precision coverage, the ID24 features a unique, user-rotatable horn that lets users select between 120° x 40° or 40° x 120° HF coverage, bringing unparalleled flexibility to the world of compact stage monitoring. And the versatility of the ID24 is further enhanced by a selection of horn options with dispersions including 60° x 60°, 90° x 40°, 120° x 40° and 120° x 60°.

The ID14 can be specified with a standard 100° x 100° horn, or as an asymmetric version with 90° x 140° dispersion.



Horn rotator (no tools required)



Vertical rotation

Horizontal rotation

Key Features



Sub-Compact Design



Maximum 126dB SPL (ID24)



Variable / Optional HF Coverage



Black, white or custom colours



Floor stand and pole mounting accessories



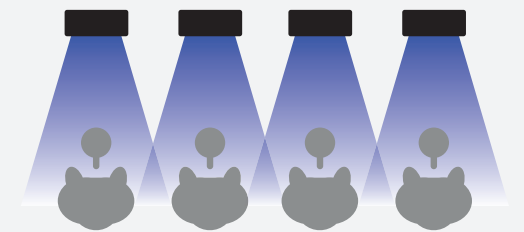
Consistent sonic signature



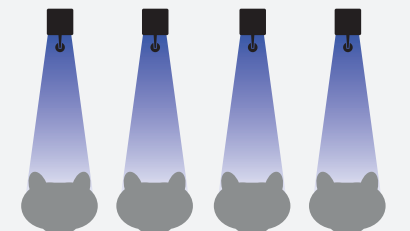
Personal Monitoring

Measuring just 130mm x 130mm x 120mm (5.1" x 5.1" x 4.7") and weighing only 1.7kg (3.7lbs), the ID14 can be mounted on a microphone stand to create a powerful and ultra-compact personal monitoring system. A choice of dispersal options ensures precision coverage, while a choice of black, white or custom colours enable cabinets to blend more seamlessly into stage and set designs.

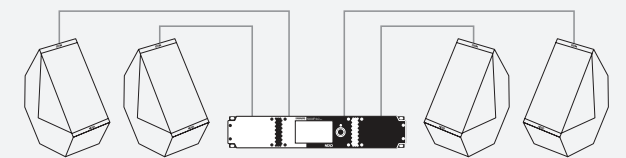
Typical Systems



Stage monitoring system using ID24



Personal monitoring system using ID14



Monitor System: 4 x ID24 powered by NXAMP4X1MK2

NEXO NXAMP4X1MK2 Powered Controllers combine 4-channel amplification with phase-coherent processing presets for all NEXO cabinets, making it easy to configure ID Series stage monitoring systems, or systems combining cabinets from other NEXO ranges.

Specifications

WITH NEXO PROCESSING	P12	P15	L15
Frequency Response @-6 dB	60 Hz to 20 kHz	57 Hz to 20 kHz	40 Hz to 120 Hz
Sensitivity 1W@1m	107 dB	108 dB SPL Nominal	
Peak SPL@1m	138 dB Peak (Passive mode) / 140 dB Peak (Active mode)	139 dB Peak (Passive mode) / 141 dB Peak (Active mode)	139 dB Peak
Operating Voltage	55 Vrms (150 Vpeak)	55 Vrms (180 Vpeak)	55 Vrms (150 Vpeak)
HF Dispersion (according to flanges)	60°x60° (Default) - 90°x40° (with 90x40 flange) - 60°~100°x40° (with PS flange)	60°x60° (Default) - 90°x40° (with 90x40 flange) - 60°~100°x40° (with PS flange)	
Crossover Frequency	60 Hz, 85 Hz, 120 Hz	57 Hz, 85 Hz, 120 Hz	85 Hz or 120 Hz
Nominal Impedance	Active: (8 Ω LF + 8 Ω HF) / Passive: 8 Ω	Active: (8 Ω LF + 8 Ω HF) / Passive: 8 Ω	4 Ω
Recommended Power	Active: (800 to 1250 W LF + 400 to 630 W HF) / Passive: 800 to 1250 W	Active: (800 to 1350 W LF + 400 to 630 W HF) / Passive: 800 to 1350 W	

PRODUCT FEATURES			
Components	1 x Coaxial Neodymium LF 12" 8 Ohms long excursion & HF 3" 8 Ohms	1 x Coaxial Neodymium LF 15" 8 Ohms long excursion & HF 3" 8 Ohms	1 x Neodymium 15" 4 Ohms long excursion
Number of ways	2 ways passive (2+/- P12) or 2 ways active (1+/1- LF, 2+/- HF) switchable	2 ways passive (2+/- P15) or 2 ways active (1+/1- LF, 2+/- HF) switchable	
Connectors	4 x NL4, 4 poles connectors (1 per handle + 2 at the back)	4 x NL4, 4 poles connectors (1 per handle + 2 at the back)	2 x NL4, 4 poles connectors.
Material	Custom made bent plywood of baltic birch and poplar	Custom made bent plywood of baltic birch and poplar	Custom made bent plywood of baltic birch and poplar
Finish	Black or White structural paint	Black or White structural paint	Black or White structural paint
Front Finish	Steel front grille + back mesh	Steel front grille + back mesh	Steel front grille
Height x Width x Depth	534mm x 432mm x 314 mm (21.0" x 17.0" x 12.3")	600mm x 483mm x 352 mm (23.6" x 19.0" x 13.9")	439mm x 550mm x 650 mm (17.3" x 21.7" x 25.6")
Weight: Net	20 kg (44 lbs)	23 kg (51 lbs)	35 kg (77 lbs)
Operating temperature range	0°C - 40 °C (32° F - 104° F)	0°C - 40 °C (32° F - 104° F)	0°C - 40 °C (32° F - 104° F)
Storage temperature range	-20 °C - 60 °C (-4 ° F - 140° F)	-20 °C - 60 °C (-4 ° F - 140° F)	-20 °C - 60 °C (-4 ° F - 140° F)

SYSTEM OPERATION			
Recommended powering solution	NXAMP4x2mk2 Powered TDcontroller: up to 2 x P12 per channel	NXAMP4x2mk2 Powered TDcontroller: up to 2 x P15 per channel	NXAMP4x2mk2 Powered TDcontroller: up to 2 x L15 per channel

WITH NEXO PROCESSING	45°N12	ID14	ID24
Frequency Response @-6 dB	55Hz - 19kHz ±3dB	120 Hz to 20 kHz	95Hz – 20kHz (+/- 6dB)
Sensitivity 1W@1m	106dB SPL Nominal / 104dB SPL Wideband	95 dB	100dB SPL Nominal
Peak SPL@1m	1 unit: 137 to 140dB Peak / 2 units: 140 to 143dB Peak	116 dB	126dB Peak
HF Dispersion (according to flanges)	30° Horizontal - Scalable 30° steps when arrayed. 22.5° Diagonal (Coupling Plane) - Scalable 22.5° steps when arrayed. 60° Vertical (Asymmetrical -45° / +15°)	100° x 100° or 90° x 140°	60° x 60°, 90° x 40° 120° x 40°, 120° x 60°
Crossover Frequency	LF-HF: 1kHz Active or Passive (internally configurable)	120, 150 Hz	95 Hz, 120 Hz, 150 Hz
Nominal Impedance	Active LF 8Ω, HF 16Ω. Passive 8Ω	16 Ω	16Ω
Recommended Power	Active LF 1000 to 1500 W 8Ω / HF 250 to 500 W 16Ω. Passive 1200 to 2000 W 8Ω	110 to 180 Watts / 16 Ohms (requires a 220 to 360 Watts / 8 Ohms amplifier)	200 to 500W

PRODUCT FEATURES			
Components	LF 1 x 12" (30 cm) high excursion Neodymium 8Ω driver. HF 1 x 3" voice coil, 1.4" throat Neodymium 16Ω compression driver on a 22.5° hyperboloid reflective wavesource.	1 x Coaxial Neodymium LF 4" long excursion & HF 1.4" diaphragm	LF: 2x4" – Long excursion – Neodymium magnet HF: 1" voice coil ½" throat – Neodymium magnet
Number of ways		2 ways passive	2 ways passive
Connectors	2 x NL4MP Speakon 4 pole	2 x NL4, 4 poles connectors (1+/1- Through / 2+/- ID14)	2 x NL4, 4 poles connectors (1+/1- Through /2+/- ID24)
Material	Main structure: Baltic Birch Ply finished with structured black coating. Rear lower and bottom section: Steel with dark grey coating. Front vents and rear upper section: Injected polyurethane front vents, black coating	Water-resistant Polyurethane	Water-resistant Polyurethane
Finish		Black: Raw sandblasted polyurethane / White: Structural paint	White: Structural paint Black: Raw sandblasted polyurethane
Front Finish	Perforated dark grey metal grille	Magnelis® front grill with back mesh	Stainless steel, Black paint
Height x Width x Depth	392 x 492 x 576 mm (15.43" x 19.37" x 22.67")	130 mm x 130 mm x 120 mm (5.1" x 5.1" x 4.7")	132 x 309 x 233mm (5.2" x 12.2" x 9.2")
Weight: Net	24 kg (53 lbs)	1.7 kg (3.7 lbs)	6 Kg (13 lbs)
Operating temperature range		0°C - 40 °C (32° F - 104° F)	0°C - 40 °C (32° F - 104° F)
Storage temperature range		-20 °C - 60 °C (-4 ° F - 140° F)	-20 °C - 60 °C (-4 ° F - 140° F)

SYSTEM OPERATION			
Recommended powering solution		nanoNXAMP4/4D: up to 2 x ID14 per channel	NXAMP4x1mk2 Powered TDcontroller: up to 4 x ID24 per channel

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