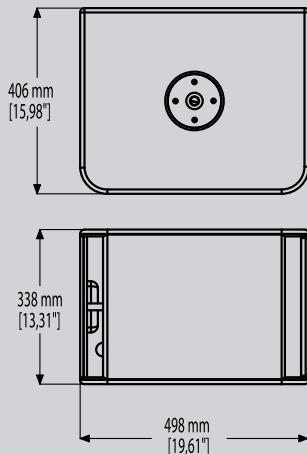


LS400 Subwoofer

NEXO



Key Features

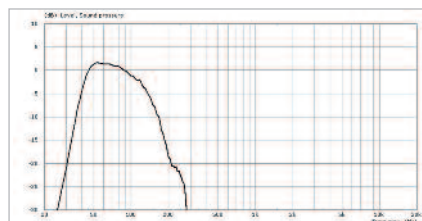
- High power system (131dB Peak SPL @ 1m) with 12" VLF low magnetic emission Neodymium driver for light weight (14.6 kg, 32 lbs) and negligible magnetic leakage.
- VLF extension (to 40Hz) of PS8 Loudspeakers.
- Sophisticated control electronics ensure reliable, linear operation.
- Integral pole mount that supports 1 or 2 PS8 Loudspeakers.

System Applications

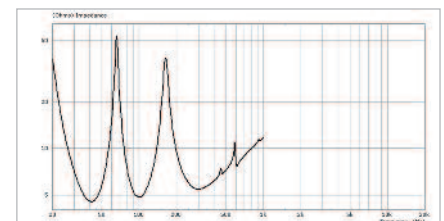
- Near-field touring, installed PA for clubs, A/V, theater, broadcast, etc.
- High quality stage monitoring for clubs, A/V, theater, broadcast, etc.
- Fill-in system in conjunction with larger Nexo PS/Alpha systems.
- Anywhere powerful, high quality performance is required adjacent to magnetically sensitive video equipment.

The LS400 Sub-Bass extends the usable range of the PS8 Loudspeaker to 40Hz, providing high performance and high power output (131dB Peak) in an extremely compact, light weight package. The NEXO-designed shielded 12in Neodymium driver allows the LS400 to be used in close proximity to magnetically sensitive video equipment.

One LS400 is typically used with two PS8 loudspeakers, additional units may be used for an enhanced LF impact. The PS8 TDCController's integral sub section and combined signal (PS8 and LS400) Speakon wiring ensure cost-effective and simple system implementation.



LS400 response



LS400 impedance

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LS400 Subwoofer

NEXO

PS8



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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LS400 PRODUCT FEATURES

Components:	VLf 1 x 12" (30cm) Shielded Neodymium long excursion 6 Ohm driver.
Height x Width x Depth	338 x 500 x 406 mm (13 1/4" x 19 5/8" x 16").
Weight	19.5 kg (43 lbs) net.
Connectors	2 x NL4MP SPEAKON 4 pole.
Construction	Baltic Birch Ply & textured, polyurethane black coating.
Fittings: Handles	2, integral to cabinet.
Stand fittings	Internal Stand Fitting on Top (35mm, 1"3/8) accepts a mast supporting 1 or 2 PS8s.

SYSTEM SPECIFICATIONS LS400 with PS8 TDController

Frequency Response [a]	43 Hz - 120 Hz \pm 3dB.
Usable Range @-6dB [a]	40 Hz - 140 Hz.
Sensitivity 1W @ 1m [b]	99 dB SPL Nominal.
Nominal Peak SPL @ 1m [b]	128 to 131 dB Peak (300 to 700 W RMS Amp.)
Crossover Frequencies	120 Hz Active through PS8TD.
Nominal Impedance	6 Ohms.
Recommended Amplifiers	300 to 700 Watts into 4 Ohms.

SYSTEM OPERATION

Electronic Controller	The LS400 Subwoofer must be used with a Nexo Controller (PS8 TD analogue, NX241 digital or PS8AMP integrated power amplifier). Use without a properly connected Controller will result in poor sound quality and may damage the components.
Subbass	The LS400 Subwoofer provides optional VLF extension for PS8 Loudspeakers. Active two-way operation with the PS8 is included in the PS8TD, NX241 or PS8AMP. One LS400 matches 2 x PS8, additional LS400 may be used for enhanced effect.
Speaker Cables	The PS8 is wired 2- & 2+ on Speakon connectors, LS400 on 1- & 1+. Loop through Speakons are present on both products. Single identical cables can thus be used to loop through combinations of up to 2 x PS8 & 1 x LS400 in no particular order.

SHIPPING & ORDERING

Packaging	LS400 is packaged as a single product.
Shipping Weight & Volume	17.1 kg (38 lbs) / 0.130 cubic metres (4.59 cubic feet).

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

[a] Response curves & data : Anechoic Far Field for the PS8 + PS8TD. Half-Space Anechoic radiation for the LS400 + PS8TD.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified \pm 3dB range. Data are for speaker + processor + recommended amplifier combinations. Peak SPL is at clipping of recommended amplifier.

[c] Directivity curves & data : obtained by computer treatment on off axis response curves.
E&OE September 2009.

Architectural and Engineering Specifications

The sub-bass loudspeaker system shall have one 12in VLF shielded long excursion neodymium cone transducer. Nominal Sensitivity shall be 99dB. When driven by a NXAMP 4x1, NXAMP 4x4 a PS8 TDcontroller or by a NX242 properly-connected to amplification capable of delivering 300 to 700 Watts into a 6 Ω (nominal) load the system shall be capable of 128dB to 131dB peak SPL, with a frequency response of 43Hz to 120Hz \pm 3dB (40Hz to 140kHz -6dB). The system shall include an active crossover. Electrical connections shall be made via one of the two 4-pole NL4MP SPEAKON connectors.

The system shall have a tuned ported rectangular enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 338mm H x 500mm W x 406mm D (13.3in H x 19.7in W x 16.0in D); the system shall weigh 19.3kg (43 lbs). Exterior hardware shall include 1-pole socket. The system shall be the NEXO LS400 with either the PS8 TDController, NXAMP 4x1, NXAMP 4x4 or NX242.

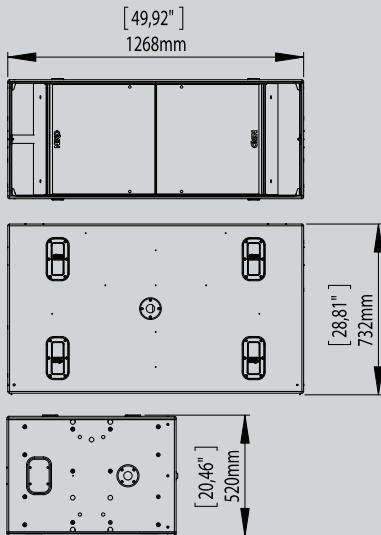
LIMITED WARRANTY

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.

RS18 SubBass

NEXO

RS18



RS18 Advantages

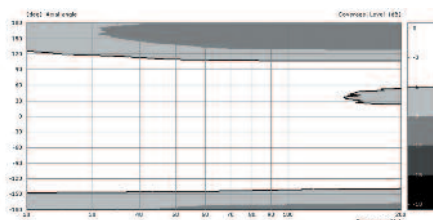
- Low Profile, High Output, Modular Scalable Bass
- Configurable directivity pattern
- Cardioid Pattern Reduces Rear Levels by Minimizing Rear/Side Wall Reflections
- Aerodynamic Profiled Vents with 20db Noise Reduction and improved Linearity at high SPL
- Applies across entire NEXO Product Line

The RS18 applies NEXO's patent pending RAY SUB technology in a 2 x 18" subwoofer format. RAY SUB technology optimizes the positioning and phase relationships of radiating surfaces in vented enclosures, permitting acoustic distance from rear to front sections to always increase as frequency decreases. Consequently rear and front sections sum up efficiently over the entire subwoofer bandwidth, allowing for an average of 5db gain from the rear section in the forward direction and cancelling in the rear direction.

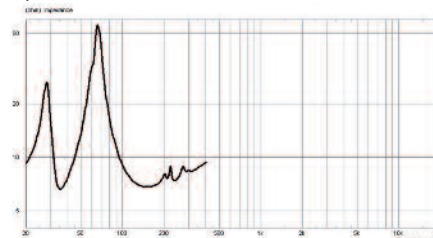
Utilized in a stand alone format, RAY SUB technology, allows the same cabinet to be configured for any polar pattern, omni-directional as a standard direct

radiating subwoofer when speakers are facing the audience, or highly directional when a speaker cabinet is rotated sideways or upwards. With arrays, RAY SUB subwoofers can be set back to back, front to front, alternate, in vertical columns and, when column length is sufficient, to be beam-steered upwards or downwards. Comprising of two 18 inch transducers with a frequency response of 31Hz – 100Hz and a sensitivity of 107db SPL, the RS18 delivers unchallenged versatility for installations and touring requirements where large format sub-bass cabinets are required.

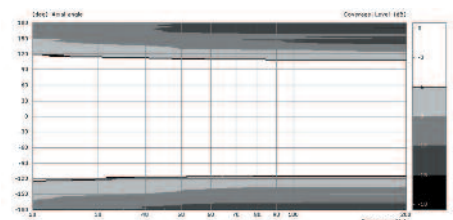
Cardioid Mode 0°



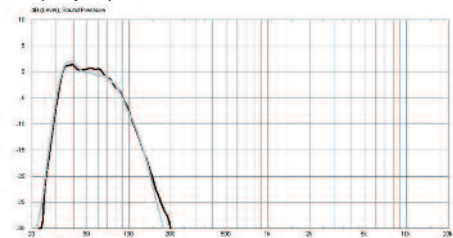
Impedance



Cardioid Mode 90°



Frequency Response



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RS18



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RS18 PRODUCT FEATURES

Components	2 x 18" (46cm) long excursion neodymium 8Ω drivers
Height x Width x Depth	520 x 1403 x 732mm (20.46" x 55.24" x 28.81") with handles 520 x 1238 x 732mm (20.46" x 49.92" x 28.81") without handles
Shape	Rectangular
Weight	Net Weight 90Kg (199 lbs) Net Weight with handles 105Kg (231.5 lbs) Net Weight with rigging system 126Kg (278 lbs)
Connectors	4 x NL4MP SPEAKON 4 pole on two connection plates (In & Through)
Construction	Baltic Birch ply finish with structured black coating. Dark grey carpet finish also available.

RS18 WITH NX242-ES4 TDCONTROLLER OR NXAMP SYSTEM SPECIFICATION

	Omni	Directional
Frequency Response @ -3db [a]	31Hz-100Hz	31Hz-100Hz
Usable Range @ -6db [a]	29Hz-200Hz	29Hz-120Hz
Sensitivity 1W @ 1m [b]	107dB SPL Nominal	105dB SPL Nominal
Peak SPL @ 1m [b]	143-146dBPeak (2x1750W to 2 x 4000/8Ω)	140-143dBPeak (2x1750W to 2 x 4000/8Ω)
Dispersion	Omni & Directional pattern over the entire useable bandwidth depending on the NX242ES4 or NXAMP TDcontrollers setup. (two channels of the NX242 or NXAMP are required to process directional setups)	
Directivity Index [c]	1.5<Q<2 1.7dB<DI<3dB	Q=4.3 DI=5.3dB
Crossover Frequency: NX242 or NXAMP TDcontrollers preset dependent	From 75Hz to 100Hz	From 75Hz to 100Hz
Nominal Impedance	2 x 8Ω	2 x 8Ω
Recommended Amplifiers	1 amplifier channel is required for omni mode operation, rated at 3500 to 8000 Watts into 4Ω	2 amplifier channels are required for directional mode operation, each rated at 1750 to 4000 Watts into 8Ω per channel

SYSTEM OPERATION

Electronic Controller	NX242ES4 Digital TDcontroller & NXAMP Powered Digital TDcontroller presets are precisely matched to RS18 and include sophisticated protection systems. Using RS18 without a properly connected TDController will result in poor sound quality and can damage components.
Speaker Cables	1-/1+ = Right or Rear 2-/2+ = Left or Front RS18 must use separate cables to the main system
Accessories	Bumper – Flying Plates – Handles – Dolly – Front Wheel Board
Rigging System [d]	Please refer to the user manual before any operation.

SHIPPING & ORDERING

Packaging	RS18s are packaged individually. Order RS18-C (finished grey carpeting) or RS18-P (finished in black structured coating)
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As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves and data: anechoic far field above 200 Hz, half-space anechoic below 200 Hz.

[b] Sensitivity & peak SPL: will depend on spectral distribution. Measured with band limited pink noise.

Refers to the specified +/- 3 dB range. Data are for speaker + processor + recommended amplifier combinations.

[c] Directivity curves and data: 1/3 octave smoothed frequency response, normalized to on-axis response. Data obtained by computer processing of off-axis response curves.

[d] Please refer to the RS15 user Manual.

Usable range data: frequency response capability with TD crossover slopes removed.

Architectural and Engineering Specifications

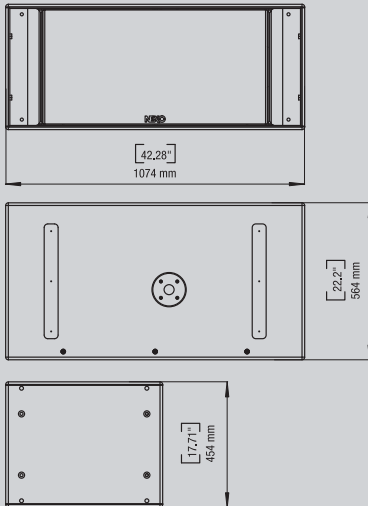
The sub-bass loudspeaker system shall have two 18inch long excursion 8A cone transducers. Nominal Sensitivity shall be 107dB. When driven by a NXAMP 4x4 or by a NX242 properly-connected to amplification capable of delivering into one channel 3500 to 8000 watts for directional mode and 2 amplifier channels are required for directional mode operation, each rated at 1750 to 4000 Watts into 8Ω per channel. The system shall be capable of 143dB to 146dB peak SPL in Omni mode and 140dB to 143dB peak SPL in directional mode, with a frequency response of 31Hz to 100Hz ±3dB[a]. Electrical connections shall be made via 2x 4-pole NL4MP SPEAKON connectors.

The system shall have a tuned ported rectangular enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 520mm H x 1403mm W x 732mm D (20.46in H x 54.24in W x 28.81in D); the system shall weigh 90.0kg (199lbs). Exterior hardware shall include 2- pole sockets. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the RS18 with a NXAMP 4x4 or NX242.

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.

RS15



RS15 Advantages

- Low Profile, High Output, Modular Scalable Bass
- Configurable directivity pattern
- Cardioid Pattern Reduces Rear Levels by Minimizing Rear/Side Wall Reflections
- Aerodynamic Profiled Vents with 20db Noise Reduction and improved Linearity at high SPL
- Applies across entire NEXO Product Line

Ray Sub Technology

The RS15 is the first offering of NEXO's patent pending RAY SUB Technology. The RAY SUB Technology is based on optimizing positioning and phase relationships of radiating surfaces in vented enclosures, permitting acoustic distance from rear to front sections to always increase as frequency decreases; consequently rear and front sections sum up efficiently over the entire subwoofer bandwidth, allowing for an average of 5 db gain from the rear section in the forward direction and cancelling in the rear direction.

Utilized in a stand alone format, RAY SUB Technology, allows the same cabinet to be configured for any polar pattern, omni-directional as a standard direct radiating subwoofer when speakers are facing the audience, or highly directional when a speaker cabinet is rotated sideways or upwards.

With arrays, RAY SUB subwoofers can be set back to back, front to front, alternate, in vertical columns, and when column length is sufficient be beam-steered upwards or downwards.

RS15

Comprised of a 15 inch transducer with a frequency response of 35Hz – 200Hz in omni or 35Hz- 150Hz in directional mode and a sensitivity of 105db SPL, the RS15 presents an unchallenged versatility for installations and touring requirements.

DSP Processing & Control

Digital processing for the RS15 is provided either by NEXO's NX242 or NXAMP Powered TDcontrollers. The processing permits the RS15 to display precise directional pattern controls through DSP processed correlations of acoustic distances between transducer and vent sources.

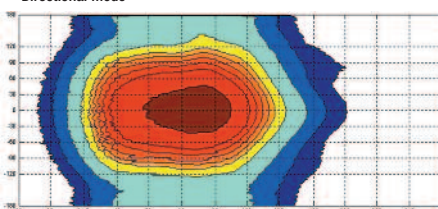
Analogue Processing

Analogue processing is provided by the S12 TDcontroller. The controller yields a traditional, omni-directional LF and VLF pattern and performance.

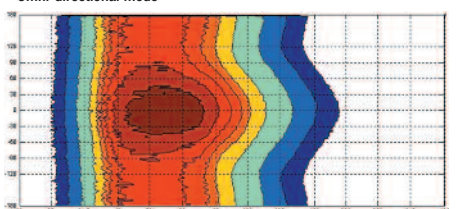
Accessories

- Bumper • Dolly
- Rear Wheel Board • Rigging Plates

Directional mode



Omni-directional mode



RS15 SubBass

NEXO

RS15



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RS15 PRODUCT FEATURES

Components	2 x 15" (38cm) long excursion neodymium 8Ω drivers
Height x Width x Depth	454 x 564 x 1074mm (17.9" x 22.2" x 42.3") without accessories
Shape	Rectangular
Weight	Net Weight without accessories 52Kg (115 lbs)
Connectors	2 x NL4MP SPEAKON 4 pole (In & Through)
Construction	Baltic birch ply finish with structured black coating. Dark grey carpet finish also available.

RS15 WITH NX242-ES4 TDCONTROLLER OR NXAMP SYSTEM SPECIFICATION

	Omni	Directional
Frequency Response @ -3db [a]	35Hz - 100Hz	35Hz - 100 Hz
Usable Range @ -6db [a]	35Hz - 250Hz	35-Hz - 150Hz
Sensitivity 1W @ 1m [b]	105dB SPL Nominal	103dB SPL Nominal
Peak SPL @ 1m [b]	136 - 139dB Peak (2x700W to 2 x 1200W/8Ω)	133 - 136dB Peak (2x700W to 2 x 1200W/8Ω)
Dispersion	Omni & Directional pattern over the entire useable bandwidth depending on the NX242 or NXAMP TDCONTROLLER setup. (two channels of the NX242ES4 or NXAMP are required to process directional setups)	
Directivity Index [c]	1.5<Q<2 1.7dB<DI<3dB	Q=4.3 DI=5.3dB
Crossover Frequency: NX242 or NXAMP TDCONTROLLER preset dependent	From 80Hz to 200Hz	From 80Hz to 125Hz
Nominal Impedance	2 x 8Ω	2 x 8Ω
Recommended Amplifiers	1 amplifier channel is required for omni mode operation, rated at 1400 to 2400 Watts into 4Ω	2 amplifier channels are required for directional mode operation, each rated at 700 to 1200 Watts into 8Ω per channel

SYSTEM OPERATION

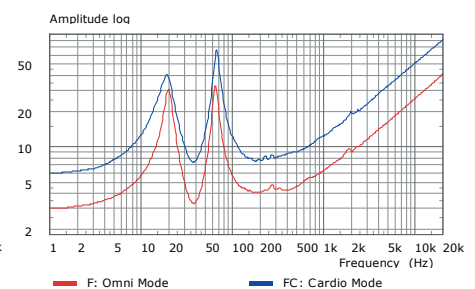
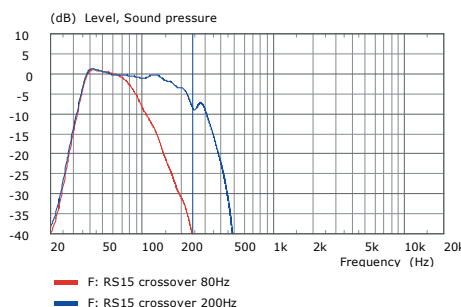
Electronic Controller	GEOS12 Analogue TDCONTROLLER, NX242ES4 Digital TDCONTROLLER & NXAMP Powered Digital TDCONTROLLER presets are precisely matched to RS15 and include sophisticated protection systems. Using RS15 without a properly connected NEXO TDCONTROLLER will result in poor sound quality and can damage components.
Speaker Cables	1-/1+ = Right or Rear 2-/2+ = Left or Front RS15 must use separate cables to the main system
Accessories	Bumper - Flying Plates - Handles - Dolly - Wheels - Push Pins
Rigging System [d]	Please refer to the user manual before any operation.

SHIPPING & ORDERING

Packaging	RS15s are packaged individually. Order as RS15 -C (finished in grey carpeting) or RS15 -P (finished in black structured coating)
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As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves and data: anechoic far field above 400 Hz, half-space anechoic below 400 Hz. Usable range data: frequency response capability with TD crossover slopes removed. [b] Sensitivity & peak SPL: will depend on spectral distribution. Measured with band limited pink noise. Refers to the specified +/- 3 dB range. Data are for speaker + processor + recommended amplifier combinations. [c] Directivity curves and data: 1/3 octave smoothed frequency response, normalized to on-axis response. Data obtained by computer processing of off-axis response curves. [d] Please refer to the user manual.



LIMITED WARRANTY

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Key Features

- Precision circuits specifically engineered for the PS8/LS400 systems permit increased SPL and operational reliability.
- Servo-controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS8 TD to manage multiple PS8 and LS400 products.
- Comprehensive status indicators and controls

The PS8 TDController is an advanced analogue processor that allows the PS8 Loudspeaker and optional LS400 Subwoofer to achieve superior performance from an exceptionally small format. The PS8 TD provides crossover, sensed amplifier control and system equalization, optimised for the PS8 and LS400. Each PS8 TD has two inputs and three outputs, L, R and summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS8 TD provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), strategically reducing levels only at frequencies when and where necessary.



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PS8 TDCONTROLLER PRODUCT FEATURES

Audio Inputs	Two differential non floating L&R Audio inputs, 50 kOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs (PS8 L&R, LS400). 400 kOhm. 6 Pole Removable Strip Terminal.
Audio Outputs	Two L&R PS8 Audio outputs. Balanced, non floating, 51 Ohm. Two XLR-3M. One Mono (L+R) LS400 Audio output. Balanced, non floating, 51 Ohm. One XLR-3M.
Controls	Gain switch (back panel), 3 positions : -6 / 0 / +6dB. Peak Limiter trimmer (600W-200W/8 Ohms) Sub Overlap / Crossover switch & Sub Gain Control (-/+ 6dB).
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs. Active Mode LED. Power ON LED.
Dimensions	1U 19" Rack. 165mm (6.5") Depth.
Weight	2.9kg (6.6 lbs) net.

SYSTEM SPECIFICATIONS PS8 TDCONTROLLER

Input Level	Maximum input level 22dBu. CMRR 90dB @ 1kHz typical.
Output Level	+22/+16/+10 dBm typically into 600 Ohm load. Back panel switch On +6/0/-6dB respectively.
Noise floor	-90 / -96 / -100 dBV for +6 / 0 / -6dB switch position (22 Hz - 22 kHz, UnWeighted).
THD+N	0.05% @ 1kHz Typ. for +10dBm output.
Dynamic Range	111 dB UnWeighted (THD+N at -60dB sine wave @1kHz rel.max. output).
Crosstalk	104dB.
Filtering & EQ	L&R: 12dB/oct Low Pass, 12dB/oct High pass (crossover or overlap), 4 Parameter EQs. All factory tuned
Protections	VCA temp. (SUB,LF & LF), VCEQ disp. (SUB & LF), Peak Limiter (all channels), Power compression regulation
Power Supply	100-250 Volts (continuous operation), 50-60Hz. Power 9W. Peak Inrush current 0.5A. Earth-Lift.
Conformity	Comply with safety objective of 73/23/EEC & 89/336/EEC directives. (EN60065-1998, EN55103-1996) CB scheme, cULus certifications in progress.

SYSTEM OPERATION

Applicable Products	The P8 TDController is precisely matched to the PS8 & LS400 cabinets and includes sophisticated protection systems. Use of either product without a properly-connected Controller will result in poor sound quality and may damage the components.
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SHIPPING & ORDERING

Packaging	PS8TDController is packaged as a single product.
Shipping Weight & Volume	4 kg (8.8 lbs) / 0.011 cubic metres.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice. E&OE September 2009.

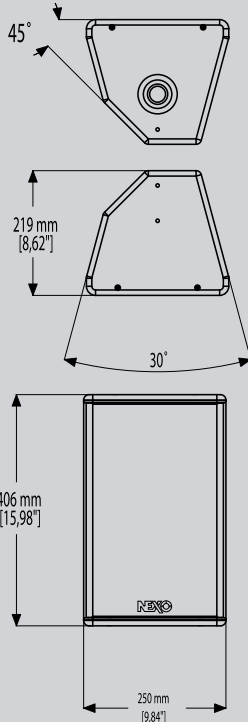
Architectural and Engineering Specifications

The PS8 TDcontroller shall be configurable from a combination of 2x inputs and 3x outputs with each output providing crossover, parametric EQ, adjustable peak limiter and Temperature & Displacement protection for NEXO PS8 and LS400 products. The unit shall have electronically balanced analogue inputs and outputs. All crossover, protection parameters, and EQ are factory optimized and can't be user-accessed. The controller must model the loudspeakers in real time and this modeling shall include loudspeaker temperature and displacement. Protection shall be selective, acoustically transparent and not allow PS8 loudspeakers to exceed speaker-dependent thresholds. The device shall have 3x inputs providing feedback from amplifier output to allow real time monitoring of amplifier voltage. Crossover function between PS8 loudspeakers and the LS400 Subwoofer shall be controlled by the PS8 TDcontroller. Maximum input shall be 22dBu with CMRR 90dB@1kHz and noise floor below -100dB for the 0dB rear-panel switch. A 3-position, rear-panel gain control switch shall be adjustable between -6/0/+6dB. The Output Section shall display +22/+16/+10dBm into 600Ω load with Rear Panel switch on +6/0/-6dB (respectively). LEDs shall indicate status for; Power ON (green), Amp Sense & Peak LED's (green/Red), Temperature & Displacement (yellow) and LS400 (VLF) displacement protection (also yellow). The chassis shall be constructed of steel with a black paint finish. Input power shall range from 110 to 220VAC continuously, 50-60Hz with a rear panel earth-lift. The 1RU controller shall weigh 2.9kg(6.4lbs), with exterior dimensions of 483mmW x 44mmH x 190mmD (19" x 1.75" x 7.5"). The chassis shall be constructed of steel with a black paint finish. The controller shall be the NEXO PS8 TDcontroller. The unit shall be UL approved and comply with electrical international standard (CB scheme) based upon the European standard EN60065. The unit shall fulfill the electromagnetic requirement of the harmonized standards EN55013, EN55020 and of the requirement of the FCC PART 15 CLASS B regulation. Other integrated loudspeaker-controllers shall be acceptable, provided independent laboratory test results verify these specifications are equaled or exceeded.

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.

PS8



Key Features

- High-power system (125dB Peak SPL @ 1m) with new 8in LF and 1in HF low magnetic emission Neodymium drivers for light weight (7.5kg, 16.5lbs) and negligible magnetic leakage.
- Rotatable, asymmetrical horn and unique cabinet architecture ensure versatility; user-adaptable for both PA and stage monitoring applications.
- Two-way passive 8Ω design uses a single amplifier channel for simpler installation and lower cost.
- Sophisticated control electronics ensure reliable, linear operation. Supported with a full range of mounting and flying accessories.

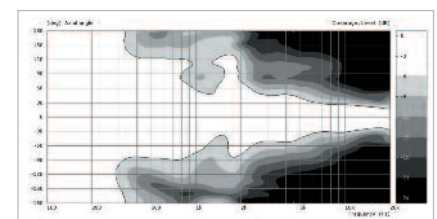
System Applications

- Installed PA for clubs, AV, theatre, broadcast, Houses of Worship, theme parks, etc.
- High-quality, low-profile stage monitoring for clubs, AV, theatre, broadcast, etc.
- Near-field, down-fill and under-balcony systems in support of larger systems.
- Foreground and background music source for retail establishments seeking audio with impact.
- Anywhere powerful, high-quality performance is required near to magnetically-sensitive

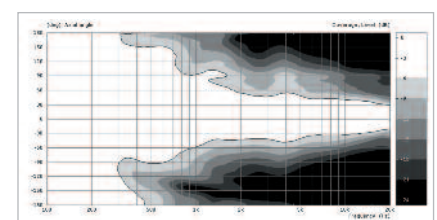


The PS8 features advanced NEXO designed low magnetic emission Neodymium drivers, making the PS8 extremely light and compact while usable next to magnetically-sensitive professional video or computer equipment. The dispersion, architecture and weight balance are designed to provide uncompromised PA and stage monitor performance from a single speaker, and background and foreground music playback applications are equally well-served.

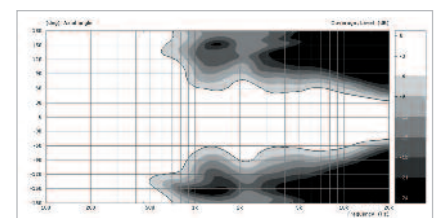
Like the new PS10-R2 and PS15-R2, this flexibility is realized by a proprietary constant directivity asymmetrical dispersion horn, easily configurable (by users) in four positions by 90° rotations. Coupled with the horn's unique progressive horizontal (50° to 100°) and vertical (55°) dispersion, the most suitable pattern can be selected for vertical or horizontal PA usage or wedge monitoring. The PS8's 2-way passive 8Ω design employs a single amplifier channel to deliver bi-amped performance, reducing system cost, size and complexity, and a new grille design increases durability while fully accommodating use as a wedge.



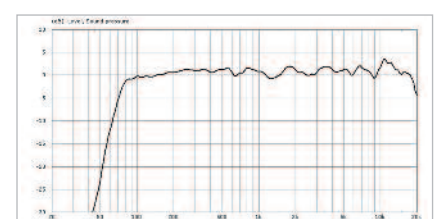
PS8 horizontal coverage, +25°



PS8 horizontal coverage, 0°



PS8 horizontal coverage, -25°



PS8 response



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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PS8 LOUDSPEAKER PRODUCT FEATURES

Components	LF 1 x 8" (20 cm) Shielded Neodymium 8Ω driver. HF 1 x 1" Shielded Neodymium throat driver + Low Distortion, Constant Directivity Asymmetrical Dispersion Horn.
Height x Width x Depth	406mm x 250mm x 219 mm (16" x 9 7/8" x 5 5/8").
Weight	7.5 kg (16.5 lbs).
Connectors	2 x NL4MP SPEAKON 4 pole.
Construction	Baltic Birch Ply finished with textured black coating.
Fittings	Handles - Front finish: Moulded Dark Grey Metal Grill Flying Points & Fixed Installation Threaded inserts are fitted as standard to all cabinet surfaces for connection of mounting accessories.
Stand fittings	Built-in Stand Fitting, (35mm / 1 3/8").

SYSTEM SPECIFICATIONS PS8 with PS8 TDController

Frequency Response [a]	69 Hz - 19 kHz ±3dB.
Usable Range @-6dB [a]	62 Hz - 20 kHz.
Sensitivity 1W @ 1m [b]	96 dB SPL Nominal - 94 dB SPL Wideband.
Nominal Peak SPL @ 1m [b]	122 to 125dB Peak.
HF Dispersion [c]	50° to 100° Hor. x 55° Vertical. Rotatable Horn, 4 positions.
Directivity	Q : 10 Nominal DI : 10 dB Nominal. (f > 1.8 kHz)
Crossover Frequencies	2.5 kHz Passive.
Nominal Impedance	8Ω
Recommended Amplifiers	200 to 500 W / 8Ω.

SYSTEM OPERATIONS

Electronic Controller	The PS8 TDController is precisely matched to the PS8 & LS400 cabinets and includes sophisticated protection systems. Using PS8 & LS400 without a properly connected PS8TD will result in poor sound quality and can damage the components. PS8 & LS400 can also be used with NXAMP4x1 and NXAMP4x4 Powered TDControllers.
Dispersion configuration	After dismounting the front grille from its fixings, the HF Horn can be rotated in 4 positions for dispersion configuration.
Sub-bass	The PS8 can be used without optional LS400 Sub-bass. Active two-way operation with the LS400 is included in the PS8TD. One LS400 matches 2 x PS8, additional LS400 may be used for enhanced LF capability.
Speaker Cables	PS8 are wired 2- & 2+ on Speakon connectors, LS400 on 1- & 1+. Loop through Speakons are present on both. Single identical cables can thus be used to loop through combinations of up to 2 x PS8 & 1 x LS400 in no particular order.

SHIPPING & ORDERING SPECIFICATIONS

Packaging	PS8 is packaged as a single product.
Shipping Weight & Volume	8.7 kg (19.2 lbs) / 0.063 cubic metres.
Accessories	A full selection of mounting Accessories is available, please contact your Nexo Agent for details.

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

[a] Response curves & data : Anechoic Far Field for the PS8 + PS8TD. Half-Space Anechoic radiation for the LS400 + PS8TD.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise.

Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations. Peak SPL is at clipping of recommended amplifier.

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

E&OE September 2009.

Architectural and Engineering Specifications

The 2-way full range loudspeaker system shall have one 8 inch shielded neodymium cone transducer and a 1 inch shielded neodymium compression driver on a low distortion constant directivity asymmetrical dispersion horn. The system's horizontal coverage shall range from 50° to 100°, with vertical coverage of +25° and -30°. The user shall be able to rotate the horn in 4 directions as required by the application. The system shall have a Q of 10 and a Directivity Index that is 10 at frequencies above 1.8kHz. Nominal Sensitivity shall be 96dB (94dB wideband). When driven by a NEXO NXAMP 4x1, NXAMP 4x4 a PS8 TDController or by a NX242 properly connected to amplification capable of delivering 200 to 500 Watts into an 8Ω (nominal) load the system shall be capable of 122dB to 125dB peak SPL, with a frequency response of 69Hz to 19kHz ±3dB (62Hz to 20Hz -6dB). The system shall include an internal passive crossover. Electrical connections shall be made via one of the two 4-pole NL4MP SPEAKON connectors.

The system shall have a tuned ported multi-angle enclosure constructed of 18ply Baltic birch, finished in textured black or white coating and having exterior dimensions no greater than 406mm H x 250mm W x 219mm D (16.0in H x 9.8in W x 8.6in D); the system shall weigh 7.5kg (16.5lbs). Exterior hardware shall include 3 mounting points (2 on the top, 1 on the bottom), 6 mounting points on the sides and 1-pole socket. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the PS8 with a PS8 TDController, NXAMP 4x1, NXAMP 4x4 or NX242.

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.

PS15



Key Features

- Precision circuits engineered for the PS15-R2/RS15 systems permit increased sound pressure and operational reliability.
- Servo controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS15 TDController-R2 to manage multiple PS15-R2 and RS15 products.
- Comprehensive indicators and controls.

The PS15 TDController-R2 is an advanced analogue processor that allows the PS15-R2 Loudspeaker and optional RS15 Subwoofer to achieve exceptional performance from such compact packages. The PS15 TDController-R2 provides crossover, sensed amplifier control and system equalisation optimised for the PS15-R2 and RS15.

One PS15 TDController-R2 has two inputs and three outputs, including summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS15 TDController-R2 provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), reducing levels only at frequencies when and where necessary.

PS15



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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PS15 TDCONTROLLER-R2 PRODUCT FEATURES

Audio Inputs	Two L&R Audio inputs. Electronically balanced, 50KOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs, 180 kOhm. 6 Pole Removable Strip Terminal.
Audio Outputs	Three audio outputs. Electronically balanced, 50 Ohm. Three XLR-3M connectors.
	Passive Mode, two PS15-R2 L&R, one Mono (L+R) RS15. Active Mode, one PS15-R2 LF, one PS15-R2 HF, one Mono (L+R) RS15.
Controls	Front panel: Overlap/Crossover switch, Two Bass EQ trimmers (+/- 3 dB), Three Peak Limiter Adjust trimmers. Three Gain trimmers (+/- 6dB). Back panel: Gain switch (back panel), 3 positions for Amps with Gain : -6 / 0 / +6 dB. Internal: Active/Passive Mode switch. Three Protection trimmers.
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs. Active Mode LED. Power ON LED.
Dimensions	1U 19" Rack. 190mm (7.5") Depth.
Weight	2.9kg (6.6 lbs) net.

SYSTEM SPECIFICATIONS PS15 TDCONTROLLER-R2

Input Level	+28dBm max into 600 Ohms.
Output Level	+22dBm.
Noise	-88 dBm (22 Hz - 22 kHz, UnWeighted).
THD+N	< 0.03% Typ. 0.05 Max for +18dBm Output.
Power Supply	110/220 Volts (External Rear Panel Switch), 50/60Hz. Earth-Lift (back panel).

SYSTEM OPERATION

Applicable Products	The PS15 TDController-R2 is precisely matched to the PS15-R2 & RS15 cabinets and includes sophisticated protection systems. Use of either product without a properly-connected Controller will result in poor sound quality and may damage the components.
Sub-bass	Active two-way operation of the PS15 Loudspeaker in passive mode or three-way operation in active mode with the RS15 Subwoofer is included in the PS15TDController-R2.

SHIPPING & ORDERING

Packaging	PS15 TDController-R2 is packaged as a single product.
Shipping Weight & Volume	4 kg (8.8 lbs) / 0.011 cubic metres.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice. E&OE September 2009.

Architectural and Engineering Specifications

The 1RU PS15 TDcontroller R2 shall be configurable from a combination of 2x inputs and 3x outputs with each output providing crossover, parametric EQ, and mid-filter limiters for NEXO PS15-R2 products. The unit shall have electronically balanced analogue inputs and outputs. Each input must provide LF shelving filter to compensate ground or stacking effects, ± 6 dB LEVEL TRIM controls for each output must be independent and directly accessible through front-panel potentiometers. All crossover, protection parameters, and EQ are factory optimized and can't be user-accessed. The controller must model the loudspeakers in real time and this modeling shall include loudspeaker temperature and displacement. Protection shall be selective, acoustically transparent and not allow PS15-R2 loudspeakers to exceed speaker-dependent thresholds. The controller shall have 3x inputs providing feedback from amplifier output to allow real time protections on real voltage. The device shall change between passive and active switching through internal jumper connections. Maximum input shall be 22dBu with CMRR 90dB@1kHz and THD+N 0.05%@1kHz at +18dBm output. A 3-position, rear panel gain control switch shall be adjustable between -6/0/+6dB. The Output Section shall display +28/+22/+16dBm into 600 Ω load with Rear Panel switch on +6/0/-6dB (respectively). LEDs shall indicate status for; Power ON (green), Amp-Sense & Peak LED's (green/Red), Temperature & Displacement (yellow) and RS15 (VLF) displacement protection (also yellow).

The unit shall have the following front panel controls: Overlap/Crossover Switch; 2x Bass EQ trimmers; 3x Peak Limiter Adjust trimmers; 3x Gain trimmers, and the following LED indicators: Power On; Active Mode; Amp-Sense; Amp Peak; Speaker Protect. The unit's rear panel shall have the following controls: 3-position Amp Gain switch; Active/Passive mode switch; 3x Protection trimmers; Earth Lift. The 1RU device shall weigh 3.3kg(7.3lbs), be steel-constructed, with a blue paint finish and exterior dimensions of 483mmW, 44mmH and 210mmD (19" x 1.75" x 8.5"). Input power shall be 110/220VAC, 50-60Hz. The analog loudspeaker management controller shall be the NEXO PS15 TDcontrollerr R2. The unit shall be UL approved and comply with electrical international standard (CB scheme) based upon the European standard IEC60065. The unit shall fulfill the electromagnetic requirement of the harmonized standards EN55013, EN55020 and of the requirement of the FCC PART 15 CLASS B regulation. Other analog loudspeaker management controllers shall be acceptable, provided independent laboratory test results verify these specifications are equaled or exceeded.

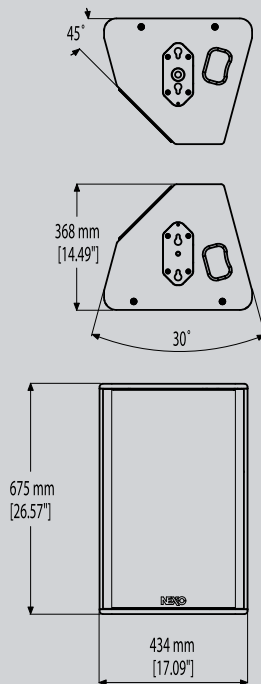
LIMITED WARRANTY

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PS15-R2 Loudspeaker

NEXO

PS15



Key Features

- High-power system (136dB Peak SPL @ 1m) with 15in LF and 2in HF drivers.
- Rotatable asymmetrical horn and unique cabinet architecture ensure versatility; user-adaptable for both PA and stage monitoring applications.
- Two-way, switchable passive or active design for precise performance-matching to user requirements.
- Sophisticated control electronics ensure reliable, linear operation.
- Supported with a full range of mounting and flying accessories.

System Applications

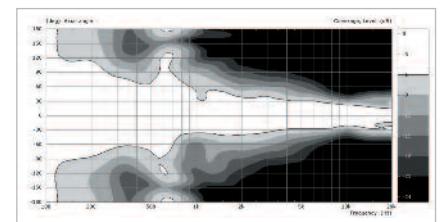
- High-power mid-sized touring, installed PA for clubs, AV, theater, Houses of Worship, broadcast, etc.
- High-quality, extremely powerful stage monitoring for AV, theatre, cabarets, broadcast, etc.
- Fill-in system for any PA requiring side, down and near-field augmentation.

A high power system capable of producing 136dB Peak SPL, the new PS15-R2 Loudspeaker can be safely driven with up to 2000 Watts of amplifier power. Controlled by the new, dedicated PS 15 TDController-R2, or the NXAMP Powered Controller, the PS15-R2 achieves high SPLs and wide bandwidth performance, despite being only half the weight and volume of common trapezoidal loudspeaker systems.

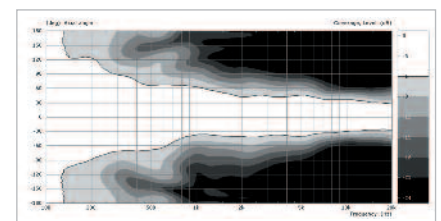
Along with the flexible coverage patterns enabled by NEXO's proprietary constant directivity asymmetrical dispersion horn, the architecture and weight balance of the PS15-R2 are designed to provide both uncompromised PA and stage monitor performance from a single speaker.

Left and Right versions of the PS15-R2 have been developed to provide a true stereo image – particularly important for wedge applications.

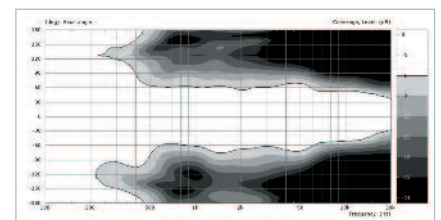
The 2-way passive 8Ω design uses a single amplifier channel to deliver bi-amped performance, reducing system cost, size and complexity, while the new cabinet design incorporates a pole mount and a new hardware adapter compatible with a vast array of touring and fixed installation accessories.



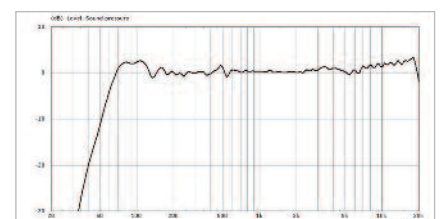
PS15-R2 horizontal coverage, +25°



PS15-R2 horizontal coverage, 0°



PS15-R2 horizontal coverage, -25°



PS15-R2 response

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PS15-R2 Loudspeaker

NEXO

PS15



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PS15-R2 LOUDSPEAKER PRODUCT FEATURES

Components	LF 1 x 15" (38 cm) long excursion Neodymium 8Ω driver. HF 1 x 2" throat, 3" Titanium diaphragm compression driver + Low Distortion, Constant Directivity Asymmetrical Dispersion Horn.
Height x Width x Depth	675 x 434 x 368 mm (26.57" x 17.08" x 14.48").
Weight	28 kg (62 lbs).
Speakon Connectors	2x4 pole in & loop thru (switch passive to active inside).
Construction	Baltic Birch Ply finished with textured black coating.
Fittings	Handles 2 metal recessed pockets.
Front Finish	Moulded dark grey metal grille.
Flying Points	Two plate connecting with external accessories.
Stand fittings	Built in steel stand fitting (35mm / 1 3/8").

SYSTEM SPECIFICATIONS PS15-R2 with PS15 TDController-R2

Frequency Response [a]	50 Hz - 18 kHz ±3 dB.
Usable Range @-6dB [a]	47 Hz - 18 kHz.
Sensitivity 1W @ 1m [b]	102 dB SPL Nominal / 99 dB SPL Wideband.
Nominal Peak SPL @ 1m [b]	133 to 136 dB Peak.
HF Dispersion [c]	50° to 100° Horizontal x 55° Vertical Rotatable Horn, 4 positions.
Directivity : Q & DI [c]	Q : 16 Nominal / DI : 12 dB Nominal (f > 1.5 kHz).
Crossover Frequencies	1.1 kHz Passive or Active (internally switchable).
Nominal Impedance	Passive 8Ω or Active LF 8Ω, HF 16Ω.
Recommended Amplifiers	Passive 1000 to 2000 W 8Ω. Active LF 1000 to 2000 W 8Ω / HF 250 to 500 W 16Ω. Important: Active mode only available on NXAMP.

SYSTEM OPERATIONS

Electronic Controller	The PS15TD Controller-R2 is precisely matched to the PS15-R2 & RS15 cabinets and includes protections. Using PS15-R2 & RS15 without a properly connected PS15 TDController-R2 will result in poor sound quality and can damage the components.
Dispersion configuration	After dismantling the front grille from its fixings, the HF Horn can be rotated in 4 positions for dispersion configuration.
Sub-bass	The PS15-R2 can be used without optional RS15 Sub-bass. Active two-way operation with RS15 is included in the PS15 TDController-R2. One RS15 matches 2 x PS15-R2, additional RS15 may be used for enhanced LF capability.
Speaker Cables	PS15R2 are wired 2-/2+ on Input Speakons in Passive Mode. PS1R25 are wired LF 1-/1+ & HF 2-/2° on Input Speakons in Active Mode. Please refer to RS15 User Manual for RS15 for RS15 connection.

SHIPPING & ORDERING SPECIFICATIONS

Packaging	PS15-R2 is packaged as a single product.
Shipping Weight & Volume	33 kg (72.6 lbs) / 0.2 cubic metres (7 cubic feet).
Accessories	A full selection of mounting Accessories is available, please contact your Nexo Agent for details.

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

[a] Response curves & data : Anechoic Far Field for the PS15-R2 + PS15TDController-R2. Half-Space Anechoic radiation for the RS15R2 + PS15TDController-R2.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified ±3 dB range. Data are for speaker + processor + recommended amplifier combinations.

Peak SPL is at clipping of recommended amplifier. Measurements made with PS15-R2s in passive operation mode.

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

E&OE September 2009.

Architectural and Engineering Specifications

The 2-way loudspeaker system shall have one 15 inch shielded Neodymium 8Ω cone transducer and a 2 inch compression driver on a low distortion constant directivity asymmetrical dispersion horn. The system's horizontal coverage shall range from 50° to 100°, with vertical coverage of +25° and -30°. The user shall be able to rotate the horn in 4 directions as required by the application. The system shall have a Q of 16 and a Directivity Index that is 12 at frequencies above 1.5kHz. Nominal Sensitivity shall be 102dB (99dB wideband). When driven by a NEXO NXAMP 4x1, NXAMP 4x4 a PS15 TDController-R2 or by a NX242 properly connected to amplification capable of delivering 1000 to 2000 Watts into an 8Ω (nominal) load the system shall be capable of 133dB to 136dB peak SPL, with a frequency response of 50Hz to 18kHz ±3dB (47Hz to 18Hz -6dB). The system shall include an active or passive crossover with internal switching. Electrical connections shall be made via one of the two 4-pole NL4AMP SPEAKON connectors.

The system shall have a tuned ported multi-angle enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 675mm H x 434mm W x 368mm D (26.6in H x 17.1in W x 14.5in D); the system shall weigh 29.0kg (65.0lbs). Exterior hardware shall include 1 metal plate, 2 attachment points and 1-pole socket. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the NEXO PS15 R2 with a PS15 TDController-R2, NXAMP 4x1, NXAMP 4x4 or NX242.

LIMITED WARRANTY

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PS
10



Key Features

- Precision circuits engineered for the PS10-R2/LS600 systems permit increased sound pressure and operational reliability.
- Servo-controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS10 TDController-R2 to manage multiple PS10-R2 and LS600 products.
- Comprehensive indicators and controls.

The PS10 TDController-R2 is an advanced analogue processor that allows the PS10-R2 Loudspeaker and optional LS600 Subwoofer to achieve exceptional performance from such compact packages. The PS10 TDController-R2 provides crossover, sensed amplifier control and system equalisation optimised for the PS10-R2 and LS600. One PS10 TDController-R2 has two inputs and three outputs, L, R and summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS10 TDController-R2 provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), reducing levels only at frequencies when and where necessary.

PS10



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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PS10 TDCONTROLLER-R2 PRODUCT FEATURES

Audio Inputs	Two L&R Audio inputs. Electronically balanced, 50KOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs (PS10-R2 L&R, LS600. 150 kOhm. 6 Pole Removable Strip Terminal.
Audio Outputs	Two L&R PS10-R2 audio outputs. Electronically balanced, 50 Ohm. Two XLR-3M. One mono (L+R) LS600 audio output. Electronically balanced, 50 Ohm. One XLR-3M.
Controls	Std/Max Protection Trimmer. Gain switch (back panel), 3 positions for Amps with Gain : -6 / 0 / +6 dB. Sub On switch & Sub Gain Control.
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs.
Dimensions	1U 19" Rack. 190mm (7.5") Depth.
Weight	2.9kg (6.6 lbs) net.

SYSTEM SPECIFICATIONS PS10 TDCONTROLLER-R2

Input Level	+28dBm max into 600 Ohms.
Output Level	+20dBm Max. +19dBm Max on 1kOhm.
Noise	-88 dBm (22 Hz - 22 kHz, UnWeighted).
THD+N	< 0.03% Typ. 0.05 Max for +18dBm Output.
Power Supply	110/220 Volts (internal wiring), 50/60Hz. Earth-Lift (back panel).

SYSTEM OPERATION

Applicable Products	The PS10 TDController-R2 is precisely matched to the PS10-R2 & RS15 cabinets and includes sophisticated protection systems. Use of either product without a properly-connected Controller will result in poor sound quality and may damage the components.
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SHIPPING & ORDERING

Packaging	PS10 TDController-R2 is packaged as a single product.
Shipping Weight & Volume	4 kg (8.8 lbs) / 0.011 cubic metres.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice. E&OE September 2009.

Architectural and Engineering Specifications

The PS10 TDcontroller R2 shall be configurable from a combination of 2x inputs and 3x outputs with each output providing crossover, parametric EQ, adjustable peak limiter and Temperature & Displacement protection for NEXO PS10-R2 and LS600 products. The unit shall have electronically balanced analogue inputs and outputs. All crossover, protection parameters, and EQ are factory optimized and can't be user-accessed. The controller must model the loudspeakers in real time and this modeling shall include loudspeaker temperature and displacement. Protection shall be selective, acoustically transparent and not allow PS10-R2 loudspeakers to exceed speaker-dependent thresholds. The device shall have 3x inputs providing feedback from amplifier output to allow real time monitoring of amplifier voltage. Crossover function between PS10-R2 loudspeakers and the LS600 Subwoofer shall be controlled by the PS10 TDcontroller. Maximum input shall be 22dBu with CMRR 90dB@1kHz and noise floor below -100dB for the 0dB rear-panel switch. A 3-position, rear-panel gain control switch shall be adjustable between -6/0/+6dB. The Output Section shall display +22/+16/+10dB into 600Ω load with Rear Panel switch on +6/0/-6dB (respectively). LEDs shall indicate status for; Power ON (green), Amp Sense & Peak LED's (green/Red), Temperature & Displacement (yellow) and LS600 (VLF) displacement protection (also yellow). The chassis shall be constructed of steel with a black paint finish. Input power shall range from 110 to 220VAC continuously, 50-60Hz with a rear panel earth-lift. The 1RU controller shall weigh 2.9kg(6.4lbs), with exterior dimensions of 483mmW x 44mmH x 190mmD (19" x 1.75" x 7.5"). The chassis shall be constructed of steel with a black paint finish. The controller shall be the NEXO PS10 TDcontroller R2. The unit shall be UL approved and comply with electrical international standard (CB scheme) based upon the European standard EN60065. The unit shall fulfill the electromagnetic requirement of the harmonized standards EN55013, EN55020 and of the requirement of the FCC PART 15 CLASS B regulation. Other integrated loudspeaker-controllers shall be acceptable, provided independent laboratory test results verify these specifications are equaled or exceeded.

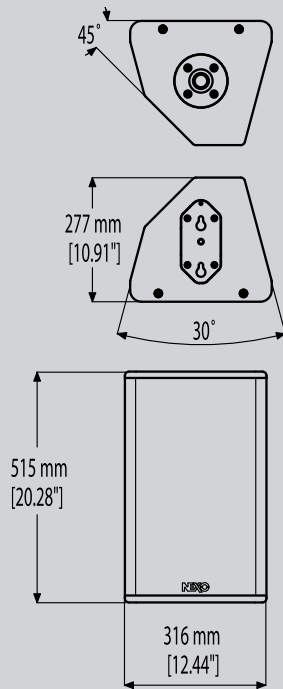
LIMITED WARRANTY

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PS10-R2 Loudspeaker

NEXO

PS 10



Key Features

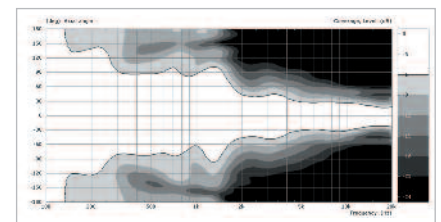
- High-power system (132dB Peak SPL@1m) with 10in LF and 1in HF drivers.
- Rotatable asymmetrical horn and unique cabinet architecture ensure versatility.
- User-adaptable for both PA and stage monitoring applications.
- Two-way passive 8Ω design uses a single amplifier channel for simpler installation and lower cost.
- Sophisticated control electronics ensure reliable, linear operation.
- Supported with a full range of mounting and flying accessories.

System Applications

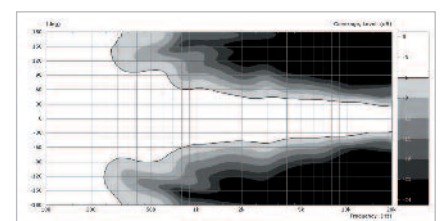
- Touring, installed PA for clubs, A/V, theatre, broadcast, Houses of Worship, etc. High-quality stage monitoring for cabarets A/V, theatre, broadcast, etc.
- Fill-in system for use with larger NEXO PS/Alpha systems, or any application needing exceptional side, down and near-field augmentation.

A high power system capable of producing 132 dB Peak SPL, the new PS10-R2 Loudspeaker can be safely driven with up to 1250 Watts of amplifier power. Controlled by the new, dedicated PS10 TDController-R2, or the NXAMP Powered Controller, the PS10-R2 achieves high SPLs and wide bandwidth performance, despite being only half the weight and volume of common trapezoidal loudspeaker systems.

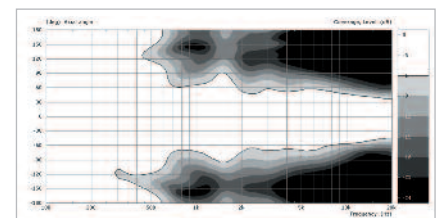
Along with the flexible coverage patterns enabled by NEXO's proprietary constant directivity asymmetrical dispersion horn, the architecture and weight balance of the PS10-R2 are designed to provide both uncompromised PA and stage monitor performance from a single speaker. Left and Right versions of the PS10-R2 have been developed to provide a true stereo image – particularly important for wedge applications. The 2-way passive 8Ω design uses a single amplifier channel to deliver bi-amped performance, reducing system cost, size and complexity, while the new cabinet design incorporates a pole mount and a new hardware adapter compatible with a vast array of touring and fixed installation accessories.



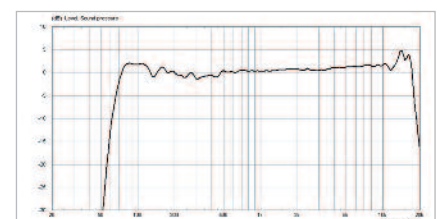
PS10-R2 horizontal coverage, +25°



PS10-R2 horizontal coverage, 0°



PS10-R2 horizontal coverage, -25°



PS10-R2 response

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PS10-R2 Loudspeaker

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PS10



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PS10-R2 LOUDSPEAKER PRODUCT FEATURES

Components	1 x 10" (25cm) Shielded Neodymium 8Ω driver. HF 1 x 1" throat driver + Low Distortion Constant Directivity Asymmetrical Dispersion Horn.
Height x Width x Depth	515mm x 316mm x 277 mm (20.28" x 12.44" x 10.91").
Weight	14 kg (31 lbs).
Connectors	2 x NL4MP Speakon 4 pole.
Construction	Baltic Birch Ply finished with textured black coating.
Fittings	2 Metal recessed pockets.
Front finish	Moulded Dark Grey Metal Grill.
Flying Points	One plate connecting with external accessories.
Stand fittings	Built in Steel Stand Fitting, (35mm / 1 3/8").

SYSTEM SPECIFICATIONS PS10-R2 with PS10 TDController-R2

Frequency Response [a]	65 Hz - 20 kHz ±3dB.
Usable Range @-6dB [a]	58 Hz - 21 kHz.
Sensitivity 1W @ 1m [b]	99 dB SPL Nominal - 97 dB SPL Wideband.
Nominal Peak SPL @ 1m [b]	129 to 132 dB Peak.
HF Dispersion [c]	50° to 100° Hor. x 55° Vert. Rotatable Horn, 4 positions.
Directivity Q & DI [c]	Q : 16 Nominal DI : 12 dB Nominal. (f > 3 kHz)
Crossover Frequencies	2 kHz Passive.
Nominal Impedance	8Ω
Recommended Amplifiers	500 to 1250 W / 8 Ω.

SYSTEM OPERATIONS

Electronic Controller	The PS10 TDController-R2 is precisely matched to the PS10-R2 & LS600 cabinets and includes sophisticated protection systems. Using PS10-R2 & LS600 without a properly connected PS10 TDController-R2 will result in poor sound quality and can damage the components.
Dispersion configuration	After dismounting front grill from its fixings, the HF Horn can be rotated in 4 positions for dispersion configuration.
Sub-bass	The PS10-R2 can be used without optional LS600 Sub-Bass. Active two-way operation with the LS600 is included in the PS10 TDController-R2. One LS600 matches 2 x PS10-R2, additional LS600 may be used for enhanced LF capability.
Speaker Cables	PS10-R2 are wired 2- & 2+ on Speakon connectors, LS600 on 1- & 1+. Loop through Speakons are present on both. Single identical cables can thus be used to loop through combinations of up to 2 x PS10-R2 & 1 x LS600 in no particular order.

SHIPPING & ORDERING SPECIFICATIONS

Packaging	PS10-R2 is packaged as a single product.
Shipping Weight & Volume	17.3 kg (38 lbs) / 0.169 cubic metres (5.96 cubic feet).
Accessories	A full selection of mounting Accessories is available, please contact your Nexo Agent for details.

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

[a] Response curves & data : Anechoic Far Field for the PS10-R2 + PS10TDController-R2. Half-Space Anechoic radiation for the LS600 + PS10 TDController-R2.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.

Peak SPL is at clipping of recommended amplifier.

[c] Directivity curves & data : obtained by computer treatment on off axis response curves.
E&OE September 2009.

Architectural and Engineering Specifications

The 2-way loudspeaker system shall have one 10 inch shielded Neodymium 8Ω cone transducer and a 1inch compression driver on a low distortion constant directivity asymmetrical dispersion horn. The system's horizontal coverage shall range from 50° to 100°, with vertical coverage of +25° and -30°. The user shall be able to rotate the horn in 4 directions as required by the application. The system shall have a Q of 16 and a Directivity Index that is 12 at frequencies above 3kHz. Nominal Sensitivity shall be 99dB (97dB wideband). When driven by a NXAMP 4x1, NXAMP 4x4 a PS10 TDController-R2 or by a NX242 properly-connected to amplification capable of delivering 500 to 1250 Watts into an 8Ω (nominal) load the system shall be capable of 129dB to 132dB peak SPL, with a frequency response of 65Hz to 20kHz ±3dB (58Hz to 21Hz -6dB). The system shall include an internal passive crossover. Electrical connections shall be made via one of the two 4-pole NL4MP SPEAKON connectors.

The system shall have a tuned ported multi-angle enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 515mm H x 316mm W x 277mm D (20.28 inches H x 12.4 inches W x 10.9 inches D); the system shall weigh 14 kg (31 lbs). Exterior hardware shall include 1 metal plate, 2 attachment points and 1-pole socket. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the PS10-R2 with either, a PS10 TDController-R2, NXAMP 4x1, NXAMP 4x4 or NX242.

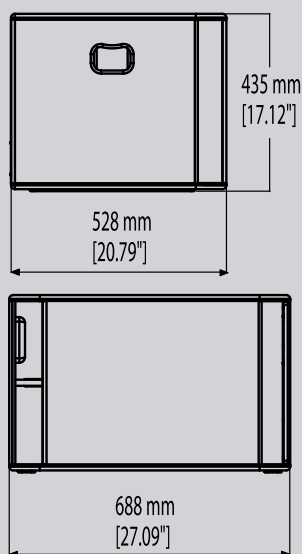
LIMITED WARRANTY

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LS600 Subwoofer

NEXO

PS 10



Key Features

- High-power system (138dB Peak SPL @ 1m) with 15in VLF long excursion driver.
- VLF extension (to 38Hz) of PS10-R2 Loudspeakers.
- Sophisticated control electronics ensure reliable, linear operation.
- Integral pole mount that supports one or two PS10-R2 Loudspeakers.

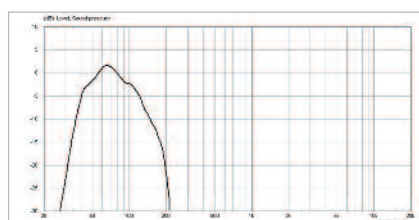
System Applications

- Touring, installed PA for clubs, A/V, theatre, broadcast, Houses of Worship, etc. High-quality stage monitoring for cabarets A/V, theatre, broadcast, etc.
- Fill-in system for use with larger NEXO PS/Alpha systems, or any application needing exceptional side, down and near-field augmentation.

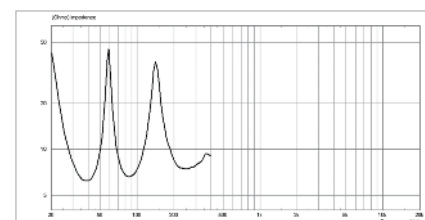


A high power system capable of producing 138 dB Peak SPL, the new LS600 Sub-Bass extends the usable range of the PS10-R2 Loudspeaker to 38Hz, providing exceptional performance and high power output in an extremely compact, light weight package.

The PS10 TDController-R2's integral sub section and combined signal (PS10-R2 and LS600) Speakon wiring ensure cost effective and simple system implementation. One LS600 is typically used with two PS10-R2 loudspeakers, additional units may be used for an enhanced effect.



LS600 response



LS600 impedance

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LS600 Subwoofer

NEXO

PS10



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LS600 PRODUCT FEATURES

Components:	LF 1 x 15" (38cm) long excursion Neodymium 8Ω driver.
Height x Width x Depth	435mm x 688mm x 528 mm (17.12" x 27.09" x 20.79").
Weight	30 kg (66 Lbs) net.
Connectors	2 x NL4MP SPEAKON 4 pole.
Construction	Baltic Birch Ply & textured, polyurethane black coating.
Fittings	Handles 2 Metal recessed pockets.
Flying Points	One plate connecting with external accessories.
Stand fittings	Internal Steel Stand Fitting on Top (35mm, 1 3/8") allows pole mounting for 1 PS10-R2.

SYSTEM SPECIFICATIONS LS600 with PS10 TDController-R2

Frequency Response [a]	40 Hz - 110 Hz ±3dB.
Usable Range @-6dB [a]	38 Hz - 120 Hz.
Sensitivity 1W @ 1m [b]	101 dB SPL Nominal.
Nominal Peak SPL @ 1m [b]	135 to 138 dB Peak.
Crossover Frequencies	120 Hz Active through PS10 TD Controller-R2.
Nominal Impedance	8 Ohms.
Recommended Amplifiers	1000 to 2000 Watts / 8 Ohms.

SYSTEM OPERATION

Electronic Controller	The LS600 Subwoofer must be used with a Nexo Controller (PS10TD -R2, NX242, or NXAMPS). Use without a properly connected Controller will result in poor sound quality and may damage the components.
Subbass	The LS600 Subwoofer provides optional VLF extension for PS10R2 Loudspeakers. Active two-way operation with the PS10-R2 is included in the PS10TD-R2, NX242 or NXAMPS. One LS600 matches 2 x PS10-R2, additional LS600 may be used for enhanced effect.
Speaker Cables	The PS10R2 is wired 2- & 2+ on Speakon connectors, LS600 on 1- & 1+. Loop through Speakons are present on both products. Single identical cables can thus be used to loop through combinations of up to 2 x PS10R2 & 1 x LS600 in no particular order. As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

SHIPPING & ORDERING

Packaging	LS600 is packaged as a single product.
Shipping Weight & Volume	29.4 kg (64.68 lbs) / 0.265 cubic metres.

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

[a] Response curves & data : Anechoic Far Field for the PS10-R2 + PS10TDController-R2. Half-Space Anechoic radiation for the LS600 + PS10 TDController-R2.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.

Peak SPL is at clipping of recommended amplifier.

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

E&OE September 2009.

Architectural and Engineering Specifications

The sub-bass loudspeaker system shall have one 15 inch shielded Neodymium 8 Ω long excursion cone transducer. Nominal Sensitivity shall be 101dB. When driven by a NEXO NXAMP 4x1, NXAMP 4x4 a PS10 TDController-R2 or by a NX242 properly-connected to amplification capable of delivering 1000 to 2000 Watts into a 4Ω (nominal) load the system shall be capable of 135dB to 138dB peak SPL, with a frequency response of 40Hz to 110Hz ±3dB (38Hz to 120kHz -6dB). The system shall include an active crossover. Electrical connections shall be made via one of two 4-pole NL4MP SPEAKON connectors.

The system shall have a tuned ported rectangular enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 435mm H x 688mm W x 528mm D (16.9in H x 27.1in W x 20.8in D); the system shall weigh 30 kg (66lbs). Exterior hardware shall include 1 metal plate, 2 attachment points and 1-pole socket. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the NEXO LS 600 with the PS10 TDController-R2, NXAMP 4x1, NXAMP 4x4 or NX242.

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.