

August 5, 2016

Appregio Acoustic Consulting, LLC
c/o Jessee J. Ehnert
1947 Aspen Drive, NE
Atlanta, Georgia 30345

Re: Sound Study Peer Review for the Proposed Neighborhood Impact Establishment at 1 Lincoln Road a/k/a 1669 Collins Avenue Dated July 29, 2016 (PB File No. PB0616-0037)

Dear Mr. Ehnert:

The Applicant's Sound Consultant, The Audio Bug, Inc., is unavailable until August 11, 2016, but in an effort to finalize the Peer Review process, we are providing the enclosed materials and information below for your review. The Audio Bug, Inc. will provide specific responses to your comments provided in the July 29, 2016 Sound Study Peer Review Report promptly following his return.

- (1) Enclosed please find a first floor plan entitled "Site Plan," which shows the overall context of the restaurant to the hotel's first floor.
- (2) The space above the restaurant is a spa which closes daily at 8:00 p.m.
- (3) Enclosed please also find the "Proposed First Floor Plan" detailing the restaurant, also included in the application materials enclosed herewith.
- (4) The porte cochere as pictured on the Key Directional Plan and photos contained in the application materials enclosed herewith is located on Collins Avenue near the intersection at Lincoln Road setback from the property line and surrounded by commercial uses.
- (5) Enclosed please also find a plan which demonstrates the section marks for the restaurant as well as details on the (south) wall.

Boca Raton | Denver | Ft. Lauderdale | Las Vegas | Miami | Miami Beach | Naples | New York
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In California, Greenspoon Marder LLP practices using the fictitious name and trademark Greenspoon Marder under license from Greenspoon Marder, P.A.
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- (6) Enclosed please also find a plan which details the (cast) glass wall.
- (7) The temporary construction walls are in place to avoid construction noise, such as jackhammers, from impacting the Ritz Carlton Hotel lobby.
- (8) The architect advises that the wall that separates the corridor (south wall) is a 12 inch thick Concrete Masonry Unit ("CMU") wall, providing sufficient mass necessary to stop sound. With the stud wall (i.e. 3 layers of drywall), the STC is anticipated to be in excess of 60.
- (9) The architect advises that the existing double doors will be replaced with glass doors that carry an STC of approximately 38.
- (10) Any DJ's and live bands will be required to use the restaurant's distributed sound system.
- (11) Enclosed please find a floor plan which details the Audio and Video Device Locations with corresponding documentation relating to the devices.
- (12) Enclosed please also find the Equipment List for the restaurant.

If you should require any additional information, please contact the undersigned.

Sincerely,

Adrienne Guadalupe for
James E. Rauh, Esq.
For the Firm

Cc: Tui Munday, Senior Planner (w/out Application Materials)

Enclosures



Systems Integration, Architainment & A / V Systems.
 9960 N.W. 116 Way Suite 4 Miami FL 33178
 Alex Caballero 305-519-3393 | Alex@ASConsultinginc.com
 FL - ES -12000946 / GA- LVG-10543

Tatel Miami Beach - Master Low Voltage Audio Visual Equipment List - 1A- I :Rev 2 - 6.15.16

Tatel Miami beach - Ritz Carlton -
1 Lincoln Road Miami Beach FL 33139
C/O Santiago - Wade- Telesco

REV 6.7.16
 REV 6.15.16

Preliminary Specification -- Subject to Approval:
Technical : Surface Mount / In Ceiling Loudspeakers - Ground Support Banquet Subwoofer.

Preliminary Equipment List - Placement and Locations Pending Final CAD and Mock Ups:
 All Lines are To Home Run at AVHR. Based On Drawings and Renderings By Others

Main Entrance Porte Cochere - Entry Host Area: Zones 1,2 : Thermal Listing Power REQ.

2	Yamaha	Yamaha VXS8 W Surface Mount Loudspeaker - White - Outside Porte Cochere-	N/A	N/A	N/A
2	Yamaha	Yamaha VXC 8 In Ceiling Speaker - Black- Host Area-	N/A	UL/ UL1490 /UL2043/ NFPA70/ Plenum	N/A
1	Display	Display - Behind Mirror - Hostess Area- To Be Determined.	247-360 Watts AVG For Up To 75 Inch Display	UL / ETL	110 Volt - 20 Amp - Isolated Ground - Circuit - Each Display

Lounge Area- Zone 3: Thermal Listing Power REQ.

4	Nexo	Nexo ID 24i 90x40 Loudspeaker Module- Black- Perimeter Placement	N/A	N/A	N/A
2	Nexo	Nexo IDS 110 Subwoofer Module- Black. -- Banquet Placement - Perimeter-	N/A	N/A	N/A

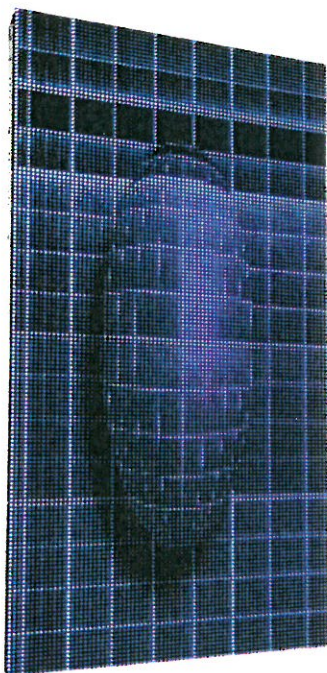
Rotunda Area- Zone 4: Thermal Listing Power REQ.

4	Nexo	Nexo ID 24i 120 - Loudspeaker Module -Black- Outside Perimeter Of Rotunda.	N/A	N/A	N/A
2	Nexo	Nexo IDS 110 Subwoofer Module- Black. - Floor Perimeter Placement-	N/A	N/A	N/A

Main Dining Area- Zone 5:			Thermal	Listing	Power REQ.
8	Nexo	Nexo ID 24i 90x40 Loudspeaker Module- Available Black- Perimeter Placement.	N/A	N/A	N/A
4	Nexo	Nexo IDS 110 Subwoofer Module- Black. Banquette Placement -	N/A	N/A	N/A
8	Yamaha	Yamaha VXC 6 In Ceiling Speaker - Black-	N/A	UL/ UL1490 /UL2043/ NFPA70/	N/A
2	Projection System	Projection System - HD High Lumen Projector And Electric Screen- TBD-	800 Watts Avg For 5000 Lumen Projector And Screen	UL/ETL/MET	110 Volt - 20 Amp - Isolated Ground - Circuit - Each Projector And Screen
PDRS Dining Area- Zone 6 And 7 -			Thermal	Listing	Power REQ.
4	Nexo	Nexo ID 24i 120 - Loudspeaker Module -Black- Perimeter -	N/A	N/A	N/A
2	Nexo	Nexo IDS 110 Subwoofer Module- Black. Floor Perimeter Or In Cabinet-	N/A	N/A	N/A
2	Display	Display - Behind Mirror - To Be Determined.	247-360 Watts AVG For Up To 75 Inch Display	UL / ETL	110 Volt - 20 Amp - Isolated Ground - Circuits - Each Display
Toilets Restroom Areas - Restroom Hallway - Zone 8:			Thermal	Listing	Power REQ.
5	Yamaha	Yamaha VXC 6 In Ceiling Speaker - Black-	N/A	UL/ UL1490 /UL2043/ NFPA70/ Plenum	N/A
Distributed Video - LED Wall -- Control System- Accessories-			Thermal	Listing	Power REQ.
1	Video Wall	Video Wall To Be Determined Upon Client Demo - Calculations Included For MEP Info-	128 Watts Per Panel @ 120 Panels =15,360 Watts full Brightness	ETL/MET	110 Volt 20 Amp Circuit With Isolated Ground Per 12 Panels - Total Of 12 Circuits- Overhead Skylight Video Wall Location-

Dj and Performance Controllers :			Thermal	Listing	Power REQ.
1	Dj Equip And Controllers	Dj Equipment And Performance Controllers- TBD-	600 - 1700 Watts AVG DJ Controllers And DJ Monitor System	UL/ETL/MET	3x 110 Volt - 20 Amp - Isolated Ground Circuits - DJ Booth Location
Architectural Lighting and Control System - Lutron C4 Etc.				Listing	Power REQ.
1	TBD	To Be Determined Upon Provision Of Scope -	N/A	N/A	N/A
Low Voltage Integration - Structured Cabling -			Thermal	Listing	Sold
1	Structured Cabling-	All Low Volatge Cabling- Plenum - From Designated Locations To IT Head End-	N/A	UL/ETL/ Plenum/ CLP/CMP	N/A
HD CCTV System:			Thermal	Listing	Power REQ.
1	CCTV	32 Channel HD DVR System With 8 TB Storage Capacity - Includes UPS And Camera PSU - Estimated - TBD.	200 Watts AVG	UL/ETL/MET	1x 110 Volt - 20 Amp - Isolated Ground Circuit- Located At A.V.H.R
Integration Misc.			Thermal	Listing	Power REQ.
1	Yamaha	Yamaha MTX 3 -- Processor DSP. - Includes Expander For Additional PDR Zone Split-	50 Watts Max	UL	1x 110 Volt - 20 Amp - Isolated Ground Circuit- Located At A.V.H.R
2	Yamaha	Yamaha DCP1V4VS Wall Control Panel. - Rack-	N/A	N/A	N/A
2	Yamaha	Yamaha DCP4V4VS Wall Control Panel. - Rack	N/A	N/A	N/A
3	Yamaha	Yamaha XP3500 Commercial Power Amplifier.	450 Watts Max	UL	1x 110 Volt - 20 Amp - Isolated Ground Circuit- Located At A.V.H.R - Total Of 3 Circuits
4	Nexo	Nexo NX 4x1 Power Amplifier TD Controller Combo -	1100 Watts 1/8 Power	UL	1x 110 Volt - 20 Amp - Isolated Ground Circuit- Located At A.V.H.R - Total Of 4 Circuits

2	Input Panel	Audio Input Panel - With XLR Inputs. - 4x xlr In - Includes Terminations-	N/A	N/A	N/A
2	Input Panel	Video Input Panel - As Designated --	N/A	N/A	N/A
1	Misc Rack And LV Equip.	Misc. Rack And LV Equipment - Alarm - Data - IP Phone System - Data Switches Wireless Access Points- POE ETC.	1500 Watts AVG	UL/ETL	2x 110 Volt - 20 Amp - Isolated Ground Circuits - A.V.H.R Location



FEATURES

- 6.25 mm pixel pitch LED video panel offering superb contrast through black face SMD 3528 LEDs
- 1000 mm x 500 mm panel size for the installation market
- Lightweight and modular installation system designed for fast installation
- Fanless design ensures silent operation
- Works with the VIP™ Driver, VIP™ Signal Distributor, VIP™ Media Server Pro, and VIP™ 5162 Signal Processor
- Using the PVP™ Rig Kit, you can hang 10 panels tall, for a total height of 10 meters of video wall
- Can also be installed using the M12 threaded inserts installed on all of the 4 corners of the wall

SPECIFICATIONS

- Control Protocol: LINSN
- Data Connectors: Neutrik® etherCON® (2)
- Light Source: 12,800 LEDs (tri-color RGB) SMD 3528, 50,000 hours life expectancy
- Color Wavelength: red (620 to 625 nm), green (524 to 529 nm), blue (467 to 470 nm)
- Pixels: 80 x 160
- Pixel Pitch: 6.25 mm
- Pixel Density: 25,600/m²
- Viewing Angle: 140°
- Display Refresh Rate: 1,080 Hz
- Transparency: 0%
- Illuminance: 1,500 NITS
- IP Rating: IP40, indoor use
- Cable Length (signal extension): 2.3 ft (0.7 m)
- Cable Length (power): 6 ft (1.83 m)
- Cable Length (power extension): 2.3 ft (0.7 m)
- Power Connection: Edison plug to Neutrik® powerCON®
- Power Input: Neutrik® powerCON®
- Power Output: Neutrik® powerCON®
- Power Linking: 12 units @ 120 V; 21 units @ 208 V; 22 units @ 230 V
- Maximum Panels/VIP™ Driver: 102
- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power and Current: 128 W, 1.06 A @ 120 V, 60 Hz
- Power and Current: 131 W, 0.63 A @ 208 V, 60 Hz
- Power and Current: 133 W, 0.60 A @ 230 V, 50 Hz
- Weight: 23 lb (10.4 kg)
- Dimensions: 39.4 x 19.7 x 2.5 in (1,000 x 500 x 63 mm)
- Housing Material: Aluminum alloy
- Compatible Mounting Options: PVP™ Rig Kit (truss mounting), or M10 Bolt/Clamp (rear mounting)
- Accessories (required): VIP™ Driver
- Accessories (optional): VIP™ Signal Distributor, VIP™ Media Server Pro, VIP™ 5162 Signal Processor
- Approvals: CE



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Compact Sound Reinforcement System

NEXO

www.nexo-sa.com

NEXO

www.nexo-sa.com

Complete directivity control comes to compact power.

With a unique user-rotatable horn that lets users quickly select between two preset directivity options, ID24 brings unparalleled flexibility to the world of compact speakers with a cabinet that delivers trademark NEXO sound and performance, whether mounted horizontally or vertically.



Horizontal rotation

Vertical rotation



Designed to meet the requirements of the widest range of applications, ID24 is ideal as part of a full-range system, or as a dedicated 'sound beaming' unit in difficult spaces.

Mounted horizontally or vertically, ID24 delivers superior performance in all scenarios. Three distinct ID24 specifications are available – ID24i for installation, ID24t for touring and ID24c (carte), which allows the perfect speaker to be configured from an extensive list of options (see page 3). ID24i is 'all-weather' IP55 rated.

ID24i (Install Spec)

Spec'd for the installation professional and designed for the widest range of applications, ID24i (install spec) features threaded holes for compatibility with NEXO and 3rd-party mounting hardware, including the IDI-WB02 and IDI-WM01. For rapid installation ID24i is equipped with captive cable for fast, secure connectivity with existing wiring.

Install models are available in Black or White with a matching fabric grille.



ID24t (Touring Spec)

Primed for all touring applications, the ID24t (touring spec) features Speakon connectors and quick release rigging points for easy mounting - horizontally or vertically.

ID24t is compatible with a range of NEXO accessories including the IDI-TCBRK2538 and IDI-TCBRK3851 small and large quick release truss mounting hooks, the IDI-GSTK quick release adjustable floor stand and the IDI-TVP bolt adaptor for pole stand mounting.

Touring models are available in Black with a matching steel grille.



ID 24

A la carte. Unprecedented choice for specifiers.

For applications that require the greatest degree of customisation, NEXO offers the ID24c. Specifiers can choose from the following options to design the speaker that perfectly meets requirements.

Directivity

ID24c horn directivity options include:

- 120° x 40°
- 90° x 40°
- 60° x 60°
- 120° x 60°



Rotable horn means all HF coverages are reversible

Mounting Options

Spec with quick release rigging points or threaded holes



Colours

Choose Black, White - or any RAL colour to suit the environment



Connectivity

Choose from Speakon and Captive Cable



Grille

Select steel or fabric



Note - An EN-54 compliant model will be made available. Full details available on request.

ID Series subs. Serious low end. Seriously low profile.

Complementing the ID24 speakers are two compact, powerful subs, both available in install and touring versions. With a low-profile, sleek design, ID Series subs are easily installed discretely in a wide range of locations - within walls, staircases, under furniture and more.



ID S110 - 1x10" sub

Compact and powerful, the 1x10" sub measures just 285mm high x 525mm wide x 550mm deep, offering punchy sub bass performance in the smallest form factor. (ID S110t touring version pictured).

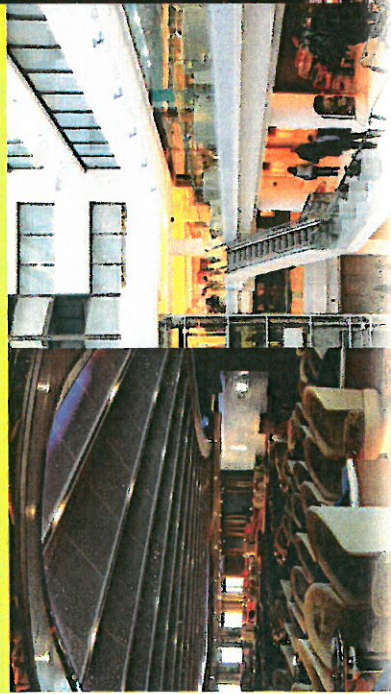


ID S210 - 2x10" sub

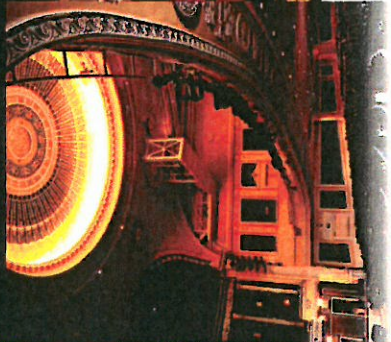
For applications where space is less restricted, the 2x10" double sub delivers stunning performance in a box measuring just 285mm high x 1050mm wide x 550mm deep. (ID S210t install version pictured).



Commercial Audio



Theatre Sound



Touring / AV



Horizontal mounting

Compact and powerful, ID speakers and subs are ideal for discreet horizontal placement, bracketed to walls or ceilings.



Vertical mounting

With innovative V formation drivers, ID24 is equally at home whether mounted horizontally or vertically.



Under-balcony

Ideal for theatre applications, ID24 units can be used under balconies to reach the audience areas that the main system does not cover.



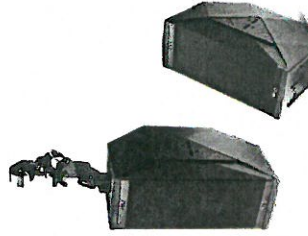
Stage front-fill

Use ID24 to 'beam' sound into the first rows of the audience from the stage, ensuring total coverage and the best listening experience throughout a venue.



Pole-mounting

For touring applications, ID24 can be quickly and easily pole-mounted using the optional IDT-TYP mounting bracket.



Flown and wedge

For live sound applications, ID24 is a single box solution that can be flown or even used as a wedge thanks to its innovative angled design.

Application-focussed design.

NXAMP4X1

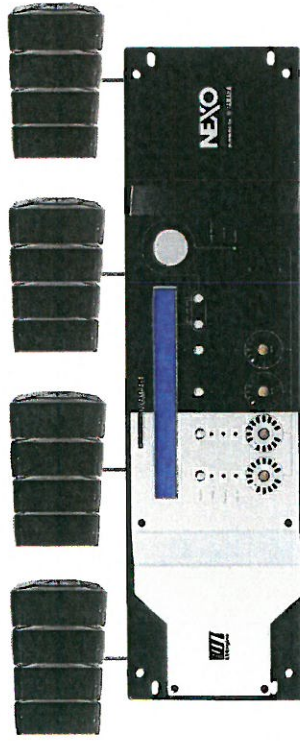
One amp for 16 speakers

The versatility of the ID24 system extends to a highly cost-effective amplification solution capable of powering large numbers of units and integrating seamlessly with other NEXO products.

A single NXAMP4X1 - the smallest of NEXO's Powered TDControllers - can power up to 16x ID24 units. With 'channel-by-channel' preset selection for all NEXO cabinets and linear phase on all set-ups, it's easy to integrate subbass cabinets such as the NEXO ID S110 and ID S210 into a single amplifier solution. Networks of NXAMPs can be monitored using NEXO's NeMo Remote Monitoring App, available free for iPad® and iPhone®.

Key Features

- NXAMP4X1 is among the industry's most powerful amplifiers
- Cost effective integration of command, control, protection and amplification of all NEXO loudspeaker systems
- Lighter and requires less rack space than conventional amplifier processor systems
- Eliminates unnecessary A/D conversion
- Optional AES digital input, and EtherSound or Dante™ network input



Power up to 16 ID24 units from a single NXAMP4X1

DTD Controller

ID24 processing made simple

The DTD Digital TD Controller makes it easy to configure ID speaker systems using amplification from other manufacturers.

Now it's possible to choose exactly the right size and scale of amplification, making ID range speakers accessible in a wide range of applications from small mobile systems to more sophisticated multi-cabinet installations. With advanced speaker control processing taken from the NEXO NXAMP, the DTD Digital TD Controller also delivers dramatic improvements in sonic performance over previous analog TD Controllers.

Key Features

- Compatible with amplifiers of every size and scale
- Dramatic sonic improvements over previous analog devices
- Comprehensive analog and digital connectivity plus Dante™
- Optional plug-and-play operation with automatic amplifier sensing
- Touring and install versions available

DTD-T touring version



The DTD-T touring version features analog input and output connectors on the front panel, removing the need for an additional patch panel

DTD-I install version



With all connectors except mini-USB located on the back panel, the DTD-I install version is set up from a Mac/PC computer

ID24 compact full-range speaker

308mm wide, 132mm high and 233mm front to back, the ID24 is a compact full range speaker using twin 4 inch drivers in a V formation plus an HF compression driver with rotatable horn. The horn can be rotated easily without the need for tools by 2 screw heads on the rear panel to give 120° x 40° or 40° x 120° HF coverage with the standard horn fitted. This increases the flexibility of the cabinet by allowing the HF horizontal dispersion to be 'tuned' for the given application - installed or touring.



Specifications

ID24 With NEXO ID Controller Setup		
ID24	ID24	ID24C
Frequency Range	95Hz - 20kHz (+/- 6dB)	
Sensitivity (W / 1m)	110dB SPL Nominal	
Peak SPL Level (1m)	125dB Peak	
HF Dispersion (according to horns)	120° x 40° or 40° x 120°	
HF Dispersion	90° x 40°	
HF Dispersion	120° x 40°	
HF Dispersion	120° x 60°	
Nominal Impedance	16Ω	
Recommended Amplification per box	200 to 500W	

PRODUCT FEATURES

ID24	ID24	ID24C
Components	LF: 2x4" - Long excursion - Neodymium magnet HF: 1" voice coil 8" throat - Neodymium magnet	
Height x Width x Depth	132 x 309 x 233mm (5.2" x 12.2" x 9.2")	
Weight	6.1kg (13.5lb)	
Material	White: Structural paint Black: Low sandblasted polyurethane	
Finish	White: Structural paint Black: Low sandblasted polyurethane	
Grille	Stainless steel Acoustic fabric, black or white	
Rigging	6x 6mm threaded inserts 6x points for quick rigging M10 threaded insert	

SYSTEM OPERATION

Electronic Controllers	NCAMPx1 and 4x4 Powered Controller D1D - Controller + DTDamp 4x1.3 D1D - Controller + DTDamp 4x1.3 The NEXO controller presets are precisely matched to the ID Series cabinets and include sophisticated protection. Using ID Series cabinets without properly connected NEXO controllers will result in poor sound quality and can damage components. ID S110 and ID S210 low profile subwoofers
Sub Bases	

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

ID S110 & ID S210 low-profile subs

There are 1x10" and 2x10" subs available to complement the ID24. Both are low-profile. The 1x10" measures 285mm high x 525mm wide x 350mm deep, and the 2x10" is 285mm high x 1020mm wide x 350mm deep.



Specifications

ID S110 and ID S210 With NEXO Controller Setup		
ID S110	ID S210	
Frequency Range	43Hz - 130Hz (+/- 3dB)	43Hz - 130Hz (+/- 3dB)
Sensitivity (W / 1m)	97 dB SPL Nominal	103 dB SPL Nominal
Peak SPL Level (1m)	125dB Peak	131dB Peak
Crossover Frequencies	85Hz / 120Hz	85Hz / 120Hz
Nominal Impedance	4Ω	2Ω
Recommended Amplification	400W to 650W	800W to 1300W

PRODUCT FEATURES

ID S110	ID S210
Components	2x10" Long excursion
Height x Width x Depth	285 x 525 x 350mm
Weight	21kg (46.2lb) / 21.7kg (47.8lb)
Material	21kg (46.2lb) / 21.7kg (47.8lb)
Finish	Black structured paint
Rigging	4x M6 inserts

SYSTEM OPERATION

Electronic Controllers	NCAMPx1 and 4x4 Powered Controller D1D - Controller + DTDamp 4x1.3 (BS110 only) D1D - Controller + DTDamp 4x1.3 (BS210 only) The NEXO controller presets are precisely matched to the ID Series cabinets and include sophisticated protection. Using ID Series cabinets without properly connected NEXO controllers will result in poor sound quality and can damage components. ID24
Main System	

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

Installation and Touring Accessories

IDT-TCBRK2538

Truss Clamp Adaptor, 25-38mm.



IDT-TCBRK351

Truss Clamp Adaptor, 35-51mm.



IDT-ORA

Truss Clamp Fitting.



ID-WM01

Black or White Speaker Wall Mount.



ID-WB02

Black or White Universal Speaker Wall Mount.



IDT-GSTK

Ground Stacking Accessory.



IDT-TVP

Bolt Adaptor M10 to 35mm.



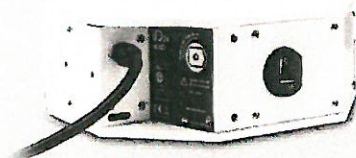
ID Series Compact Sound Reinforcement System

NEXO

ID INSPACE
DEFINITION



ID24t - Touring version



ID24i - Install version



With a unique user-rotatable horn that lets users quickly select between 120° x 40° or 40° x 120° HF coverage, ID24 brings unparalleled flexibility to the world of compact speakers with a cabinet that delivers trademark NEXO sound and performance, whether mounted horizontally or vertically.

Measuring just 309mm wide, 132mm high and 233mm front to back, the ID24 uses twin 4 inch drivers in a V formation, and is ideal as a full-range speaker, or as a dedicated 'sound beaming' unit in difficult spaces. Mounted horizontally or vertically, ID24 delivers superior performance in all scenarios.

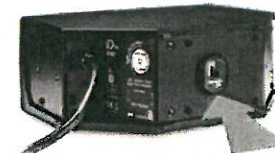
Three distinct ID24 specifications are available – ID24i for installation, ID24t for touring and ID24c (carte), which allows the perfect speaker to be configured from an extensive list of options. ID24i is 'all-weather' IP55 rated.

ID24i (install spec) features threaded holes for compatibility with NEXO and 3rd-party mounting hardware, including the popular K&M24161 and K&M24471. For rapid installation ID24i is equipped with captive cable for fast, secure connectivity with existing wiring. Install models are available in black or white with a matching fabric grille.

The ID24t (touring spec) features Speakon connectors and quick release rigging points for easy mounting - horizontally or vertically. ID24t is compatible with a range of NEXO and 3rd-party accessories including NEXO's QRV quick release truss mounting hook and QRF quick release adjustable floor stand, as well as K&M's M10-3/8 mic stand mount and 19780 adjustable pole stand.

Touring models are available in black only with a matching steel grille.

For applications that require the greatest degree of customisation, the ID24c enables specifiers to choose from an expanded range of HF directivities, mounting and connectivity options. Cabinets can be spec'd in black, white or any custom RAL colour with matching steel, fabric or foam grilles.



Rotatable horn for variable HF dispersion



ID24 speakers can be mounted vertically and horizontally

Key Features

- Compact, high-powered sound reinforcement speaker
- Measures just 309mm W x 132mm H x 233mm D
- Rotatable horn for 120° x 40° or 40° x 120° HF coverage
- Dedicated Install and Touring versions
- 'A la carte' options allow specifier to choose HF directivities, mounting type, connectivity, cabinet colour and grille type
- Compact, low-profile subs also available

System Applications

- Ceiling or wall mounted, horizontally or vertically
- Under balcony in theatres
- Stage front-fill
- Pole-mounted
- Flown in a touring system
- Wedge monitor

NEXO
www.nexo.fr

ID Series Compact Sound Reinforcement System

NEXO

iD INSPACE
DEFINITION



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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NEXO
www.nexo.fr

ID24 with NEXO TDC Controller setup

	ID24i	ID24t	ID24c
Frequency Range	95Hz – 20kHz (+/- 6dB)		
Sensitivity (1W / 1m)	100dB SPL Nominal		
Peak SPL Level (1m)	126dB Peak		
HF Dispersion (according to horns)	Selection of: 60° x 60° 90° x 40° 120° x 40° 120° x 60°		
Nominal Impedance	16Ω		
Recommended Amplification per box	200 to 500W		

PRODUCT FEATURES

	ID24i	ID24t	ID24c
Components	LF: 2x4" – Long excursion – Neodymium magnet HF: 1" voice coil ½" throat – Neodymium magnet		
Height x Width x Depth	132 x 309 x 233mm (5.2" x 12.2" x 9.2")		
Weight	6 Kg (13 lbs)		
Material	Water-resistant Polyurethane		
Finish	White: Structural paint Black: Raw sandblasted polyurethane		A la carte
Grille	Stainless steel Acoustic fabric, black or white	Stainless steel Black paint	A la carte
Rigging	6x 6mm threaded inserts	6x points for quick rigging M10 threaded insert	A la carte, among: 6x inserts 6mm 6x points for quick rigging M10 threaded insert

SYSTEM OPERATION

Electronic Controllers	NXAMP4x1 and 4x4 Powered Controller DTD - Controller + DTDamp 4x0.7 DTD - Controller + DTDamp 4x1.3 The NEXO controller presets are precisely matched to the ID Series cabinets and include sophisticated protection. Using ID Series cabinets without properly connected NEXO controllers will result in poor sound quality and can damage components.
Sub Bass	ID S110 and ID S210 low profile subwoofers

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

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.

MTX Series

Matrix Processor



MTX3



Rear Panel

YDIF AMX CRESTRON

1U

Matrix processor equipped with a variety of programmable features designed to maximize the performance of sound systems in commercial installations.

- Inputs; 8 mono (mic/line), 2 stereo (line), 16 digital (via YDIF*) .
- Outputs; 8 mono (line), 16 digital (via YDIF*) .
- Can expand YDIF* equipped inputs and outputs with EXi8/EXO8 expanders.
- SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card.
- Functions for worry-free operation; Feedback Suppressor, Auto Gain Control, Priority Ducker.
- Two useful digital processors "Reverb" and "Echo" for entertainment applications.
- Remotely control the volume and presets of multiple zones with DCP series wall mount digital controllers.
- Wireless DCP for iPhone and iPod touch is free available on the App Store.
- Equipped with Network port and GPI ports that offer compatibility with touch panel controllers such as AMX/Crestron.
- Easy setup and parameter control with MTX Editor.

*YDIF: the newly developed digital transmission format; a unique propriety Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ether cable.

OPTIONS

INPUT EXPANDER/OUTPUT EXPANDER

EXi8 Input Expander

YDIF 1U

EXi8 input expanders convert analog microphone/line audio to digital and transmits the signal using Yamaha's YDIF format. The EXi8's preamps can be controlled remotely from an MTX processor via Ethernet cable.



EXO8 Output Expander

YDIF 1U

EXO8 output expanders feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX Series processors via YDIF.



DIGITAL CONTROL PANELS

DCP Series Digital Control Panel provide flexible external control of several functions such as preset recall, levels, and SD card playback. All three models are available in either US or EU standardized sizes, built to meet the specifications of most regions around the globe.

DCP1V4S

1 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series
Easy connection by CAT5 carrying RS485 + power
Maximum 8 DCPs can be connected to 1 MTX Series



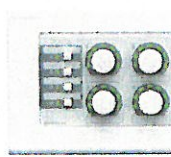
DCP4S

4 Switch equipped Wall Mount Control panel for MTX Series
Easy connection by CAT5 carrying RS485 + power
Maximum 8 DCPs can be connected to 1 MTX Series



DCP4V4S

4 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series
Easy connection by CAT5 carrying RS485 + power
Maximum 8 DCPs can be connected to 1 MTX Series



MTX Series

GENERAL SPECIFICATIONS

Memory bank	PRESET: 50
Mixing Capacity	Mixing Channel: 8 Mono + 3 Stereo + 2 Effect Return + 8 Insert Output Busses: 8 Mono
Input Channel Functions	Mono CH: 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor (only available in ch 1-4) Stereo CH: 3-band PEQ, Comp, Auto Gain Control
Output Channel Functions	Room Delay, Room EQ, Speaker Processor, X-Over (1way, 2way), Delay, 6-band PEQ, Limiter
Internal Processing	Priority Ducking, Ambient Noise Compensator
Sampling frequency rate	48kHz
Signal delay	Less than 2.5ms (AD-DA @48kHz)
Total harmonic distortion*1	Less than 0.05% (+4dBu, Gain:-6dB), Less than 0.1% (+4dBu, Gain:+6dB)
Frequency response	20Hz to 20kHz, +0.5dB, -1.5dB
Dynamic range	107dB (Gain:-6dB)
Hum & noise level (20Hz to 20kHz, Rs=150Ω)	-62dBu (Gain: +66dB), -81dBu (Gain: -6dB)
Phantom Power	+48V
Crosstalk (@1kHz)	-100dB
Heat diffusion	43kcal/h max
Power requirements	AC100V-240V 50Hz/60Hz
Power consumption	50W
Dimensions (W x H x D)	480 x 44 x 362mm (18.9" x 1.7" x 14.3"), 1U
Weight	4.8kg (10.6lbs)

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

ANALOG INPUT SPECIFICATIONS

Input terminal	GAIN	Actual load impedance	For use with nominal	Input level		Connector
				Nominal	Max. before clip	
INPUT 1-8	+66dB -6dB	10kΩ	50-600Ω Mics & 600Ω Lines	-62dBu +10dBu	-42dBu +30dBu	Euroblock*
ST IN 1,2			600Ω Lines	-10dBV	+10dBV	RCA Pin Jack**

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual Source Impedance	For use with nominal	Output level		Connector
			Nominal	Max. before clip	
OUTPUT 1-8	75Ω	10kΩ Lines	+4dBu	+24dBu	Euroblock*

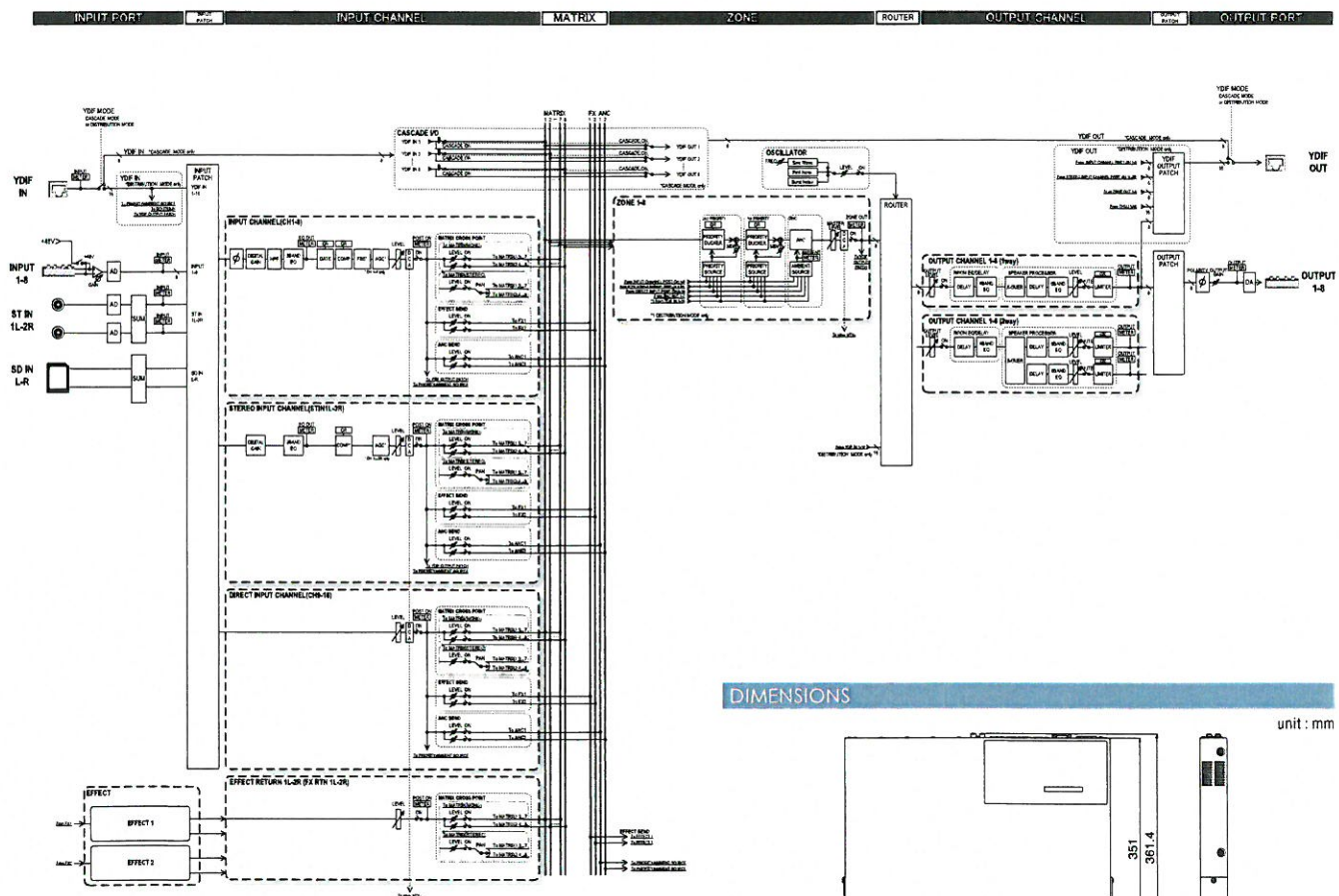
DIGITAL INPUT AND OUTPUT SPECIFICATIONS

Terminal	Format	Level	IN/OUT	Connector
YDIF In	YDIF	RS-422	16 IN	RJ45
YDIF Out	YDIF	RS-422	16 OUT	RJ45

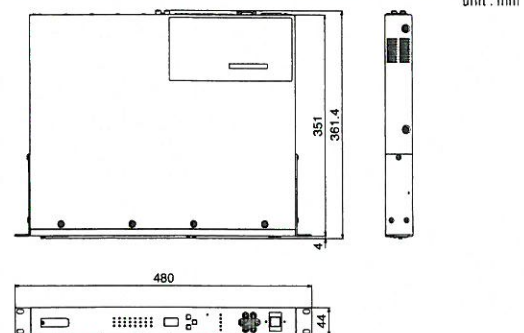
CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
GPI 8IN / 4OUT	IN	0V-5V (IN8 Withstand voltage +24V)	Euroblock
	OUT	Open Collector	Euroblock
	+V	DC5V	Euroblock
Network	Ethernet 100Base-TX	—	RJ-45
REMOTE	—	RS-232C (BAUD RATE: 38.4kbps or 115.2kbps)	D-sub 9pin (Male)
DCP	—	—	RJ-45

BLOCK DIAGRAM



DIMENSIONS



unit: mm

NXAMP TECHNICAL SPECIFICATIONS**POWER SPECIFICATIONS FOR NXAMP Powered TDcontroller**

Number of channels	4 channels, 3 channels (2 non bridged + 1 bridged) or 2 channels (2 bridged)	
	NXAMP4X1	NXAMP4X4
Max. output power (8 Ω)	600 W (non bridged)	1900 W (non bridged)
	1800 W (2 channels bridged)	6600 W (2 channels bridged)
Max. output power (4 Ω)	900 W (non bridged)	3300 W (non bridged)
	2600 W (2 channels bridged mode)	8000 W (2 channels bridged)
Max. output power (2 Ω)	1300 W (non bridged)	4000 W (non bridged)
Power consumption	10 W Standby, 100 W Idle, 1100 W 1/8 Power	20 W Standby, 150 W Idle, 3500 W 1/8 Power

SPECIFICATIONS FROM ANALOG IN TO POWER OUT

Analog Inputs channels	4 channels analog inputs on XLR 3 with a second XLR 3 for linking
Frequency response	+/- 0.5 dB from 10 Hz to 20 KHz
Input Impedance	20 KOhm.
Max Input Level	+28 dBu
Dynamic Range	All Channels = 105dB unweighted
THD + Noise	Typical 0.1% flat setup
Latency time	0.5 ms on a flat setup
Power Supply	Dedicated version for 100 ~ 120 Volts or 220 ~ 240 Volts or Dual Voltage version

FRONT AND BACK PANEL FEATURES

Audio Inputs	• 4 balanced analog inputs on XLR with link, using 24 bit converters. • 4 digital inputs via the optional network card slot at the back.	
Power Outputs	4 Speakon outputs	
RS232 port	Allow firmware upgrade for software improvement and new cabinet setups.	
GPIO port	5 Global Purpose Inputs and 8 Global Purpose Outputs	
Front Panel	On/Off switch, Wheel, A/B buttons, 40 char x 2 display. Amp protect/Stand-by/Power LED's. For each ch: volume (15 LEDs), Mute w LED, Output current LED, Protect LED, Peak LED.	
Rear Panel	1 mains socket (2 for NXAMP4X4); RS232; GPIO, Expansion slot, 4 XLR w link, 4 Speakon 4	
	NXAMP4X1	NXAMP4X4
Dimensions & Weight	3U 19" Rack, 457 mm (18") Depth, 16.5kg (36 lbs) net	4U 19" Rack, 457 mm (18") Depth, 24.5kg (54 lbs) net

USER CONTROLS

System Selection	Allows control from all NEXO ranges.
System Set-up	Within the selected range when possible, allows the cabinet to be set for passive/active mode, wideband/crossover mode, choose among crossover point, cardiod/supercardiod mode.
Protection	Multiple Peak Limiters fitted for both selected cabinet and amplifier. Multiple Acceleration, Displacement and Temperature protections on every channel.
Delay	Up to 66m (145 ft.) of delay in 10cm (.4in) steps
Input Patching	Any of the 4 analog (or 8) inputs combination to be routed on each output.
Output Gain	Channel gain +/-6dB in 0.5dB steps.
Volume control	Each channel with 16 steps from - inf dB to 0 dB.
Save/Recall	Set-up Stores 32 user set-ups
Array EQ	LF/HF shelving filters to compensate ground/stacking effects, +/-6dB
Security Mode	Password protected for Read-Only or Remote-Only Mode.
Remote control	Full remote control via the Ethersound protocol and ESmonitor™ software.
Certification	UL, SEMKO (CE), CCC, KOREA, TSS, PSE
Green status	Compliant with ROHS and WEEE directive

NXAMP Thermal dissipation and current drawn

Test signal: Pink Noise, bandwidth limited 22Hz to 22 kHz. All channels driven.

NXAMP4X1		Line Current (A)		Watts Dissipated	Thermal Dissipation	
		120V	230V		Btu/h	kcal/h
Idle		1.6	0.9	95	326	82
1/8out	8ohms/ch	11.1	6.1	390	1337	337
	4ohms/ch	16.7	9.2	590	2023	510
	2ohms/ch	21.8	12.0	620	2126	536

NXAMP4X4		Line Current (A)		Watts Dissipated	Thermal Dissipation	
		120V	230V		Btu/h	kcal/h
Idle		2.3	1.3	120	411	104
1/8out	8ohms/ch	26.0	14.3	800	2743	691
	4ohms/ch	40.0	22.0	1300	4457	1123
	2ohms/ch	50.0	27.5	1700	5829	1469

$$1 \text{ BTU} = 1,055.06 \text{ J} = 0.252 \text{ kcal}$$

$$(\text{W}) \times 864 = \text{cal}$$

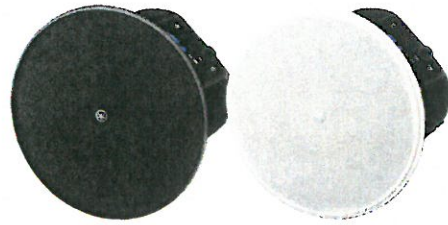
N.B. These values are for NXAMP without NXES104/NXDT104 or NX-DFLT board fitted. If card is fitted, please add 5 Watts to these values.

VXC Series

Ceiling Speaker



VXC8 / VXC8W



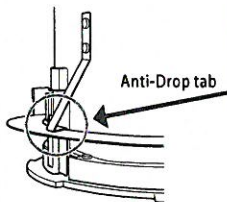
VXC6 / VXC6W



VXC4 / VXC4W

A versatile lineup for clear consistent sound.

- Series offers three different woofer sizes in either black or white.
- Features newly customized transducers for superb music reproduction as well as crystal clear announcements.
- Designed with optimized bass-reflex tuning to offer a firm, tight low-end.
- Equipped with internal transformers that allow both high and low impedance drive, which can be selected by simply switching the tap on the baffle.
- Anti-Drop tab allows the speakers to be mounted temporarily in the ceiling for improved safety and ease of installation.
- A flexible carrying band makes the speakers very portable and allows carrying multiple speakers at once.
- Come complete with O-rings and tile rails for safer and smoother installation.
- Overload protection circuit provided to protect speaker components.



VXC Series

GENERAL SPECIFICATIONS

Model	VXC8 / VXC8W		VXC6 / VXC6W	VXC4 / VXC4W
Speaker Type	2-way, Coaxial type, Acoustic Suspension		2-way, Coaxial type, Acoustic Suspension	Full-range, Bass-reflex
Components	LF	8" Cone	6.5" Cone	4" full-range
	HF	1" Soft dome	0.75" Soft dome	
Coverage Angle ¹	100° conical		110° conical	130° conical
Nominal Impedance	8Ω			
Power Rating ²	NOISE	90W	75W	30W
	PGM	180W	150W	60W
Sensitivity ³ (1W,1m)	90dB SPL		86dB SPL	87dB SPL
Maximum SPL (Calculated, 1m)	116dB SPL		111dB SPL	108dB SPL
Frequency Range ²	-10dB	55Hz - 20kHz	56Hz - 20kHz	80Hz - 20kHz
Connectors	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)		1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)
Transformer Taps	70V	60W (83Ω), 30W (170Ω), 15W (330Ω), 7.5W (670Ω)	60W (83Ω), 30W (170Ω), 15W (330Ω), 7.5W (670kΩ)	30W (170Ω), 15W (330Ω), 7.5W (670Ω), 3.8W (1.3kΩ)
	100V	60W (170Ω), 30W (330Ω), 15W (670Ω)	60W (170Ω), 30W (330Ω), 15W (670Ω)	30W (330Ω), 15W (670Ω), 7.5W (1.3kΩ)
Color (Grille)	VXC8: Black / VXC8W: White		VXC6: Black / VXC6W: White	VXC4: Black / VXC4W: White
Dimensions (Diameter x H)	Ø325 x 259mm (Ø12.8" x 10.2")		Ø286 x 205mm (Ø11.3" x 8.1")	Ø225 x 195mm (Ø8.9" x 7.7")
Weight	6.6kg (14.5lbs)		4.4kg (9.7lbs)	2.6kg (5.7lbs)
Included accessories	O-ring, Tile Rail, Cutout Template, Screws, Owner's Manual			

*1 500Hz - 4kHz

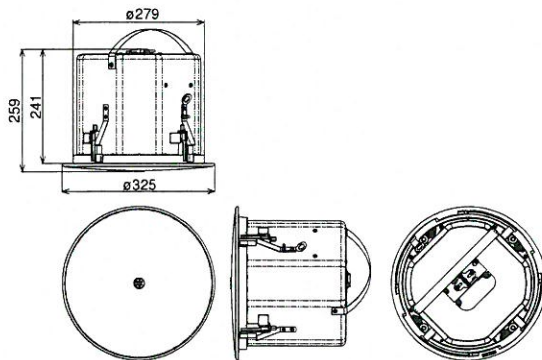
*2 IEC

*3 Half space

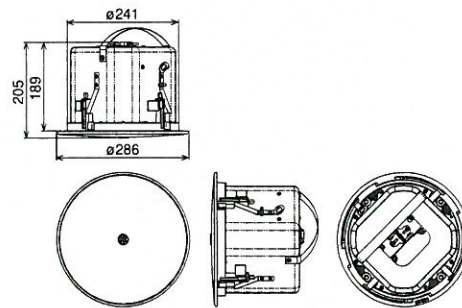
DIMENSIONS

unit: mm

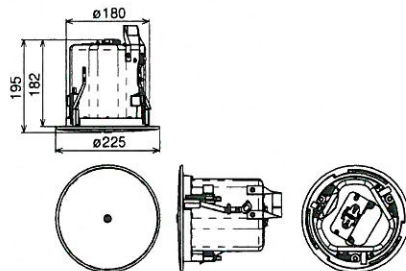
VXC8 / VXC8W



VXC6 / VXC6W

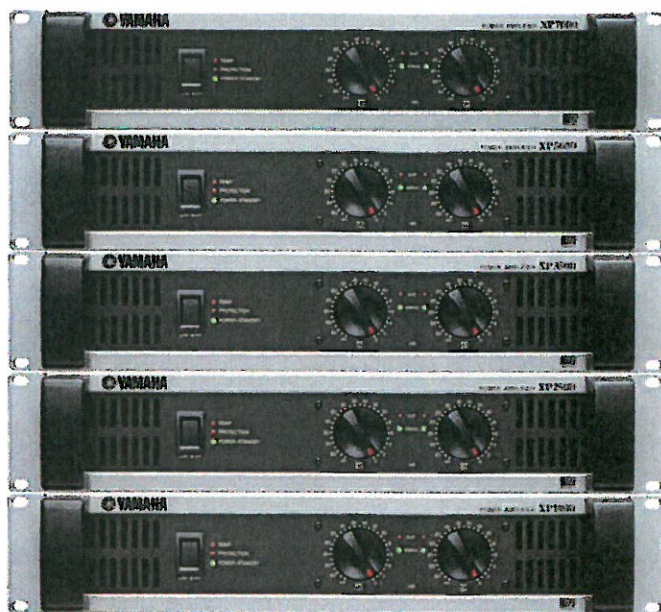


VXC4 / VXC4W



XP Series

Power Amplifiers



XP7000

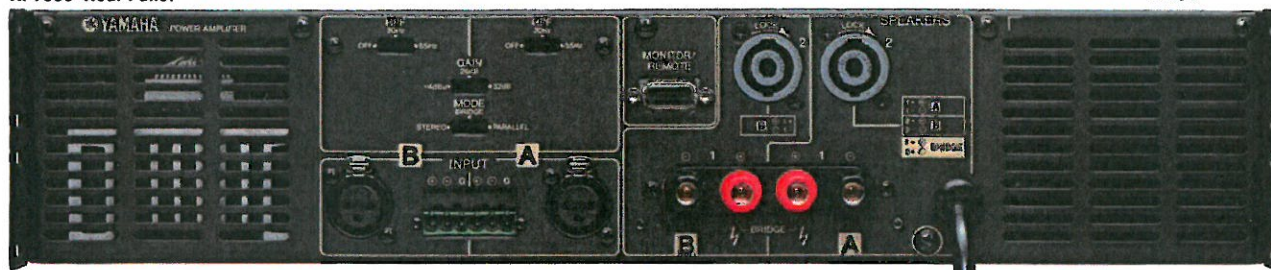
XP5000

XP3500

XP2500

XP1000

XP7000 Rear Panel



2U

Five superb amplifiers optimized for installation use.

- Advanced circuit design and anti-vibration measures inherited from the PC-1N series deliver tight, solid lows, extraordinary midrange presence, and precisely defined highs.
- Exclusive Yamaha EEEngine technology achieves unmatched efficiency.
- +4dBu/26dB/32dB gain switch for flexible level matching.
- Lightweight, compact 2U design for easy handling and installation.
- Monitor and Remote terminals for remote monitoring and control.
- Precision 1-dB/step detented attenuators.
- XLR and Euroblock input terminals.
- Speakon and 5-way binding post output terminals.
- Frequency-switchable high-pass filter for subsonic noise reduction or subwoofer matching.
- Comprehensive protection circuits, indicators and variable-speed cooling.
- Ideal matches for the DME64N/24N Digital Mixing Engines and Installation Series speakers.
- XP7000 can be used to drive 70V lines (stereo), while XP3500 is compatible with 100V lines (bridged) for high-impedance multi-speaker systems.

XP Series

GENERAL SPECIFICATIONS

Model		XP7000	XP5000	XP3500	XP2500	XP1000
Output Power	4 Ω per channel	1100W	750W	590W	390W	165W(120V),155W(230V)
	1kHz					
	8 Ω per channel	750W	525W	390W	275W	135W(120V), 125W(230V), 120W(240V)
	THD+N=1%					
	8 Ω / BRIDGE	2200W	1500W	1180W	780W	330W(120V), 310W(230V)
	2 Ω per channel	1600W	1300W	1000W	650W	250W
	4 Ω per channel	1100W	750W	590W	390W	165W
	8 Ω per channel	750W	525W	390W	275W	135W
	1kHz					
	4 Ω / BRIDGE	3200W	2600W	2000W(120V/240V), 1850W(230V)	1300W	500W
20ms Burst	8 Ω / BRIDGE	2200W	1500W	1180W	780W	330W
	4 Ω per channel	950W	700W	450W(120V/240V), 430W(230V)	310W(120V/240V), 295W(230V)	125W(120V), 115W(230V),110W(240V)
	8 Ω per channel	700W(120V/240V), 90W(230V)	500W	350W	250W	110W(120V), 100W(230V/240V)
	8 Ω / BRIDGE	1900W	1400W	900W	600W(120V/240V), 590W(230V)	250W(120V), 230W(230V), 220W(240V)
20Hz-20kHz	70Vper channel RL=8 Ω	625W	-	-	-	-
	THD+N=0.1%	100V / BRIDGE RL=16 Ω	-	625W	-	-
Input	Att max Switch Position	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB
Sensitivity (dBu)	RL=8 Ω Att.max	+4 +13.7 +7.7	+4 +12.2 +6.2	+4 +10.7 +4.7	+4 +9.2 +3.2	+4 +5.2 -0.8
S/N Ratio	20Hz-20kHz	104dB	103dB	102dB	100dB	96dB
Idle Power Consumption		35W	35W	30W	25W	20W
1/8 Power Consumption (4 Ω /Pink noise)		650W	500W	450W	320W	170W
Power Bandwidth (half power THD+N=0.5%)		10Hz-40kHz				
THD+N	20Hz - 20kHz, half power	0.1%				
Intermodulation Distortion		0.1%				
60Hz 7kHz, 4:1, half power						
Frequency Response	8 Ω , Po=1W,HPF=OFF	MAX 0dB, TYP 0dB, MIN -1dB fs=20H-50kHz				
Channel Separation	Half power RL=8 Ω 1kHz ATT, Max input 600 Ω shunt	70dB				
Residual Noise A _W , min	20Hz-20kHz (DIN AUDIO)	-70dB				
Damping Factor	8 Ω , f=1kHz	350(XP7000, XP5000) / 200(XP3500, XP2500, XP1000)				
Voltage Gain	ATT, max	32dB or 26dB or +4dBu input sensitivity by selecting switch				
Maximum Input Voltage		+22dBu				
Input Impedance		20k Ω (balanced) 10k Ω (unbalanced)				
Controls	Front panel	POWER switch(push on/push off), attenuator(31position) x 2				
	Rear panel	MODE switch(STEREO/BRIDGE/PARALLEL) x 1, HPF switch (20Hz/55Hz/OFF 12dB/oct) x 2, GAIN SELECT switch(32dB/26dB/+4dBu) x 1				
Connectors	Input	XLR-3-31 type/ch, Euroblock connector(balanced)/ch				
	Output	SPEAKON/ch, 5way binding post x 1				
	MONITOR/REMOTE	Dsub15P x 1				
Indicators		POWER/STANDBY x 1(Green/Orange), SIGNAL x 2(Green), CLIP/LIMIT x 2(Red), PROTECTION x 1(Red), TEMP x 1(Red) heatsink temp $\geq$ 85°C				
Load Protection		POWER switch on/off mute, DC-fault:power supply shutdown/do not return automatically.(XP7000, 5000), output relay off/return automatically.(XP3500,2500,1000), clip limiting :THD $\geq$ 0.5%				
Amplifier Protection		Thermal cut the output(heatsink temp $\geq$ 90°C) do not return automatically. VI limiter(RL $\leq$ 1 Ω): Limit the output				
Power Supply protection		Thermal power supply shutdown(heatsink temp $\geq$ 100°C)do not return automatically. (XP7000,5000), power supply shutdown(transformer temp $\geq$ 130°C)return automatically. (XP3500,2500,1000)				
Limiter Circuit		Clip limiting THD $\geq$ 0.5%				
Cooling		Variable-speed fan: x 1(XP3500, 2500, 1000), x 2(XP7000, 5000) (Fan stop at heatsink temp $\leq$ 55°C)				
Power Requirements		120V/60Hz, 230V/50Hz, 240V/50Hz				
Dimensions (W x H x D)		480 x 88 x 456mm (18-7/8" x 3-7/16" x 17-15/16")				
Weight		14kg (30.9lbs)	14kg (30.9lbs)	15kg (33.1lbs)	14kg (30.9lbs)	12kg (26.5lbs)
Included Accessories		Security cover (with a hex wrench), Owner's Manual				

*1: 1/8 Power = 9dB below rated power
 *2: Half Power = 3dB below rated power
 *3: 0dBu = 0.775Vrms

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DIMENSIONS

unit : mm

