



# Idea EXO32-A 3-Way Point-Source FOH Loudspeaker User Manual

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## Idea EXO32-A 3-Way Point-Source FOH Loudspeaker



### WARNINGS AND SAFETY GUIDELINES

- Read this document thoroughly, follow all safety warnings and keep it for future reference.
- The exclamation mark inside a triangle indicates that whatever repairing and component replacement operations must be done by qualified and authorized personnel.
- No user serviceable parts inside.
- Only use accessories tested and approved by IDEA and supplied by the manufacturer or an authorized dealer.
- Installations, rigging and suspension operations must be done by qualified personnel.
- This is a Class I device. Do not remove Mains connector ground.
- Only use accessories specified by IDEA, complying with maximum loads specifications and following local safety regulations.
- Read the specifications and connection instructions before proceeding to connect the system and use only cabling supplied or recommended by IDEA. Connection of the system should be done by qualified personnel.
- Professional sound reinforcement systems can deliver high SPL levels that may result in hearing damage. Do not stand close to the system while in use.
- Loudspeakers produce magnetic field even while they are not in use or even when disconnected. Do not place or expose loudspeakers to any device that is sensitive to magnetic fields such as television monitors or data storage magnetic material.
- Keep the equipment in the safe working temperature range [0°-45°] at all times.
- Disconnect the equipment during lightning storms and when it is not to be used for a long time.
- Do not expose this device to rain or moisture.
- Do not place any objects containing liquids, such as bottles or glasses, on the top of the unit. Do not splash liquids on the unit.
- Clean with a wet cloth. Do not use solvent-based cleaners.
- Regularly check the loudspeaker housings and accessories for visible signs of wear and tear, and replace them when necessary.
- Refer all servicing to qualified service personnel.

- This symbol on the product indicates that this product should not be treated as household waste. Follow local regulation for recycling of electronic devices.
- IDEA declines any responsibility from misuse that may result in malfunction or damage of the equipment.

## OVERVIEW



**EXO 32-A** is a diminutive FOH loudspeaker, capable of delivering sufficient dynamic range and total output for Regional touring concerts and high SPL DJ gigs. Just like the **EXO18**, **EXO32-A** combined with **BASSO** Series subwoofers allows for a highly portable point source Main PA solution, but **EXO32** delivers such performance in an enclosure with similar overall dimensions to a 12" two way speaker.

The 3-way configuration relies on an LF horn-loaded quad 8" cluster, a large format compression driver that takes care of a wide band of midrange frequencies and a **PM4** membrane 1,75" compression driver for sizzling HF reproduction. EXO32 stands out in power density and audio reproduction quality, pole mount, stacked or flown.

**EXO32-A** is designed to be used in almost all situations, together with high-power subwoofer solutions, with a usable frequency range starting at 100 Hz. It's important to take this in consideration when specifying a professional sound reinforcement system, with subwoofers and DSP management.

## FEATURES



- Very high power-density
- 3-Way 4×8" LF Woofers + 3" MF CD + 1.75" HF CD
- 140 dB Short Term Peak SPL
- 3 kW Class-D Powersoft power module
- Integrated 24-bit @48kHz DPS with 4 selectable presets
- Pole-mount, flown and stacked configurations
- Rugged and durable 15/18 mm birch plywood
- Dedicated transport, installation and rigging accessories

## APPLICATIONS



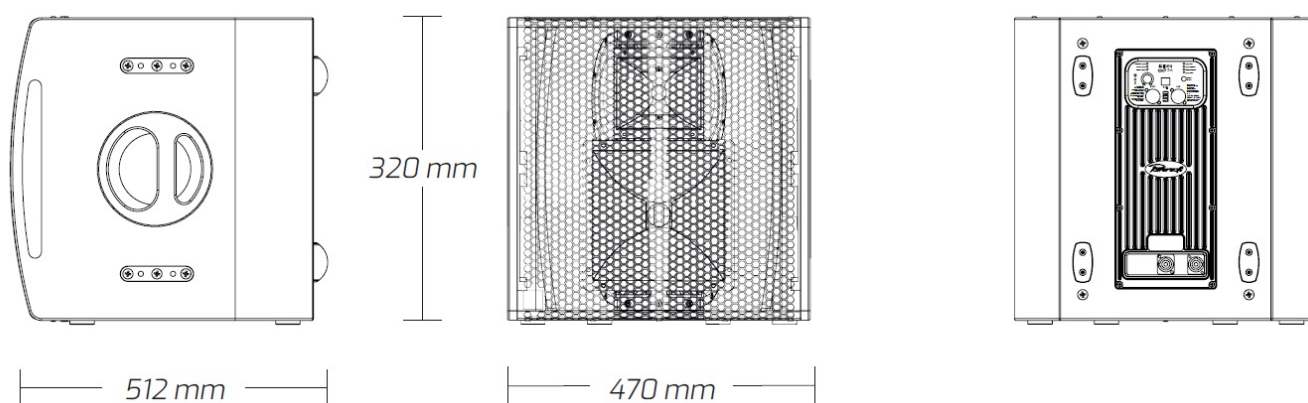
- Point Source FOH
- Side/Front/Drum-fill
- High-performance compact Installed solution for clubs, performance venues, sporting facilities and Houses of Worship

## TECHNICAL DATA

<b>Enclosure design</b>		Trapezoidal
<b>LF Transducers</b>		4 x 8" High performance woofer
<b>MF Transducers</b>		1 x 3" Compression Driver
<b>HF Transducers</b>		1 x 1.75" Compression Driver
<b>Class D Amp Continuous Power</b>		3 kW
<b>DSP</b>		24bit @ 48kHz AD/DA – 4 selectable presets Preset 1 – Flat FOH Preset 2 – LF Cut/ Indoor Preset 3 – HF Boost / Long-throw Preset 4 – FLAT/Close field
<b>SPL (Continuous/Peak)</b>		134/140 dB SPL
<b>Frequency Range (-10 dB)</b>		70 – 21000 Hz
<b>Frequency Range (-3 dB)</b>		–
<b>Coverage</b>		MF horn: 80°/50° HF horn: 80°/60° (H/V)
<b>Dimensions (WxHxD)</b>		470 x 470 x 470 mm (18.5 x 18.5 x 18.5 in)
<b>Weight</b>		40 kg ( 88.18 lb)
<b>Audio Signal Connectors Input Output</b>		XLR XLR
<b>AC Connectors</b>		2 x Neutrik powerCON® I/O

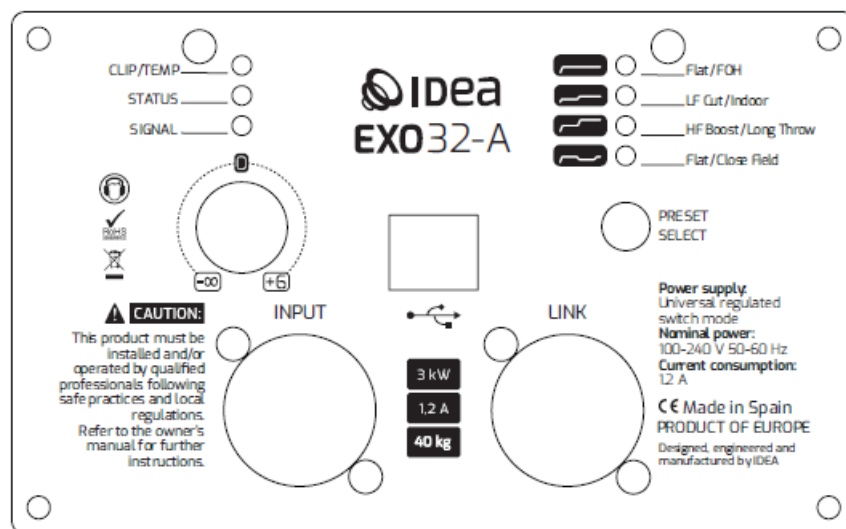
<b>Power Supply</b>		Universal, regulated switch mode
<b>Nominal Power Requirements</b>		100 – 240 V 50-60 Hz
<b>Current Consumption</b>		2.7 A
<b>Cabinet Construction</b>		15 + 18 mm Birch Plywood
<b>Grille</b>		1.5 mm perforated weatherised steel with protective foam
<b>Finish</b>		Durable IDEA proprietary High Resistance paint coating process
<b>Handles</b>		2 integrated handles
<b>Feet/Skates</b>		4 + 4 Rubber feet
<b>Installation</b>		12 threaded M8 inserts. Bottom 36 mm pole mount socket
<b>Accessories</b>		Rigging frame (RF EXO32) U-bracket vertical (UB-E32-V) Flight case (FC EXO SM32) 35 mm Pole (K &M-21336)

## TECHNICAL DRAWINGS



## FACTORY PRESETS

**EXO32-A** features a DSP Preset Selector that allows the sound engineer choose from 4 different processing set-ups, to facilitate quick implementation and easy control from the speaker management system or digital mixer.



### PRESET 1 – FLAT FOH

Standard voicing of the EXO32A, offering optimal performance and coverage between 5 and 15 meters. Ideal as an ultra compact solution for audiences 250 – 750 px outdoor.

### PRESET 2 – LF CUT/ INDOOR

Often when a high power loudspeaker is used indoor the LF buildup created by the acoustics of the room can interfere with the tonal clarity of the system. To minimize such phenomenon, this preset reduces the amplitude of the signal of the 100-350 Hz LF part of the spectrum.

### PRESET 3 – HF BOOST / LONG-THROW

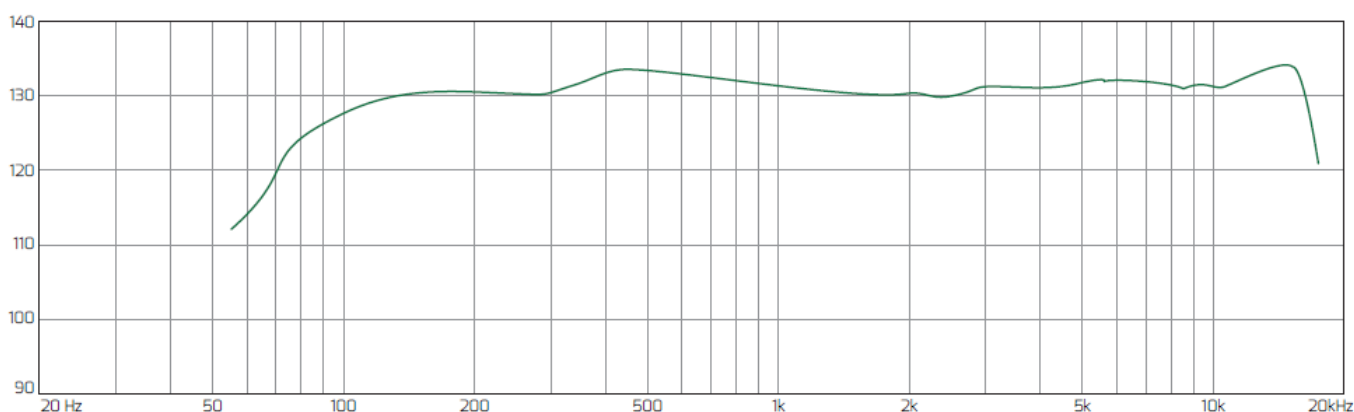
When the EXO32A is flown at a great distance/height from the intended listening area or when it is used with sufficient subwoofers support in a bigger event outdoor, the user can select this preset to compensate the natural loss of HF energy over distance, being most effective between 7,5 and 15 m. This preset is also useful in certain very acoustically dampened, non reverberant environments.

### PRESET 4 – FLAT/CLOSE FIELD

This preset features an adjustment of the phase and frequency response of the EXO32 for distances between 1,5 and 5 m in applications such as Drum-fill, DJ monitors or rehearsal rooms.

## FREQUENCY RESPONSE

dB SPL



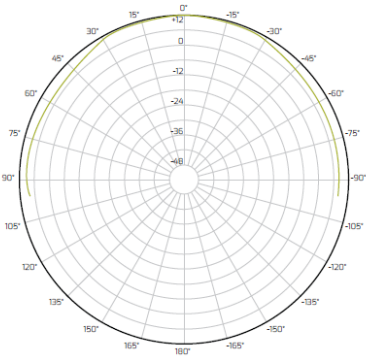
This graph shows the frequency response for a 1-watt swept sine signal in an anechoic environment ( $4\pi$ ), measured at 3m and scaled down at 1 m.

In order to provide more precise information for acoustical analysis, a 1/12 octave smoothing has been applied.

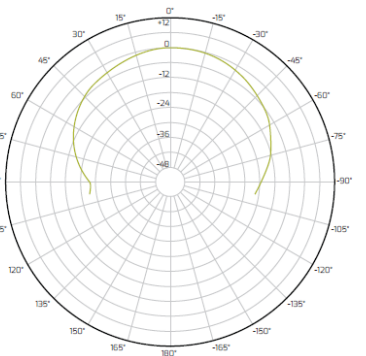
## POLAR GRAPHS



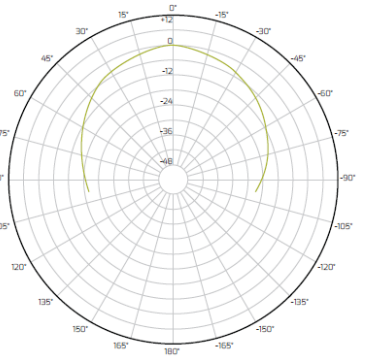
HORIZONTAL MF/HF POLAR RESPONSE



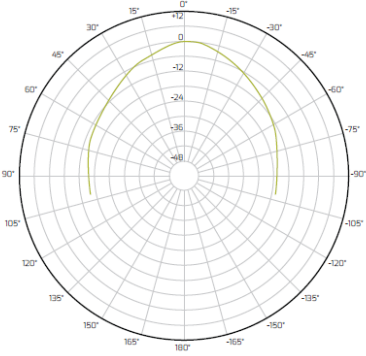
800 Hz



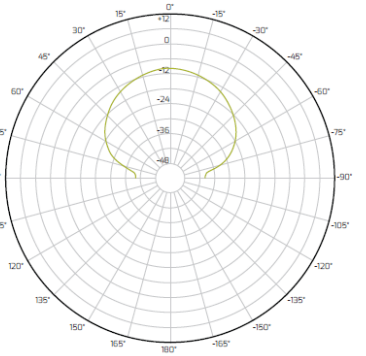
1000 Hz



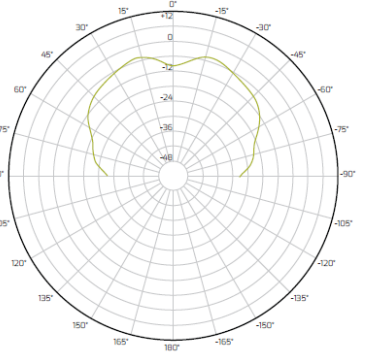
1600 Hz



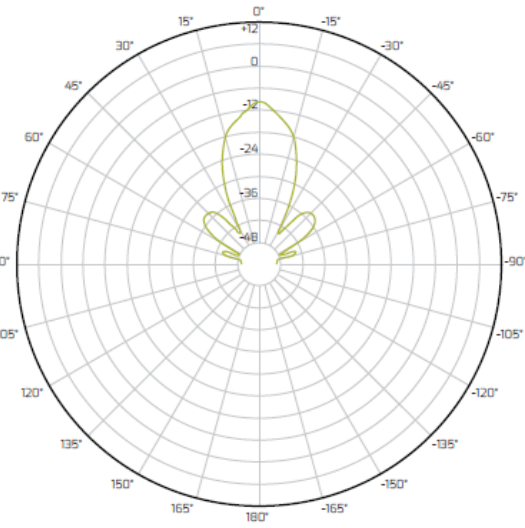
2500 Hz



4000 Hz

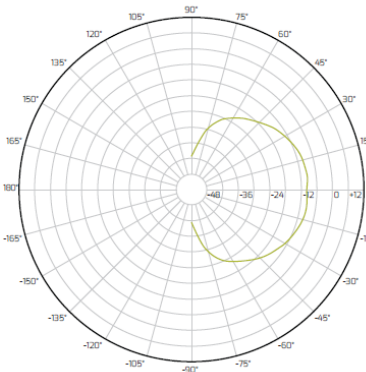


8000 Hz

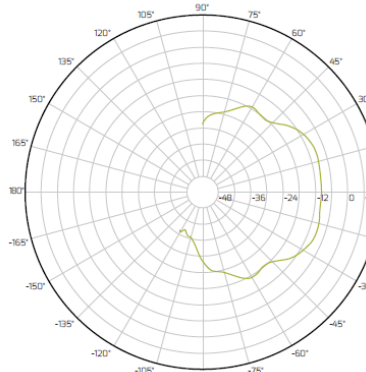


8000 Hz

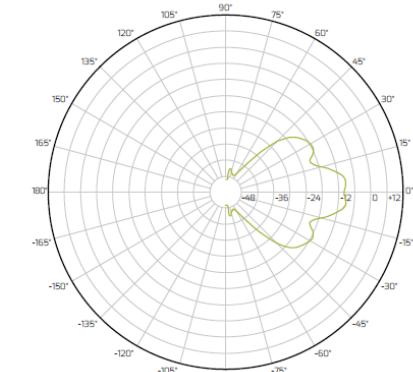
VERTICAL HF POLAR RESPONSE



4000 Hz



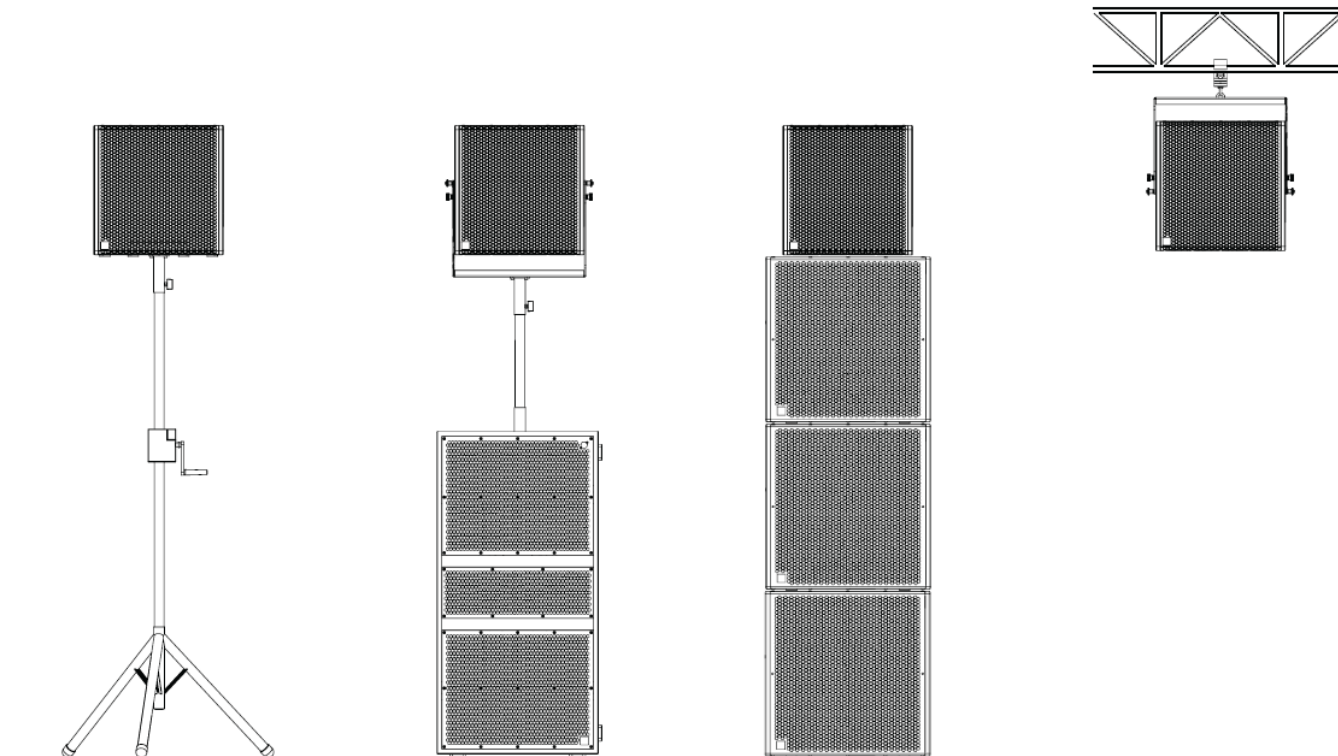
8000 Hz



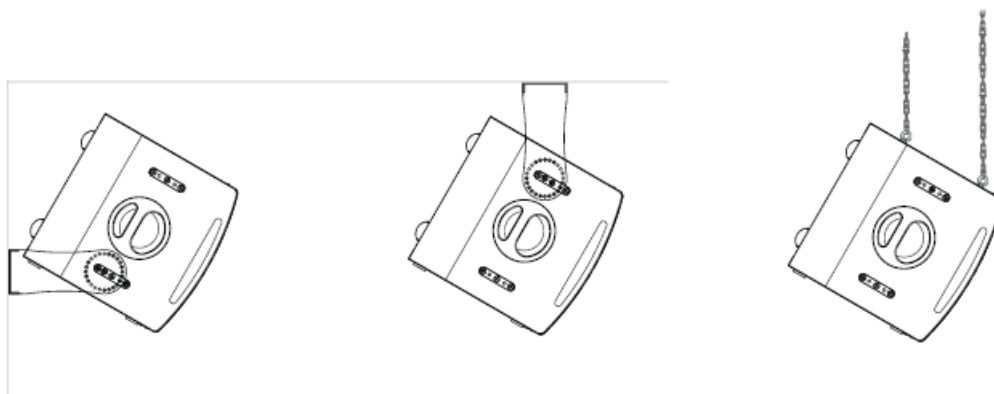
16000 Hz



## INSTALLATION/TRANSPORT ACCESSORIES



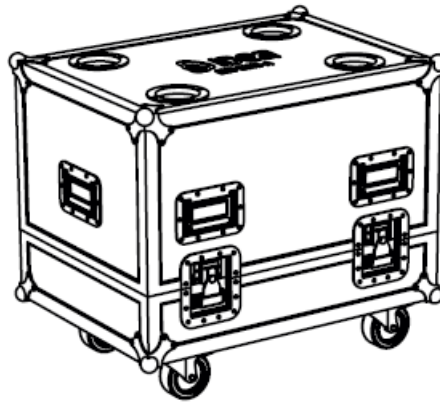
- **EXO32-A** offers a compact, easy-to-deploy point source FOH solution for a wide range of professional sound reinforcement environments.
- From mobile 2.1 and 2.2 setups for FGM/BGM indoor and outdoor applications to portable audio for live music, pole mounted or ground-stacked on **BASSO R** subwoofers, to fixed installations in clubs, HoW, theatres and live-music venues.



### FC-EXO32

- The dedicated accessory **UB-EXO32** allows for a wide range of setups. The U-Bracket can be fitted on walls, ceilings or truss structures (with standard clamps) allowing for 15°, 30°, 45° vertical angulations.
- The PM-L48 pole-mount accessory can be attached to the **UB-EXO32** U-Bracket allowing for pole mount setups (as seen in the examples above).

### FC-EXO32




FC-**EXO** 32-A provides a rugged, touring-grade case for convenient, and safe transport and storage of EXO32-A, allowing for minimum setup times and logistics.

[www.ideaproaudio.com](http://www.ideaproaudio.com)



For further information scan the QR Code or refer to the following web address: [www.ideaproaudio.com](http://www.ideaproaudio.com)  
IDEA is always in pursuit of better performance, greater reliability and design features.  
Technical specifications and minor finish details may vary without notice in order to improve our products.

## Documents / Resources

 EXO32-A 3-Way FOH Loudspeaker, Point-Source FOH Loudspeaker, Loudspeaker idea	<a href="#">Idea EXO32-A 3-Way Point-Source FOH Loudspeaker</a> [pdf] User Manual EXO32-A, 3-Way FOH Loudspeaker, Point-Source FOH Loudspeaker, Loudspeaker
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## References

-  [IDEA Pro Audio](#)