

EXO SM16-A

Dual-8" Active Stage Monitor



QUICKSTART GUIDE

EXO SM16-A is an active high-performance stage monitor, featuring 2 x 8" high-quality woofers and a 3" compression driver. The 80° x 50° dispersion provided by the horn offers a well defined coverage. Its compact design, common in smaller monitors, surprises for its sound pressure.

EXO SM16-A allows for any kind of applications. In its vertical position, acts as a powerful PA loudspeaker. It can be flown with a specific U-bracket. **EXO SM16-A** stands out for its versatility and practicality due to its compact size.

The proximity of the acoustical centres of the two 8" woofers allows for a slight narrowing of the acoustical lobes generated at the crossover frequency, providing tighter directivity and greater focus on the horizontal plane (in Stage monitor position), coinciding with the V/H offset of the HF horn, favouring longitudinal coverage (parallel to the stage axis). This dual woofer arrangement exhibits extremely dynamic response even a very high SPL.

The HF section of the SM16-A utilizes a large magnetic assembly (150 mm) for a 3" voice coil, 1"4 exit compression driver (also present in **EVO88**) coupled with an 80° x 50° horn.

This large HF system ensures clear, undistorted MF/HF and very high SPL at both stage monitoring distances and in stage Fill/FOH applications.

The DSP presets included in the Powersoft 1,2 kW power-module offer four possibilities.

Stage Monitor is the basic preset for onstage standing performers (with vocal or instrument microphones situated between 1,55 and 1,85 m from the monitor) with de-emphasis of critical troublesome frequencies to expedite the monitor mixing engineer work.

The Close Field preset is intended for musicians that play or perform while sitting down, with the monitor much closer (900 mm to 1300 mm), like drummers, pianists and guitarists.

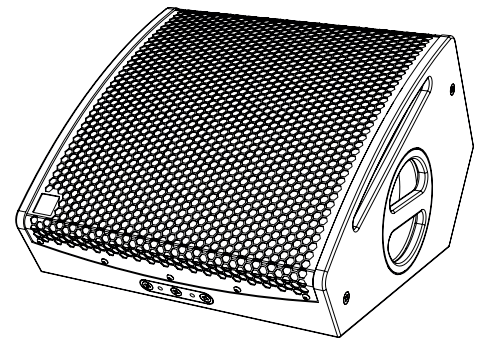
The Full Range preset offers a linear and flat response for the SM16 to be used as Main PA in portable systems or as side/front/stage fill, covering larger distances and audiences.

And the 100 Hz HPF preset offers the same uncoloured sonic characteristics with even greater dynamic headroom when used with subwoofers as Drum-Fill or FOH.

EXO SM16-A offers all the most welcome features of a dedicated stage monitor, with diminutive footprint, great multipurpose versatility and extraordinary output for such a compact loudspeaker.

It is available with a tilt & lock U-Bracket for Pole mounting and Truss suspension.

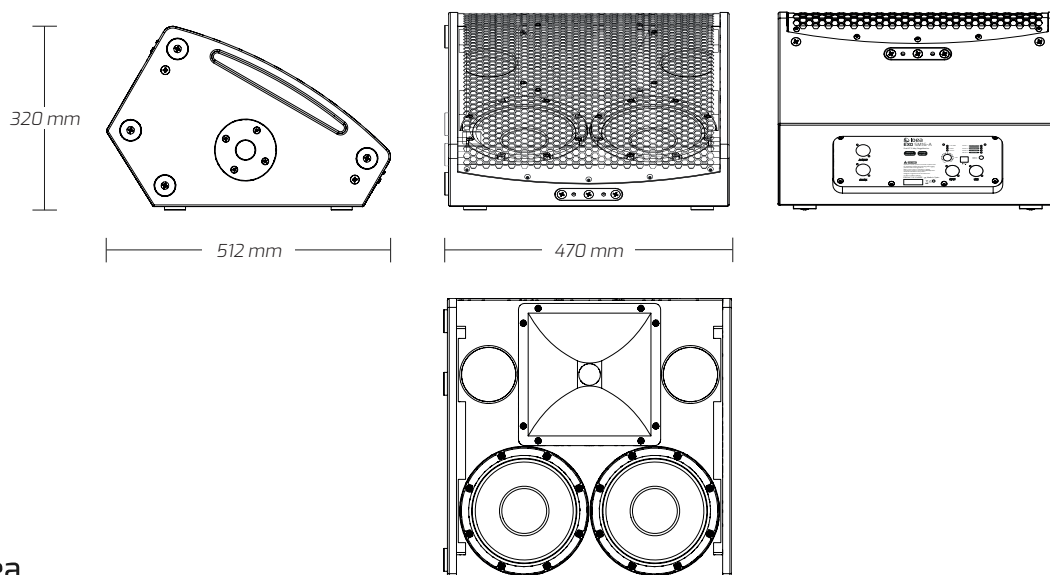
A two-unit wheeled flight-case (with all necessary power and signal cabling) is optional, as well as soft-padded protective covers.



TECHNICAL DATA

Enclosure design	Wedged
LF Transducers	2 x 8" High performance woofer
HF Transducers	3" Voice coil Compression Driver (1.4 Exit, 120 mm magnet)
Class D Amp Continuous Power	1.2 kW
DSP	24bit @ 48kHz AD/DA - 4 selectable presets: Preset 1 - Stage Monitor Preset 2 - Close Field Preset 3 - Long-Range Preset 4 - 100 Hz HPF
SPL (Continuous/Peak)	130/136 dB SPL
Frequency Range (-10 dB)	52 – 20000 Hz
Frequency Range (-3 dB)	72 – 18000 Hz
Coverage	50°/80° (H/V)
Dimensions (WxHxD)	470 x 320 x 512 mm (18.5 x 12.6 x 20.2 in)
Weight	25.5 kg (56.2 lb)
Audio Signal Connectors	
Input	XLR
Output	XLR
AC Connectors	2 x Neutrik powerCON® I/O
Power Supply	Universal, regulated switch mode
Nominal Power Requirements	100 - 240 V 50-60 Hz
Current Consumption	1.3 A
Cabinet Construction	15 + 18 mm Birch Plywood
Grille	1.5 mm perforated weatherised steel with protective foam
Finish	Durable IDEA proprietary Aquaforce High Resistance paint coating process
Handles	1 integrated handles
Feet/Skates	8 Rubber feet
Installation	14 threaded M8 inserts. Bottom 36 mm pole mount socket
Accessories	U-bracket (UB-EXO-SM16) Flight Case (FC EXO SM16) 35 mm Pole (K&M-21336)

TECHNICAL DATA



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.



- Loudspeaker 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.



WARRANTY

- All IDEA products are guaranteed against any manufacturing defect for a period of 5 years from date of purchase for acoustical parts and 2 years from date of purchase for electronic devices.
- The guarantee excludes damage from incorrect use of the product.
- Any guarantee repair, replacement and servicing must be exclusively done by the factory or any of authorized service centres.
- Do not open or intend to repair the product; otherwise servicing and replacement will not be applicable for guarantee repair.
- Return the damaged unit, at shipper's risk and freight prepaid, to the nearest service centre with a copy of the purchase invoice in order to claim guarantee service or replacement.

DECLARATION OF CONFORMITY

I MAS D Electroacústica SL

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*Declares that: **EXO SM16-A***

Complies with the following EU Directives:

RoHS (2002/95/CE) Restriction of Hazardous Substances

LVD (2006/95/CE) Low Voltage Directive

EMC (2004/108/CE) Electro-Magnetic Compatibility

WEEE (2002/96/CE) Waste of Electric and Electronic Equipment

EN 60065: 2002 Audio, video and similar electronic apparatus. Safety requirements.

EN 55103-1: 1996 Electromagnetic compatibility: Emission

EN 55103-2: 1996 Electromagnetic compatibility: Immunity



www.ideaproaudio.com



For further information scan the QR Code
or refer to the following web address: www.ideaproaudio.com/product-detail/exo-sm16-a

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.

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