

EX6 Technical Data Sheet

Introduction

The EX6 is a very high quality compact speaker system producing a 2-way full range solution, which defies its size. With amazing clarity for musical reproduction, the EX6 is perfect for discreet installations or audio visual presentations where sound quality is paramount but size also matters. The EX6 features state of the art components including NVPD compression driver, 6" woofer and complete on-board control with electronic crossovers, phase alignment, equalization and speaker protection integrated into the EX6's amplifier module.

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 117dB sustained output, 120dB peak with very high dynamic range and low noise floor
- 200W of total power with complete on-board speaker management system
- 180W high efficiency, current enhancing, switching low frequency amplifier
- Very high quality 20W, low IM distortion, Class AB, high frequency amplifier with transformer balanced output
- Compact design allows use with high pass filter to adjust equalization and phase response
- Wide dispersion 100° H x 100° V horn
- New patent pending 1.75" (44 mm) Nitride Titanium diaphragm compression driver with complex geometry phase plug for higher output, exceptionally low distortion, extended frequency response and neodymium magnet structure
- 6" woofer with revolutionary Active Impedance Control (AIC) voice coil technology and neodymium magnetic motor structure dramatically increases force, lowers distortion and provides increased frequency response linearity
- Proprietary top handle design for simplified handling and carrying, integrates one M10 suspension point, Omnimount™ bracket point and four M6 points
- Additional side and bottom M10 points for flexible bracket, rigging, and installation options
- Easy fix pole mounting accessory fastens into the back of the unit
- LED indicators for signal present, limiter, thermal condition and power ON status



Application

Specifically designed for reproduction of recorded music in near field applications

- Suitable in Fixed installations as full range stand-alone or with subwoofers
- Excellent peripheral re-enforcement for main KV2 systems
- Portable PA for Multi-Media applications
- Compact floor monitoring solutions
- Domestic and Professional studio monitoring

System Acoustic Performance	
Max SPL Long-term	117dB
Max SPL Peak	120dB
-3dB Response	68Hz to 20kHz
-10dB Response	62Hz to 28kHz
Crossover Point	2.0kHz

High Frequency Section	
High Horn Coverage Horizontal / Vertical	100° x 100°
Throat Exit Diameter / Diaphragm Size	1" / 1.75"
Diaphragm Material	Nitride Titanium
Magnet Type	Neodymium

High Frequency Amplifier Specification	
Type	Class AB Push-Pull
Rated Continuous Power	20W
Distortion	<0.05%
Operating Bandwidth	2.0kHz to 28kHz

Low Frequency Section	
Acoustic Design	Front Loaded, Bass Reflex
Woofer Size / Voice Coil Diameter / Design	6" / 1.75" / Trans Coil
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Low Frequency Amplifier Specification	
Type	High Efficiency Switching
Rated Continuous Power	180W
Distortion	<0.05%
Operating Bandwidth	62Hz to 2.0kHz

Signal Input	
Input Sensitivity	1V RMS
Input Impedance	20 kΩ

Power	
Power Connector	Neutrik PowerCon®
Operating Voltage Range	100 to 120V @ 60Hz 230 to 250V @ 50Hz
Recommended Amperage	2.5A 115V 1.25A 230V

Cabinet	
Cabinet Material	Baltic birch
Handles	1
Pole Mount	Optional - Stand Adapter EX6
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	395 mm (15.55")
Width	220 mm (8.66")
Depth	274 mm (10.78")
Weight	12 kg (26.4lbs)

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Architectural Specifications

The Loudspeaker shall be a 2-way Active driven design, using SLA Technology - (Super Live Audio). Amplifier power, electronic crossovers, phase alignment, equalisation and speaker protection are integrated into the EX6's amplifier module.

The Loudspeaker enclosure shall consist of one 6" Neodymium magnet structure Mid Bass driver featuring Active impedance control technology and one 1" Nitride Titanium Compression high frequency driver mounted to a low compression, constant directivity horn assembly.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant paint finish.

The Loudspeaker woofer components shall be protected by an acoustically full size transparent rigid metal grille. The enclosure is a very compact design. The enclosure shall incorporate one ergonomically designed recessed handle on the top of the enclosure. The handle provides a M10 hang point as well as four additional M6 bracket points a similar M10 point is on the bottom of the enclosure when utilising an EX6 Horizontal Bracket. There are two side-mounted M10 hang points that can be used with the EX6 Vertical Bracket or eyebolts.

For pole mount application, use the optional Stand Adapter.

The EX6 Amplifier provides a 180W, high efficiency amplifier for low-mid and a 20W low distortion amplifier for high frequency.

The EX6 Amplifier features a control panel featuring AC power in, XLR connector audio input and output, level control potentiometer +/- 6dB, LED status light (power, limit/thermal signal input indicator) and a 90Hz high pass filter switch.

The EX6 amplifier shall have an input Impedance of 20Kohm. The input sensitivity shall be 1.0V RMS.

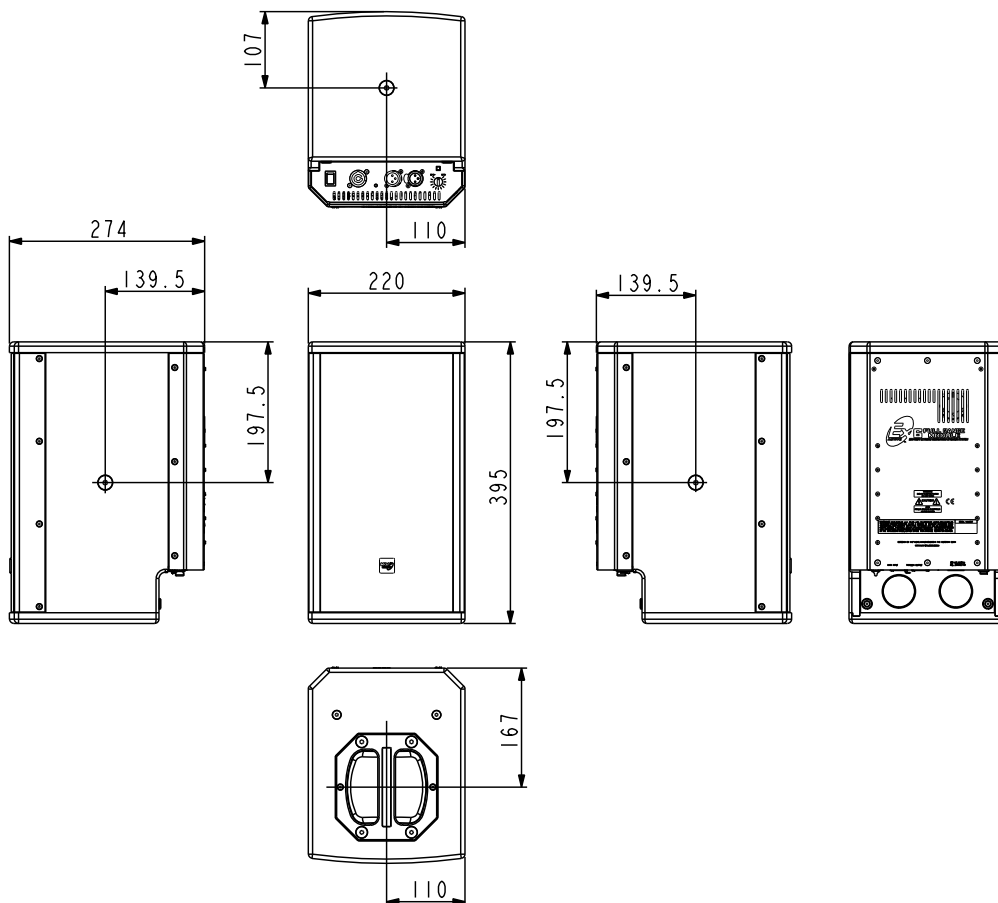
The EX6 Amplifier shall have a Neutrik PowerCon connector for mains supply, with an operating voltage range of 100 to 120V @ 60Hz or 230 to 250V @ 50Hz. The power amplifier shall have recommended amperage of 2.5A @115V, 1.25A @230V.

Temperature controlled variable speed fan will assist internal convection cooling systems.

The system acoustic performance shall be -3dB 68Hz -20kHz. The system maximal long term SPL shall be 117dB.

The Speaker shall have dimensions of: Height 395 mm / 15.55", Width 220 mm / 8.66", Depth 274 mm / 10.78", The weight shall not exceed 12 kg (26.4lbs)

Dimensional Drawings



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