EX2.5 MkII Technical Data Sheet

Introduction

The EX2.5MkII is a double 15" subwoofer and the 'active' brother of the ES2.6 passive bass module. It provides real depth and power where high bass output is required. The product uses the same low frequency amplifier found inside the EPAK2500/2500R and features in-built stereo crossovers, high pass outputs, and full overdrive protection. It also features a new speaker level output on an AP4 connector to drive one additional passive ES2.6 subwoofer from its own internal amplifier. *(Not to be used with a passive ES2.5)*

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 137dB sustained output 140dB peak (when used with an ES2.6)
- 1600W high efficiency, current enhancing, switching low frequency amplifier
- Speaker level AP4 output to drive one additional passive ES2.6 subwoofer
- Complete on board subwoofer management including equalization, crossover, filters, amplifier overdrive protection, output level and phase controls
- Excellent reproduction of sub bass frequencies with high transient content at high output levels
- Stereo or Mono inputs with through signal outputs and 125Hz High Pass outputs
- Two 15" high output, low frequency drivers with 4" (100 mm) inside/outside, epoxy baked, high temperature, voice coil assembly and ferrite magnetic structures
- Four propietry side handles for simplified handling and carrying
- Heavy duty front grille to work with the innovative new EX2.5 magnetic cart
- Acetyl copolymer high impact, low friction feet are located on two sides allowing vertical or horizontal set up and easy cabinet movement
  Feet lock in to the new ES subwoofers
- Six internal corner braces with twelve M10 suspension points M20 top hat for pole mounting applications
- LED indicators for signal present, limiter, thermal condition and power ON status

Application

Specifically designed to accompany and compliment the EX Mid High speakers to create a true full range high output system

- Easily incorporated as a system with multiples of any of the EX range
- Scalable into multiple-larger systems
- Fixed installations

System Acoustic Perfomance	
Max SPL Long-term	134dB
Max SPL Peak	131dB
-3dB Response	38Hz to 125Hz
-10dB Response	34Hz to 125Hz
Impedance	8Ω
Crossover Point	125Hz

Output Channels	
Number of Channels	1
Minimum load impedance per channel	4Ω

Low Frequency Section	
Acoustic Design	Twin Asymmetrical loading
Woofer Size / Voice Coil Diameter / Design	2x 15" / 4" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Ferrite

Low Frequency Amplifier Specification	
Type	High efficiency, Low frequency, Current-enhancing switch mode
Rated Continuous Power	1600W
Distortion	<0.05%
Operating Bandwidth	34Hz to 125Hz

Signal Input	
Input Channels	2
Input Sensitivity	1.0V RMS
Input Impedance	20kΩ (balanced)

Signal Output	
Signal Output Channels	Mid/High, Through
Slave Speaker Output	AP4

Features	
Level Control	-6 to +6dB
Phase	0° / 180°
RMS Limiter	YES
Indicators	Power ON/Thermal, Limiter

Power	
Power Connector	Neutrik PowerCon®
Output Power Connector	Neutrik PowerCon®
Operating Voltage	115V / 230V / 250V
Operating Voltage Range	100 to 120V@60Hz | 205 to 240V@50Hz | 225 to 260V@50Hz
Recommended Amperage	16A 115V | 8A 230V | 8A 250V

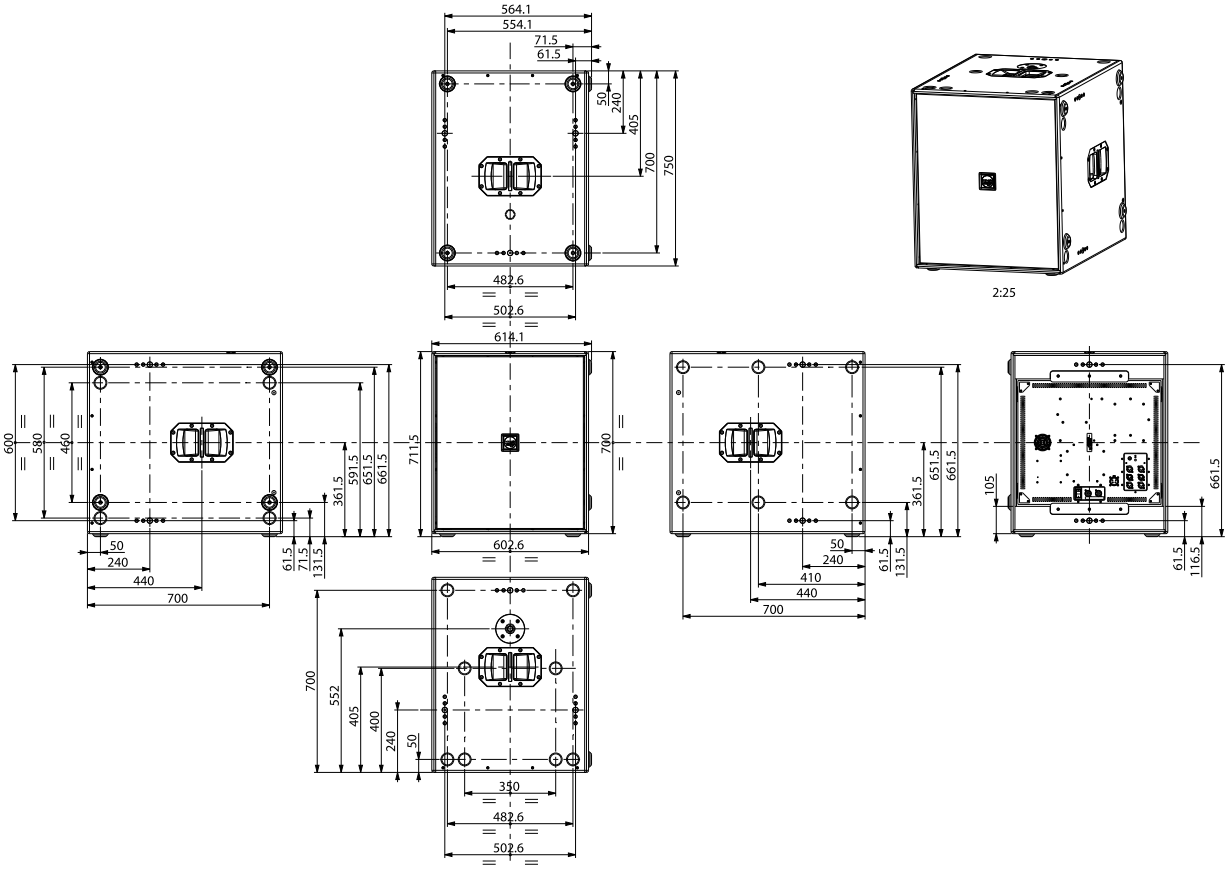
Cabinet	
Cabinet Material	Baltic birch
Handles	4
Pole Mount	M20
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	711.5 mm (28.0")
Width	602.6 mm (23.72")
Depth	750 mm (29.52")
Weight	97 kg (214lbs)

Architectural Specifications

The Loudspeaker shall be a Twin Chamber Bass Reflex design, using SLA Technology - (Super Live Audio), Amplifier power, electronic crossovers, phase alignment, equalisation and speaker protection are integrated into the EX2.5 MkII's amplifier module.
The Loudspeaker enclosure shall consist of two 15" Ferrite magnet structure Low Frequency-high definition-output drivers.
The cabinet enclosure shall be made from reinforced Baltic Birch Ply, with toughened impact and wear resistant paint finish.
The enclosure shall include four high impact, low friction feet on the bottom panel.
The EX2.5 MkII Amplifier shall provide 1600W. The EX2.5 MkII Amplifier control panel shall feature AC power in, XLR connector audio input and output, level control potentiometer -/+ 6dB, LED status light (power, limit/thermal signal input indicator). The EX2.5 MkII amplifier shall have an input Impedance of 20Kohm. The input sensitivity shall be 1.0V RMS.
The EX2.5 MkII shall use balanced, female XLR connectors for audio signal input, and a male XLR connectors to provide through output signal.
The EX2.5 MkII shall feature Left and Right stereo inputs and outputs allowing the product to be integrated into stereo systems that require one subwoofer. The EX2.5 MkII shall also feature Left and Right High Pass Outputs that can be used to provide audio signal to full range speakers being used in conjunction with the EX2.5 MkII. The high pass filter shall provide a crossover point of 125Hz. The EX2.5 MkII shall feature a phase switch that changes the phase of the high pass audio output signal.
The EX2.5 MkII shall feature an AP4 connector output which allows you to connect the EX2.5 MkII to one KV2 Audio ES2.6 enclosure thus expanding the capability of the EX2.5 MkII. No other cabinet can be connected to this output and no responsibility will be taken for any misuse of this facility.
The EX2.5 MkII 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 16A @115V, 8A @230V.
Temperature controlled variable speed fan will assist internal convection cooling systems.
The system acoustic performance shall be -3dB 38Hz -125Hz. The system maximum long term SPL shall be 134dB.
The Speaker shall have dimensions of: Height 711.5 mm / 28.0", Width 602.6 mm / 23.72", Depth 750 mm / 29.52", The weight shall not exceed 97 kg (107.8lbs)

Dimensional Drawings



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KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic
Tel.: +420 383 809 320
Email: info@kv2audio.com | Web: www.kv2audio.com