

EX1.8 Technical Data Sheet

Product code: KVV 987 223 - 250V, KVV 987 007 - 230V, KVV 987 008 - 115V

Introduction

The EX1.8 is a high output single 18" subwoofer housing a revolutionary VHD technology neodymium woofer. The EX1.8 features an impressive 1000 watts of power courtesy of KV2 Audio's switching amplifier technology and provides a very firm foundation on which to build a powerful EX system, or as a standalone subwoofer for any existing system.

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 131dB sustained output, 134dB peak
- 1000W high efficiency, current-enhancing, switching, low frequency amplifier
- Complete on board subwoofer management including equalization, crossover filters, amplifier overdrive protection, output level and phase controls
- Excellent reproduction of bass frequencies with high transient content at high output levels
- Stereo or Mono inputs with through signal outputs and 120Hz High Pass outputs
- 18" high output, low frequency woofer driver with 4" (100 mm) inside/outside, epoxy baked, high temperature, voice coil assembly and neodymium magnetic structure
- Two recessed side handles for simplified handling and carrying
- Acetyl copolymer, high impact, low friction feet are located on two sides allowing lock-in and easy cabinet movement
- Five internal corner braces with four 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 any of the EX range as a true full range option

- High powered portable PA
- Fixed installations
- Scalable into larger systems

System Acoustic Perfomance	
Max SPL Long-term	131dB
Max SPL Peak	137dB
-3dB Response	30Hz to 125Hz
-10dB Response	27Hz to 125Hz
Crossover Point	125Hz
Low Frequency Section	
Acoustic Design	Asymmetrical Bandpass
Woofer Size / Voice Coil Diameter / Design	18" / 4" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Low Frequency Amplifier Specification	
Type	High efficiency, Low frequency, Current-enhancing switch mode
Rated Continuous Power	1000W
Distortion	<0.05%
Signal Input	
Input Channels	2
Input Sensitivity	1.0V RMS
Input Impedance	20 kΩ
Signal Output	
Output Channels	Mid/High, Through

Features	
Level Control	-6 to +6dB
Phase	0° / 180°
RMS Limiter	YES
Indicators	Power ON/Thermal, Limiter
Power	
Power Connector	Neutrik PowerCon®
Operating Voltage Range	100 to 120V@60Hz 205 to 240V@50Hz 225 to 260V@50Hz
Recommended Amperage	10A 115V 5A 230V 5A 250V
Cabinet	
Cabinet Material	Baltic birch
Handles	2
Pole Mount	M20
Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	
Height	612 mm (24.1")
Width	700 mm (27.56")
Depth	750 mm (29.5")
Weight	65 kg (143.3lbs)

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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 EX1.8's amplifier module.

The Loudspeaker enclosure shall consist of one 18" Neodymium magnet structure Low Frequency high definition woofer driver.

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 EX1.8 Amplifier shall provide 1000W. The EX1.8 Amplifier control panel shall feature AC power in, XLR connector audio input and output, level control potentiometer ± 6 dB, LED status light (power, limit/thermal signal input indicator). The EX1.8 amplifier shall have an input Impedance of 20Kohm. The input sensitivity shall be 1.0V RMS.

The EX1.8 shall use balanced, female XLR connectors for audio signal input, and a male XLR connector to provide through output signal.

The EX1.8 shall feature Left and Right stereo inputs and outputs allowing the product to be integrated into stereo systems that require one subwoofer. The EX1.8 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 EX1.8. The high pass filter shall provide a crossover point of 120Hz. The EX1.8 features a phase switch that changes the phase of the high pass audio output signal.

The EX1.8 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 10A @115V, 5A @230V.

The system acoustic performance shall be -3dB 30Hz -125kHz. The system maximal long term SPL shall be 131dB.

The Speaker shall have dimensions of: Height 612 mm / 24.1", Width 700 mm / 27.56", Depth 750 mm / 29.5", The weight shall not exceed 65 kg (143.3lbs)

Dimensional Drawings

