

EX1.8 Technical Data Sheet

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 Performance | |
|-----------------------------|---------------|
| Max SPL Long-term | 131dB |
| Max SPL Peak | 134dB |
| -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 +/- 6dB, 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.

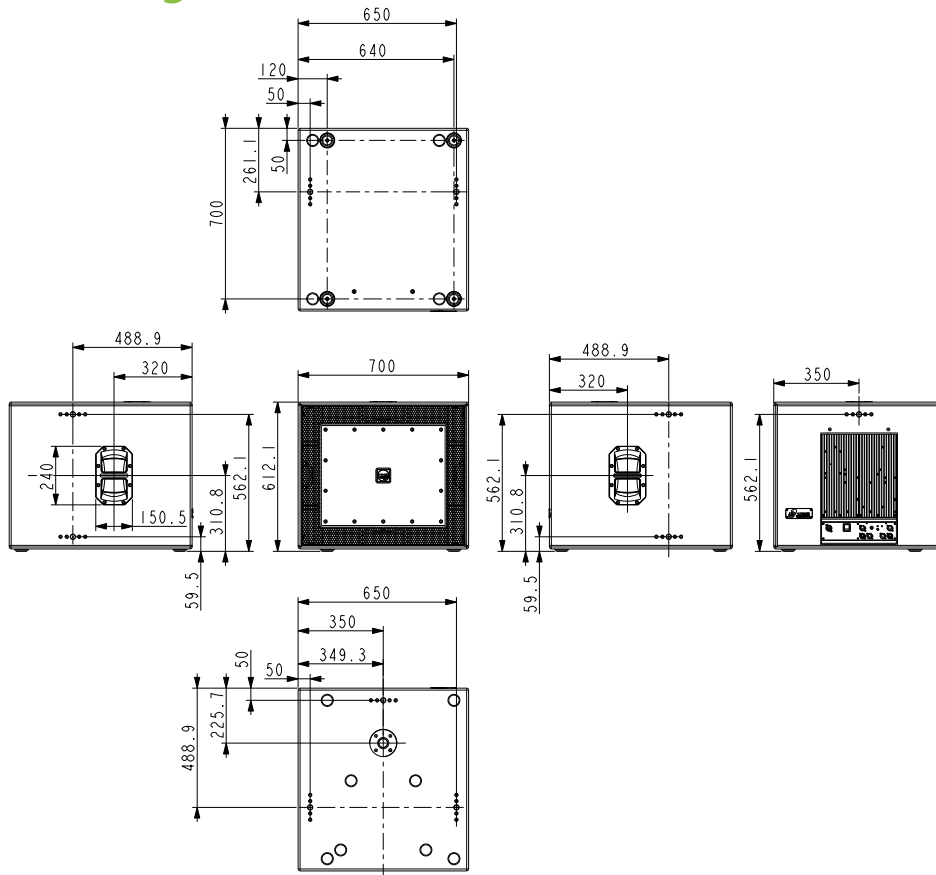
The EX1.8 shall feature Left and Right stereo inputs and outputs allowing the product to be integrated into stereo systems that require one subwoofer. The EX1.8 shall also feature Left and Right High Pass Outputs that can be used to provide audio signal to full range speakers being used in conjunction 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



The future of sound. Made perfectly clear.



KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic

Tel.: +420 383 809 320

Email: info@kv2audio.com | Web: www.kv2audio.com