

# EX2.2 Technical Data Sheet

Product code: KVV 987 135 - 250V, KVV 987 013 - 230V, KVV 987 014 - 115V

## Introduction

The EX2.2 is a double 12", compact, active subwoofer system. On-board electronics include a stereo crossover with high pass outputs and full overdrive protection. Featuring KV2 Audio's switching amplifier technology, precision manufactured woofer designs and a high efficiency, twin chamber acoustic design, the EX2.2 delivers tight, fast, controlled bass response at very high output levels from a small cabinet footprint.

## Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 130dB sustained output, 133dB 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
- Two 12" high output, low frequency drivers with 3" (75 mm) inside/outside, epoxy baked, high temperature, voice coil assembly and neodymium magnetic structures
- 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
- Two 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 and compliment the EX10 / EX26 as a true full range high output system

- Portable PA applications
- Fixed Installations
- Scalable into multiple-larger systems
- Easy to add to existing systems

| System Acoustic Perfomance                 |                                                |
|--------------------------------------------|------------------------------------------------|
| Max SPL Long-term                          | 130dB                                          |
| Max SPL Peak                               | 136dB                                          |
| -3dB Response                              | 45Hz to 125Hz                                  |
| -10dB Response                             | 40Hz to 125Hz                                  |
| Crossover Point                            | 125Hz                                          |
| Low Frequency Section                      |                                                |
| Acoustic Design                            | Twin Asymmetrical loading                      |
| Number of Drivers                          | 2                                              |
| Woofer Size / Voice Coil Diameter / Design | 12" / 3" / Inside Outside                      |
| Diaphragm Material                         | Epoxy Reinforced Cellulose                     |
| Magnet Type                                | Neodymium                                      |
| Low Frequency Amplifier Specification      |                                                |
| Type                                       | High efficiency, Current-enhancing switch mode |
| Rated Continuous Power                     | 1000W                                          |
| Distortion                                 | <0.05%                                         |
| Operating Bandwidth                        | 40Hz to 125Hz                                  |
| 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                                                    |
| Power                   |                                                        |
| 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    | 10A 115V   5A 230V   5A 250V                           |
| Cooling                 | Passive                                                |
| Cabinet                 |                                                        |
| Cabinet Material        | Baltic birch                                           |
| Handles                 | 2                                                      |
| Pole Mount              | M20                                                    |
| Color                   | "Orange peeled" Matt Black or any RAL                  |
| Physical Dimensions     |                                                        |
| Height                  | 491 mm (19.33")                                        |
| Width                   | 594 mm (23.38")                                        |
| Depth                   | 616 mm (24.25")                                        |
| Weight                  | 49 kg (107.8lbs)                                       |

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## Architectural Specifications

The Loudspeaker shall be a Twin Chamber Asymmetrical Bandpass design, using SLA Technology - (Super Live Audio), Amplifier power, electronic crossovers, phase alignment, equalisation and speaker protection are integrated into the EX1.2's amplifier module.

The Loudspeaker enclosure shall consist of two 12" 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 EX2.2 Amplifier shall provide 1000W. The EX2.2 Amplifier control panel shall feature AC power in, XLR connector audio input and output, level control potentiometer  $\pm 6$ dB, LED status light (power, limit/thermal signal input indicator). The EX2.2 amplifier shall have an input Impedance of 20Kohm. The input sensitivity shall be 1.0V RMS.

The EX2.2 shall use balanced, female XLR connectors for audio signal input, and male XLR connectors to provide through output signal.

The EX2.2 shall feature Left and Right stereo inputs and outputs allowing the product to be integrated into stereo systems that require one subwoofer. The EX2.2 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 EX2.2. The high pass filter shall provide a crossover point of 125Hz. The EX2.2 features a phase switch that changes the phase of the high pass audio output signal.

The EX2.2 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 45Hz -125kHz. The system maximal long term SPL shall be 130dB.

The Speaker shall have dimensions of: Height 491 mm / 19.33", Width 594 mm / 23.38", Depth 616 mm / 24.25", The weight shall not exceed 49 kg (107.8lbs)

## Dimensional Drawings

