



EX2.2 FEATURES

- ▶ 1000 Watt High-efficiency amplifier featuring current-enhancing switch mode technology with linear active filter
- ▶ High efficiency acoustic design delivers over 130dB of output
- ▶ Complete, on-board subwoofer management including equalization, crossover filters, amplifier overdrive protection, output level and phase controls
- ▶ Left and Right Stereo or Mono inputs with through signal outputs and high pass outputs
- ▶ Two 12-inch, high output, high efficiency low frequency drivers with 3.00" (75mm), high temperature voice coil assembly and carbon fiber reinforced cone assemblies
- ▶ Professional, Baltic birch construction with highly resistant polymer coating
- ▶ Two recessed side handles for simplified handling and carrying
- ▶ Acetal copolymer high impact, low friction feet are located on two sides allowing vertical or horizontal system set up, lock-in and easy cabinet movement
- ▶ Two internal corner braces with four M10 suspension points
- ▶ Top hat for pole insertion and speaker placement
- ▶ LED indicators for signal present, limiter, thermal condition and power ON status

1000-Watt Dual 12-inch Subwoofer with current-enhancing Switch Mode technology

Preliminary Data

The EX 2.2 is a compact, high output active subwoofer system. Through the use of proprietary amplifier technology, precision manufactured, high-tech woofer designs and the innovative implementation of a high efficiency, twin chamber acoustic design, the EX 2.2 delivers tight, fast, controlled bass response at very high levels. It falls directly out of KV2 Audio's philosophy to develop products with increased dynamic range, very high output and a consistent sound character no matter what the output level. The system establishes new performance standards for a compact subwoofer that can only be achieved through the integration of new amplifier, transducer and electronic control technologies that are closely tied to a passion for taking performance to the next level.

Use it with existing systems or the KV2 EX10.

The EX2.2 is can be used in a variety of system applications. It can add high performance bass reproduction to active speaker systems such as KV2 Audio's EX10 loudspeaker, or it can be easily used with passive speaker systems. The built in electronic high pass filter,

EX2.2

Active Bass Module



EX2.2 Accompaniments:

KV2 SPKR POLE

1.5M (5ft) telescoping pole for mounting speakers on subwoofers.

EX2.2-CART

Painted Baltic birch custom cart with heavy duty blue wheels

EX2.2-U-Bracket

Allows fixed mounting of EX 2.2

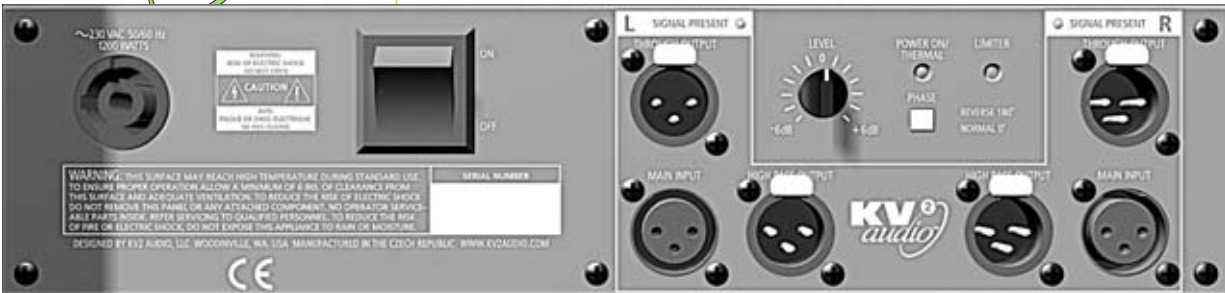
EX10

Ultra-high-output 500-watt active full-range speaker system.

EX2.2 Applications

- ▶ Small to medium-sized Live and Playback Applications
- ▶ Portable PA Systems for speech/multimedia playback
- ▶ Mobile DJ
- ▶ Fixed Installations

PRELIMINARY



phase control and independent output level controls provide high precision, easy to use system integration circuitry.

Electronics

Complete on-board signal processing. Amplifier power, electronic crossovers, equalization and speaker protection are integrated into the EX 2.2's amplifier module. On-board electronics ensures fast, easy set up, complete control and long term reliability.

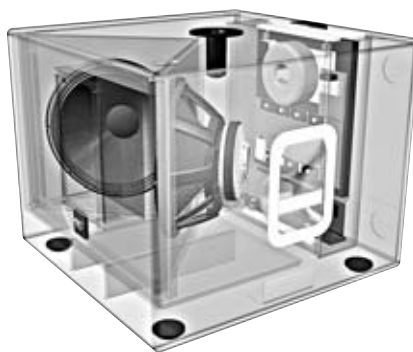
New amp design. An improved version of KV2 Audio's switch mode, current enhancing low frequency amplifier has been specially developed for the EX 2.2. The new design improves overall system efficiency to over 90% and delivers 1000 watts of continuous power.

KV2 Audio has developed an amplifier topology that delivers two unique characteristics that are critically important for high performance, active subwoofer systems. The EX 2.2 amplifier topology delivers very high efficiency and generates minimal thermal losses allowing the amplifier to deliver extremely high power levels reliably and simplifying the cooling system.

Secondly, in order to reproduce low frequency information with high transient levels and

extend the operational boundaries of the acoustic design, the amplifier needs to deliver an extraordinary amount of current in order to maintain the woofer under control. This is especially true under standard "phase shift" conditions in which the amount of total voltage the amplifier can deliver is limited and the current requirement is sometimes doubled.

Through the implementation of a unique, switch mode amplifier technology, the EX 2.2 amplifier delivers on both objectives, providing extremely high efficiency, low losses and



delivering the highest woofer control by delivering higher current levels under "phase shift" conditions.

Stays cool no matter what. The electronics are fitted onto to a large, finned, aluminum alloy heat sink providing high flow, passive cooling and eliminating standard mainte-

nance cycles associated with forced cooled amplifier designs. The entire assembly is fitted on a dampened suspension system that isolates low frequency mechanical energy and ensures long term reliability.

Acoustic Components

Heat-resistant voice coils. The EX 2.2's woofer technology is a high efficiency design. The transducers feature, high temperature voice coil assemblies that undergo multiple baking and curing processes as well as advanced magnetic structures with complex cooling systems. The woofer cones have been specially developed to withstand the demanding environment created by the high loading inside the EX 2.2.

Enclosure Design

Twin chambers. The EX 2.2 was designed using new concepts in twin asymmetrical acoustic chambers that deliver very high speaker loading and output from a relatively small cabinet footprint. It is ideal for use in live applications that require reproduction of low frequencies with very high transient content at high output levels.

Small but mean. The EX 2.2 is a very compact, lightweight enclosure featuring a number of ergonomically

designed parts that make it an easy system to set up and use. KV2 designed and tooled a new very compact "side handle" that is recessed into each side of the cabinet. There are eight custom molded, low friction feet placed at the bottom and back of the cabinet. Routed "foot" cutouts allow easy stacking.

Hardware-o-Rama. There are two industrial grade, internal braces placed at the top of the cabinet. Each brace is held in place by four M8 bolt and feature two M10 hang points providing a wide range of installation and suspension flexibility. There is also a pole mount "top hat" located at the top of the cabinet.

EX2.2 Technical Specifications

Acoustic Performance

-3dB response	38Hz - 130Hz
-10dB response	32Hz - 150Hz
Max SPL long-term	130dB
Max SPL Peak	133dB
Crossover Point	120Hz

Low Frequency Section

Number of Drivers	2
Acoustic Design	Acoustic loading via twin asymmetrical chambers
Woofer Size	12.00" (300mm)
Voice Coil Diameter	3.00" (75mm) Inside/Outside epoxy baked
Diaphragm Material	Epoxy-reinforced cellulose
Magnet Type	Advanced ventilated ferrite

Bass Amplifier Specifications

Type	High-efficiency, Current-enhancing Switch Mode technology with Linear Active Filter
Rated Continuous Power	1000 Watts
Distortion	<.05% THDz
Cooling	Passive - finned aluminum heatsink
Power Supply	Iron core toroidal transformer

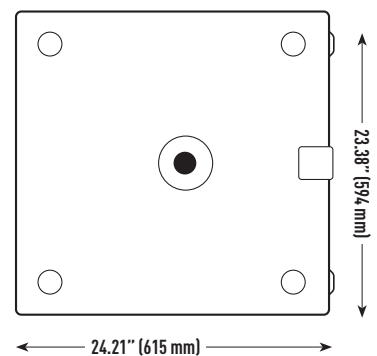
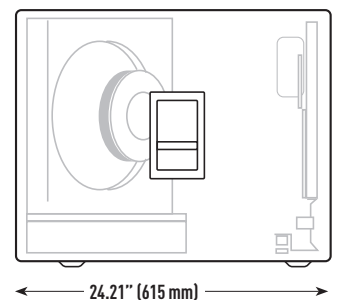
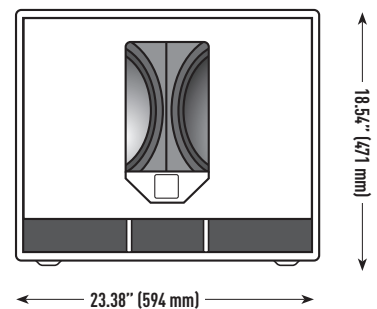
Line input Power

US	115VAC, 60Hz
Recommended amperage service	10 Amps
AC Connector	Neutrik Powercon™ NAC3MPA Connector (Included)
Europe	230VAC, 50Hz
Recommended amperage service	7 Amps
AC connector	Neutrik Powercon™ NAC3MPA Connector (Included)

Control Panel

System Level Control	Rotary control (-6db to +6db)
Phase Control	2-position push-button 0° / 180° switch
System Status LED Indicators	Green / Red - Power ON / Thermal Auto-reset Yellow - Limiter Green - Signal Present - Left Input Channel Green - Signal Present - Right Input Channel
ON / OFF Switch	2-position rocker switch

Specifications continued on page 4



EX2.2

Active Bass Module



Signal Input/ Output

Main Signal Input Connector	Female XLR
Signal Impedance	20 k Ω (Balanced Signal)
Through Signal Output	Male XLR
High Pass Output	Male XLR
High Pass Frequency	120Hz

EX 2.2 Electronic System Controls

Electronic band pass crossover filters
 Equalization
 Limiting and control of amplifier system's RMS output
 Power supply and amplifier thermal protection

Construction Features

Basic Geometric Design	Standard rectangular Geometry
Material	15mm Baltic Birch
Finish	Ultra Wear Resistant Black Polymer Coating



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PRELIMINARY

Hardware	Two (2) Integrated "L" brackets
	Four (4) 10mm suspension points
	One (1) Each 1.375" (35mm) Pole Mount
	Two (2) Each recessed side handles
Grill	Two (2) Each 2.36 (60mm) low friction feet located on bottom and rear of cabinet
	Acoustically Designed Perforated Metal

Physical

Height	18.54" (471mm)
Width	23.38" (594mm)
Depth	24.21" (615mm)
Weight	114 lbs. (52kg)

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