

## THE MONTANA KAS

### THE KICK ASS SPEAKER!

Known as the "*Home Wrecker*" The **Montana KAS** is made of the very best materials available. The cabinet materials, the drivers, the crossover components, the wiring and the dampening materials are selected for their sonic merits and construction quality. Nothing but the best could be chosen for this limited edition, statement loudspeaker.



### THE CABINET

**Elegant, substantial, solid as a rock.**

The cabinet is shaped like an asymmetrical hexagon, and the internal midrange and mid-bass cabinets are triangular in shape. There are several advantages to this construction method: 1) no parallel surfaces within the cabinet which eliminates standing waves that would otherwise create distortion, and 2) no multiple board within the cabinet will have the same resonance frequency, effectively eliminating amplified resonance vibrations from the cabinet. To even further eliminate unwanted distorting vibrations from the cabinet, it has been reinforced with nothing less than seven internal peri-metrical braces.

This proprietary design produces a three-dimensional highly detailed sound-stage.



### THE WOOFERS

**Well-defined and fast.**

The KAS utilizes two custom made 12" Montana KAS woofers per cabinet. This driver is the fastest 12" driver on the planet. It is custom made to our specifications using driver technology new to the high end speaker industry. This ultra long stroke driver with its low reflection, rectangular dye-cast basket and huge focused field magnet is the most durable woofer ever to grace a high end speaker. It has an extremely stiff conical paper cone attached to the basket with a specially formulated, santoprene surround. Cone brake-up and coloration are virtually eliminated.

## THE MONTANA KAS

The Montana 12" woofers are mounted in an optimized bass-reflex enclosure with a port at the bottom front of the cabinet allowing ease of placement in your listening room. This speaker has the quick room controlling bass you expect from Montana but with new unyielding levels of impact and slam you have to experience to believe.

### THE MID-BASS DRIVERS

**Perfect tonality and in total control.**

A special 7" ultra high definition mid-bass driver has been created for the KAS from ScanSpeak of Denmark. The 18W Montana features a long stroke, low reflection Magnesium/Aluminum basket. It is built with an ultra low distortion vented motor system that is perfectly matched to the 1 1/2" voice coil driving an inflexible, extremely light carbon fibre impregnated paper cone.

The M18 has a concave dust cap that eliminates any unwanted low-midrange glare and a linear/low loss suspension for dynamics and speed. The Montana mid-bass units operate in separate acoustic suspension enclosures with a triangular shape. No PVC pipe or sonatube enclosures are used here! Our mid-bass cabinets are heavily braced 1" medite. These drivers are responsible for the foundation necessary for accurate midrange. The mid-bass must be as quick as the midrange in order to properly recreate a believable sound-stage free from coloration or haze. The mid-bass drivers provide the snap and agility which mini monitors and planar's seem to boast, however these drivers play in the big league when it comes to dynamic power and contrast.

### THE MID-RANGE DRIVERS:

**Clear as crystal, strong as steel.**

The 4" ScanSpeak 13M8-Montana midrange drivers have remarkably low distortion figures and high transient capability because of their advanced Kevlar cones. This driver has a newly developed magnet motor system with extreme magnetic flux in the air gap. It utilizes ScanSpeak's patented symmetrical drive, along with a symmetrical lathed, vented pole piece, mounted to an unusually heavy die cast magnesium basket. On top of the extremely light aluminum voice coil former and wire, we had ScanSpeak mount their 38mm fabric dome to ensure the most logical transformation of the movements from the voice coil to the dome and cone. The 13M has a long-throw excursion capability that will ensure clarity, balance and detail. The baffle in the KAS is 3" thick and heavily braced which gives this world class driver an optimum launching platform. No vibration. No coloration. We wouldn't have it any other way.

## THE MONTANA KAS

### THE TWEETER

**All of the air and sparkle without harshness or fatigue.**

The KAS tweeter is a custom ScanSpeak/Montana Revelator. The special hand made 1" fabric dome features a state of the art magnet system. The use of SD copper caps and rings at the magnetic focal point eliminates all electrical phase shifts. Specially designed chambers minimize the air noise and compression allowing for a faster, more detailed sound.

This tweeter gives new meaning to the words natural and detailed. Musical highs sing with accuracy from the KAS. There is a truly unique combination of engineering, material selection and care that is used when making this special tweeter. This is by far the best sounding tweeter we have ever heard and no expense is spared when crafting them. After all, your ears deserve the best.

### DIFFRACTION DAMPENING

**Better sound stage with reduced diffraction.**

The tweeter/mid-range array has been set on the triple layered face plate in a 5mm thick felt mat. As a strong measure of early diffraction control, the tweeter has been mounted behind the sunk-in felt mat, with only a 2-inch hole cut to expose the dome. This specially designed treatment effectively eliminates any diffraction and early reflection from the baffle that could be interfere with detail and ambiance. The baffle of the Montana KAS has been carefully optimized for perfect dispersion. If you believe any of the hype surrounding the imaging qualities of satellite loudspeakers or the supposed improvements of drivers firing in different directions ( bi-polar, di-polar, omni polar and open back planer's) you simply owe it to yourself to listen to a properly set up pair of Montana KAS Loudspeakers. Life size images, superior front to back depth (accuracy) and a wide three dimensional sound-stage, are all benefits of this extraordinary design.

### THE CROSS-OVER

**Computer Optimized for smooth transitions.**

The absolute optimizing of the cabinet, baffle and volume relations along with accurate driver placement, both vertical and horizontal (mounting depth), ensure that very simple cross-over circuits can be utilized in the KAS cross-over. The advantage is only a few audiophile quality components are placed within the signal path, enabling a clean untouched sound from the drivers.

## THE MONTANA KAS

The capacitors used in the Montana KAS are custom manufactured using film and foil to meet our stringent tolerances and specifications. Solen of Canada provides us with coils and audiophile quality 8 GA hookup wire is hand soldered throughout the system. All parts are point to point wired, mounted on separate non resonant boards (one for each section) and mounted to the rock solid cabinet. All cross-over slopes are 24 db. Per octave (an acoustic sum). Efficiencies are matched and drivers are time and phase aligned mechanically and electrically to blend together as one musical source.

The combined filter/driver circuit provides a relatively easy load for your amplifier. The nominal impedance of the KAS is 4.0 Ohms with a minimum of 3.3 Ohms and a maximum of 8.8 Ohms.

### BI-WIRING

**Your connection to perfection.**

To get the most out of this excellent speaker, we have provided two sets of gold terminals. You must run two sets of high quality cables from your amplifier to the DPS, resulting in less interference between the two sections of the crossover.

### SPECIFICATIONS

Frequency Range:	20 - 26000 Hz +/- 3dB
Impedance:	Nominal 4 Ohms (3 Ohms - 9 Ohms)
Sensitivity:	93.5 dB
Power Handling:	900 Watt Continuous (4000 Watt Peak)
X-over points:	80 Hz - 504 Hz - 4032 Hz
Finish:	Custom
Size (HxWxD):	70" x 19" x 22"
Weight:	410 lbs. each (ship. 820 lbs./pair)
MSRP:	\$27,500 (some exotic finishes may be slightly higher)