

THE MONTANA WAS

THE HEAVYWEIGHT CHAMPION

Made in the USA the **Montana WAS** is built with the very best materials available. The cabinet materials, drivers, cross-over components, the wiring and the dampening materials are selected for their sonic merits and construction quality. A lifetime of musical enjoyment is possible with this hand-crafted limited edition, full range loudspeaker.



THE CABINET

Elegant, substantial, solid as a rock.

The WAS Cabinet is made from Medite 46 MDF, special grade of US made hardboard very suited for loudspeaker enclosures. The cabinet is constructed with up to 3 layers of front baffle, totaling 3 inches thick in key areas. The back wall is laminated 2 inches thick and the sides, 1 and 3/4 inches thick. All this contributes to the great weight and stability of the sound coming from WAS.

The internal cabinet is divided in 6 sub-enclosures: the upper 12 inch woofer is operating in a sealed enclosure, the lower 15 inch woofer is operating in it's own vented enclosure. The two 7 inch mid-woofers are in separate sealed enclosures constructed with our special reverse triangle configuration. This cabinet shape totally eliminates standing waves within the sub-enclosure. The same method is used in the two Kevlar 4 inch mid-range drivers sub-enclosures.



THE DRIVERS

Well-defined and fast.

The drivers utilized in the WAS are from two of the best raw driver manufacturers in the world, namely Scanspeak of Denmark and Focal of France. Following is a short description of the WAS custom drivers.

Montana 15 inch Woofer:
Operating range in the WAS is 17-80 Hz.

A Focal custom made driver using a special multi magnet design, with 12 magnets in a cluster configuration. This greatly improves the cooling of the 77 mm voice coil wound on a Kapton former as well as lowers the distortion.

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The straight profiled cone is made from Polyglass. This is attached to the cast aluminum chassis with a coated foam, high compliance positive half roll surround. This driver is known to be the best 15 inch woofer currently available.

Montana 12 inch Woofer:
Operating range in the WAS is 40-80 Hz.

A Focal custom made driver utilizing the same Polyglass straight profiled cone material as the Montana 15 inch woofer. The Montana 12 inch woofer is constructed around a 1400 gr. magnet and a 51mm voice coil wound on a aluminum former. The suspension is made from extremely compliant Neoprene. The aluminum cast chassis have 6 large carrying arms for extreme rigidity, which enable the clean detailed upper bass from the WAS.

Montana 7 inch Mid-woofers:
Operating range in the WAS is 80-500 Hz.

The Montana 7 inch mid-woofer has a special magnet system that eliminates modulation and dynamic distortion, as well as lowers the clipping distortion that is created when the voice coil exceeds its maximum linear excursion. The 7 inch driver is equipped with a non-resonant low loss linear suspension and a very stiff carbon filled paper cone. This driver is responsible for the very open sound and the excellent dynamics and detail in the sound form of the WAS.

Montana 4 inch Kevlar Mid-range:
Operating range in the WAS is 500-5000 Hz.

The Montana 4 inch mid-range driver has remarkably low distortion figure and transient capability caused by use of the Kevlar cone material. This driver has a newly developed magnet motor system with extreme magnetic flux in the air-gap. This driver utilizes ScanSpeak's patented symmetrical drive along with a symmetrical lathed, vented pole piece, mounted to an unusually heavy die-cast basket.

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THE TWEETER

All of the air and sparkle without harshness or fatigue.

On top of the extremely light aluminum voice coil and wire, we had ScanSpeak mount their 38mm fabric dome to ensure the most logical transformation of the movement from the voice coil to cone and dome. The Montana 4 inch mid-range has a long-throw excursion capability that will ensure clarity, balance and detail in the extremely important mid-range.

The ScanSpeak/Montana Revelator Dome Tweeter

The specially hand-made 1 inch dome tweeter utilized in the WAS features a newly developed magnet system with SD copper caps and rings that eliminates electrical phase shift. Specially designed chambers minimize the air noise and compression allowing for a faster, more detailed sound.

The massive faceplate ensures controlled directivity to under 2000 Hz-well below the 5000 Hz crossover point in the WAS.

THE CROSS-OVER

Computer Optimized for smooth transitions.

The crossover in the WAS utilizes absolute top-quality components, Kimber polystyrene capacitors for smaller values, and Solen and SCR high voltage polypropylene capacitors where larger values are needed.

Absolute phase coherence is achieved by high value/wattage shunt resistors that are strategically placed to eliminate crossover phase shift, allowing the WAS to totally disappear from the sound stage for full enjoyment of your music.

Inductors are made from 14 Gauge OFC copper, wound on either air or ferrite cores as needed. All internal wiring is Monster M1.2 - 8 Gauge, high resolution multiconductor cable.

State of the art

The Montana WAS represents the finest loudspeaker PBN Audio can build. We are not aware of any loudspeaker at any price, which we feel betters the WAS in overall performance. We sincerely believe the WAS represents the best value, state of the art loudspeaker money can buy. We invite you to listen to the WAS at your nearest dealer.

THE MONTANA WAS

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:	17 Hz - 22,000 Hz
Impedance:	Nominal 4 Ohms
Sensitivity:	93.5 dB
Power Handling:	500 Watt Continuous (2000 Watt peak)
X-over points:	60 Hz - 500 Hz - 4500 Hz
Finish:	Custom
Size (HxWxD):	72" x 19" x 28"
Weight:	750 lbs. each (ship. 1600 lbs./pair)
MSRP:	\$54,995 (some exotic finishes may be slightly higher)