

## THE MONTANA DPS

### SMALL BUT STATE OF THE ART

Made in the USA the **Montana DPS** is built with the very best materials available. The cabinet materials, the drivers, the 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, truly unique loudspeaker.



### THE CABINET

**Beautiful, slim, solid as a rock.**

Like all Montana Loudspeakers, the Montana DPS is constructed with the superior Medite MDF. This material is made from hardwood chips bonded under extremely high pressure. Medite MDF has a very high glue density to ensure full coverage of the chips and prevent internal voids, therefore making it a superior building material for Montana cabinets.

All cabinet walls are made from 1" MDF board compared to the standard 3/4" used by most other builders. In addition, to ensure that the DPS cabinet is in full control of the energy transmitted from the drivers, the front baffle is laminated with a 3/4" board resulting in a 1 3/4" thick baffle. A 1" thick spiked platform anchors DPS to the floor.



The cabinet is shaped like an asymmetrical hexagon. 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 four internal perimetrical braces. This produces a clean more detailed sound, free from the cabinet colorations that plague lesser designs.

# DIVISION OF PBN AUDIO

## THE MONTANA DPS

### THE DRIVERS

#### **State of the art.**

The DPS utilizes two custom made 5 1/4" Vifa mid-woofers per cabinet. This driver is made with a new long stroke, ultra low reflection magnesium basket. It has an extremely stiff Pentagon shaped conical paper cone attached to the basket with a very low damping, specially formulated, rubber surround. The pentagon shape of this cone, combined with the advanced motor system reduces distortion and cone brake up at all listening levels. These new drivers sound so good we decided to create this very special cabinet for them.

The internal cabinet volume has been divided into two sections by a special "low frequency transparent" foam pad. This special technique enables the DPS to produce the tight upper bass normally associated with a sealed enclosure combined with the solid deep bass of a vented enclosure.

### THE TWEETER

#### **Reaching for new highs.**

The DPS tweeter is based on the same custom made 3/4" Scanspeak/Montana D2010 dome used in our Montana DP. The specially hand made dome driver features a new lower resonance frequency. A hand coated textile diaphragm attached to a precision aluminum wire voice coil with a 27 strand tinsel wire ensures clean detailed highs.

It is well known that the tweeter in a loudspeaker plays a major part in imaging, sound staging and transient attack. Our custom dome has an extremely linear response, low distortion, and wide dispersion. The DPS is capable of startling realism, bringing you closer to the music.

# DIVISION OF PBN AUDIO

## THE MONTANA DPS

### THE CROSS-OVER

**Outstanding quality and design.**

The absolute optimizing of the cabinet, baffle and volume relations along with accurate driver placement ensure that very simple cross-over circuits can be utilized in the DPS cross-over. Very few components are placed within the signal path, enabling a cleaner more pure sound from the drivers. Our standard low pass 6dB/Oct electrical filter combined with the drivers natural roll-off, gives a perfectly smooth transition to the 24dB/oct high-pass section. This results in three drivers operating as one, with a smooth overlap in the cross-over region.

One listen and you will understand the importance we place on quality. Custom Montana film and foil capacitors, Solen inductors and Monster M1.2 internal wiring are used throughout. We have done everything possible to build a speaker that recreates music in an untouched way.

### 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:	37 - 22000 Hz +/- 3dB
Impedance:	Nominal 6 Ohms
Sensitivity:	87.5 dB
Power Handling:	150 Watt Continuous (300 Watt Peak)
X-over points:	4100 Hz
Finish:	Custom
Size (HxWxD):	41" x 9" x 12"
Weight:	65 lbs. each (ship. 170 lbs./pair)
MSRP:	\$2,995.00 (some exotic finishes may be slightly higher)