



### **MAGELLAN VIP su HDSS™ ACTIVE SUBWOOFER**

The importance of the role of low frequencies in high definition audio is finally being realized but the approaches to providing bass detail have few innovators. Subwoofers as realized today utilize resonance for operational efficiency therefore obscuring detail. When using conventional subwoofers their inherent resonance destroys the required flat group delay making it impossible to produce a low frequency foundation that allows for high definition audio with an audiophile speaker system. **The Magellan series** are the first and only subwoofers to deviate from this method of obtaining low frequency output. **ETL™** technology develops the required mass to generate low frequencies using a proprietary high pressure **Embedded Transmission Line** to maintain tight control of the driver even at subsonic frequencies. Accuracy requires rapid decay of motion in the absence of signal as with a low mass tweeter yet the muscle to move the driver must be there on demand when required, essentially a fast start-stop time for low frequencies.

Powered subwoofers are the mainstay of the subwoofer industry and are responsible for the acceptance of the subwoofer in the general audio/video marketplace. This is where the similarity ends because this self-contained low frequency system is out to make serious music happen with an audiophile system. Its' low profile belies its' ability to transform your outstanding yet bass shy audio system into one that you really didn't believe possible. Whether you use one in mono or two for stereo this unit will make smiles appear whenever you listen even at low volumes. The **ETL™** based low frequency system has mystified many with its' component dimensions and huge sound foundation. It is now supporting many designs in the field including horns, planars and dynamic based systems with rhythmic fundamental bass support that synchronizes its' output with that of your main speakers via of fluid coupling. This is the inherent acoustic path of room reflections that typically deteriorate the quality of your mains. The **Magellan VIP su** uses the high pressure **Embedded Transmission Line** to couple signal derived acoustic mass to the 6.5" aluminum diaphragm in real-time. The driver is acoustically isolated from the ambient minimizing its' interaction with the room reflections. The **Magellan VIP su** has a full compliment of controls allowing for effective blending with your mains in virtually any listening room. Speaker and line level inputs as well as high-pass output terminals for your mains are included.





## MAGELLAN VIP su HDSS™ POWERED SUBWOOFER

### SPECIFICATIONS

<b>FREQUENCY RESPONSE</b>	20Hz to 150Hz (-6DB) – Graphs Available
<b>INPUTS/ /IMP</b>	Line Level In- L/R RCA connectors-10k Ohms Speaker Level In- L/R 5 way Posts-200 Ohms
<b>OUTPUT TERMINALS</b>	5-way Binding Post (connects passive MAGELLAN VI su)
<b>LOW-PASS FILTER</b>	Variable Crossover (-12 db / octave) 50 Hz - 150Hz (-6 db @ crossover frequency)
<b>HIGH-PASS FILTERS</b>	(a) Subsonic Filter (Active) -3 db @ 10 Hz (b) Speaker Out Passive -3 db @ 70Hz (-9 db @ 35 Hz) 5-Way Posts
<b>CONTROLS</b>	Phase Switch --- 0° and 180° Volume control --- Min to Max (52db Gain) Crossover Control—50Hz to 150Hz (continuously variable)
<b>AMPLIFIER POWER</b>	120 W (150 W w/passive MAGELLAN VI) - 85% efficient
<b>MAXIMUM SPL</b>	105 db/2m @ 35Hz
<b>DRIVER</b>	Non-shielded 6.5" convex single piece aluminum cone
<b>ACCESSORIES</b>	Custom Brass Vibration Isolators - Standard Large Rubber Feet
<b>AC POWER</b>	120 V/ 50Hz-60 Hz
<b>REQUIREMENTS</b>	Fuse 1.5 A (Internal Jumper Selectable) 240 V/ 50 Hz - 60 Hz Fuse 1 A Standby Input power - 21 VA Input Power at Max - 300 VA
<b>DIMENSIONS</b>	Width: 14.5"/368.3 mm Depth: 17.5"/444.5 mm Height: 5.5"/139.7 mm [Height w/Spikes: 7"/177.8 m]
<b>WEIGHT</b>	20 lbs. (9 kg)
<b>TO AUDITION VISIT</b>	www.musicalsubwoofers.com 1-877-828-7829

HDSS™ designates our products effectiveness for realization of all high definition audio playback mediums. Some new processes use an extremely high sampling rate to record the smallest nuances of the sound onto the DVD-CD medium. Early analog recordings made on extremely well preserved master tapes capture all of the resolution in real time so there is no sampling rate. These old master tapes are available for conversion to SACD or DVD-Audio allowing for the resolution of master tape analog playback without the noise, distortions and inconveniences of LP or high-speed reel-to-reel tapes. LP is the only analog HD format available to consumers yet most audiophiles don't own turntables because of the expense and limited software available. Current and future recordings will use the new digital recording standards for all masters driving down prices for all HD recordings as the CD did when replacing the album for mass use. This is the audio utopia long awaited for preservation of artistic material now the goal is to realize this resolution in practice. Premium and value oriented high quality multi-format HD players are currently available, however the resolution of standard red book CDs' and other even less well defined sources also benefit from the high-definition bass of the Magellan subwoofer series. Poorly resolved and resonate bass will mask all attempts to achieve high-resolution sound playback.

