



### **MAGELLAN VIII su HDSS™ PASSIVE 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 through 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 tweeter yet the muscle to move the driver must be there on demand when required, essentially a fast start-stop time for low frequencies.

The **Magellan VIII su** uses an 8" low mass curve-linear aluminum driver to deliver useful bass from well below 20Hz to over 150 Hz. The **Embedded Transmission Line** provides acoustic mass when the signal contains low frequency information. This extremely difficult operation can only be accomplished in the acoustic domain with no electronic processing. This allows the **Magellan VIII su** to track the signal in real time for a well-defined low frequency foundation. Audiophile quality loudspeakers have one thing in common and that is well-controlled resonance. A typical resonant subwoofer even high-end types will influence your speakers by coupling its' resonant waves directly to the bass drivers. This fluid coupling is also responsible for the rooms' modification of the sound so the subwoofer is also combining to add its' resonate signature. The high-pressure output of the **Magellan VIII su** provides accurate real time acoustic energy that effectively dominates room reflections. The driver in the **Magellan VIII su** is completely isolated from the ambient so as not to be affected by its own reflections or those from the main speakers. The Magellan VIII su maintains linear but falling output into the infrasonic frequency range. Proper placement allows for the room to enhance this output and achieve remarkably extended range below 20 Hz. This achievement allows the low frequency ambiance to add much needed depth and realism to an audiophile sound system. Its' inherently low profile allows for flexibility in placement and use of multiple units for stereo or modular reinforcement.





## MAGELLAN VIII su HDSS™ PASSIVE SUBWOOFER

### SPECIFICATIONS

<b>TECHNOLOGY</b>	Embedded Transmission Line (ETL™) Reflex –PEND PAT 10709538
<b>FREQUENCY RESPONSE</b>	15 Hz to 125Hz –6db (graphs are available)
<b>POWER HANDLING</b>	150 W RMS (300W IHF)
<b>DRIVER COMPLIMENT</b>	Single 8 inch Aluminum Driver supported by ETL™ Reflex enclosure
<b>IMPEDANCE</b>	8 Ω (nominal)
<b>SENSITIVITY</b>	87db 1w/1m @28Hz (Max Room SPL 100db+)
<b>DISTORTION</b>	Less than 2% 15 Hz to 150 Hz @ 10 W input
<b>DIMENSIONS/WEIGHT</b>	17.5" W x 17.5" D x 6.8" H/ 25lbs (without external feet)
<b>CONNECTION</b>	Gold Plated 5-way Binding Posts (Accepts #8 wire or Spade Lugs)
<b>TO AUDITION VISIT</b>	<a href="http://www.musicalsubwoofers.com">www.musicalsubwoofers.com</a> or call 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 the consumer 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.

