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## **FOR IMMEDIATE RELEASE**

### **WISDOM AUDIO INTRODUCES WORLD'S ULTIMATE SUBWOOFER FEATURING EXCLUSIVE REGENERATIVE TRANSMISSION LINE TECHNOLOGY**

– Featuring incredible 130 dB maximum output at 20 Hz and 5 kW power handling, the Wisdom Audio STS subwoofer includes dual 15-inch drivers in an installation-friendly enclosure that allows hidden placement

CARSON CITY, NV and Atlanta, GA (CEDIA) – September 23, 2010 – Wisdom Audio ([www.wisdomaudio.com](http://www.wisdomaudio.com)), the leader in planar magnetic technologies for architectural speaker solutions, is expanding its portfolio of high output and high performance subwoofers with the introduction of the standards-setting STS, which boasts an incredible 130 dB output capability at 20 Hz combined with an outstanding 5 kW power handling capability and an incredible 101 dB sensitivity, delivering both superlative efficiency along with astonishing deep bass output.

Building on the success of the Wisdom Audio SCS compact dual-driver architectural subwoofer featuring their exclusive RTL technology, the STS seeks to re-define subwoofer performance in a package that includes some of the world's widest and most ambitious range of installation scenarios. Within the surprisingly space-efficient cabinet that is only 17 ¾" wide and 36" deep, the STS houses dual ultra high-performance 15-inch subwoofer drivers and Wisdom Audio's exclusive Regenerative Transmission Line™ rear wave recovery and reinforcement system. This arrangement provides increased deep bass output; increased sensitivity (efficiency) along with flatter power response and lower distortion than is possible via conventional sealed cabinet subwoofer technology.

Mark Glazier, president of Wisdom Audio added, "The STS is the highest performance expression of our RTL technology which has been proven and enthusiastically embraced by our customer base in our models S90i and SCS. We wanted to provide our channel with an ultimate subwoofer, capable of unprecedented output combined with extraordinary musicality and accurate timbre. Unlike traditional subwoofer designs, the STS sonically complements the speed and clarity of our planar magnetic transducer

based speakers, and is the ideal solution for the large scale Sage systems being specified worldwide.”

### **Regenerative Transmission Line™ Technology**

Once popular with audiophiles looking for deep bass from a compact cabinet, the transmission line design was short-lived. A transmission line loudspeaker usually featured a relatively small bass or full-range transducer (8-inch or less) in a cabinet that included a complex labyrinth of channels behind the driver. Those channels provided a dissipative path for the acoustical energy coming from the rear of the diaphragm (cone), such that only energy from the front of the driver emanated from the speaker cabinet. Even though it produced rich sounding bass, the drawbacks to this method were decreased output, lower efficiency and limited power handling capacity. Consequently the technology never really found widespread acceptance.

At the time that transmission line speakers found their way into the audiophile milieu back in the 1950's, proposals for a higher efficiency, higher output transmission line system where the driver's rear energy was utilized and not discarded were theorized, but due to the unavailability of sophisticated computer modeling technology, were never fully realized.

### **The Wisdom Audio STS**

Now, Wisdom Audio's RTL technology expands upon those concepts and realizes substantial benefits. The new STS high performance subwoofer provides designers and installing dealers with a host of advantages along with a level of performance that simply can't be found elsewhere.

The STS features a slim-profile cabinet (less than 18 inches wide) that can be easily installed in both standalone and hidden applications. For maximum installation flexibility, the STS features an output port that can be quickly and easily re-positioned from the slim cabinet's front to either of the two cabinet sides. In addition, the STS comes with a hidden installation option via a port extension that allows for the STS itself to be installed in a closet, under a floor, in a ceiling or some other hidden locale within or adjacent to the room.

Compared to traditional theater-type subwoofers, which often eschew detail in favor of acoustical output, the STS provides both, which translates into not only prodigious deep bass output, but also deep bass with detail, definition and musicality. With two very high efficiency 15-inch subwoofer drivers and Wisdom Audio's proprietary Regenerative Transmission Line technology, the STS boasts remarkable acoustic performance:

- 130 dB maximum SPL at 20 Hz (this is a remarkable 15 dB above the requirement for commercial theater Low Frequency Effects acoustical output)
- 101 dB sensitivity @1W/2.83V/1m
- 5 kW power handling peak
- 20 Hz - 80 Hz  $\pm 2$  dB response (relative to the target curve)

Each bass driver features a massive cast aluminum alloy frame, along with a substantial neodymium magnet motor assembly, and a 4-inch edge-wound copper voice coil with an exceptional 11,000 Gauss (1.1 Teslas) magnetic field in the gap. Each driver also boasts a peak power handling of 2.8 kW, and both are parallel-wired for maximum efficiency and power handling.

### **The Best of Both Worlds**

Compared to conventional subwoofers, the Wisdom Audio STS provides two significant benefits:

- **Prodigious Bass Output** – With a peak output of 130 dB, the STS can provide room-filling, seat-shaking bass for large and very large home theater rooms. When connected to Wisdom Audio's Sage Series electronics, the STS gains additional advantages due to Audyssey's MultEQ™ room acoustic measurement and correction system, which fine tunes the system response for optimum matching with the subwoofer and the other speakers in the system as well as the room.
- **Very High Efficiency** – As the efficiency of the STS is an astounding 101 dB/W, the system provides substantial bass output for comparably low amplifier power. The inherent efficiency of the RTL technology ensures that even at elevated bass levels, the dual 15-inch high efficiency/high power drivers are individually coasting and are nowhere near being overly taxed.

The Wisdom Audio STS subwoofer will be available in October 2010 with a suggested retail price of \$10,000.00.

### **About Wisdom Audio**

Wisdom Audio is the leader in designing and manufacturing high-performance planar-magnetic transducers for architectural speaker applications with more than 100 man-years experience. Wisdom Audio was founded in 1996 to create no-compromise planar loudspeaker systems for the most demanding and critical audiophiles. Wisdom Audio systems employ proprietary, custom-made planar magnetic and dynamic transducers optimized for high performance, high-end architectural audio reproduction applications. Its hybrid-technology systems have earned praise and awards from the specialized media, while satisfying a growing base of customers and dealers worldwide. Wisdom Audio's multi-award winning Sage Series architectural products are handcrafted in

limited quantities by specialized craftsman at its headquarters in Carson City, Nevada. For more information, please visit [www.wisdomaudio.com](http://www.wisdomaudio.com) or call (775) 887-8850.

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