

## Studer by HARMAN Showcases New Infinity Series Processing Engine and Vista X Console Featuring Groundbreaking DSP Technology at BVE 2014, Stand K44



LONDON, United Kingdom – Marking an enormous step forward in large-scale mixing console technology for broadcast applications, Studer by HARMAN introduces its new Vista X digital console and the Studer Infinity Processing Engine. The Vista X offers an unsurpassed intuitive user interface, retaining the patented Vistonics™ and FaderGlow™ user interface, providing control of 800 or more audio DSP channels and more than 5,000 inputs and outputs.

At the heart of the system is the Infinity DSP core, which uses CPU-based processors to provide huge numbers of DSP channels for large-scale, high-resolution audio processing and mixing.

Thanks to the Infinity core, this is the first time more than 800 audio channels have been processed in a single CPU-based board.

The impetus behind Infinity was Studer's desire to create a DSP engine that not only offers superb sonic quality but is adaptable and flexible to meet the changing demands of the market. The attraction of CPU technology as used on most computers has resulted in huge worldwide R&D investment in this technology. As such, these chips are not only extremely reliable in operation but also result in a doubling of processor power every 24 months (known as “Moore’s Law”).

The new Infinity DSP engine provides 12 A-Link high-capacity fiber digital audio interfaces, providing more than 5,000 inputs and outputs. A newly designed high-density I/O system - D23m, is used to break out these A-Link connections to standard analog, digital and video interfaces. The A-Link interface also provides direct connection to the Riedel MediorNet distributed router, allowing many Infinity systems to be connected together with router capacities of 10,000 square or more.

Studer consoles are designed with longevity and mission-critical operations in mind, and therefore reliability is of prime importance. A key element in the design of the Infinity Series is to avoid the possibility of a single fault causing loss of audio. Taking a lead from the “fly by wire” aircraft industry with multiple redundant processors flying the airplane, the new Vista X console features four processors, offering complete redundancy of the control surface. Now, the Infinity Core, with a combination of CPU-based DSP and A-Link audio interfaces, offers N+1 redundancy of the DSP engine and I/O with instant switchover between main and standby system without audio break.

HARMAN designs, manufactures, and markets a wide range of infotainment and audio solutions for the automotive, consumer, and professional markets. It is a recognized world leader across its customer segments with premium brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, and Mark Levinson® and leading-edge connectivity, safety and audio technologies. The Company is admired by audiophiles across multiple generations and supports leading professional entertainers and the venues where they perform. More than 25 million automobiles on the road today are equipped with HARMAN audio and infotainment systems. HARMAN has a workforce of 14,800 people across the Americas, Europe, and Asia and reported sales of \$4.7 billion for the last twelve months ended December 31, 2013.