

**ISI ANNOUNCES RELEASE OF FMRA-2008, WORLD'S FIRST COMMERCIALY AVAILABLE FERRO MAGNETIC RESONANCE ANALYZER**

SANTA CLARA, CA – January 21, 2009: Integral Solutions International, ISI, the world's leading manufacturer of Quasi-Static testers for the data storage industry, announced today the release of FMRA-2008 Ferro Magnetic Resonance Analyzer.

The FMRA-2008 is the world's first commercially available Ferro Magnetic Resonance Analyzer that characterizes the magnetic performance of Magneto-Resistive sensors in multi-directional magnetic fields. Characterizing the MR sensor using Ferro Magnetic Resonance techniques can not only examine the sensor performance, but, often, pinpoint a particular problem in the design or manufacturing process, such as concerns with the Hard-Bias, Reference/Pinning Layer or Free Layer.

The system utilizes the Quad-Pole magnet configuration on the BlazerX6-B Bar Tester, and incorporates RF Probing and multi-directional field vectors to allow the extensive suite of FMRA tests. These tests include:

- Ferro Magnetic Resonance Spectrum Analysis
- Diagnostics of hard bias level and uniformity
- Stiffness field measurement
- Reference layer/Pinning layer diagnostics
- Free layer uniformity and domains detection
- Free layer magnetization orientation
- High Bandwidth Noise Analysis

As MR sensor dimensions shrink in the race to higher Aerial Density, control of the reader sensor dimensions becomes more difficult causing many of the above issues. The FMRA-2008 is world's first low-cost, non-destructive, in-situ solution to characterize these issues in a manufacturing environment with production-level throughput.

**About ISI**

Integral Solutions International (ISI) is a privately held California based US Corporation, established in September 1995. ISI provides worldwide customer support from the United States, Japan, Korea, Singapore, Malaysia, Thailand, China, and Hong-Kong.

Send mail to [webmaster@us-isi.com](mailto:webmaster@us-isi.com) with questions or comments about this web site.

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