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**Guzik DTR 3000 Discrete Track Recording Test Systems Now Capable of
Data Recovery for Hard Disk Drives**

New Application Note Available for Disk Drive Forensics

Mountain View, CA – August 12, 2009 – Guzik Technical Enterprises today announced the availability of a new applications note covering the capability of the DTR 3000 Discrete Track Recording Test System to handle data recovery for the hard disk drives.

The DTR 3000 is a complete test system composed of the DTR 3000 Spinstand, the RWA DTR 3000 series Read-Write Analyzer and the WDM 5044 Waveform Digitizer. The media platter can be taken out of the hard drive and placed on a high-performance spindle of the DTR 3000 Spinstand. The advanced mechanical system of the spinstand can automatically center the media to eliminate track eccentricity from up to 100 micrometers down to below 800 nanometers. The piezo actuator further reduces the repeatable run-out to below 5 to 7 nanometers, and non-repeatable run-out to .2 to .6 nanometers, 1σ .

The programmable state of the art Guzik servo decoder is capable of decoding servo patterns used by all major hard drive manufacturers, as well as new generation of the hard drives based on the discrete track recording technology. The decoder supports both amplitude and chevron-type phase servo burst configurations.

If the servo information is severely damaged, Guzik spinstands provide positioning using the high-accuracy optical encoder, which allows the user to build three-dimensional maps of the magnetic transitions around the defective areas.

The Guzik DTR3000 system integrates PRML channel decoder chips in order to read data information from the drive, new channel chips can be integrated upon request. In addition to that, the high-speed WDM5044 digitizer included with DTR3000 system captures the data with the data rates up to 20GS/s (50pS sampling period).

If the data is damaged and cannot be decoded using the standard PRML chip designed for the drive, the user can obtain the raw analog samples and apply custom decoding algorithm in order to recover the degraded information.

The applications note is available for download under the Documents tab at http://www.guzik.com/product_detail_DTR3000.asp.

Interested customers should contact sales@guzik.com or consult www.guzik.com for more information.

About Guzik

Guzik Technical Enterprises provides advanced test solutions to the disk drive industry, as well as waveform acquisition tools and modular instruments for demanding ATE and OEM applications in avionics, signal intelligence, military electronics, physics, astronomy, semiconductors, and a variety of other disciplines. The company is based in Mountain View, California.

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