FOR IMMEDIATE RELEASE

HITACHI LAYS GROUNDWORK FOR 20-GB MICRODRIVE WITH CENTURY-OLD TECHNOLOGY

Company Demonstrates 230 Gigabit Per Square Inch Data Density on Perpendicular Recording; Industry Luminaries Make History as Part of Worldwide Field Test Program

TOKYO – April 4, 2005 – Hitachi Global Storage Technologies is today announcing new advancements to a 100-year-old magnetic recording technology that will set the stage for ultrahigh capacities such as a 20-gigabyte* Microdrive or a one terabyte 3.5-inch hard drive.

To achieve this, Hitachi has demonstrated the industry's highest data density at 230 gigabits per square inch (Gb/in²) on perpendicular recording. Hitachi believes 230 Gb/in², which represents a doubling of today's highest longitudinal recording densities, will be implemented in commercial hard drive products in 2007. When fully realized over the next 5-7 years, perpendicular recording could enable a 10-fold increase in data densities over longitudinal recording, paving the way for new heights in capacity such as a 60 GB one-inch drive.

Perpendicular recording has its roots in the late 19th century work of Danish scientist Valdemar Poulsen, who is generally considered the first person to magnetically record sound using perpendicular recording. The technology gets its name from the vertical alignment of data bits on the plane of the disk, which takes less room in contrast to the horizontal orientation of today's longitudinal recording technology. To be accurately recorded and read, the more closely-packed perpendicular bits also require a closer association between the read/write head and the recording media. Hitachi achieved the 230 Gb/in² density by manipulating the head and media so that the distance between them is a mere 10 nanometers or 1/10,000th of a human hair.

While the hard drive industry has been using longitudinal recording successfully for five decades, it is now within two product generations of reaching its practical limit. Researchers are finding that longitudinal recording is losing its ability to maintain data integrity at areal densities much beyond 120 Gb/in².

"We are at the cusp of the most significant hard drive technology transition of the past decade, and it's one that holds so much promise for the hard drive and consumer electronics industries," said Jun Naruse, CEO, Hitachi Global Storage Technologies. "As the biggest supplier of smallform-factor hard drives, 2.5-inch and below, consumers' demand for storing more data on smaller devices has provided a strong impetus for us to pursue perpendicular recording with a greater sense of urgency."

While the transition to perpendicular recording will start as early as the next product generation, Hitachi believes the true potential will be realized in the 200+ Gb/in² range -- the point of technology maturation when meaningful advancements in storage capacity will ensure full-scale adoption of perpendicular recording technology.

Perpendicular Recording Field Test

As the hard drive industry approaches the crossroad of this major transition in data recording technology, Hitachi is prepared to lead the charge with new achievements on perpendicular recording and a worldwide field test program. Testers have been using computing systems with perpendicular recording hard drives as part of their daily routine since December 2004. The program has revealed encouraging data about future mass-market adoption of the new technology, which Hitachi believes will gain momentum in 2006. Hitachi is taking the necessary steps to ensure a smooth transition to perpendicular recording through this extensive field test program and long-term reliability tests.

Professor Shun-ichi Iwasaki, president and chief director of Japan's Tohoku Institute of Technology, is considered to be the father of modern perpendicular recording and is among the early testers of Hitachi's perpendicular recording hard drives.

"I have been engaged in magnetic recording research since 1951 and found that the most important subject in this field is high-density recording," said Professor Iwasaki. "Around 1975, I began to feel that the vertical direction was the right way to go to attain high-density recording, and began leading the activities to make perpendicular recording a practical technology. I am very glad to see that the technology will come into use soon."

Participants in Hitachi's field test program are making history as one of the first people to write data vertically on a hard drive. These testers represent notable academia, industry luminaries and customers worldwide. Field testers are using notebook systems from various manufacturers with the Hitachi Travelstar 2.5-inch drive. The data gleaned from this program will help Hitachi prepare for the eventual full-scale production of perpendicular recording hard drives. Hitachi expects to ship its first perpendicular recording product in 2005 on a 2.5-inch hard drive, used in notebook computers and handheld consumer electronics.

"The health of this industry over the next 5-10 years is critically tied to the successful implementation and transition to perpendicular recording technology," said Jim Porter, hard drive industry analyst and historian, owner of DISK/TREND. "Hitachi is taking a responsible approach in assuring that it proceeds smoothly with extensive testing programs."

In addition to the field test program, Hitachi has implemented a long-term reliability and stress testing regimen, involving hundreds of perpendicular recording drives over many months.

Pushing Back the "Superparamagnetic Limit"

With longitudinal recording, the hard drive industry is quickly approaching a physical barrier called the "superparamagnetic limit," which occurs when the microscopic magnetic grains on the disk become so tiny that they are not strong enough to resist the various factors tending to demagnetize them. The result is that, over several years, the information written onto these magnetic grains can fade and become corrupted, rendering the storage device unreliable and unusable. Simplistically, the data bits can be thought of as little dominoes. Longitudinal recording, as its name indicates, lays these dominoes (data bits) horizontally, taking up more space. In contrast, perpendicular recording sets up the dominoes on their edges, allowing more bits per square inch of disk surface, resulting in higher storage capacity overall.

Additional information on perpendicular recording can be found at the following web site: <u>http://www.hitachigst.com/hdd/research/recording_head/pr/index.html</u>.

* 1 gigabyte = 1 billion bytes

About Hitachi Global Storage Technologies

Hitachi Global Storage Technologies was founded in 2003 as a result of the strategic combination of Hitachi's and IBM's storage technology businesses. By the end of 2003, Hitachi GST became the industry's second largest hard disk drive manufacturer in revenue, and maintained that position into 2004.

The company's goal is to enable users to fully engage in the digital lifestyle by providing access to large amounts of storage capacity in formats suitable for the office, on the road and in the home. The company offers customers worldwide a comprehensive range of storage products for desktop computers, high-performance servers and mobile devices. For more information on Hitachi Global Storage Technologies, please visit the company's Web site at http://www.hitachigst.com.

About Hitachi, Ltd.

Hitachi, Ltd. (NYSE: HIT), headquartered in Tokyo, Japan, is a leading global electronics company, with approximately 326,000 employees worldwide. Fiscal 2003 (ended March 31, 2004) consolidated sales totaled 8,632.4 billion yen (\$81.4 billion). The company offers a wide range of systems, products and services in market sectors, including information systems, electronic devices, power and industrial systems, consumer products, materials and financial services. For more information on Hitachi, please visit the company's Web site at http://www.hitachi.com.

These materials contain forward-looking statements within the meaning of the federal securities laws, including statements about the following: the future demand for hard disk drives, the potential development of future products, projections for future investment in manufacturing capacity, and projections for future demand for consumer products. These statements are subject to risks and uncertainties that could cause actual results and events to differ materially, including the following: possible fluctuations in the demand for our products; the introduction of new products by competitors or the entry into the market of new competitors; possible delays in developing new products, and the possibility of legal disputes. A detailed discussion of other risks and uncertainties that could cause actual results and events to differ materially from forward-looking statements is included in Hitachi, Ltd.'s most recent filings and reports with the Securities and Exchange Commission. Hitachi, Ltd. and Hitachi GST undertake no obligation to update forward looking statements to reflect events or circumstances occurring after the date of this press release.

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