



First Viable High-density Holographic Storage Media

Maynard, MA —

High-density storage in three dimensions has become reality with the release of the first holographic storage technology by Aprilis, Inc. The proprietary high-performance, write only, holographic storage media, now available in a 120mm disk and a 50 x 50mm card, marks the first commercially viable holographic storage media for the removable storage market. The new media provides storage device manufacturers with a medium that can support a storage capacity of 200 GB and a data transfer rate of 200 MB/s in a CD/DVD form factor.

Aprilis's new holographic media disk (HMD) and holographic media card (HMC) media series have storage capacities that meet or exceed those of traditional optical and magnetic storage media. Additionally, the new media can store data in pages of thousands of bits rather than a single bit at a time, giving it a distinct advantage in recording and retrieval times over magnetic and optical technologies. The company's breakthrough polymerization chemistry was selected as the preferred media in 1998 by the U.S. Government-funded PRISM Consortium, based upon its combination of dynamic range, data fidelity and recording sensitivity. Using the Aprilis media, the PRISM and HDSS consortia demonstrated rapid, real-time recording and retrieval of data at speeds of at least 1 Gigabit/sec.

While holographic data storage has been theoretically possible since the early 1960s, technical developments have only recently enabled the construction of viable holographic storage systems. Holographic data storage involves housing information in three dimensions, allowing for faster access to significantly larger volumes of data in contrast to optical media and magnetic tape drive storage systems, which store in two dimensions on a track or in a serial fashion. Holographic recording enables the transfer of data as pages containing up to a million bits, in contrast to conventional optical technologies that transfer data only one bit at a time. Holography uses content-addressable memory technology that allows it to search for images on large databases at much faster access rates.

“Most companies treat archived data as write-once, read-never, because it is so hard to access and harder still to work with. Aprilis's holographic storage media changes all that,” said Glenn Horner, Vice President of Business Development at Aprilis, Inc. “The cost-effective nature of our media, combined with its high storage capacity and data retrieval times, makes it an ideal solution for a wide variety of industries to store, manage and access the extraordinary amounts of data they create on a daily basis.”

Aprilis, the only successful remaining spin-off of Polaroid Corp., states that the new media is available immediately and is designed for archival and near-line removable storage applications. The 120mm holographic media disk and the 50 x 50mm holographic media card are both offered in recording thicknesses of 200 and 300 microns.

For more information, contact:

Aprilis, Inc.,

5 Clock Tower Place, Suite 200, Maynard, MA 01754.

Tel: 978-450-1000; fax: 978-450-1020.

E-mail: info@aprilisinc

Web: <http://www.aprilisinc.com>