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Ecma releases new Holographic Information Storage Standards

Dramatically increased storage density

FOR IMMEDIATE RELEASE

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Ecma International has achieved its goal. That is, two new standards for dramatically increased optical storage density – Holographic Information Storage - that break through the density limits of conventional optical storage by recording through the full depth of the media instead of recording only on the surface.

The new standards approved on May 2, 2007 and published on June 11, 2007 are:

[ECMA-377](#) "Information Interchange on Holographic Versatile Disc (HVD) Recordable Cartridges – Capacity: 200 Gbytes per Cartridge" and

[ECMA-378](#) "Information Interchange on Read-Only Memory Holographic Versatile Disc (HVD-ROM) – Capacity: 100 Gbytes per disk".

According to the standards one HVD can store upwards of 200 gigabytes of data, the equivalent of more than 40 of today's DVDs, and that is just for starters. It is expected that future implementations will be able to store more than 1.3 terabytes. Additionally, unlike optical discs, which record one data bit at a time, HVDs allow over 10 kilobits of data to be written and read in parallel with a single flash of light – and the recording and reading processes do not require spinning media. Data transfer rates of up to 20 megabytes per second (far faster than DVDs) are easily achieved with rotating or translating media.

Werner Glinka, Chairman of Ecma TC44 said: "*With the publication of three HVD standards, TC44 has set a new baseline for the next generation of ultra-high density and ultra-high speed removable storage media. These standards will enable the development of the next-generation of removable storage solutions for the enterprise storage market and the AV/IT professional electronic media storage markets such as film and broadcast content.*"

About Ecma International

Since its inception in 1961, Ecma International (Ecma) has developed standards for Information and Communication Technology (ICT) and Consumer Electronics (CE). Ecma is a non-profit industry association of technology developers, vendors and users. Experts from industry and other organizations work together at Ecma to develop standards. Ecma

submits its work for approval as ISO, IEC, ISO/IEC and ETSI standards and is a frequent practitioner of “fast tracking” of specifications through the standardization process in International Standards Organizations (ISO’s). Ecma Publications can be downloaded free of charge from the Ecma International website www.ecma-international.org. [The new standards](#) and a summary of the received IPR information and statements related to those standards can also be found [there](#).

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