HVD Alliance

for the promotion of 1 TB

Holographic Versatile Disc - HVD

Six companies including CMC Magnetics Corporation, Fuji Photo Film Co., Ltd., Nippon Paint Co., Ltd., Optware Corporation, Pulstec Industrial Co., Ltd. and Toagosei Co., Ltd., advocates of "Holographic Versatile Disc (HVD)" announced in February 2005 to form "HVD Alliance" to accelerate the development of HVD, to develop a marketplace and to promote this revolutionary technology and products. A technical committee, TC44 to discuss the standardization of "Holographic Versatile Disc (HVD)" was approved at 88th Ecma International General Assembly on December 9th 2004. The first TC44 meeting will be held in Tokyo on March 3rd and 4th.

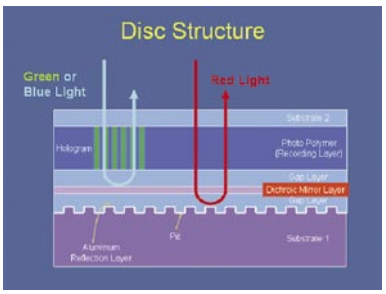
HVD Alliance, through its activities to provide a venue for the technical discussions and information exchange among the disk manufacturers, material makers, device manufacturers and tester makers which agree with the purport of this organization, accelerates the development of HVD, develops the marketplace and promotes this technology, thus contributes to the sound development of the storage industry. Alliance companies advance final preparations towards the official launch of "HVD Alliance" in this coming spring.

Holographic recording technology

Holographic recording technology records data on discs in the form of laser interference fringes, enabling existing discs the same size as today's DVDs to store more than one terabyte of data (200 times the capacity of a single layer DVD), with a transfer rate of over one gigabit per second (40 times the speed of DVD). This approach is rapidly gaining attention as a high-capacity, high-speed data storage technology for the age of broadband.

Collinear technology

Optware's exclusive development of the collinear technology is part of its effort to make holographic recording technology practical. A patented technology originally proposed by Optware founder and CTO Hideyoshi Horimai, collinear holography combines a reference laser and signal laser on a single beam, creating a three-dimensional hologram composed of data fringes. This image is illuminated on the medium using a single objective. Using this breakthrough mechanism, Optware dramatically simplified and downsized the previously bulky and complicated systems required to generate holograms. Further enhancements were achieved with Optware's exclusive servo system. The introduction of this mechanism enabled reduced pickup size, elimination of vibration isolators, high-level compatibility with DVD and CD discs and low-cost operation, effectively obliterating the remaining obstacles to full commercialization.



About CMC Magnetics

CMC Magnetics Corporation, head-quartered in Taipei, Taiwan, is one of the world largest marketers of storage media. With advanced R&D, excellent management performance and complete array of services, CMC always catches the first wave of the market and provides the latest and the best solution to the customers. To maintain its leading position in the market, CMC will keep leveraging its resources to capitalize on a variety of businesses, and to put its corporate vision "5C Concept: Computer, Communication, Consumer, Channel and Content" into practice.

More information is available at:
http://www.cmcnet.com.tw

About Fujifilm

A global company with a reputation for the highest quality and reliability, Fujifilm is a leading provider of imaging, information, and document-related products and services. In the year ending March 31, 2004, it had global revenues of more than $24 billion, and employs 73,164 people worldwide. Its product lines and services include photographic films, digital cameras, lab equipment, photofinishing services, graphic arts, medical imaging, recording media, LCD materials, digital color multifunction printers, document managing solutions and services.

More information is available at
http://home.fujifilm.com/

About Nippon Paint

Established in 1881, Nippon Paint Co., Ltd. is a pioneer in the paint and coatings industry in Japan. Our vision is to achieve global growth as a specialty chemical company of valuable coating films, and to consider environmental preservation and reduction of energy consumption in all our activities. We are creating leading technologies, some of which have become essential in the manufacturing of electronic components, while others are used for sealing media of circuit boards in precision instruments or applied to life sciences.

More information is available at
http://www.nipponpaint.co.jp

About Optware

Optware Corp. was established in 1999 as a development venture to find ways of incorporating holographic recording technology, seen as the heart of the high-capacity optical discs of the future, in commercially viable products. The Company's arsenal of valuable patents includes collinear holography, a technique that enables great simplification of optical systems.

More information is available at:
http://www.optware.co.jp

About Pulstec

Pulstec has established its strong presence for Optical Disc&Pick-up Head Testers in R&D, QA, and Production environment. Having the high reputation of precision&stability, Pulstec Testers have played the important role in the growth of optical storage industry especially for Defact-Standard Test System of CD, DVD, BD, HD DVD etc. Based on our experience of testing field, we see our new role in promising HVD for the next generation technology of data storage. After obtaining the license from Optware Corp., Pulstec introduced "SHOT-1000" which is our 1st collinear holographic evaluation system, and we will continue to contribute the new era within the industry by providing the future HVD testers for reliable testing environment.

More information is available at:
http://www.pulstec.co.jp

About Toagosei

Toagosei's business domain is composed of commodity chemicals, acrylic products and specialty chemicals. We are intensively developing a diversified range of applications for electronic industries, such as high purity chemicals, semiconductor materials, and encapsulating agents. In the acrylic products business, raw materials for insulating films, photo resist, and optical disk coating have been developed on a technical basis of light curable resins 'Aronix' and 'Oxetane'. Our hologram recording material, in particular, has been picked up by the national project(NEDO) to develop a next generation optical recording medium and we are focusing our R&D efforts to make the technology practically applicable in the field.

More information is available at:
http://www.toagosei.co.jp

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