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Holographic Versatile Disc (HVD)

Holographic information storage systems (HISS) have been a good candidate for a volumetric recording technology. However, the discs of conventional HISS using 2-axis holography were transmission type and there was not exist any address information on the discs, as a result, no data interchangeability was assured. A preformatted reflective layer is widely used to assure data interchangeability in the optical disc technologies like CD and DVD and applied to Holographic Versatile Disc (HVD) proposed by Optware Corporation.. This technology can make HVD commercially available more easily than 2-axis holography and become a good candidate for the ultra high density removable storage media. A unique selectable capacity recording format of HVD is introduced to assure both downward and upward compatibility of different disc capacities. Another unique feature of HVD is also introduced as Permanent holographic information (Phi) and this could be very important for the data security in the compliant records applications. An important aspect for the data interchangeability is standardization and its activities are introduced.