Holographic Data Storage
What is Holographic System

- Leverages More Data Storage
- 1500 CDs or 200 DVDs Data in Single DVD.
- Optical Storage Method
- Data Stored as Optical Interference Pattern known as holograms
How it Works

- Laser beams splits into 2 beams.
- Beams works as object beam and Reference beam.
- To read the stored data, the media is illuminated by original reference beam.
- Thousands of Holograms can be stored in the same location by simply changing angle of reference.
- Multiple Data Recording is possible by Using Light at Different angles
Work Flow

[Diagram showing the process of recording data using a laser, reference beam, signal beam, and spatial light modulator.]
Work Flow .....
Holographic Diffusion Equipment
Holographic Diffusion Equipment..

Three Dimensional Data Storage Systems
Holographic Technology at Glance

**Advantages**

- Associative memory capability
- Access All the Data in Few Microseconds
- Storage Capacity Increased Multiple Folds