

# **Compact Holographic Memory Using Electro-Optic Beam Steering Technology**

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## **Abstract**

An innovative holographic memory system has been developed at JPL for high-density and high-speed data storage in a space environment. This system utilizes a newly developed electro-optic (E-O) beam steering technology for beam steering to enable high-speed random access memory read/write without moving parts. Recently, a compact CD-sized holographic memory breadboard has been developed and demonstrated for holographic data storage and retrieval. Detail technical progress will be presented in this paper.