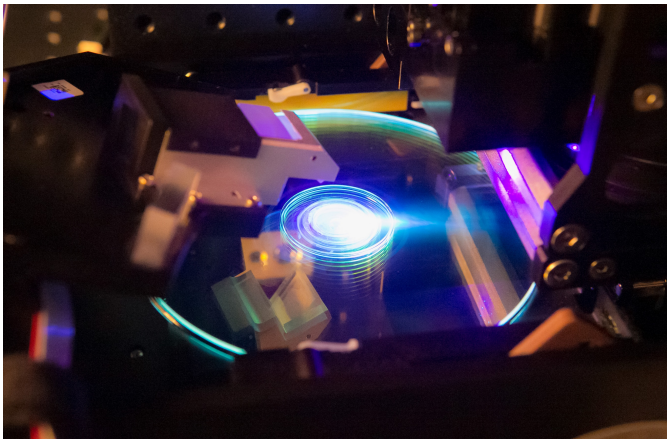


Holographics Technology: The End of Tape-Based Storage?

Written by Marco Attard
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Akonia Holographics claims a world record in data storage density-- 1.35 terabits per square-inch with the use of a state-of-the-art holographic drive architecture and a photopolymer media.



According to the company holographic storage is more robust than tape storage, while featuring the benefits of random access storage. It ships as removable optical media, meaning it is as easy and familiar to use as DVDs, with a small footprint, low costs and low energy consumption.

Holographic storage involves the transfer of millions of bits in parallel to enable 10X faster transfer rates and vast storage density-- one holographic disc stores more data than 54 Blu-ray discs, Akonia says.

Additionally production costs are fairly low, since discs are plastic and do not feature multiple layers.

"Every other storage technology is struggling to take advantage of the 3rd dimension by adding layers or stacks of disks. Holographic storage does this inherently," Akonia adds. "We are just scratching the surface of what this technology can accomplish. Initially, we will enjoy a 2x to 4x advantage over LTO tape in dollars per TB and volumetric density. This gap will grow even larger in future product generations."

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