BDT

PoINT
software & systems

HoloMem

# Shaping the Future of the Archive

## Tape and Holographic Storage with Standardized S3 Access

Data is growing faster than organizations can afford to keep it. AI training sets, scientific research, media and cultural archives, and regulatory records all need to be preserved for decades, yet most of that data is rarely touched once written. That is exactly where cost, energy and longevity matter most, and where the next step change in archival storage will come from.

The joint vision of HoloMem, BDT and PoINT brings together continuity and innovation in the most efficient way: a new archive medium, integrated with established and proven technology and standardized interfaces.




### HoloMem

### Holographic Storage Technology

HoloMem is developing the new storage technology: the HoloDrive and HoloMem holographic ribbon cartridges, designed to integrate natively with the automated libraries and software that real archives already run.

### PoINT Software & Systems

### S3 Gateway

PoINT's proven object storage software PoINT Archival Gateway provides a compatible S3 REST API which connects S3 capable applications with the libraries as target storage. Additionally, PoINT Archival Gateway offers a wide range of features for data protection, archiving, and compliance.

### BDT Media Automation

### Automated Media Libraries

BDT provides native integration of HoloMem's technology with automated libraries, starting with the ORION range. The market-leading company has decades of experience in the construction of high-tech engineered rack-mountable libraries.

**Together, it's a genuinely new storage solution that homogenously integrates into the infrastructure organizations already run, with nothing to be removed and replaced.**

## BENEFITS

**Built for continuity:**
HoloMem's holographic storage integrates with existing BDT hardware and PoINT software. It works alongside today's media, thus ensuring investment protection and expanding what an automated library can offer the long-term archive.

**Built on standards:**
All of the involved hardware and software components are based on standards, which greatly simplifies their integration into the data center and with existing applications.

**Built for the long view:**
Both HoloMem and traditional tape media are designed for long-term retention from the outset, aiming to reduce the costly migration cycles that archives face today.

**Built for real-world conditions:**
HoloMem uses robust polymer media, designed to store data securely over its lifetime in ambient conditions, with no need for active environmental control.

**Built for security:**
Air gapping is a critical factor in cybersecurity. Both magnetic tape and HoloMem's holographic ribbon allow for physical isolation.

## USE CASES

HoloMem's holographic storage technology is designed for long-term storage of cold data. Its true WORM capability makes it the ideal choice for especially compliance-sensitive use cases. Integration with BDT libraries and PoINT storage software connects it to your existing archive. Magnetic tape and holographic ribbon can be used simultaneously in the same library and accessed via the S3 interface.

The combination's specific features offer versatility for a wide range of use cases:

- Low-cost and high-capacity storage of cold data: AI, research and analytics
- Long-term archiving for decades: healthcare sector, administration, public and media archives
- Immutability of data: forensics, cybercrime protection

BDT

### About BDT

BDT Media Automation GmbH is a global technology company and OEM partner specializing in the development and production of data storage solutions for storing and archiving large amounts of data. Since its foundation in 1967, BDT has established itself as a reliable partner and today employs around 350 people at its locations in Rottweil (headquarters), the Netherlands, the USA, Mexico, China and Singapore. As a tradition-conscious family business, now in its third generation, BDT combines innovative strength with decades of experience.

**www.bdt.de**

PoINT software & systems

### About PoINT

Since 1994, PoINT Software & Systems GmbH has specialized in the development and distribution of software products for storage, management and archiving of data. PoINT solutions for storage & data management offer an easy and efficient integration of different storage technologies and systems in consideration of enterprise requirements. They allow optimized usage of storage systems and help to reduce costs and issues caused by data growth.

**www.point.de**

HoloMem

### About HoloMem

HoloMem is a London-based deep-tech company developing holographic storage for long-term cold archive. Designed for decades-long retention and built to integrate natively with existing libraries and archive software, HoloMem's technology aims to make holographic storage a practical choice for the data centres of the future.

**www.holomem.co.uk**