

**Quantum**<sup>®</sup>



# Quantum Media

Media Makes The Difference

You may already know Quantum as the manufacturer of high-performance drives, autoloaders and libraries, but Quantum also offers a complete line of options to satisfy a variety of specific media requirements.

Our media – which includes DLTtape®, LTO Ultrium, DAT, DDS and Travan data cartridges – is manufactured to industry standards for quality and reliability, ensuring low error rates, high performance and long-term durability.

But why is Quantum media the best choice for your drives, autoloaders and libraries? Quantum follows a rigorous five-stage media design and development process to provide reliability, performance and compatibility.

## Five-Stage Media Development

- Stage I: Concept and Design
- Stage II: Development
- Stage III: Engineering Qualification
- Stage IV: System Qualification
- Stage V: Ongoing Quality Audit

Quantum's media development is among the industry's most stringent. Derived from Quantum's depth of storage industry experience in DLT and as a key LTO technology provider, it combines our own high design and qualification standards with those of our customers. Likewise, we incorporate test methodologies from various outside sources – including consortium testing, outside labs, and other manufacturers and suppliers. Additionally, the Quantum media development engineering team features experts and specialists from virtually every discipline of media design and testing.

The result of this coordinated effort is an integrated and complete data cartridge comprised of reliable, high-quality, exhaustively-tested components – ensuring functional performance of your entire storage solution.

That's what makes Quantum media the best in its class.

## Stage I: Concept and Design

Quantum designs products with a focus on capacity and speed – but we don't stop there. Long-term reliability in a high-cycle environment and compatibility with the heads, channel, tape path and operating environment of each drive are critical elements of initial specifications, as well. Quantum media is engineered to retain data for up to 30 years of archival storage and withstand thousands of load/unload cycles over hundreds of read/write hours. It is also designed to be compatible with automated tape libraries and durable enough to withstand the high-duty cycles these systems require.

## Stage II: Development

We test, measure and fine-tune all aspects of the media to ensure ultimate performance reliability. The magnetic, electrical and mechanical properties are exhaustively engineered. During this phase, Quantum qualifies each cartridge component and the tools used in the production process, and develops the appropriate test equipment. This maintains consistency of specifications and quality during the manufacture of each and every Quantum cartridge.

## Stage III: Engineering Qualification

During engineering qualification, we test media manufactured in production “lots” to prove compliance with design specifications, high-volume reliability and our exacting quality standards. An extensive list of testing environments is simulated, including real-world variations in temperature, humidity and volume. We also test the media to ensure that media written by one drive can be read in another and test that it meets stated backward compatibility functionality.

Archive life testing is done using an accelerated life test. By exposing the media over many weeks to a combination of heat and humidity in a special test chamber, years of storage in proper archive conditions are simulated.

## Stage IV: System Qualification

To provide that it is ready for your use, Quantum media is read and written for hundreds – sometimes thousands – of hours to verify durability. It also is subjected to library testing, where thousands of “swaps” are performed to ensure reliable operation in a high-duty automation environment.

## Stage V: Ongoing Quality Audit

Quantum quality testing continues even after you take delivery of our media products. To provide quality, production consistency and long-term customer satisfaction, we closely monitor the production process and examine unusual returns of all media, drives and automated systems. Simply put, adherence to stated specifications and reliable protection of your data assets is Quantum’s primary concern throughout the media testing process.

## Trust Quantum

Quantum subjects its products to a comprehensive, five-phased testing regimen few can rival. We test and warrant Quantum brand media for compatibility with our drives, autoloaders and libraries and, like in real life use, we test and qualify our media with popular drive and automation products available from other industry solutions.

Quantum is the largest independent provider of backup, recovery and archive solutions and a global leader in addressing customers’ evolving data protection challenges. With an unparalleled portfolio of systems, software, devices and media, we integrate these assets and incorporate value-add features that offer best-of-breed solutions for customers of all sizes.

When your data assets are involved, why settle for anything less? When you buy Quantum, you buy peace of mind.

**Your Data.**

**Your Business.**

**Your Future.**

**When you deploy a Quantum drive or library solution, using Quantum media ensures the high performance and reliability you’ve come to expect. Your storage solution, customer service and support all are provided from one company – Quantum.**

**We provide a single source of intelligent and innovative products and services that enable you to reduce costs and more easily protect and manage your business-critical data.**

## Your Data. Your Business. Your Future.

For any IT environment, Quantum media is the most trusted name in DLTtape, LTO Ultrium, DAT/DDS, Travan and GoVault.



### DLTtape®

Meeting the needs of today's high capacity environments and tiered storage architectures with compressed capacities up to 1.6TB.



### LTO Ultrium

Optimized for high capacity and performance with outstanding reliability, in either standalone or automated environments with compressed capacities up to 800GB.



### DAT/DDS

Easy-to-handle compact media cartridges provide cost-efficient backup and long-term archiving options. An ideal choice for your specific backup and archive applications with compressed capacities up to 72GB.



### Travan

Cost-effective storage for small business, home or mobile backup with compressed capacities up to 40GB.



### GoVault™

40, 80 and 120GB removable disk cartridges durable enough to take with you and rugged enough to withstand a drop that would render other backup devices useless.



## WHEN YOUR DATA ASSETS ARE INVOLVED, WHY SETTLE FOR ANYTHING LESS?

When you buy Quantum, you buy peace of mind.

**Your Data.  
Your Business.  
Your Future.**

Quantum, a global leader in storage, delivers highly reliable backup, recovery and archive solutions that meet demanding requirements for data integrity and availability with superior price/performance and comprehensive service and support. Quantum offers the broadest portfolio of media, tape drives, tape autoloaders, tape libraries and disk-based backup systems.



For contact and product information, visit [quantum.com](http://quantum.com) or call **800-677-6268**

# Quantum®

**Backup. Recovery. Archive. It's What We Do.**

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### About Quantum

Quantum Corp. is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.