



# BlackPearl

To meet the demands of extreme data growth and long-term retention, the Spectra BlackPearl™ Deep Storage Appliance enables users to easily store massive data forever at virtually no cost. Designed for organizations where data is a significant part of their operations, BlackPearl allows data to move seamlessly into mass tape storage in a way not previously possible. BlackPearl enables users to deploy a tier of deep storage that is cost effective, easy to manage and scalable to Exabytes of data. With BlackPearl's simple RESTful DS3 interface and embedded tape management software, organizations will confidently store all of their data forever at costs as low as pennies per Gigabyte.

## Absolute lowest cost way to store data

### The lowest cost storage available

BlackPearl takes advantage of tape's low cost, economically scaling to Exabyte capacities. It also promotes reductions in OPEX related expenditure by leveraging Spectra T-Series environmental benefits of high-density footprints and low power consumption.

### Minimal software costs

Integrating BlackPearl requires minimal software acquisition costs to attach deep storage into your environment by leveraging software clients based upon RESTful interfaces. Users can develop their own clients for the DS3 interface or leveraging a library of existing software clients available through the Spectra Software Developer program.

### Reduce time spent managing long-term storage

Deep storage is the ultimate resting place for all data, and with BlackPearl there is no need to continually move data to another storage platform. BlackPearl minimizes the time spent moving data, allowing users to target objects for deep storage. With BlackPearl, users do not need any previous experience with tape library systems. BlackPearl handles how data is written to tape and also the tape library inventory, robotic commands and other aspects of how the library stores the data.

## Easiest way to move bulk data

### Simple approach to interface and manage tape

By leveraging the DS3 interface, BlackPearl unlocks tape's true calling. BlackPearl takes user defined buckets, caches the buckets on high speed SSD storage and determines the best method to write it to tape for greatest system performance. To ensure perpetuity and ease of access for your data, the BlackPearl system writes data on tape in the open LTF5 format to ensure you will always have access to it.

### Ensures data security, reliability and integrity

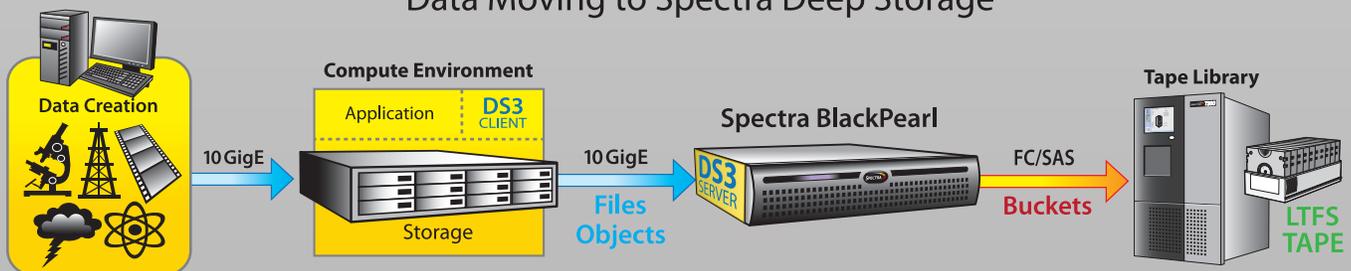
Spectra tape libraries provide a powerful set of tools that allow for data integrity verification and notifications of media, drive, library status and health. BlackPearl also offers extended data security through Spectra's AES 256-encryption offerings.

### Deep Storage Interface modernizes the use of tape

The first RESTful interface to tape, DS3 provides BlackPearl and client interaction via REST, allowing you to move large data sets easily to and from deep storage. The user only moves data through the client while BlackPearl handles all interaction with the tape library.



## Data Moving to Spectra Deep Storage





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## Most scalable long-term storage available

### Fast transfer of large storage objects

BlackPearl offers high performance transfer of bulk data to deep storage, allowing tape to sequentially read and write. BlackPearl optimizes how buckets are written to tape for best performance with up to 172 TB/hr with 120 LTO-6 drives (compressed capacity) in a Spectra enterprise library. Additionally, staging data to BlackPearl's SSDs allows for up to 400 MB/sec reads and writes per appliance to easily offload your data to tape.

### Easily expands to Exabytes and beyond

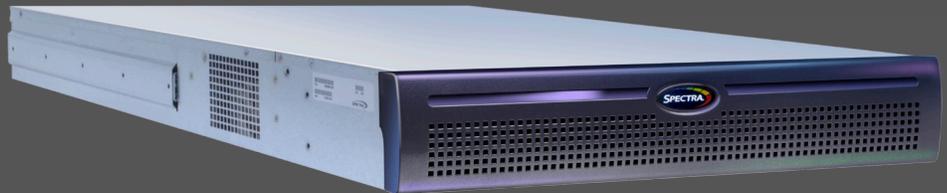
BlackPearl unlocks tape's economies of scale, allowing you to drive the total cost of your deep storage down as your system grows. Standard LTO and IBM TS Technology tape roadmaps also span through future generations with significant capacity improvements to help you realize even greater capacity and storage density benefits.

### Designed to keep data forever

BlackPearl enables you to realize the long-term benefits of deep storage, helping you retain your data indefinitely. BlackPearl includes future support for built-in media migration for seamless transfer of data to future deep storage media formats. It also includes and supports different drive generations to ensure a seamless transition to newer tape media formats.

## BlackPearl Specifications

- Height: 2U (H 3.5")
- Width: W 17.2"
- Depth: 25.5"
- Weight: 42.3 lbs
- Standard network connectivity
  - o 1 Dual 10 GigE port -OR- 1 Dual Infiniband port
  - o 1 Dual FibreChannel port -OR- 6 SAS ports
- 4 Solid State Drives (SSD)



### Performance

- 400 MB/sec reads and writes

## About Spectra Logic Corporation

At Spectra Logic we define, design and deliver innovative data protection through tape and disk-based backup, recovery, archive and deep storage solutions. By igniting innovation we challenge expectations of the data protection market with intelligent, integrated, and simple to use backup and archive technologies. With over 30 years of experience in storage, our goal is to develop high-density, feature-rich solutions with unmatched service and support to customers worldwide. To guarantee superior quality for our clients, we manufacture all T-Series libraries onsite at our Boulder, Colorado USA-based headquarters. For more information, visit [www.spectralogic.com](http://www.spectralogic.com).



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