



ProStor InfiniVault® Model 70

PROSTOR SOLUTIONS

The InfiniVault Model 70 leverages an innovative multi-tier architecture to create an integrated appliance, transforming the economics of long-term storage of fixed digital content. By combining intelligent storage management software, along with cost-effective, robust hardware, the Model 70 significantly lowers both capital and operational expenditures associated with storing fixed digital assets.

The Model 70 implements managed, multi-tiered pools of storage as standard network file shares, ensuring dependable data access with seamless integration into any existing infrastructure. As a tiered archive system, applications and users can define and manage data across four levels of storage:

- Online disk— Retrieval cache for archived files
- Nearline disk—Long-term retention of files
- Offline disk— Infinite capacity of removable disk
- Offsite disk— Simple, multi-site disaster recovery

In addition, the Model 70 online disk can scale to over 120TB, allowing for the creation of online storage pools— ideal as primary storage for fixed digital content. These online storage pools help offload more expensive SAN and NAS systems, while taking advantage of the InfiniVault retention, deletion, space efficiency, compliance and offline policies.

Delivering High Performance While Scaling Capacity

Leveraging quad-core processor technology, intelligent disk-based caching, and a distributed architecture that efficiently scales both capacity and performance, the InfiniVault is able to ingest more than 800 gigabytes per hour and handle more than 6 million file requests per day from the online repository. The Model 70 supports twin 10GbE network ports and can be expanded up to 64 enterprise-class SATA disk drives, so bandwidth is never a problem and performance increases as more online storage is added.

Reduce Storage Costs with RDX®

The nearline and offline tiers are provided by RDX removable disk cartridges. RDX technology offers the fast random access performance of disk combined with the economics of tape. The Model 70 comes with 10 RDX drive bays and can be expanded up to 100 bays by adding additional Removable Disk Units (RDUs). In addition, files can be replicated to other InfiniVault system to accommodate online disaster recovery requirements. *See the RDX Data Sheet for more details.*

Digital content is critically important and needs to be protected and available in the event of component failures, data corruption or site outages. The Model 70 has built-in component redundancy, including dual redundant power, hot-swappable components such as fans and disk drives, and protection against multiple, simultaneous disk failures within the online disk store. Data integrity is assured by “write validation” which ensures that files written to the nearline tier have been written correctly. In addition, a cartridge validation option checks that all files on nearline and offline storage are still readable.

The Model 70 is the ideal storage platform for DCM/ECM applications, video archives, image repositories, and user home shares. It offers tiered archive with long-term retention for email, business records, and other content which must be maintained for compliance reasons.

Management Features

The Model 70 is supported by the InfiniVault Management System. The key features include:

- Multi-tier pool definition and policy management
- RDX media management
- File verification to ensure long-term data safety
- Compliance enforcement, including WORM (Write-Once-Read-Many) and auditing
- Space efficiency via compression and deduplication

See the **InfiniVault Management System Feature Brief** for more details.

InfiniVault Model 70 Product Specifications

Product Configuration	Rack-mount controller unit with 24TB of online storage plus a single Removable Disk Unit (RDU). Includes the complete InfiniVault Management System and the web-based InfiniVault Management Console.
Online Disk	24TB (raw) internal to the controller unit
Online Disk Units (ODUs)	3u rack mountable, 16 x 2TB enterprise SATA drives, 32TB (raw) capacity
Online disk expansion	Up to 3 ODUs
Online disk RAID level	RAID 6 (10+2 internal, 14+2 in the ODUs)
Online performance (throughput)	350MB per second read, 240MB per second write
Online performance (file requests)	140 file requests per second
Removable Disk Units (RDUs)	3u rack mountable, 10 RDX drive bays
Nearline disk expansion	Up to 10 RDUs (for a maximum of 100 RDX drive bays)
Nearline performance (file requests)	50 file requests per second
Offline capacity	Infinite
Connectivity	2x1Gb Ethernet, 2x10Gb Ethernet Network Interface Cards
Client support	Windows, Linux, Unix, Apple, iSeries
Protocol support	NFS v3 (UDP or TCP), CIFS, HTTP, HTTPS, SMTP
Network authentication	Workgroup or Active Directory Domain
Power supply	Dual (redundant) hot swap power supplies
AC input	Universal 110/220V (plug type: NEMA 5-15P)
Power consumption	System controller: 325/760 watts (typical/max); ODU: 270/460 watts; RDU: 150/400 watts
Operating temperature	50° F to 95° F (10° to 35° C)
BTUs	System controller: 1109 BTU per hour; ODU: 922 BTU per hour; RDU: 512 BTU per hour
Relative humidity	20% to 80%, non-condensing (operating)
Thermal gradient	10° C per hour (operating)
Altitude	-50 to 10,000 ft (-15.2 to 3,048 m)

The InfiniVault product line offers innovative solutions that drive business value by preserving and protecting important data and reducing the cost of long-term data storage.

Storage for Terabyte-Years™ That's the ProStor way.