








# ProStor InfiniVault® Model 35

PROSTOR SOLUTIONS

The InfiniVault Model 35 features an innovative multi-tier architecture to create an integrated appliance that transforms the economics of long-term storage of fixed digital content. By combining intelligent storage management software, sophisticated file management and cost-effective robust hardware, the Model 35 significantly lowers operational and capital expenditures associated with fixed digital assets.

The Model 35 employs 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 have the ability to define and manage data across four levels of storage:

					
<b>Placement</b>	Online	Nearline	Offline		Offsite
<b>Performance</b>	High	Medium	Low		Medium-Low
<b>Scale</b>	Add ODU	Add RDU's	Add RDX		Add System
<b>Use Case</b>	Retrieval	Retention	Single Site DR		Multi-Site DR

- Online disk— acts as a “retrieval cache” to allow for fast retrieval of archived files
- Nearline disk— stores up to 100TB of data for long-term retention of files
- Offline disk— offers infinite capacity of removable disk for integration into current offsite storage or disaster recovery workflows
- Offsite disk— maintains the ability to copy files to a remote location for simple, multi-site disaster recovery

The disk storage of the Model 35 allows the creation of online storage pools, which are ideal as primary storage for fixed digital content. The online storage pools facilitate the offloading of data from more expensive SAN and NAS systems and take advantage of the InfiniVault's retention, deletion, space efficiency, compliance and offline policies where appropriate.

The InfiniVault Model 35 provides a low-cost long-term data storage system. The nearline Removable Disk Unit (RDU) accommodates a wide range of applications with various policy requirements. The Model 35 provides scalable expansion options with the capacity to add up to 10 RDUs (for a maximum of 100 disk bays), allowing new workflows to be added as needed.

### Delivering High Performance While Scaling Capacity

Featuring quad-core processor technology, intelligent file caching and a distributed processing architecture that efficiently scales both capacity and performance, the InfiniVault has the capability to take in more than 250 gigabytes per hour and handle more than 3 million file requests per day from the nearline tier. The Model 35 supports 5.6TB of online storage, providing sufficient space to cache millions of files, documents, images, and videos for high-speed retrieval.

### Reduce Storage Costs with RDX®

RDX removable disk cartridges provide the nearline and offline tiers of storage. RDX technology offers the fast random access performance of disk combined with the economics of tape, with a cost of only pennies per GB. The Model 35 includes 10 RDX drive bays and can be expanded to 100 bays with the addition of extra Removable Disk Units (RDUs).

Disk cartridges in the bays constitute the nearline tier, where copies of files are moved based on data protection and archive policies. RDX cartridges can be taken away to offsite vaults and contents will continue to be tracked by the system. In addition, files can be replicated to an additional InfiniVault system to accommodate online disaster recovery requirements. See the *RDX Data Sheet* for more information about this amazing removable media technology.

### Data Center Ready

The Model 35 is a data center designed rack mount system. The main controller unit is a 2u chassis with a built-in online disk store. The standard system includes one RDU with 10 RDX drive bays. The nearline store can be expanded by adding up to ten 3u RDUs with 10 RDX bays each.

All critically important data is securely protected and constantly available even in the event of component failures, data corruption or site outages. The Model 35 features built-in component redundancy, including dual redundant power; hot-swappable components, such as fans and disk drives; and RAID protection against disk failures within the online disk store. Data integrity is ensured by “write validation,” guaranteeing that files transferred to the nearline tier have accurately been written. In addition, a cartridge validation option confirms that all files on nearline and offline storage remain readable—even after years of offline storage.

The Model 35 is the ideal tiered archive repository for long-term retention of email, business records and content that must be maintained for compliance reasons. The system can also be used as primary storage for DCM/ECM applications, video archives, image repositories, and user home shares.

### Management Features

The Model 35 is supported by the all-inclusive InfiniVault Management System software, which provides the management capabilities for the system. Key features of the software include:

- Multi-tier pool definition and management
- RDX media management
- Data reliability to ensure long-term data safety
- Compliance enforcement, including WORM (Write-Once-Read-Many) and auditing
- Space efficiency by offering compression and deduplication

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

## InfiniVault Model 35 Product Specifications

Product Configuration	2u rack-mount controller unit with online storage plus a single Removable Disk Unit (RDU). Includes the complete InfiniVault Management System and the web-based InfiniVault Management Console.
Online Disk	5.6TB (raw) internal to the controller unit
Online disk RAID level	RAID 5 (4+1)
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 (throughput)	75MB per second read, 26MB per second write
Nearline performance (file requests)	64 file requests per second
Offline capacity	Infinite
Connectivity	2x1Gb 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: 190/500 watts (typical/max); RDU: 150/400 watts
Operating temperature	50° F to 95° F (10° to 35° C)
BTUs	System controller: 649 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.