

RACK / FLOOR SYSTEM

ELS8000

Petabyte-Class Nearline Optical Library

Petabyte-class automated preservation for the enterprise.

ELS8000 brings 9,504 media positions and up to 40 drives into a large-scale oRain-managed environment for nearline preservation and Active Archive.

**9,504**

maximum media

Up to 40

drives

6.166 PB

with 1TB media

45U

footprint

WHERE IT FITS



For Active Archive, performance storage and nearline preservation work together. For preservation-only deployments, cache can be cleared after successful optical preservation.

BUILT FOR

- Large-scale Active Archive repositories
- Government, research, healthcare, media and AI datasets
- Petabyte-class nearline preservation
- High-density storage for information that must persist for decades

Technology changes. Information persists.

ELS8000

TECHNICAL OVERVIEW

Core specifications

Underlying model	HDL8640A
Cartridges / media	792 cartridges; 12 media each; 9,504 max
Magazines	22; 36 cartridges per magazine
Capacity	1,542 TB / 3,083 TB / 6,166 TB (200GB / 500GB / 1TB)
Drives	Up to 40
Power	90-300VAC; 1500W peak / 340W typical
Dimensions	23.6 x 78.74 x 42 in; 600 x 2000 x 1067 mm
Rack / max weight	45U; 1,490 lb / 676 kg

INTEGRATION & MANAGEMENT

- S3-compatible object access
- Network-accessible drives support scale across libraries
- oRain knows which system and media hold each object
- Pairs with ELS8000-OL or ELS10K-OL for physically isolated copies

PRESERVATION & RESILIENCE

- Write-once optical preservation
- Optical RAID 11+1 protection and recovery
- High retained capacity at low typical energy
- Supports additional preservation copies and physical separation

ONE ELS FAMILY. ONE MANAGED ENVIRONMENT.

ELS systems can operate as preservation infrastructure or as the optical foundation of Active Archive. oRain provides a unified object and storage-management layer across systems.

Specifications are configuration-dependent and subject to final system design. Media capacities shown reflect supported media classes in current product specifications.