



SeaChange®
≡ **MediaLibrary™ 24000ex**



High-Performance, Fault-Resilient Digital Media Library
HD Ready with MediaClient Codecs

The SeaChange® MediaLibrary™ 24000ex is a high-performance, fault-resilient digital media library that can scale from a single, 2.9TB node up to a 9-node cluster providing over 43TB of capacity. Nodes are equipped with four (4) GigE IP accelerator cards.

The MediaLibrary 24000ex is designed for media companies who need a scalable, reliable disk-based central media asset library and combined with SeaChange MediaClient for ingest or playout of broadcast-quality channels, or for media companies who will implement tapeless workflows where assets can be accessed and exchanged with best of breed production systems.

Unlike alternate approaches to disk-based asset storage requiring mirrored storage and complicated file synchronization and sharing schemes, the MediaLibrary 24000ex provides the cost-effectiveness, single-file efficiency, management simplicity, in-service maintenance and upgrades, and superior fault-tolerance of the clustered RAID²® approach.

FEATURES

Each MediaLibrary 24000ex node includes an array of 24 SCSI disk drives, either 146GB or 300GB. Each node also includes four (4) network accelerator cards with Gigabit Ethernet I/O to support CIFS and FTP access to each media file stored.

The MediaLibrary 24000ex can scale from a single-node system to up to 9 nodes. At full capacity, a cluster of 9 nodes puts 216 discs on line for over 43TB of RAID² protected storage when 300GB disk arrays are used. When nodes are used in standalone configurations, media assets are RAID-5 protected.

MediaCluster® technology and RAID² storage protection provide the highest levels of fault resilience for the MediaLibrary 24000ex. When 3 to 9 nodes are combined into a mediacuster, RAID² storage protection for stored assets permits continued operation even when an entire node is off line. This not only protects on-

going operations from system failures but also permits in-service maintenance, hot swapping of drives, system upgrades and the installation of additional base nodes.

SeaChange MediaLibrary products are network-attached digital media libraries that provide the industry's highest level of fault-tolerance and are available in combinations of storage and I/O capacity to span the needs of the broadcast and content origination segments. Media file transfer is based upon Gigabit Ethernet technology, TCP/IP and CIFS protocols for fast, interoperable asset sharing schemes.

All MediaLibrary products use RAID² technology to provide inherent protection against storage and server failures. This approach eliminates the need for costly, inefficient mirrored storage arrays, duplicate file copies, redundant servers and expensive Fibre Channel hardware and licenses.

The MediaLibrary family includes 3 models of online and nearline media storage. For on-air transmission applications, on-air grade single nodes, storing as low as 730GB, expand to multi-node clusters storing over 43TB of media assets. For nearline storage archiving, the MLX 12100e scales up to 340TB of usable capacity. Each model allows in-service upgrades and maintenance and permits capacity to be expanded without interrupting operations.

MediaLibrary products provide guaranteed I/O bandwidth via TCP/IP-compliant Gigabit Ethernet ports. It supports a variety of standard file transfer protocols such as CIFS and FTP. This capability enables these products to satisfy real-time broadcast I/O requirements and to seamlessly connect to SeaChange MediaClient codecs and best of breed content preparation and asset browsing tools.

MediaLibrary products are designed for broadcasters and content providers who want to replace discrete islands of disk- or tape-based storage with a central media library that offers the performance of disk at a price approaching that of near-line storage.

CLUSTERED CONFIGURATION

- From 3 to 9 nodes
- RAID² fault resilience
- 3.2 GHz CPU with 2 onboard GigE NICs per node
- 4 network accelerator cards per node, each with 1 GigE Copper interface port
- Redundant switched InfiniBand interconnect per cluster

SINGLE NODE CONFIGURATION

- 1 node
- RAID-5 fault resilience
- 3.2 GHz CPU with 2 onboard GigE NICs
- 4 network accelerator cards per node, each with 1 GigE Copper interface port

CHASSIS SPECIFICATIONS

- 6RU chassis with CPU and 24-drive disk array
- SCSI drives, either 146GB or 300GB
- Network Connections: RJ-45 @ 10/100/1000 Ethernet (autosensing)
- 3 load-balanced 500W hot swappable redundant power supplies, 100-240 VAC 50/60Hz
- 10.5" H x 19" W x 24" D (26.7cm H x 48.3cm W x 66.0cm D)
- Weight: 120 lbs (57 kg) with 24 disk drives
- Certification: UL 60950 - CSA 60950, FCC Class A, CE
- Environmental conditions
 - Operating temperature : +10 C to +30 C (50 to 86 F)
 - Relative humidity : 20 to 80%, non condensing
 - 2000meters (6500 ft) maximum

CAPABILITIES

- Jumbo frame support for optimal bandwidth.
- SeaChange® MediaClient™ channel capacity:
 - The MediaLibrary 24000ex supports both SD and HD MediaClient channels. Please consult SeaChange representative for details on supported channel bitrates and density.
 - MediaClients should exclusively connect to dedicated FSI cards while other applications such as Non Linear Editing or Archive Managers connect to other FSI cards.

Please consult a SeaChange representative for ordering information