



ISIS | 7500

The cornerstone of 4K collaboration



Power to succeed

As a broadcast or post-production facility decision maker, you face the real-world challenges of how to store, share, and manage large quantities of HD and 4K digital media assets.

Downtime means lost revenue, lost audiences, and clients who won't be back for more, so rock-solid reliability is a must-have.

Multiple islands of storage mean costly management overhead, so you want to consolidate to a single high capacity, highly scalable system that can accommodate all the needs of your facility and accommodate future growth.

As a production manager, you are looking for a system that delivers the benefits of shared workgroups, while still empowering individual users with the kind of high performance and predictability typically associated with local drive arrays.

Avid® ISIS® | 7500 uniquely delivers on all counts, combining high performance, scalability, and availability, with powerful yet simple-to-use management tools in an open architecture.

Unparalleled performance

Effortless real-time HD and 4K performance and efficient bandwidth delivery set ISIS | 7500 apart. With each ISIS | 7500 Engine providing up to 400 MB/s of usable bandwidth, predictable performance is sustained even as client counts increase, easily meeting the challenge of large installations or the most demanding and ambitious uncompressed HD real-time workflows. That's a key reason why ISIS | 7500 is the ideal media network foundation for any content creation enterprise. Plus, it now supports 4K and Ultra HD collaborative workflows; more third-party applications, including Premiere Pro, Smoke, Final Cut Pro X, and DaVinci Resolve; and a wide variety of high-res media formats, including REDCODE 5K, 4K DCI (DPX), ProRes, XAVC, and Sony F55 RAW 4K.

Exceptional expandability

ISIS | 7500 is based on a highly scalable, self-balancing, distributed architecture. Each storage blade hosts a local CPU, so when you add capacity, you also add intelligent processing power.

Client scalability—With the tested and proven ability to scale up to 330 real-time clients, you can rely on ISIS | 7500 as your workflow or facility grows. From editors, loggers, and journalists,

to producers and remote teams, media assets are now easily accessible to users across the enterprise.

Asset scalability—ISIS | 7500 can be expanded up to 3 PB of raw capacity, or 1.53 PB of usable storage with ISIS Mirroring data protection. This is enough to store up to 2,600 hours of fully protected uncompressed 10-bit HD, or 50,000 hours of compressed HD.

Gateway access—For non-real-time storage needs, such as graphics, stills, text, or low-res video, any Windows, Mac, or Linux workstation across the enterprise can utilize ISIS | 7500 storage with CIFS or FTP connectivity through the ISIS file gateway.

Real-time collaboration

As content demand increases and priorities and deadlines change, collaboration is key. With ISIS | 7500, you and hundreds of other content creators and contributors can work together, sharing the same SD, HD, 2K, and 4K media assets to turn around projects faster. It's the only system that provides a highly scalable, highly protected, real-time editorial workflow.

Protect your business

The ISIS | 7500 Engine runs the distributed ISIS File System through a unique combination of dual-drive server-storage blades, integrated Ethernet switch blades, and no-compromise, purpose-built engineering. ISIS | 7500 sets industry benchmarks for drive vibration and cooling efficiency, and provides hardware, media, metadata, and network redundancy. Built-in system-wide health monitoring alerts you to any configuration failures at any point of failure. ISIS | 7500 Engines, storage blades, switch blades, and power/cooling modules can be easily added, removed, or hot-swapped while the system is live. The system automatically adapts to component failures and replacements—while work continues without delay.

Unlike common storage area networks (SANs), the advanced ISIS File System architecture distributes data and metadata so that each intelligent storage element can make instant decisions that collectively optimize the performance, capacity, and health of the entire system. Complementary redundancy across all components provides an unprecedented seven layers of protection for uninterrupted availability and absolute reliability in high-pressure broadcast, post, or film production environments.

For more information, visit www.avid.com/ISIS7500

ISIS | 7500—Enterprise-class, real-time media shared storage

Quality, performance, and value—input to output

PERFORMANCE

- Work with high-res media—in real time—with support for third-party 2K/4K creative applications
- Work in resolutions up to 4K and Ultra HD when using 10 Gb/s Ethernet clients (Windows, Mac, and Red Hat Linux), or Avid DNxHD® 220x/185x using 1 Gb/s Ethernet clients (Windows, Mac, and Red Hat Linux)
- Support up to 330 simultaneous real-time editing clients with 400 MB/s per engine throughput and 9.6 GB/s (aggregate) with 24 ISIS Engines

SCALABILITY

- Scale raw capacity from 64 TB to 3 PB
- Scale mirrored capacity from 32 TB to 1.53 PB
- Scale client count up to 330 real-time clients
- Support for non-real-time clients using File Gateway

RELIABILITY

- Protect critical data through redundant, hot swappable storage blades, switch blades, power modules, and System Directors
- Keep productivity uninterrupted with self-healing intelligent storage blades that automatically reconstruct data in the background while supporting essential real-time operations
- Minimize system vulnerability with ultra-fast drive rebuild, which can be up to 20 times faster than conventional RAID techniques

STORAGE BLADES

- Intelligent dual-drive storage elements; includes a choice of 4 TB or 8 TB of storage per blade
- Design minimizes drive vibration
- Integrated Linux-based server with dual redundant 1 Gb/s
- Each blade is a hot swappable field replacement unit (FRU)

FILE SYSTEM

- 64-bit self balancing, distributed file system
- Enables guaranteed real-time access to the storage blades
- Distributes file system management among clients, storage blades, and System Director

ISIS ENGINE

- Rigid rackmount-ready chassis (4U rack height) houses 16 ISIS Storage Blades, two Integrated Ethernet Switch Blades, and three Power/Cooling blades
- Laminar airflow provides efficient cooling of all components
- No internal cabling; passive mid-plane distributes signals and power directly to all internal components

NETWORK CONNECTIONS

- Gigabit Ethernet
- 10 Gigabit Ethernet
- Dual Gigabit Ethernet
- Dual 10 Gigabit Ethernet

COLLABORATION

- Files/folders: 10 million
- User accounts: 5,000
- User groups: 5,000

Supported Avid products

- AirSpeed®
- Interplay® | Production
- Media Composer | Software
- Media Composer | Symphony® Option
- Media Composer | NewsCutter® Option
- Media Composer® | Cloud (formerly Interplay Sphere)
- Pro Tools® | Software

Third-party editing (including 4K workflows)

- Adobe Premiere Pro
- Apple Final Cut Pro
- Autodesk Smoke
- Blackmagic Design DaVinci Resolve

File Gateway Access

- Access ISIS workspaces using CIFS and FTP connections

PLATFORM SUPPORT

Operating systems

- Windows 8 (64-bit)
- Windows 7 (64-bit)
- Mac OS X 10.9 Mavericks (64-bit)
- Mac OS X 10.8 Mountain Lion (64-bit)
- Mac OS X 10.7 Lion (64-bit)
- Red Hat Linux 6.2 (64-bit)

ADMINISTRATION TOOLS

- Dynamic workspace set-up and monitoring
- FlexDrive dynamically adjusts storage workspaces without editing interruption
- User administration:
 - View, create, define workgroups, and delete and assign passwords
 - Active Directory (LDAP) integration for user account synchronization with IT systems
 - User workspace access controls
- Pictorial system component health monitoring and status notification
- Set up, view, and edit users, workspaces, and disk sets
- View error warnings and informational message logs
- Monitor the health and physical location of major components
- Remote notification of system events

Corporate Headquarters
800 949 AVID (2843)

Asian Headquarters
+ 65 6476 7666

European Headquarters
+ 44 1753 655999

For more information, visit www.avid.com/ISIS7500