

NEXIO Farad™ offers flexible and uncompromising storage that delivers unprecedented levels of bandwidth and capacity to support industry media workflows. This high-performance online storage system is specifically designed for broadcast and production facilities, including news, sports and live-event applications. NEXIO Farad provides sharable and scalable storage throughout the content lifecycle, while offering the highest levels of digital asset protection.



### Scales storage easily and independently of bandwidth

It's difficult to predict storage requirements in a rapidly changing industry. With 3 Gb/s and Ultra HD on the horizon, your storage and bandwidth need to be able to evolve as fast as you do.

NEXIO Farad allows you to scale storage and bandwidth independently of each other, helping to keep your storage costs low. Scale NEXIO Farad capacity to more than 512 TB of usable storage and/or 32,000 Mb/s easily with minimal workflow disruption. The NEXIO Farad system's non-destructive background restriping allows new storage to be added with no performance degradation and keeps your current content intact without performing additional backups.

### Protects media assets throughout the lifecycle

Farad protects your most valuable asset — your content. The high availability of NEXIO Farad helps you to stay focused on running your business and not on technical, behind-the-scenes challenges.

The innovative NEXIO Farad uses RAID-601, protecting you against drive, controller and storage chassis failures and maintaining system throughput. RAID-601 combines RAID 6, 0 and 1 technology for unparalleled reliability, availability and performance. NEXIO RAIDsoft™ striping increases bandwidth, and Harris-patented Intrinsic Mirroring™ ensures your content is always available.

### Improves workflow and collaboration

With NEXIO Farad, you'll be able to get content into the hands of your audience faster and more cost effectively.

NEXIO Farad provides true shared online broadcast storage and eliminates the need for separate storage islands, simplifying workflows. All media is stored in one place for ingest, production and playout, so there are no time- and money-wasting file transfer tasks to, from or between servers. All users have access all of the time, without any restrictions on getting their job done. NEXIO Farad also supports high-speed archive and restore interaction with NAS or tape storage. Media latency access is avoided and media management software costs are reduced.

### Delivers significant operational improvements

Your NEXIO Farad storage is configured and installed onsite by trained Harris field engineers, simplifying installation. A simple yet powerful management console lets you monitor the health of NEXIO Farad. Its "Spare Drive Provisioning" technology provides a pool of standby media drives that are used for unattended and automatic drive rebuild following a drive failure. Replacing a drive is done at your convenience, without any performance degradation.

### KEY BENEFITS

- **Flexible capacity and bandwidth**

Allows scaling of storage and bandwidth as your requirements grow, without affecting existing media

- **High availability**

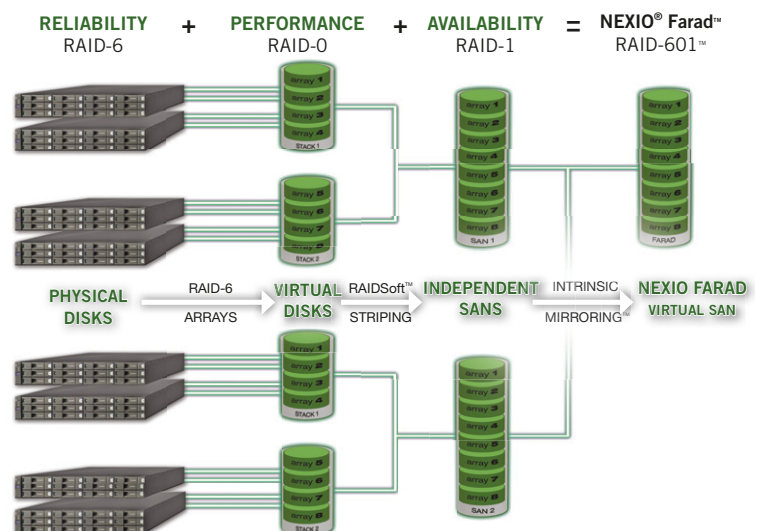
Enables continuous broadcast operations, with no performance degradation in the event of multiple and simultaneous failures

- **Facilitates collaboration**

Provides true shared access for fast-turnaround editorial environments and shorter time to air

- **Easy to manage**

Allows unattended drive rebuilds, supports remote monitoring and diagnostics, and includes an informative graphical user interface (GUI)



## SPECIFICATIONS

| FORMAT       | USABLE STORAGE<br>512 TB | TRUE SHARED BANDWIDTH<br>32,000 Mb/s |         |
|--------------|--------------------------|--------------------------------------|---------|
|              |                          | Playout                              | Editors |
| XDCAM HD/50  | 19,200 hrs               | 530                                  | 90      |
| DVCPROHD/100 | 9,300 hrs                | 260                                  | 45      |
| DNxHD/220    | 4,900 hrs                | 140                                  | 25      |

*NEXIO Farad true shared storage support for high bitrate broadcast codecs*

## GENERAL INFORMATION

|                              |   |
|------------------------------|---|
| CORE Controller              | Dual controller modules per enclosure<br>2 x 8 Gb/s Fibre Channel I/O ports per module<br>1 x 4-lane 3 Gb mini-SAS connector per module                 |
| STORE Connector              | Dual SAS connector modules with three 4-lane 3 Gb mini-SAS connectors per module  |
| Management/status reporting  | StorView™ Web GUI, CLI, SES, SNMP to CCS Navigator™ (SCSI Enclosure Services)   |
| Maximum stack configuration  | Dual host-connected enclosures with a maximum expanded configuration of 8 enclosures — total of 96 drives   |
| Maximum system configuration | Up to 8 stacks, each with 1 NEXIO Farad core per domain; maximum 4 stacks per side of the Intrinsic Mirroring configuration                             |
| Protection levels            | RAID-601  |
| Hot-swappable components     | Disk drives, PSU/cooling modules, CORE Controller modules and STORE Connector modules   |
| Physical                     | Height: 3.46 in. (87.9 mm) 2 EIA units<br>Width: 19 in. (483 mm) IEC rack-compliant<br>Depth: 24.8 in. (630 mm)<br>Weight: 57.2 lbs (26 kg) with drives |

## DISK DRIVES

|   |                        |
|---|------------------------|
| Drive type  | SAS 3 Gb/s             |
| Drive size  | 1 TB, 2 TB             |
| Spindle speed   | 7,200 RPM              |
| Cache, multisegmented                                       | 16 MB                  |
| Seek time, read/write (average, msec)                       | 8.5/9.5                |
| Mean time between failures                                  | 1.2 million MTBF hours |
| Reliability rating at full 24x7 operation                   | 0.73% AFR              |
| Transfer rate, sustained                                    | 116 Mb/s               |
| Power consumption   | 10.2 W, idle           |
| Rotational vibration @ 1,500 Hz max (rad/sec <sup>2</sup> ) | 12.5                   |

## ENVIRONMENTAL AND CERTIFICATION

|                             |                                |
|-----------------------------|--------------------------------|
| Operational altitude        | 0 to 7,000 ft (0 to 2,133 m)   |
| Non-operational altitude    | 0 to 40,000 ft (0 to 12,192 m) |
| Voltage — single phase      | 100 to 240V AC @ 60/50 Hz      |
| Input current               | 6A (115 VAC), 3A (230 VAC)     |
| Operational temperature     | 41° to 104° F (5° to 40° C)    |
| Non-operational temperature | 33.8° to 122° F (1° to 50° C)  |
| Operational humidity        | 8% to 80% non-condensing       |
| Non-operational humidity    | 8% to 80% non-condensing       |
| Operational shock           | 5 g 10 ms 1/2 sine             |
| Non-operational shock       | 30 g 10 ms 1/2 sine            |
| Operational vibration       | Random 0.21g RMS 5 to 500Hz    |
| Non-operational vibration   | Random 1.04g RMS 2 to 200Hz    |
| Acoustics                   | < 58 dB LpA @ 68° F (20°C)     |
| Safety                      | CCC, CE, UL, cUL, RoHS (R6)    |

For more information, visit: [www.broadcast.harris.com](http://www.broadcast.harris.com)



Broadcast Communications Division  
9800 South Meridian Boulevard, Suite 300 | Englewood, CO USA 80112 | Tel: +1 303 476 5000  
[www.broadcast.harris.com](http://www.broadcast.harris.com)