



GENESIS RX2 RAID

PRIMARY STORAGE SOLUTION

Designed to deliver reliable and sustained high-bandwidth performance in video post production, VFX, broadcast, and sports

SOLUTIONS FOR EVOLVING MEDIA WORKFLOWS

The Genesis RX2 (RX2) is built with digital media applications and formats in mind.



Sample of end-users using our RX RAID Technology



BOB JONES UNIVERSITY
EST. 1927



PennState



Advanced Read and Write

The read and write cache of the RX2 holds more data on writes and reads, adding to the superior latency characteristics of the RX2 system. The RX2 algorithm is also designed to eliminate drive born latencies by skipping and calculating parity for the two slowest drives on every read request. RX2's HDD latency means fewer dropped frames.

Dramatically Faster Rebuilds

The RX2 RAID I/O ports can sense host data activity, allowing them to wait for a period of no I/O to utilize 100% of the HDD bandwidth for rebuild operations. The RX2 rebuilds faster by writing without a limitation. If there is I/O request from an edit bay, the rebuild pauses, allowing all throughput to the application.

QoS Initiator

Most QoS technologies remain difficult to setup and change on the fly, however the RX2 QoS feature allows a simple click in the GUI or a scriptable setting to give one or more host machines connected to the RX2 bandwidth priority. Then all non-QoS Initiator systems share the leftover bandwidth.

Superior Data Protection

The RX2 has a partial rebuild feature that rebuilds a small sector area if a HDD defect is encountered, which puts less of your data at degraded risk. Silent Data Corruption remains the worst kind of data corruption because it is very tough to detect and eliminate. The RX2 algorithm is fast enough to detect and fix silent data corruption with low detectable latency to the applications in use.

iSCSI and/or FC Support

iSCSI and FC protocols outperform standard network protocols for media by removing much of the networking overhead and, in the case of FC, producing perfect packet delivery. RX2' multi-protocol support allows you to choose the right protocol for the right job, and to have a hybrid system containing both if desired.

Slow drive alerts

The RX2 can handle HDD bad blocks or media defects more intelligently than other RAID's. This helps ensure data integrity. The individual drive performance latency counters can help find and replace a slowly performing HDD, and notify and alert that a latent drive has been identified.