LaCie

4big Quadra

ENTERPRISE CLASS

DESIGN BY NEIL POULTON

5 YEAR ENTERPRISE CLASS SERVICES™

ENCRYPTION PROTECTION

ENTERPRISE CLASS DISKS INSIDE

Professional 4-Bay RAID

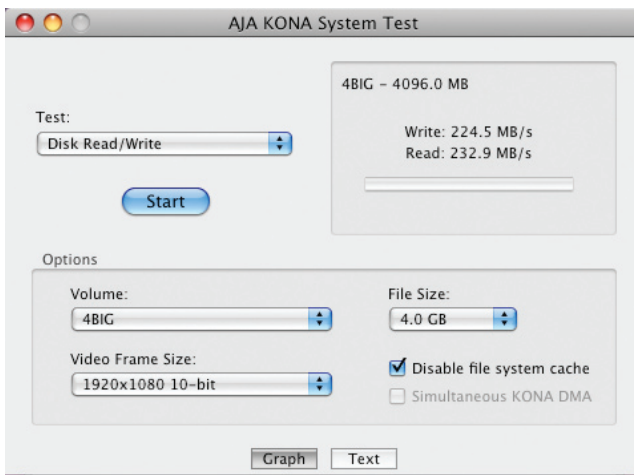eSATA 3Gb/s | FireWire 800 & 400 | USB 2.0

The Enterprise Class Difference

The LaCie 4big Quadra Enterprise Class is the most complete 4-bay RAID solution for professionals who need RAID performance and encryption protection for their data. Featuring seven RAID modes and four interfaces for full compatibility, the 4big Quadra Enterprise Class also integrates four internal SATA server-grade disks for quality and more robust performance.

RAID 0 mode benchmark without encryption

Enterprise Class Performance

With its 24K gold-plated contacts and SATA Enterprise internal disks, the LaCie 4big Quadra Enterprise Class has great performance and capabilities. Taking advantage of a native RAID controller that preserves computer resources, the LaCie 4big Quadra Enterprise Class offers superior support for the most speed demanding applications. Pre-configured in RAID 5 for full speed and data protection, it can reach up to 230MB/s* through eSATA 3Gb/s, in RAID 0 and in RAID 5. Alternative RAID modes can be configured in seconds upon startup to manage speed, security, and available capacity.

Enterprise Class Protection

The LaCie 4big Quadra Enterprise Class has been developed to keep your data safe and secure. Featuring the option to implement advanced 128-bit AES hardware encryption, it's perfect for professionals who need to protect files and data from any unauthorized access. In addition to keeping your data safe, the LaCie 4big Quadra Enterprise Class features secure RAID modes, including RAID 5, RAID 3, and RAID 10 for full security and drive failure support. In these configurations, hot-swappable disk trays even allow maintenance without affecting your workflow. Extra spare disks are also available on the LaCie website as an option for immediate replacement and RAID protection rebuilding.

RAID Flexibility

MODE	CAPACITY	PROTECTION	SPEED
RAID 0	100%	★	★★★★★
RAID 5	75%	★★★	★★★★
RAID 5+Spare	50%	★★★★	★★★★
RAID 3	75%	★★★	★★★★
RAID 3+Spare	50%	★★★★	★★★★
Concatenation	100%	★	★★
RAID 10	50%	★★★★★	★★★

- Internal SATA Enterprise Class disks
- Five years of Enterprise Class Service included
- Robust transfer speeds up to 230MB/s
- 128-bit AES hardware encryption for custom data protection
- Four hot-swappable disks for non-stop data access**
- Ultra quiet cooling system for greater reliability
- High-end cables with 24K gold-plated contacts

Professional Streaming Performance

The LaCie 4big Quadra Enterprise Class has been developed to suit the demands of creative professionals, like editors who work with Apple® Final Cut Pro®, the Adobe® Creative Suite®, or other programs. The 24K gold-plated contacts on its cables offer accurate and fast signal transfer. For professionals who need high transfer rates, the eSATA 3Gb/s and FireWire 800 interfaces will let them get the fastest bandwidth. When used in RAID 0 or RAID 5, the LaCie 4big Quadra Enterprise Class supports multiple audio, DV, SD, and HD streams, and up to one stream of uncompressed 10-bit NTSC video in playback. Greater performance can even be achieved by connecting up to four units together to a multilane eSATA four-port host adapter, in order to support multi-stream uncompressed 10-bit 1080i HD post-production.

Blackmagic Disk Speed Test

Disk to Test: 4big Quadra   Run Test

Disk Read Speed Results

Disk Read Data Rate in MB/s   174.3

Disk Write Speed Results

Disk Write Data Rate in MB/s   178.6

8 Bit YUV 4:2:2 Frame Rates

	Disk Read	Disk Write
HDTV 1080 fps	44	45
HDTV 720 fps	99	101
NTSC fps	261	267
PAL fps	220	225

10 Bit RGB 4:4:4 Frame Rates

	Disk Read	Disk Write
HDTV 1080 fps	22	22
HDTV 720 fps	49	50
NTSC fps	130	133
PAL fps	110	112

10 Bit YUV 4:2:2 Frame Rates

	Disk Read	Disk Write
HDTV 1080 fps	33	33
HDTV 720 fps	74	76
NTSC fps	195	200
PAL fps	165	169

12 Bit RGB 4:4:4 Frame Rates

	Disk Read	Disk Write
HDTV 1080 fps	19	19
HDTV 720 fps	43	44
NTSC fps	114	117
PAL fps	96	98

Benchmark without encryption***

HARDWARE 128-BIT AES ENCRYPTION

Intellectual Property Protection

Offering huge capacity for small business and creative professionals who need terabytes of storage for their digital libraries and backup, the LaCie 4big Quadra Enterprise Class also features the capability to protect assets and intellectual property through government-grade hardware 128-bit AES encryption. Set up a password and make your LaCie 4big Quadra Enterprise Class a near-vault, protecting your files against unauthorized access!

Backup, Restore, and Recover

The LaCie 4big Quadra Enterprise Class comes with Genie Backup Manager Pro™ for Windows® and Intego Backup Manager Pro™ for Mac®. This software lets you to reliably and efficiently back up your documents, emails, settings, or other digital assets. With its ease of use, you can either program the LaCie Shortcut Button with the LaCie Desktop Manager to launch a backup with one push, or schedule and customize the type of backup you create. Ideal for creative professionals, the Genie and Intego programs can easily find previous versions of your documents and restore them. With computer recovery options, professionals will be able to restore their configuration and to go right back to work in the event of a disaster with their workstation. It's easy to back up directly from your Mac with the native solution, since the LaCie 4big Quadra Enterprise Class is compatible with Time Machine®▼.

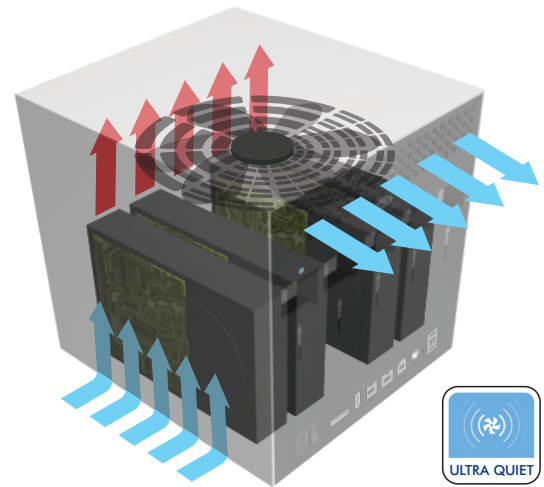**1TB**▼▼= 2 hours of uncompressed HD video or 70 hours of DVD or 77,500 RAW photos▼▼▼

Enterprise Class Disks

The LaCie 4big Quadra Enterprise Class comes with SATA internal Enterprise Class disks with an unbeatable 5-year warranty. These high-quality internal disks feature 32MB cache memory and 7200RPM, and target an ambitious 1.2 million hours MTBF (Mean Time Before Failure). Designed for a RAID tower, they have been developed with rotational vibration resistance technology, helping them to be even more reliable and robust. Spare drives are also available on the LaCie website so users have the option to keep full protection for their data in secure RAID configurations.

Quiet and Reliable Operation

For the best and most reliable cooling system for the LaCie 4big Quadra Enterprise Class, LaCie has chosen Noctua and the NF-P12 fan technology, designed in Austria, and automatically thermoregulated by SMART commands. The nine-blade design and the vortex-control notches of the blower provide superior pressure and airflow performance, all at a volume fewer than 19dBA. The best-in-its-class Noctua NF-P12 is rated at 150,000 hours MTBF, and its ultra-quiet design makes it perfect for even the most noise-sensitive creative environment. This attention to detail allows the LaCie 4big Quadra Enterprise Class to be from 30% (seek) to 46% (idle) quieter than traditional comparable systems.■

To find out more about Noctua technology, please visit www.noctua.at
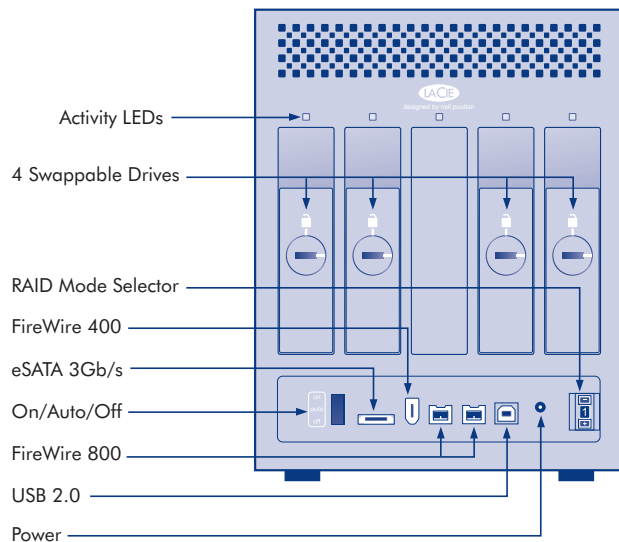
ULTRA QUIET

Power Savings

Traditional RAID systems can consume a lot of power, but the LaCie 4big Quadra Enterprise Class is different. LaCie has reduced power consumption by 30%■ compared to the previous 4-disk RAID generations. Moreover, with the "Auto" mode of the triple position power button, the 4big is able to automatically go into standby mode—synchronized with the computer activity—and reduces the power consumption by up to 80%. For maintenance, the LaCie 4big Quadra Enterprise Class can optionally be disconnected from the computer during a RAID protection rebuild—the LaCie 4big Quadra Enterprise Class will complete the task in standalone mode, and you can switch off your computer!

OPTIMIZED POWER MANAGEMENT

RoHS

Features

- eSATA 3Gb/s, FireWire 800, FireWire 400, USB 2.0
- RAID 0, 10, 3, 3+Spare, 5, 5+Spare, Concatenation
- Fast burst transfer rates: up to 230MB/s* (eSATA)
- AES 128-bit hardware encryption
- LaCie Desktop Manager
- Triple Power Management: Auto/On/Off
- Easy to set up: plug & play, driver-free
- Compatible with Time Machine

Minimum System Requirements

- Computer with an eSATA, FireWire 800, FireWire 400 or USB 2.0 port
- Latest version of Windows XP▼, Windows Vista®, Windows 7 / Mac OS X 10.5, 10.6
- Minimum free disk space: 600MB recommended

Box Content

- LaCie 4big Quadra Enterprise Class
- eSATA-to-eSATA (3Gb/s) cables with 24K gold-plated contacts
- FireWire 800 (9-to-9 pin) cables with 24K gold-plated contacts
- FireWire 400 (6-to-6 pin) cables with 24K gold-plated contacts
- USB 2.0 cables (USB 1.1 compatible) with 24K gold-plated contacts
- Quick Install Guide
- LaCie Utilities and User Manual:
  - LaCie Desktop Manager
  - Genie Backup Manager Pro software with computer recovery option for Windows XP, Windows Vista, Windows 7
  - Intego Backup Manager Pro software with computer recovery option for Mac OS X 10.5, 10.6

- Activity LEDs
- 4 Swappable Drives
- RAID Mode Selector
- FireWire 400
- eSATA 3Gb/s
- On/Auto/Off
- FireWire 800
- USB 2.0
- Power

LACIE 4BIG QUADRA ENTERPRISE CLASS SPARE DRIVE

A spare drive and drawer for use with the LaCie 4big Quadra Enterprise Class.

Item #	301497	301498
Capacity	1TB	2TB

Enterprise Class Service

5 YEAR ENTERPRISE CLASS SERVICES▪

Fully developed to be a reliable storage solution for professionals, the LaCie 4big Quadra Enterprise Class features five years of Enterprise Class Service, which includes a five-year warranty, a five-year Advanced Care Option and a five-year data recovery service option▪▪ (data recovery service is available in Europe only). LaCie can only provide Enterprise Class Services in the country where the product has been purchased and where there is a local LaCie subsidiary or office. For more information on Enterprise Class Service and terms and conditions, please visit www.lacie.com.

LaCie 4big Quadra Enterprise Class

Item Number	301385	301437	
Capacity▼▼	4TB▼	8TB▼	
Interfaces	eSATA 3Gb/s, FireWire 800, FireWire 400, USB 2.0		
Interface Transfer Rates (Maximum theoretical bus speed)	eSATA 3Gb/s: up to 3Gbits/s (300MB/s) FireWire 800: up to 800Mbits/s (100MB/s) FireWire 400: up to 400Mbits/s (50MB/s) USB 2.0: up to 480Mbits/s (60MB/s)		
Burst Transfer Rates* (Read RAID 0 maximum drive speed)	Without Encryption: eSATA 3Gb/s: up to 220-240 MB/s FireWire 800: up to 80-90MB/s FireWire 400: up to 35-40MB/s USB 2.0: up to 30-35MB/s	With Encryption: eSATA 3Gb/s: up to 155-165 MB/s FireWire 800: up to 75-85MB/s FireWire 400: up to 35-40MB/s USB 2.0: up to 30-35MB/s	
Average Transfer Rates* (Read RAID 0 average drive speed)	Without Encryption: eSATA 3Gb/s : 190-200MB/s FireWire 800: 75-80MB/s FireWire 400: 35-40 MB/s USB 2.0: 30-35 MB/s	With Encryption: eSATA 3Gb/s : 145-155MB/s FireWire 800: 75-80MB/s FireWire 400: 35-40 MB/s USB 2.0: 30-35 MB/s	
Rotational Speed/ Cache▼▼	7200 rpm / 4x32MB or greater		
Seek Time (Read)	<10ms eSATA		
RAID Modes	RAID 0**, RAID 5, RAID 5+Spare, RAID 3, RAID 3+Spare, Concatenation, RAID 10		
LaCie Shortcut Button	Launch any application (backup, music, slideshows) with one push		
LaCie Desktop Manager	Manages encryption to prevent unauthorized data access		
Triple Power Management	"Auto" for energy efficiency; "On" for instant access; "Off" for data protection		
Cooling System	Ultra-quiet Noctua fan with self-stabilizing oil-pressure bearing technology		
Dimensions (WxDxH)	178 x 197 x 225 mm / 7 x 7.8 x 8.9 in.		
Weight	7.6 kg / 16.7 lbs.		
Warranty	5-year		

LaCie d2 Quadra Enterprise Class

LaCie 2big Quadra Enterprise Class

LaCie 4big Quadra Enterprise Class

*Maximum interface transfer rate = theoretical bus bandwidth, whereas burst transfer rate = maximum drive speed. Performance depends on the RAID mode selected and burst and average transfer rates vary from one computer to another and may vary slightly from one drive to another.
**Hot-swapping is not possible in RAID 0 and concatenation modes.
***Test run on a 75% full 4big without encryption plug through eSATA 3Gb/s LaCie eSATA card 713113, on a Mac Pro, OS X 10.5.7 with a 2 x Quad-core Intel Xeon 2.8GHz and 4GB RAM.
▼Windows XP does not recognize partitions of more than 2TB.
▼▼1TB (Terabyte) = 1000GB. 1GB = 1000MB. 1MB = 1,000,000 Bytes. Total accessible capacity varies depending upon operating environment (typically 10% less). Capacity and cache memory vary depending upon RAID mode.
▼▼▼Calculations are based on 1080i 60 (8-bit) for uncompressed HD video, NTSC DV 25 standard-definition 720x486, 29.97 fps for digital video; and an estimation of Digital SLR resolution of 10 megapixels for RAW photos of 12MB. These calculations are only estimations and may vary with the codec used.
▪ Indicative reference, when compared with the previous generation LaCie Biggest RAID tower.
▪▪ For confidential and technical reasons LaCie will not recover data from an encrypted drive.

LACIE