LaCie 12big Rack Fibre 8

The Fastest Fibre Channel Storage Solution

Up to 120TB (SATA drives) / 57.6TB (SAS drives)
Up to 2590MB/s (read) and 1880MB/s (write)

The Fastest Speeds on the Market

The LaCie 12big Rack Fibre 8 is perfect for creative professionals who need to work with multiple streams of uncompressed HD video. It features four 8Gb/s Fibre Channel connections, and with active/active dual RAID controllers, it can provide enough bandwidth to support one full non-interlaced 4K video stream* with only 12 drives. It can even reach up to 2590MB/s with expansion units.

Totally Redundant—Totally Reliable

In addition to the 12 hot-swappable disks, dual RAID controllers, and individually-tested enclosures, its two power supplies and redundant cooling units are hot-swappable, providing the ultimate in security. Its casing adheres to SSB international standard references, delivering increased quality and affordability. With the 12big Rack Fibre 8, there is no single point of failure and a backup battery helps to ensure that cached data within the RAID controllers can even survive a power failure. And, with the 5–Year Gold Protection Plan, you receive a five-year warranty on drives and casing.

A Total Storage Solution

The LaCie 12big Rack Fibre 8 offers the most storage, the highest speeds, and unparalleled reliability. It's the ideal solution for post-production professionals working with HD, as well as for IT managers looking for a rock-solid storage solution. With an 8Gb/s Fibre Channel interface, it's faster than ever, with performances reaching over 1200MB/s with only 12 drives. The LaCie 12big Rack Fibre 8 has 12 individually-tested enterprise class disks, supports six RAID modes, including 5, 50, and 6, and allows the user to create up to 60 cost-effective enterprise class SATA disks or 96 high-performance SAS drive disk arrays.

Perfect for Your Office Today— and Tomorrow

The 12big Rack Fibre 8 allows scalability and simple integration, since it can easily expand along with your organization. With its four Fibre Channel connections, you can share storage among four desktop machines or even integrate it into a SAN environment, as a larger solution. Its pre-configured RAID setups, remote tech support analysis capabilities, and 5-year warranty and product swap help to make it one of the best-supported, most reliable options on the market. The 12big Rack Fibre 8 can be expanded through dynamic disk array and LUN expansions, and even supports multiple disk sizes. In addition, the 12big Rack Fibre 8 comes standard with the best customer support in the industry through advance product swap, access to specially-trained tech support in your country, and escalation to the 12big Core Team if your issue isn't resolved within 24 hours.

- 1200MB/s with only 12 drives and up to 2590MB/s
- Fully redundant and reliable for post-production or IT professionals
- Dedicated, trained support in your country with 5-year warranty and product replacement
- Enterprise class drives; supports mixed SAS and SATA drive configurations

Minimum System Requirements

- PC or Mac® or server with a 8Gb/s Fibre Channel HBA
- Windows® Server 2003 (IA32, EM64T, IA64); RedHat Linux AS4/EL5 (IA32, EM64T, IA64); SuSE Linux 9/10 (IA32, EM64T, IA64); or Mac OS X 10.4 or higher
- Supported web browsers: Internet Explorer® 6.0 or higher, Mozilla® Firefox® 1.5 or higher, and Safari® 2.0 or higher

The 12big Rack Fibre 8 comes with LaCie's top-of-the-line 5-Year Gold Protection Plan, which features:

- Five-year warranty on your 12big Rack Fibre 8's casing and drives
- In-house technical support in 13 subsidiaries worldwide
- 48-hour advance product replacement

5-YEAR
GOLD
PROTECTION

LaCie 12big Rack Fibre 8 Box Content

- LaCie 12big Rack Fibre 8 dual controller enclosure
- 2 x SFP connectors per controller
- 4 x 8Gb/s Fibre Channel LC to LC optic cables (3m)
- Rack mounting rail kit
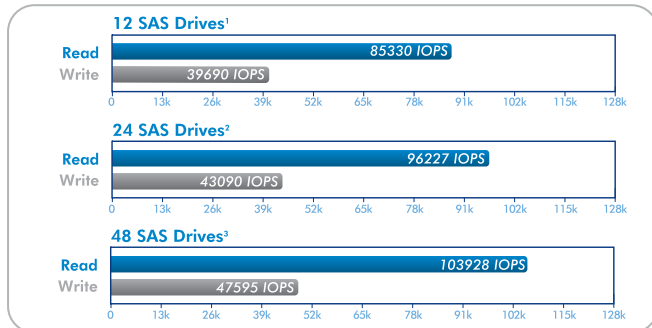- UK, EU, US power cords

LaCie 12big Rack Expansion Box Content

- LaCie 12big Rack Expansion dual I/O module enclosure
- SFF-8088 to SFF-8088 Mini SAS cable (2m)
- Rack mounting rail kit
- UK, EU, US power cords

12big Rack Fibre 8 Performance
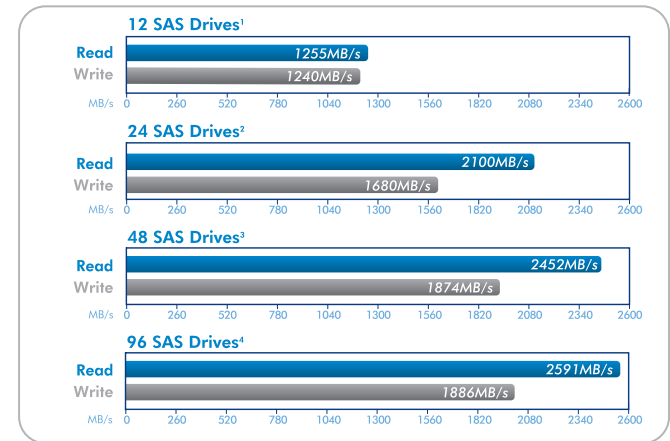
Corporate IT Applications

RAID 5 IOmeter Benchmarks

IOPS Performance

12 SAS Drives[1]

Read	85330 IOPS
Write	39690 IOPS

0 13k 26k 39k 52k 65k 78k 91k 102k 115k 128k

24 SAS Drives[2]

Read	96227 IOPS
Write	43090 IOPS

0 13k 26k 39k 52k 65k 78k 91k 102k 115k 128k

48 SAS Drives[3]

Read	103928 IOPS
Write	47595 IOPS

0 13k 26k 39k 52k 65k 78k 91k 102k 115k 128k

[1] **Cache Mirroring disabled**, 2 LUNs of 6 SAS drives RAID 5 (5 + 1) (-1%), 256kB chunk size, 2 x 8Gb/s FC ports point-to-point mapped to one LUN each.
IOmeter configuration: 2 worker, 2 disks, QD32
Note: Benchmark results are the sum of 2 independent LD (comparable with OS stripe set)
[2] **Cache Mirroring disabled**, 4 LUNs of 6 SAS drives RAID 5 (5 + 1) (-1%), 256kB chunk size, 4 x 8Gb/s FC ports point-to-point mapped to one LUN each.
IOmeter configuration: 4 worker, 4 disks, QD32
Note: Benchmark results are the sum of 4 independent LD (comparable with OS stripe set)
[3] Cache Mirroring disabled, 4 LUNs of 12 SAS drives RAID 5 (11 + 1) (-1%), 256kB chunk size, 4 x 8Gb/s FC ports point-to-point mapped to one LUN each.
IOmeter configuration: 4 worker, 4 disks, QD32
Note: Benchmark results are the sum of 4 independent LD (comparable with OS stripe set)

Bandwith Performance

12 SAS Drives[1]

Read	1255MB/s
Write	1240MB/s

MB/s 0 260 520 780 1040 1300 1560 1820 2080 2340 2600

24 SAS Drives[2]

Read	2100MB/s
Write	1680MB/s

MB/s 0 260 520 780 1040 1300 1560 1820 2080 2340 2600

48 SAS Drives[3]

Read	2452MB/s
Write	1874MB/s

MB/s 0 260 520 780 1040 1300 1560 1820 2080 2340 2600

96 SAS Drives[4]

Read	2591MB/s
Write	1886MB/s

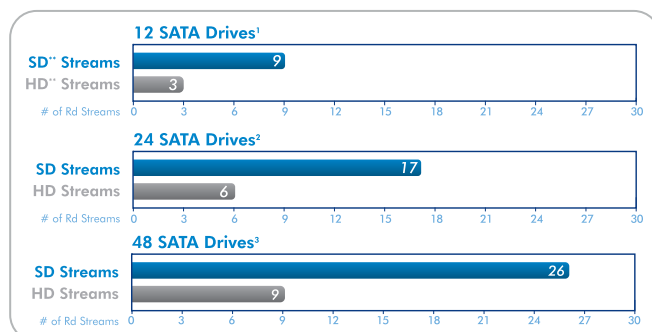MB/s 0 260 520 780 1040 1300 1560 1820 2080 2340 2600

[4] Cache Mirroring disabled, 4 LUNs of 24 SAS drives RAID 5 (23 + 1) (-1%), 256kB chunk size, 4 x 8Gb/s FC ports point-to-point mapped to one LUN each.
IOmeter configuration: 4 worker, 4 disks, QD32
Note: Benchmark results are the sum of 4 independent LD (comparable with OS stripe set)
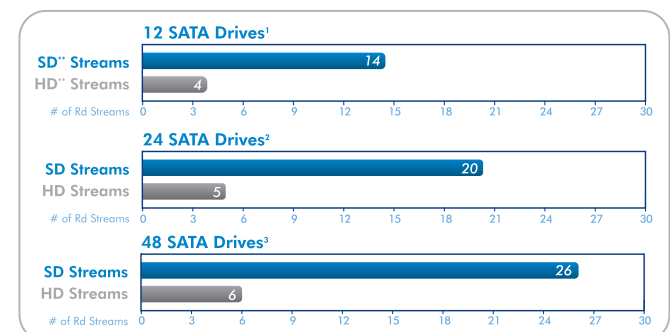
Video Applications

Final Cut Pro®

Direct-Attached

12 SATA Drives[1]

SD** Streams	9
HD** Streams	3

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

24 SATA Drives[2]

SD Streams	17
HD Streams	6

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

48 SATA Drives[3]

SD Streams	26
HD Streams	9

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

[1] 1 LUN of 12 SATA drives RAID 5, 64kB chunk size, 2x 8Gb/s FC ports point-to-point mapped to the LUN.
[2] 2 LUNs of 12 SATA drives RAID 5, 64kB chunk size, 2x 8Gb/s FC ports point-to-point mapped to one LUN each.
[3] 4 LUNs of 12 SATA drives RAID 5, 64kB chunk size, 2x 8Gb/s FC ports point-to-point mapped to one LUN each.
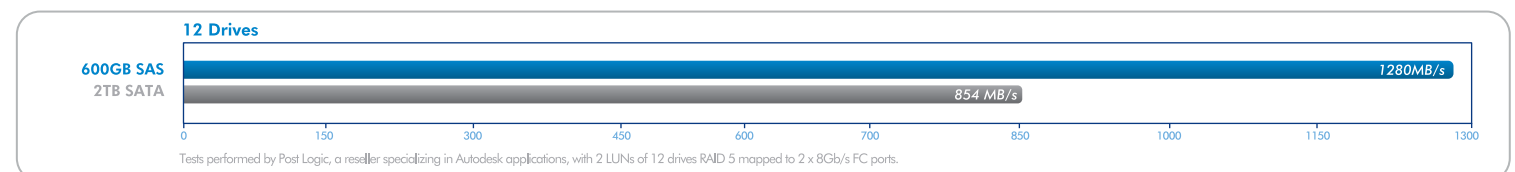
XSAN

12 SATA Drives[1]

SD** Streams	14
HD** Streams	4

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

24 SATA Drives[2]

SD Streams	20
HD Streams	5

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

48 SATA Drives[3]

SD Streams	26
HD Streams	6

# of Rd Streams 0 3 6 9 12 15 18 21 24 27 30

[1] 1 LUN of 10 SATA drives RAID 5 for data and 1 LUN of 2 SATA drives RAID 1 for metadata, 64kB chunk size, 3x 8Gb/s FC ports point-to-point mapped to one LUN each.
[2] 2 LUNs of 10 SATA drives RAID 5 for data and 1 LUN of 4 SATA drives RAID 10 for metadata, 64kB chunk size, 3 x 8Gb/s FC ports point-to-point mapped to one LUN each.
[3] 3 LUNs of 13 SATA drives RAID 5 for data and 1 LUN of 9 SATA drives RAID 10 for metadata, 64kB chunk size, 4 x 8Gb/s FC ports point-to-point mapped to one LUN each
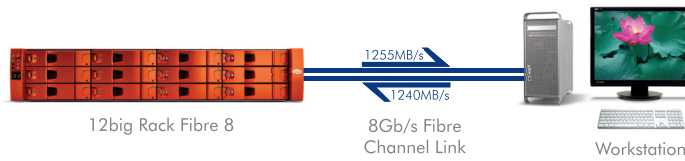
Autodesk's Smoke

The 12big Rack Fibre 8 delivers outstanding results with Autodesk® Smoke (offline, online, and graphics on Linux or Mac).

12 Drives

600GB SAS	1280MB/s
2TB SATA	854 MB/s

0 150 300 450 600 700 850 1000 1150 1300

Tests performed by Post Logic, a reseller specializing in Autodesk applications, with 2 LUNs of 12 drives RAID 5 mapped to 2 x 8Gb/s FC ports.
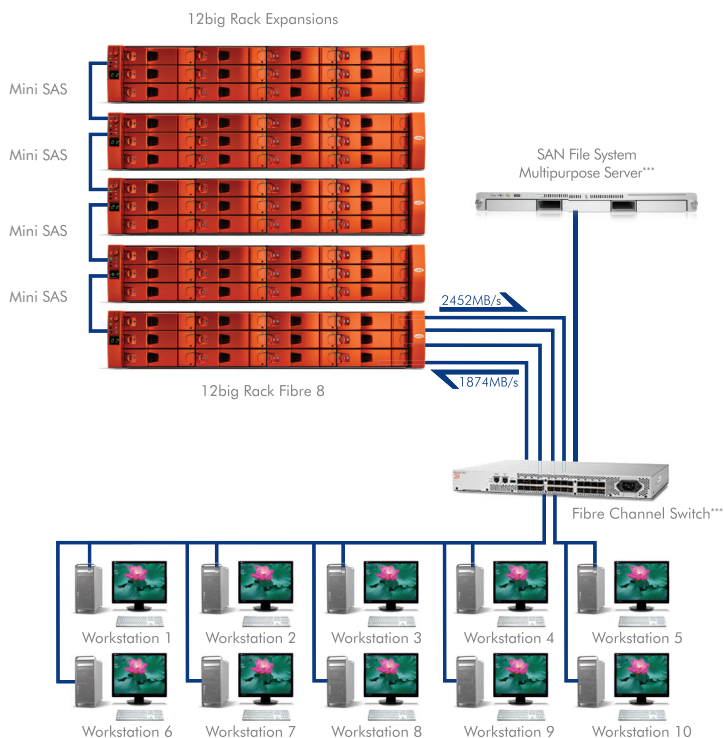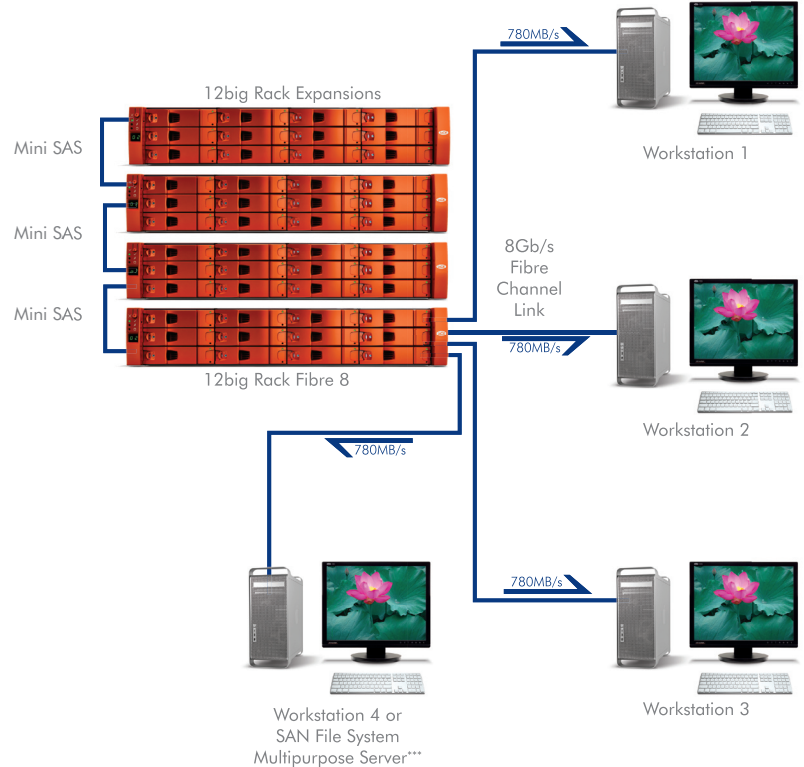
A Creative Suite Storage Solution

- One workstation attached to one 12big Rack Fibre 8 enclosure
- 4 x 8Gb/s fibre host bus adaptor connection for enhanced transfer speeds
- Scalable storage up to five enclosures
- Media accessed by one user

1255MB/s
1240MB/s

12big Rack Fibre 8

8Gb/s Fibre Channel Link

Workstation

Centralized Media / SMB Post-Production SAN

- Four workstations attached to three 12big Rack Fibre 8 enclosures
- 1 x 8Gb/s fibre host bus adaptor connection per user
- Scalable storage up to five enclosures
- Independent project media accessed by four users simultaneously
- You may also replace one workstation with a multipurpose server and retrieve your shared media via a SAN file system

12big Rack Expansions

Mini SAS

Mini SAS

Mini SAS

12big Rack Fibre 8

780MB/s

Workstation 1

8Gb/s Fibre Channel Link

780MB/s

Workstation 2

780MB/s

Workstation 3

780MB/s

Workstation 4 or SAN File System Multipurpose Server***

12big Rack Expansions

Mini SAS

Mini SAS

Mini SAS

Mini SAS

SAN File System Multipurpose Server***

2452MB/s

1874MB/s

12big Rack Fibre 8

Enterprise Post-Production SAN

- Multiple workstations and one server attached to five 12big Rack Fibre 8 enclosures via multi-port Fibre Channel switch
- Up to 4 x 8Gb/s fibre host bus adaptor connections per user depending on switch port availability
- Five full capacity enclosures
- Shared media via SAN file system

Fibre Channel Switch***

Workstation 1

Workstation 2

Workstation 3

Workstation 4

Workstation 5

Workstation 6

Workstation 7

Workstation 8

Workstation 9

Workstation 10

LaCie 12big Rack Fibre 8 Accessories:

Accessory Name	Item #	Description
FC/RAID controller	131094	LaCie 12big Rack Fibre 8 FC/RAID controller (for replacement)
SATA spare drive	131003	LaCie spare 1TB 12big Rack enterprise drive with drawer
SATA spare drive	131004	LaCie spare 2TB 12big Rack enterprise drive with drawer
SAS spare drive	131064	LaCie spare 600GB SAS 12big Rack drive with drawer
Power and cooling module	131095	LaCie 12big Rack Fibre 8 rescue power and cooling module
Spare battery	131096	LaCie 12big Rack Fibre 8 spare battery
FC cables	131014	LaCie 10m FC cables (LC connectors)
Snapshots	131018	StorView Snapshot licenses on 12big Rack Fibre 8

LaCie 12big Rack Fibre 8

Capacity▼	7.2TB SAS enterprise class drives	12TB SATA enterprise class drives	24TB SATA enterprise class drives
Item Number	131093	131091	131092
External Interface	4 x 8Gb/s Fibre Channel per controller point-to-point, loop and fabric (switched) topologies		
Supported Hosts	256, 512 LUNs, LUN Masking, >2TB LUNs		
Expansion	up to 4 LaCie 12big Rack Expansions for SATA drives and 7 for SAS drives can via Mini SAS (SFF-8088) connections		
Total Number of Disks	up to 60 SATA drives or 96 SAS drives		
Total Expansion Capacity	120TB SATA drives 57.6TB SAS drives		
Disk Drives	Interface types: SAS (3Gb/s), SATA-II (3Gb/s) dedicated bandwidth to each drive Max drives per enclosure: 12, 512 logical drives/system, automatic bad sector assignment		
System Management	Software: StorView, StorView Path Manager, Snapshot Interfaces supported: Ethernet (out-of-band)		
Dimensions	Height: 87.9 mm (3.46") 2 EIA units Width: 443 mm (17.44") IEC rack-compliant	Depth: 576.8 mm (22.71") Weight: 27 kg (59 lbs.) dual controllers with drives	
Electrical	Voltage: 100-240 V AC @ 50/60 Hz single phase Input Current: 6.0A (115 VAC), 3.0A (230 VAC)	Input Power: 300W typical	
Environmental: Operating	Temperature: 5° to 40°C (41° to 104° F) Humidity: 8% to 80% non-condensing Altitude: 0 to 3045 m (0 to 10,000')	Shock: 5g 10ms 1/2 sine Vibration: random 0.21 grms 5-500Hz Acoustics: <58 dB LpA @20° C	
Environmental: Non-Operating	Temperature: 1° to 50°C (33.8° to 122° F) Humidity: 8% to 80% non-condensing Altitude: 0 to 12,192m (0 to 40,000')	Shock: 30g 10ms 1/2 sine (test without drives) Vibration: random 1.04 grms 2-200Hz (test without drives)	
Warranty	5-year warranty, product swap and dedicated local support team		

compatible with **LINUX** compatible with **WINDOWS®** compatible with **MAC OS®**

LACIE