WD VelociRaptor SATA Hard Drives

Killer Speed Rock-solid Reliability 5-year Limited Warranty



Interface

SATA 3 Gb/s

Width/Height

3.5-inch/1-inch

Rotational Speed

10,000 RPM

Capacities

150 and 300 GB

Model Numbers

WD3000HLFS WD1500HLFS

Note: Not all products may be available in all regions of the world.

Engineered for maximum speed! WD VelociRaptor, the newest member of our unique class of 10,000 RPM SATA hard drives, combines a SATA 3 Gb/s interface and 16 MB cache to deliver performance that's up to 35% faster than its speedy older brother, the WD Raptor*.

Product Benefits

Killer speed – Built on the performance bloodlines of WD Raptor, these 10,000 RPM drives, with SATA 3 Gb/s interface and 16 MB cache, deliver mind-bending performance. Not only are they 35% faster than the previous generation of WD Raptor drives, but they also beat out all other competitors in the field.

Rock-solid reliability – Designed and manufactured to mission-critical enterprise-class standards to provide enterprise reliability in high duty cycle environments. With 1.4 million hours MTBF, these drives have the highest available reliability rating on a high-capacity SATA drive.

Double the capacity – State-of-the-art technology packs twice the capacity per disk compared to its older brother WD Raptor, resulting in up to 300 GB of high-performance storage space in this enterprise-class 2.5-inch drive.

Ultra-cool operation – WD VelociRaptor consumes 35% less power than the previous generation of WD Raptor.

IcePack™ mounting frame - The 2.5-inch WD VelociRaptor is enclosed in a backplane-ready 3.5-inch enterprise-class mounting frame with a built-in heat sink that keeps this powerful little drive extra cool when installed in high-performance desktop chassis.

Rotary Acceleration Feed Forward (RAFF™) – Optimizes operation and performance when the drives are used in vibration-prone, multi-drive chassis.

NoTouch™ ramp load technology – The recording head never touches the disk media ensuring significantly less wear to the recording head and media as well as better drive protection in transit.

The WD Promise



WD understands the importance of the information you save to your hard drive and we are committed to protecting that data with exceptionally reliable products, advanced data protection technology, and superior customer support. No one does more to safeguard your data than WD.



WD VelociRaptor **SATA Hard Drives**

Physical Specifications

150 GB 300 GB 150,039 MB 300 069 MB Formatted capacity User sectors per drive 293,046,768 586,072,368 WD model number WD1500HLFS WD3000HLFS SATA latching connector Yes Yes 512 Bytes per sector (STD) 512 Form factor3 3.5-inch 3.5-inch Interface SATA 3 Gb/s SATA 3 Gb/s RoHS compliant3 Yes

Performance Specifications

Average latency 3 ms 16 MB Buffer Cache Adaptive Read Write Yes

Data transfer rate (maximum) Buffer to host 3 Gb/s

126 MB/s sustained Host to/from drive

Drive ready time

7.0 sec (average), 10 sec (maximum) <1 in 10¹⁵ bits read

Error rate (non-recoverable) 10,000 RPM

Rotational speed Seek time

Read 4.2 ms (average) Write 4.7 ms (average) Track-to-track seek time 0.7 (maximum) Load/unload cycles 50,000 minimum

Limited warranty4 5-year

















For service and literature:

support.wdc.com www.westerndigital.com

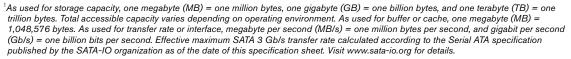
800.ASK.4WDC North America 949.672.7199 Spanish +800.6008.6008 Asia Pacific +31.20.4467651 EMEA

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Western Digital 20511 Lake Forest Drive Lake Forest, California 92630 U.S.A.

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²A 2.5-inch drive in a 3.5-inch IcePack heat sink mounting frame.

⁴Standard five-year limited warranty, unless otherwise required by law. For extended warranty information, visit our Web site at support.wdc.com.



³WD products manufactured and sold worldwide after August 1, 2005, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the European Union for electrical and electronic products. The RoHS Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006, aims to protect human health and the environment by restricting the use of certain hazardous substances in new equipment, and consists of restrictions on lead, mercury, cadmium, and other substances