

WD Raptor® X SATA Hard Drives

Crystal-clear Lens
Killer Speed
Unsurpassed Reliability



Interface

SATA 1.5 Gb/s

Width/Height

3.5-inch/1-inch

Rotational Speed

10,000 RPM

Capacities

150 GB

Model Numbers

WD1500AHFD

From the secret performance labs at WD comes the revolutionary WD Raptor X SATA hard drive, the first ever drive with a view. Offspring of the immensely popular WD Raptor, the fastest SATA drive on the planet, the WD Raptor X focuses a large, crystal-clear lens on the drive to let you see into the inner workings and witness the drive in action.

Sounds simple? It's not. With over two years of research and development behind it, the WD Raptor X is engineered to compromise nothing. At 10,000 RPM spin speed, it delivers the killer speed of its illustrious parent, doubles the capacity to 150 GB, and provides enterprise-class reliability. This is the ultimate hard drive for PC performance enthusiasts everywhere.

Product Benefits

The world's first clear cover hard drive

The world's fastest SATA drive – 10,000 RPM, 4.6 ms average seek time. Bred from WD Raptor—the gold standard for performance.

Crystalline polycarbonate lens – provides clarity, structural integrity, electrostatic discharge (ESD) protection, durability, and chemical neutrality necessary for the highest performance and reliability.

Native Command Queuing (NCQ) – increases data transfer in high-performance multi-processor, multi-threaded environments.

Rotary Acceleration Feed Forward (RAFF™) – optimizes operation and performance when drives are used in vibration-prone, multi-drive systems. Patent pending.

5-year limited warranty – nothing has been compromised in quality and reliability to manufacture these unique hard drives. WD is proud to back them with our enterprise-class 5-year limited warranty.

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.

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

WD Raptor X

SATA Hard Drives

Physical Specifications

	150 GB
Formatted capacity ¹	150,039 MB
User sectors per drive	293,046,768
WD model number	WD1500AHFD

SATA latching connector	Yes
Bytes per sector (STD)	512
Form factor	3.5-inch
Interface	SATA 1.5 Gb/s
RoHS compliant ²	Yes

Performance Specifications

Average latency	2.99 ms
Buffer	16 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate (buffer to host)	1.5 Gb/s (maximum) ³
Drive ready time	7.0 sec (average), 10 sec (maximum)
Error rate (non-recoverable)	<1 in 10 ¹⁵ bits read
LBA support	Yes
Rotational speed	10,000 RPM
Seek time	
Read	4.6 ms (average)
Write	5.2 ms (average)
Track-to-track seek time	
Read	0.3 ms (average), 0.6 (maximum)
Write	0.4 ms (average), 0.75 (maximum)
Start/stop cycles	20,000 minimum
Limited warranty ⁴	5-year



For service and literature:

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¹One gigabyte (GB) = one billion bytes. One terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

²WD 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.

³Maximum burst rate running the specified SATA transfer mode.

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