WD Scorpio® Black™

Mobile Hard Drives

Designed with top-of-the-line notebook computers in mind, this high performance drive delivers the capacity and speed needed to supercharge a notebook PC without compromising battery life or quiet acoustics. Features like these also make this drive an outstanding option for compact desktops, external hard drives, and gaming systems.

INTERFACE
SATA 3 Gb/s

WIDTH/HEIGHT
2.75 in./0.37 in.
69.85 mm/9.5 mm

ROTATIONAL SPEED
7200 RPM

CAPACITIES
160 GB to 750 GB

MODEL NUMBERS

WD7500BPKT	WD2500BEKT
WD5000BEKT	WD1600BEKT
WD3200BEKT	

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

Product Features

Desktop-class performance for notebook computers

With 7200 RPM spin speed,16 MB cache, and capacities up to 750 GB, these drives enable you to have the best of both worlds: the capacity and performance of a desktop PC with the convenience and portability of a notebook.

Reliable and rugged

WD's ShockGuard™ technology protects the drive mechanics and platter surfaces from shocks during shipping and handling and in daily operation. WD's SecurePark parks the recording heads off the disk surface during spin up, spin down, and when the drive is off. This ensures the recording head never touches the disk surface, resulting in improved long-term reliability due to less head wear and improved non-operational shock tolerance.

Massive capacity

WD's 750 GB 2.5-inch drives offer huge capacity for space-hungry operating systems with plenty of room left over for photos, music, and video.

Low power consumption

With technologies like IntelliSeek™, which calculates optimum seek speeds to lower power consumption and SecurePark™, which reduces power by parking the heads during low power idle mode, this drive delivers 5400 RPM-equivalent power consumption in a 7200 RPM drive.

Tested for compatibility

We perform tests on hundreds of systems and a multitude of platforms in our FIT Lab™ and Mobile Compatibility Lab to give WD customers confidence that our drives will work in their systems.

Advanced Format (AF)

Technology being adopted by WD and other drive manufacturers as one of multiple ways to continue growing hard drive capacities. AF is a more efficient media format that enables increased areal densities. (BPKT models only)

Quiet

In a notebook drive, silence is golden. WD's exclusive WhisperDrive™ combines state-of-the-art seeking algorithms to yield one of the quietest 2.5-inch hard drives on the market.

PUT YOUR LIFE ON IT®

WD Scorpio Black

Specifications[1]	750 GB	500 GB	320 GB	250 GB	160 GB
Model number	WD7500BPKT	WD5000BEKT	WD3200BEKT	WD2500BEKT	WD1600BEKT
Interface	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s
Formatted capacity	750,156 MB	500,107 MB	320,072 MB	250,059 MB	160,041 MB
User sectors per drive	1,465,149,168	976,773,168	625,142,448	488,397,168	312,581,808
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	No	No	No	No
RoHS compliant[2]	Yes	Yes	Yes	Yes	Yes
Performance					

Data transfer rate (max)
  Buffer to host
  Host to/from drive (sustained)
	3 Gb/s
	180 MB/s
		3 Gb/s
		154 MB/s
			3 Gb/s
			147 MB/s
				3 Gb/s
				115 MB/s
					3 Gb/s
					115 MB/s

Cache (MB)	16	16	16	16	16
Average latency (ms)	4.2	4.2	4.2	4.2	4.2
Rotational speed (RPM)	7200	7200	7200	7200	7200
Average drive ready time (sec)	4	4	4	4	4
Reliability/Data Integrity					
Load/unload cycles[3]	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
Limited warranty (years)[4]	5	5	5	5	5
Power Management					
5VDC ±10% (A, peak)	1.15	1.15	1.75	1.75	1.75

Average power requirements (W)
  Read/Write
  Idle
  Standby
  Sleep
	1.75
	0.8
	0.2
	0.2
		1.75
		0.8
		0.2
		0.2
			1.75
			0.8
			0.2
			0.2
				1.75
				0.8
				0.2
				0.2
					1.75
					0.8
					0.2
					0.2

Environmental Specifications[5]					

Temperature (°C)
  Operating
  Non-operating
	0 to 60
	-40 to 70
		0 to 60
		-40 to 70
			0 to 60
			-40 to 70
				0 to 60
				-40 to 70
					0 to 60
					-40 to 70

Shock (Gs)
  Operating (2 ms)
  Non-operating (2 ms)
	350
	1000
		350
		1000
			350
			1000
				350
				1000
					350
					1000

Acoustics (dBA)[6]
  Idle
  Seek (average)
	28
	28
		28
		28
			22
			25
				22
				25
					22
					25

Physical Dimensions					
Height (in./mm, max)	0.374/9.50	0.374/9.50	0.374/9.50	0.374/9.50	0.374/9.50
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb./kg, ± 10%)	0.25/0.115	0.24/0.111	0.23/0.106	0.23/0.106	0.23/0.106

[1] As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[2] WD hard drive products manufactured and sold worldwide after June 1, 2006, 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.

[3] Controlled unload at ambient condition.

[4] The term of the limited warranty may vary by region. Visit http://support.wdc.com/warranty for details.

[5] No non-recoverable errors during operating tests or after non-operating tests.

[6] Sound power level.

WD Scorpio Blue
Big capacity for portable computing.

WD Scorpio Black
Desktop-class performance for notebook computers.

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Western Digital
3355 Michelson Drive, Suite 100
Irvine, California 92612
U.S.A.

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