



# WD Scorpio® Blue™

## Mobile Hard Drives

WD Scorpio Blue 2.5-inch SATA and PATA hard drives offer solid-performance, ultra-quiet operation and low-power use for portable digital devices of all kinds. Pick the drive that suits your needs with the confidence in knowing that all WD Scorpio Blue drives are built to the highest standards of quality and reliability.



### INTERFACE

SATA and PATA

### WIDTH/HEIGHT

2.75 in./0.27 in. to 0.49 in.  
69.85 mm/6.8 mm to 12.5 mm

### ROTATIONAL SPEED

5200 RPM to 5400 RPM

### CAPACITIES

80 GB to 1 TB

### MODEL NUMBERS

#### SATA

WD10JPVT      WD5000BPVT  
WD10TPVT      WD3200LPVT  
WD7500BPVT    WD3200BPVT  
WD6400BPVT    WD2500LPVT  
WD5000LPVT    WD2500BPVT

WD1600BPVT

#### PATA

WD3200BEVE  
WD2500BEVE  
WD1600BEVE  
WD1200BEVE  
WD800BEVE

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

## Product Features

### Massive capacity

Storage capacity for 2.5-inch form factor drives with standard 9.5 mm height has arrived at a realm once thought to be impossible - up to 1 TB\* - giving you all the capacity you need to keep your photos, music and files right there on your notebook.

\* The WD10TPVT model is 12.5 mm high and may not be compatible with all notebook systems. Consult system specifications for maximum allowable drive height before attempting to install.

### Low power consumption

State-of-the-art seeking algorithms optimize the way the drive seeks for data, which significantly improves power consumption.

### Ultra cool and quiet

In a notebook drive, silence is golden. WD's exclusive WhisperDrive™ technology delivers one of the quietest 2.5-inch hard drives on the market.

### Designed for various applications

WD Scorpio Blue has a portfolio of drives to satisfy all your portable computing needs. These drives are available in multiple z-heights including the 9.5 mm industry standard, 7 mm for use in thin notebooks and compatible with mainstream systems, and 12.5 mm primarily for external enclosures.

### Reliable

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.

### Rugged

WD's ShockGuard™ technology protects the drive mechanics and platter surfaces from shocks.

### 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 our customers confidence that our drives will work in their systems.

### Advanced Format (AF)

Technology adopted by WD and other drive manufacturers to increase media format efficiencies, thus enabling larger drive capacities. (PVT models only)

PUT YOUR LIFE ON IT®



# WD Scorpio Blue

Specifications	1 TB	1 TB	750 GB	640 GB	500 GB	500 GB
Model number	WD10JPVT	WD10TPVT	WD7500BPVT	WD6400BPVT	WD5000LPVT	WD5000BPVT
Interface	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s
Formatted capacity <sup>1</sup>	1,000,204 MB	1,000,204 MB	750,156 MB	640,135 MB	500,107 MB	500,107 MB
User sectors per drive	1,953,525,168	1,953,525,168	1,465,149,168	1,250,263,728	976,773,168	976,773,168
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>						
Data transfer rate (max)						
Buffer to host	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s
Host to/from drive (sustained)	144 MB/s	124 MB/s	138 MB/s	151 MB/s	147 MB/s	136 MB/s
Cache (MB)	8	8	8	8	8	8
Average latency (ms)	5.5	5.7	5.5	5.5	5.5	5.5
Rotational speed (RPM)	5400	5200	5400	5400	5400	5400
Average drive ready time (sec)	<3.5	8	4	4	<3.5	4
<b>Reliability/Data Integrity</b>						
Load/unload cycles <sup>3</sup>	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	2	2	2	2	2	2
<b>Power Management</b>						
5VDC ±10% (A, peak)	0.900	0.985	0.975	0.950	0.900	0.950
Average power requirements (W)						
Read/Write	1.4	1.7	1.6	1.6	1.4	1.6
Idle	0.59	0.75	0.65	0.65	0.55	0.65
Standby/Sleep	0.18	0.20	0.20	0.20	0.13	0.20
<b>Environmental Specifications<sup>6</sup></b>						
Temperature (°C)						
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Shock (Gs)						
Operating (2 ms, read)	400	350	350	350	400	350
Non-operating	1000 (2 ms)	1000 (2 ms)	1000 (2 ms)	1000 (2 ms)	1000 (2 ms)	1000 (2 ms)
Acoustics (dBA) <sup>7</sup>						
Idle	22	24	22	22	17	22
Seek (average)	25	25	25	25	22	25
<b>Physical Dimensions</b>						
Height (in./mm, max) <sup>8</sup>	0.374/9.50	<b>0.49/12.50</b>	0.374/9.50	0.374/9.50	0.27/6.8	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	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	2.75/69.85
Weight (lb./kg, ± 10%)	0.27/0.11	0.34/0.15	0.34/0.15	0.22/0.10	0.20/0.09	0.22/0.10

<sup>1</sup> 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](http://www.sata-io.org) for details.

<sup>2</sup> 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 RoHS Directive 2011/65/EU.

<sup>3</sup> Maximum burst rate running the Mode 5 Ultra ATA transfer mode.

<sup>4</sup> Controlled unload at ambient condition.

<sup>5</sup> The term of the limited warranty may vary by region. Visit [support.wdc.com/warranty](http://support.wdc.com/warranty) for details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.

<sup>8</sup> The WD10TPVT model is 12.5 mm high and may not be compatible with all notebook systems. Consult system specifications for maximum allowable drive height before attempting to install.



# WD Scorpio Blue

Specifications	320 GB	320 GB	320 GB	250 GB	250 GB	250 GB
Model number	WD3200LPVT	WD3200BPVT	WD3200BEVE	WD2500LPVT	WD2500BPVT	WD2500BEVE
Interface	SATA 3 Gb/s	SATA 3 Gb/s	PATA 100 MB/s	SATA 3 Gb/s	SATA 3 Gb/s	PATA 100 MB/s
Formatted capacity <sup>1</sup>	320,072 MB	320,072 MB	320,072 MB	250,059 MB	250,059 MB	250,059 MB
User sectors per drive	625,142,448	625,142,448	625,142,448	488,397,168	488,397,168	488,397,168
Advanced Format (AF)	Yes	Yes	No	Yes	Yes	No
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>						
Data transfer rate (max)						
Buffer to host	3 Gb/s	3 Gb/s	100 MB/s <sup>3</sup>	3 Gb/s	3 Gb/s	100 MB/s <sup>3</sup>
Host to/from drive (sustained)	109 MB/s	116 MB/s	99 MB/s	109 MB/s	116 MB/s	99 MB/s
Cache (MB)	8	8	8	8	8	8
Average latency (ms)	5.5	5.5	5.5	5.5	5.5	5.5
Rotational speed (RPM)	5400	5400	5400	5400	5400	5400
Average drive ready time (sec)	<3.5	4	4	<3.5	4	4
<b>Reliability/Data Integrity</b>						
Load/unload cycles <sup>4</sup>	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	2	2	2	2	2	2
<b>Power Management</b>						
5VDC ±10% (A, peak)	0.900	1.00	1.00	0.900	1.00	1.00
Average power requirements (W)						
Read/Write	1.4	2.5	2.5	1.4	2.5	2.5
Idle	0.55	0.85	0.85	0.55	0.85	0.85
Standby/Sleep	0.13	0.20	0.20	0.13	0.20	0.20
<b>Environmental Specifications<sup>6</sup></b>						
Temperature (°C)						
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Shock (Gs)						
Operating (2 ms, read)	400	350	350	400	350	350
Non-operating	1000 (2 ms)	1000 (2 ms)	900 (1 ms)	1000 (2 ms)	1000 (2 ms)	900 (1 ms)
Acoustics (dBA) <sup>7</sup>						
Idle	17	22	24	17	22	24
Seek (average)	22	25	25	22	25	25
<b>Physical Dimensions</b>						
Height (in./mm, max)	0.27/6.8	0.374/9.50	0.374/9.50	0.27/6.8	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	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	2.75/69.85
Weight (lb./kg, ± 10%)	0.20/0.09	0.22/0.10	0.22/0.10	0.20/0.09	0.22/0.10	0.22/0.10

<sup>1</sup> 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](http://www.sata-io.org) for details.

<sup>2</sup> 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 RoHS Directive 2011/65/EU.

<sup>3</sup> Maximum burst rate running the Mode 5 Ultra ATA transfer mode.

<sup>4</sup> Controlled unload at ambient condition.

<sup>5</sup> The term of the limited warranty may vary by region. Visit [support.wdc.com/warranty](http://support.wdc.com/warranty) for details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.



# WD Scorpio Blue

Specifications	160 GB	160 GB	120 GB	80 GB
Model number	WD1600BPVT	WD1600BEVE	WD1200BEVE	WD800BEVE
Interface	SATA 3 Gb/s	PATA 100 MB/s	PATA 100 MB/s	PATA 100 MB/s
Formatted capacity <sup>1</sup>	160,041 MB	160,041 MB	120,034 MB	80,026 MB
User sectors per drive	312,581,808	312,581,808	234,441,648	156,301,488
Advanced Format (AF)	Yes	No	No	No
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes
<b>Performance</b>				
Data transfer rate (max)				
Buffer to host	3 Gb/s	100 MB/s <sup>3</sup>	100 MB/s <sup>3</sup>	100 MB/s <sup>3</sup>
Host to/from drive (sustained)	116 MB/s	99 MB/s	97 MB/s	99 MB/s
Cache (MB)	8	8	8	8
Average latency (ms)	5.5	5.5	5.5	5.5
Rotational speed (RPM)	5400	5400	5400	5400
Average drive ready time (sec)	4	4	4	4
<b>Reliability/Data Integrity</b>				
Load/unload cycles <sup>4</sup>	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	2	2	2	2
<b>Power Management</b>				
5VDC ±10% (A, peak)	1.00	1.00	1.00	1.00
Average power requirements (W)				
Read/Write	1.6	2.5	2.5	2.5
Idle	0.85	0.85	0.85	0.85
Standby/Sleep	0.20	0.20	0.20	0.20
<b>Environmental Specifications<sup>6</sup></b>				
Temperature (°C)				
Operating	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Shock (Gs)				
Operating (2 ms, read)	350	350	350	350
Non-operating	1000 (2 ms)	900 (1 ms)	900 (1 ms)	900 (1 ms)
Acoustics (dBA) <sup>7</sup>				
Idle	24	24	24	24
Seek (average)	25	25	25	25
<b>Physical Dimensions</b>				
Height (in./mm, max)	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
Width (in./mm, ±.01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb./kg, ± 10%)	0.22/0.10	0.22/0.10	0.22/0.10	0.22/0.10

<sup>1</sup> 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](http://www.sata-io.org) for details.

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<sup>3</sup> Maximum burst rate running the Mode 5 Ultra ATA transfer mode.

<sup>4</sup> Controlled unload at ambient condition.

<sup>5</sup> The term of the limited warranty may vary by region. Visit [support.wdc.com](http://support.wdc.com) for details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.



**WD Scorpio Blue**  
Big capacity for portable computing.



**WD Scorpio Black**  
High performance for notebook computers.

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

**For service and literature:**

<http://support.wdc.com>  
[www.westerndigital.com](http://www.westerndigital.com)

800.ASK.4WDC (800.275.4932) North America  
800.832.4778 Spain  
+800.6008.6008 Asia Pacific  
00800.27549338 Europe  
(toll free where available)  
+31.880062100 Europe/Middle East/Africa



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