



# 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./0.37 in. to 0.49 in.  
69.85 mm/9.5 mm to 12.5 mm

### ROTATIONAL SPEED

5200 RPM to 5400 RPM

### CAPACITIES

80 GB to 1 TB

### MODEL NUMBERS

SATA w/ Advanced Format Technology

WD10JPVT      WD3200BPVT  
WD10TPVT      WD2500BPVT  
WD7500BPVT      WD1600BPVT  
WD6400BPVT  
WD5000BPVT

SATA

WD5000BEVT  
WD3200BEVT  
WD2500BEVT  
WD1600BEVT

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.

### 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. These algorithms also optimize the way a drive seeks for data, which significantly improves power consumption. So now silence (and longer battery life) is golden.

### 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 being 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                   | 320 GB                   | 320 GB                           |
|------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|----------------------------------|
| Model number                                                                 | WD10JPVT               | WD10TPVT               | WD7500BPVT             | WD6400BPVT             | WD5000BPVT<br>WD5000BEVT | WD3200BPVT<br>WD3200BEVT | WD3200BEVE                       |
| 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              | PATA 100 MB/s                    |
| Formatted capacity <sup>1</sup>                                              | 1,000,204 MB           | 1,000,204 MB           | 750,156 MB             | 640,135 MB             | 500,107 MB               | 320,072 MB               | 320,072 MB                       |
| User sectors per drive                                                       | 1,953,525,168          | 1,953,525,168          | 1,465,149,168          | 1,250,263,728          | 976,773,168              | 625,142,448              | 625,142,448                      |
| Master/slave support                                                         | Yes                    | 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                 | 2.5-inch                         |
| RoHS compliant <sup>2</sup>                                                  | Yes                    | Yes                    | Yes                    | Yes                    | Yes                      | Yes                      | Yes                              |
| <b>Performance</b>                                                           |                        |                        |                        |                        |                          |                          |                                  |
| Data transfer rate (max)<br>Buffer to host<br>Host to/from drive (sustained) | 3 Gb/s<br>150 MB/s     | 3 Gb/s<br>124 MB/s     | 3 Gb/s<br>138 MB/s     | 3 Gb/s<br>151 MB/s     | 3 Gb/s<br>136 MB/s       | 3 Gb/s<br>116 MB/s       | 100 MB/s <sup>3</sup><br>99 MB/s |
| Cache (MB)                                                                   | 8                      | 8                      | 8                      | 8                      | 8                        | 8                        | 8                                |
| Average latency (ms)                                                         | 5.5                    | 5.7                    | 5.5                    | 5.5                    | 5.5                      | 5.5                      | 5.5                              |
| Rotational speed (RPM)                                                       | 5400                   | 5200                   | 5400                   | 5400                   | 5400                     | 5400                     | 5400                             |
| Average drive ready time (sec)                                               | 4                      | 8                      | 4                      | 4                      | 4                        | 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                  | 600,000                          |
| Non-recoverable read errors<br>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>   | <1 in 10 <sup>14</sup>           |
| Limited warranty (years) <sup>5</sup>                                        | 2                      | 2                      | 2                      | 2                      | 2                        | 2                        | 2                                |
| <b>Power Management</b>                                                      |                        |                        |                        |                        |                          |                          |                                  |
| 5VDC ±10% (A, peak)                                                          | 0.900                  | 0.985                  | 0.975                  | 0.950                  | 0.950                    | 1.00                     | 1.00                             |
| Average power requirements (W)<br>Read/Write<br>Idle<br>Standby/Sleep        | 1.4<br>0.59<br>0.18    | 1.7<br>0.75<br>0.20    | 1.6<br>0.65<br>0.20    | 1.6<br>0.65<br>0.20    | 1.6<br>0.65<br>0.20      | 2.5<br>0.85<br>0.20      | 2.5<br>0.85<br>0.20              |
| <b>Environmental Specifications<sup>6</sup></b>                              |                        |                        |                        |                        |                          |                          |                                  |
| Temperature (°C)<br>Operating<br>Non-operating                               | 0 to 60<br>-40 to 65   | 0 to 60<br>-40 to 65   | 0 to 60<br>-40 to 65   | 0 to 60<br>-40 to 65   | 0 to 60<br>-40 to 65     | 0 to 60<br>-40 to 65     | 0 to 60<br>-40 to 65             |
| Shock (Gs)<br>Operating (2 ms, read)<br>Non-operating                        | 400<br>1000 (2 ms)     | 350<br>1000 (2 ms)     | 350<br>1000 (2 ms)     | 350<br>1000 (2 ms)     | 350<br>1000 (2 ms)       | 350<br>1000 (2 ms)       | 350<br>900 (1 ms)                |
| Acoustics (dBA) <sup>7</sup><br>Idle<br>Seek (average)                       | 22<br>25               | 24<br>25               | 22<br>25               | 22<br>25               | 22<br>25                 | 22<br>25                 | 24<br>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             | 0.374/9.50               | 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              | 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               | 2.75/69.85                       |
| Weight (lb./kg, ± 10%)                                                       | 0.27/0.11              | 0.34/0.15              | 0.34/0.15              | 0.22/0.10              | 0.22/0.10                | 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.

<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                                  | 250 GB                   | 250 GB                 | 160 GB                   | 160 GB                 | 120 GB                 | 80 GB                  |
|-------------------------------------------------|--------------------------|------------------------|--------------------------|------------------------|------------------------|------------------------|
| Model number                                    | WD2500BPVT<br>WD2500BEVT | WD2500BEVE             | WD1600BPVT<br>WD1600BEVT | WD1600BEVE             | WD1200BEVE             | WD800BEVE              |
| Interface                                       | SATA 3 Gb/s              | PATA 100 MB/s          | SATA 3 Gb/s              | PATA 100 MB/s          | PATA 100 MB/s          | PATA 100 MB/s          |
| Formatted capacity <sup>1</sup>                 | 250,059 MB               | 250,059 MB             | 160,041 MB               | 160,041 MB             | 120,034 MB             | 80,026 MB              |
| User sectors per drive                          | 488,397,168              | 488,397,168            | 312,581,808              | 312,581,808            | 234,441,648            | 156,301,488            |
| Master/slave support                            | 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                   | 100 MB/s <sup>3</sup>  | 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                | 116 MB/s                 | 99 MB/s                | 97 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)                  | 4                        | 4                      | 4                        | 4                      | 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)                             | 1.00                     | 1.00                   | 1.00                     | 1.00                   | 1.00                   | 1.00                   |
| Average power requirements (W)                  |                          |                        |                          |                        |                        |                        |
| Read/Write                                      | 2.5                      | 2.5                    | 1.6                      | 2.5                    | 2.5                    | 2.5                    |
| Idle                                            | 0.85                     | 0.85                   | 0.85                     | 0.85                   | 0.85                   | 0.85                   |
| Standby/Sleep                                   | 0.20                     | 0.20                   | 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                | 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)                          | 350                      | 350                    | 350                      | 350                    | 350                    | 350                    |
| Non-operating                                   | 1000 (2 ms)              | 900 (1 ms)             | 1000 (2 ms)              | 900 (1 ms)             | 900 (1 ms)             | 900 (1 ms)             |
| Acoustics (dBA) <sup>7</sup>                    |                          |                        |                          |                        |                        |                        |
| Idle                                            | 22                       | 24                     | 24                       | 24                     | 24                     | 24                     |
| Seek (average)                                  | 25                       | 25                     | 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             | 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%)                          | 0.22/0.10                | 0.22/0.10              | 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.

<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™**  
Big capacity for portable computing.



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

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**For service and literature:**

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

800.ASK.4WDC (800.275.4932) North America  
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# WD Scorpio Blue

## A Commitment to Quality

Western Digital customers – ranging from the world's largest computer makers to the individual user saving a music collection – require exacting quality and performance from our data storage products. Rigorous testing helps ensure that these standards are met.

WD team members are dedicated to testing drives, ensuring they adhere to rigorous quality standards covering hundreds of performance characteristics. About 1,000 PCs in WD's Functional Integrity Testing (F.I.T.) Lab™ put WD drives through the paces around the clock. Other groups up the ante, simulating extreme real-world conditions including high and low temperatures, shaking, electronic and magnetic interference and even torturous drop testing. Only after a new drive family passes these rigorous tests does it get shipped.

This comprehensive approach to testing ensures that the customer gets a drive of the highest quality that is F.I.T. Lab certified for its intended application.

## A Name You Can Trust

As digital storage expands beyond traditional computer and server environments and into almost every aspect of your life, you need a company you can trust.

We are committed to providing our customers with reliable, high-performance storage products and superior customer support and services.

**Experience** – WD is one of the data storage industry's pioneers and longtime leaders.

**Performance** – WD is consistently a leader in technology and product innovation and is one of the best performing companies worldwide.

**Quality** – WD performs rigorous in-house testing to assure quality and reliability.

**Data Integrity** – All WD drives feature Data Lifeguard™ embedded error detection and repair features that automatically detect, isolate, and repair problem areas that may develop over extended use of the hard drive.

**Customer Support** – WD stands behind our products with telephone support and state-of-the-art online services that include a comprehensive knowledge base and express RMA service.

WD understands the importance of the data trusted to our drives. We focus our passion, knowledge and innovation on products that reliably keep your information and content safe and secure from loss.