



# WD Blue™

## PC Hard Drives

WD Blue hard drives deliver solid performance and reliability while providing you with all of the space you need to hold enormous amounts of photos, videos, and files. WD Blue hard drives are designed for use as primary drives in notebooks and external enclosures.



INTERFACE	FORM FACTOR	HEIGHT	INTERFACE CONNECTOR	ROTATIONAL SPEED	CAPACITIES
SATA 6 Gb/s	2.5-inch	7 mm to 15 mm	SATA Connector	5400 RPM Class	320GB to 2TB

### MODEL NUMBERS

WD20SPZX	WD10JPVX	WD5000LPCX
WD20NPVZ	WD7500BPVX	WD3200LPCX
WD15NPVZ	WD5000BPVX	
WD10SPZX	WD5000LPVX	

## Product Features

### SATA 6 Gb/s interface

The SATA 6 Gb/s interface provides greater flexibility for use with the latest chipsets as well as backwards compatibility to legacy systems with SATA 3 Gb/s requirements.

### 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 Original

WD Blue drives are designed and manufactured with the proven technology found in WD's original award-winning hard drives.

### WD Quality

Built to the high standards of quality and reliability of the WD brand, these drives offer the features and capacity ideal for your everyday computing needs.

### Low Power Consumption

State-of-the-art seeking algorithms and advanced power management features help ensure low power consumption.

### Upgrading Your Drive is Easy

Acronis® True Image™ WD Edition Software, available as a free download on the WD Support site, enables you to copy all your data to a new drive so you don't have to reinstall your operating system to get all the benefits of a new drive.

### Compatible

Our latest generation of 7 mm 2.5-inch mobile drives is designed for thin and light mobile applications, and is also compatible with most standard 9.5 mm bays (SPZX, LPCX, and LPVX models only).

### Quiet

In a notebook drive, silence is golden. WD's exclusive noise reducing technologies yield some of the quietest 2.5-inch hard drives on the market.

## Applications

WD Blue hard drives are tested and recommended for use in notebooks and external enclosures.\*

\* WD hard drives are designed and tested for use in specific applications and environments. This helps ensure that your hard drive is compatible with and functions properly in your application. Our hard drives are warranted against defects in materials and workmanship in the system for which they were designed. Use in systems other than for what the hard drive was designed could result in compatibility problems that affect proper function, unrelated to material and/or workmanship defects. For best results, be sure to select the appropriate product for your application by consulting our product spec sheets on our website at [www.wd.com](http://www.wd.com) or by calling our customer support line where we would be happy to help you through the selection process.

## The WD Advantage

WD puts our products through extensive Functional Integrity Testing (F.I.T.) prior to any product launch. This testing ensures that our products consistently meet the high quality and reliability standards of the WD brand. WD also provides a detailed Knowledge Base with more than 1,000 helpful articles, helpful software, and utilities. Our customer support lines are open for more hours to help ensure you get the help you need when you need it. Our toll-free customer support lines are here to help, or you can access our WD Support site for additional details.



Specifications	2TB	2TB	1.5TB	1TB	1TB
Model number <sup>1</sup>	WD20SPZX	WD20NPVZ	WD15NPVZ	WD10SPZX	WD10JPVX
Interface <sup>2</sup>	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity <sup>2</sup>	2,000,802MB	2,000,802MB	1,500,301MB	1,000,204MB	1,000,204MB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant <sup>3</sup>	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>					
Data transfer rates					
Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Cache (MB)	128	8	8	128	8
Rotational speed (RPM)	5400	5200	5200	5400	5400
Average drive ready time (sec)	3.5	6.5	6.5	2.8	3.0
<b>Reliability/Data Integrity</b>					
Load/unload cycles <sup>4</sup>	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>
Limited warranty (years) <sup>5</sup>	2	2	2	2	2
<b>Power Management</b>					
5VDC ±10% (A, peak)	1.00	1.00	1.00	1.00	1.00
Average power requirements (W)					
Read/Write	1.7	1.7	1.7	1.5	1.4
Idle	0.5	0.8	0.8	0.5	0.59
Standby/Sleep	0.1	0.2	0.2	0.1	0.18
<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
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Acoustics (dBA) <sup>7</sup>					
Idle	23	24	24	19	24
Seek (average)	24	25	25	21	25
<b>Physical Dimensions</b>					
Height (in./mm)	0.28/7.0	0.59/15	0.59/15	0.28/7.0	0.374/9.50
Length (in./mm)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm)	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	0.40/0.18	0.40/0.18	0.20/0.09	0.27/0.12

<sup>1</sup> Not all products may be available in all regions of the world.

<sup>2</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 6 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>3</sup> WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

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

<sup>5</sup> See <http://support.wd.com/warranty> for regionally specific warranty details.

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

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



Specifications	750GB	750GB	500GB	500GB	320GB
Model number <sup>1</sup>	WD7500LPCX	WD7500BPVX	WD5000BPVX	WD5000LPVX WD5000LPCX	WD3200LPVX WD3200LPCX
Interface <sup>2</sup>	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity <sup>2</sup>	750,156MB	750,156MB	500,107MB	500,107MB	320,072MB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant <sup>3</sup>	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>					
Data transfer rates					
Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Cache (MB)	16	8	8	8 (LPVX) 16 (LPCX)	8 (LPVX) 16 (LPCX)
Rotational speed (RPM)	5400	5400	5400	5400	5400
Average drive ready time (sec)	2.8	3.0	3.0	2.8	2.8
<b>Reliability/Data Integrity</b>					
Load/unload cycles <sup>4</sup>	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>
Limited warranty (years) <sup>5</sup>	2	2	2	2	2
<b>Power Management</b>					
5VDC ±10% (A, peak)	1.00	1.00	1.00	1.00	1.00
Average power requirements (W)					
Read/Write	1.7	1.6	1.4	1.4	1.4
Idle	0.57	0.65	0.59	0.55	0.55
Standby/Sleep	0.18	0.20	0.18	0.13 (LPVX) 0.16 (LPCX)	0.13 (LPVX) 0.16 (LPCX)
<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
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Acoustics (dBA) <sup>7</sup>					
Idle	20	24	24	17	17
Seek (average)	21	25	25	22	22
<b>Physical Dimensions</b>					
Height (in./mm)	0.28/7.0	0.374/9.50	0.374/9.50	0.28/7.0	0.28/7.0
Length (in./mm)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb/kg, ± 10%)	0.21/0.09	0.34/0.15	0.25/0.12	0.20/0.09	0.20/0.09

<sup>1</sup> Not all products may be available in all regions of the world.  
<sup>2</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 6 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>5</sup> See <http://support.wd.com/warranty> for regionally specific warranty details.  
<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.  
<sup>7</sup> Sound power level.

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