



WD BLUE™

Mobile Hard Drives

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



INTERFACE

SATA 6 Gb/s
SATA 3 Gb/s

WIDTH/HEIGHT

2.75 in./0.28 in. to 0.374 in.
69.85 mm/7 mm to 9.5 mm

ROTATIONAL SPEED

5400 RPM

CAPACITIES

250 GB to 1 TB

MODEL NUMBERS

WD10JPVX
WD10JPVT
WD7500BPVX
WD7500BPVT
WD5000LPVX

WD5000LPVT
WD5000BPVT
WD3200LPVX
WD3200LPVT
WD3200BPVT

WD2500LPVX
WD2500LPVT
WD2500BPVT

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

Product Features

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 highest standards of quality and reliability, these drives offer the features and capacity ideal for your everyday computing needs.

More options

These drives are available in a broad range of capacities and form factors so you can be sure there's a drive that's the perfect fit for your system.

Quiet

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

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.

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.

Applications

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

* WD hard drives are designed and tested for use in specific applications and environments. This ensures 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 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 our products consistently meet the highest quality and reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have longer operational hours to 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.



WD BLUE™

| Specifications | 1 TB | 750 GB | 500 GB | 500 GB |
|---|--|--|--|------------------------|
| Model number | WD10JPVX WD10JPVT | WD7500BPVX WD7500BPVT | WD5000LPVX WD5000LPVT | WD5000BPVT |
| Interface | SATA 6 Gb/s (JPVX) SATA 3 Gb/s (JPVT) | SATA 6 Gb/s (BPVX) SATA 3 Gb/s (BPVT) | SATA 6 Gb/s (LPVX) SATA 3 Gb/s (LPVT) | SATA 3 Gb/s |
| Formatted capacity ¹ | 1,000,204 MB | 750,156 MB | 500,107 MB | 500,107 MB |
| User sectors per drive | 1,953,525,168 | 1,465,149,168 | 976,773,168 | 976,773,168 |
| Advanced Format (AF) | Yes | Yes | Yes | Yes |
| Form factor | 2.5-inch | 2.5-inch | 2.5-inch | 2.5-inch |
| RoHS compliant ² | Yes | Yes | Yes | Yes |
| Performance | | | | |
| Data transfer rate (max) | | | | |
| Buffer to host | 6 Gb/s (JPVX) 3 Gb/s (JPVT) | 6 Gb/s (BPVX) 3 Gb/s (BPVT) | 6 Gb/s (LPVX) 3 Gb/s (LPVT) | 3 Gb/s |
| Host to/from drive (sustained) | 144 MB/s | 138 MB/s | 147 MB/s | 136 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) | 3.0 (JPVX) / <3.5 (JPVT) | 3.0 (BPVX) / 4.0 (BPVT) | 2.8 (LPVX) / <3.5 (LPVT) | 4.0 |
| Reliability/Data Integrity | | | | |
| Load/unload cycles ³ | 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 |
| Limited warranty (years) ⁴ | 2 | 2 | 2 | 2 |
| Power Management | | | | |
| 5VDC ±10% (A, peak) | 1.00 (JPVX) / 0.900 (JPVT) | 1.00 (BPVX) / 0.975 (BPVT) | 1.00 (LPVX) / 0.900 (LPVT) | 0.950 |
| Average power requirements (W) | | | | |
| Read/Write | 1.4 | 1.6 | 1.4 | 1.6 |
| Idle | 0.59 | 0.65 | 0.55 | 0.65 |
| Standby/Sleep | 0.18 | 0.20 | 0.13 | 0.20 |
| Environmental Specifications | | | | |
| 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) | 400 | 350 | 400 | 350 |
| Non-operating | 1000 (2 ms) | 1000 (2 ms) | 1000 (2 ms) | 1000 (2 ms) |
| Acoustics (dBA) ⁶ | | | | |
| Idle | 24 | 24 | 17 | 22 |
| Seek (average) | 25 | 25 | 22 | 25 |
| Physical Dimensions | | | | |
| Height (in./mm, max) | 0.374/9.50 | 0.374/9.50 | 0.28/7.0 | 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%) | 0.27/0.12 | 0.34/0.15 | 0.20/0.09 | 0.22/0.10 |

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 RoHS Directive 2011/65/EU.

³ Controlled unload at ambient condition.

⁴ The term of the limited warranty may vary by region. Visit support.wd.com/warranty for details.

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

⁶ Sound power level.



WD BLUE™

| Specifications | 320 GB | 320 GB | 250 GB | 250 GB |
|---|--|------------------------|--|------------------------|
| Model number | WD3200LPVX WD3200LPVT | WD3200BPVT | WD2500LPVX WD2500LPVT | WD2500BPVT |
| Interface | SATA 6 Gb/s (LPVX) SATA 3 Gb/s (LPVT) | SATA 3 Gb/s | SATA 6 Gb/s (LPVX) SATA 3 Gb/s (LPVT) | SATA 3 Gb/s |
| Formatted capacity ¹ | 320,072 MB | 320,072 MB | 250,059 MB | 250,059 MB |
| User sectors per drive | 625,142,448 | 625,142,448 | 488,397,168 | 488,397,168 |
| Advanced Format (AF) | Yes | Yes | Yes | Yes |
| Form factor | 2.5-inch | 2.5-inch | 2.5-inch | 2.5-inch |
| RoHS compliant ² | Yes | Yes | Yes | Yes |
| Performance | | | | |
| Data transfer rate (max) Buffer to host | 6 Gb/s (LPVX) 3 Gb/s (LPVT) | 3 Gb/s | 6 Gb/s (LPVX) 3 Gb/s (LPVT) | 3 Gb/s |
| Host to/from drive (sustained) | 147 MB/s (LPVX) 109 MB/s (LPVT) | 116 MB/s | 147 MB/s (LPVX) 109 MB/s (LPVT) | 116 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) | 2.8 (LPVX) / <3.5 (LPVT) | 4.0 | 2.8 (LPVX) / <3.5 (LPVT) | 4.0 |
| Reliability/Data Integrity | | | | |
| Load/unload cycles ³ | 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 |
| Limited warranty (years) ⁴ | 2 | 2 | 2 | 2 |
| Power Management | | | | |
| 5VDC ±10% (A, peak) | 1.00 (LPVX) / 0.900 (LPVT) | 1.00 | 1.00 (LPVX) / 0.900 (LPVT) | 1.00 |
| Average power requirements (W) | | | | |
| Read/Write | 1.4 | 2.5 | 1.4 | 2.5 |
| Idle | 0.55 | 0.85 | 0.55 | 0.85 |
| Standby/Sleep | 0.13 | 0.20 | 0.13 | 0.20 |
| Environmental Specifications⁵ | | | | |
| 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) | 400 | 350 | 400 | 350 |
| Non-operating | 1000 (2 ms) | 1000 (2 ms) | 1000 (2 ms) | 1000 (2 ms) |
| Acoustics (dBA) ⁶ | | | | |
| Idle | 17 | 22 | 17 | 22 |
| Seek (average) | 22 | 25 | 22 | 25 |
| Physical Dimensions | | | | |
| Height (in./mm, max) | 0.28/7.0 | 0.374/9.50 | 0.28/7.0 | 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%) | 0.20/0.09 | 0.22/0.10 | 0.20/0.09 | 0.22/0.10 |

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.

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³ Controlled unload at ambient condition.

⁴ The term of the limited warranty may vary by region. Visit <http://support.wd.com/warranty> for details.

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

⁶ Sound power level.

WD Blue is part of WD's complete lineup of internal hard drives.



WD BLUE™
Everyday Storage



WD GREEN™
Cool & Quiet Storage



WD BLACK™
Performance Storage

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

For service and literature:

<http://support.wd.com>
www.wd.com

800.ASK.4WDC
(800.275.4932)
800.832.4778
+800.6008.6008
00800.27549338

+31.880062100

North America
Spanish
Asia Pacific
Europe
(toll free where available)
Europe/Middle East/Africa



Canada ICES-003 Class B / NMB-003 Classe B

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