



Western Digital WD Blue 3.5-inch HDD

Western Digital WD Blue™ 3.5-inch PC hard drives deliver solid reliability for office and web applications, and they are perfect for extra storage for desktop PC computing.

Tested For Compatibility

We perform tests on hundreds of systems and a multitude of platforms in our F.I.T. Lab to give our customers confidence that our drives will work in their systems.

Low Power Consumption

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

NoTouch™ Ramp Load Technology

Safely positions the recording head off the disk surface to protect your data.

Upgrading Your Drive is Easy

Seamlessly migrate your current system to your new Western Digital drive using Acronis® True Image™ WD Edition cloning software, available as a free download on the WD Support site. This software 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.

Two Year Limited Warranty

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty included with every WD Blue hard drive.

Product Highlights

- Reliable everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition cloning software
- Massive capacity up to 6TB
- Two year limited warranty

INTERFACE	MODEL NUMBERS
SATA 6 Gb/s	WD60EZZ
	WD60EZRZ
FORM FACTOR	WD40EZRZ
3.5-inch	WD30EZRZ
	WD20EZZ
PERFORMANCE CLASS	WD20EZRZ
5400 RPM Class	WD10EZRZ
7200 RPM Class	WD10EZEX
	WD5000AZRZ
CAPACITIES	WD5000AZLX
500GB to 6TB	

THE WESTERN DIGITAL ADVANTAGE

Western Digital 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 Western Digital brand.

Western Digital 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 Western Digital Support site for additional details.

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PRODUCT BRIEF

Specifications

	6TB	6TB	4TB	3TB	2TB	2TB	1TB	1TB	500GB	500GB
Model Number²	WD60EZAZ	WD60EZRZ	WD40EZRZ	WD30EZRZ	WD20EZAZ	WD20EZRZ	WD10EZRZ	WD10EZEX	WD5000AZ-RZ	WD5000AZLX
Recording Technology ⁹	SMR	CMR	CMR	CMR	SMR	CMR	CMR	CMR	CMR	CMR
Formatted capacity ¹	6TB	6TB	4TB	3TB	2TB	2TB	1TB	1TB	500GB	500GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ³	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance										
Interface transfer rate (max) ¹	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Buffer to host	180 MB/s	170 MB/s	175 MB/s	147 MB/s	180 MB/s	147 MB/s	150 MB/s	150 MB/s	150 MB/s	150 MB/s
Host to/from drive (sustained)	180 MB/s	170 MB/s	175 MB/s	147 MB/s	180 MB/s	147 MB/s	150 MB/s	150 MB/s	150 MB/s	150 MB/s
Cache (MB) ¹	256	64	64	64	256	64	64	64	64	32
Performance Class	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM	7200 RPM	5400 RPM	7200 RPM
Reliability/Data Integrity										
Load/unload cycles ⁴	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁵	<1 in 10 ¹⁵	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	2	2	2	2	2	2	2	2	2	2
Power Management⁶										
Average power requirements (W)										
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.73	1.31	1.73	1.2	2.5	2.0	2.0
Read/Write	4.8	5.3	4.5	4.1	4.1	4.1	3.3	6.8	3.3	3.3
Idle	3.1	3.4	2.9	3.0	2.3	3.0	2.5	6.1	2.5	2.5
Standby and Sleep	0.6	0.4	0.4	0.4	0.6	0.4	0.4	1.2	0.4	0.4
Environmental Specifications⁷										
Temperature (°C, on the base casting)										
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)										
Operating (2 ms, read/write)	30	30	30	30	30	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	350	250	350	350	350	350
Acoustics (dBA) ⁸										
Idle	23	25	23	23	21	23	21	29	29	29
Seek (average)	27	28	27	27	26	27	24	30	30	30
Physical Dimensions										
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	1.40/0.64	1.65/0.75	1.40/0.64	1.40/0.715	0.99/0.45	1.32/0.60	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45

¹ As used for storage capacity, 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 for details.

² Not all products may be available in all regions of the world.

³ 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.

⁴ Controlled unload at ambient condition.

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

⁶ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Power measurements at room-ambient temperature.

⁸ Sound power level.

⁹ Implementation of SMR for these products is device-managed SMR.

Western Digital.

5601 Great Oaks Parkway
San Jose, CA 95119, USA
www.westerndigital.com

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