Western Digital

WD Blue™

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
SATA 6 Gb/s

FORM FACTOR
3.5-inch

PERFORMANCE CLASS
5400 RPM Class
7200 RPM Class

CAPACITIES
500GB to 6TB

MODEL NUMBERS
WD60EZAZ
WD40EZAZ
WD40EZRZ
WD30EZAZ
WD30EZRZ
WD20EZBX
WD20EZAZ
WD20EZRZ
WD10EZRZ
WD10EZEX
WD5000AZRZ
WD5000AZLX

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.

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.

Western Digital WD Blue™ 3.5-inch HDD

Specifications

	6TB	4TB	4TB	3TB	3TB	2TB
Model Number[1]	WD60EZAZ	WD40EZAZ	WD40EZRZ	WD30EZAZ	WD30EZRZ	WD20EZBX
Recording Technology[9]	SMR	SMR	CMR	SMR	CMR	SMR
Formatted capacity[2]	6TB	4TB	4TB	3TB	3TB	2TB
Form factor	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
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes	Yes
Performance						
Interface transfer rate (max)[1] Buffer to host Host to/from drive (sustained)	6 Gb/s 180 MB/s	6 Gb/s 180 MB/s	6 Gb/s 175 MB/s	6 Gb/s 180 MB/s	6 Gb/s 147 MB/s	6 Gb/s 215 MB/s
Cache (MiB)[1]	256	256	64	256	64	256
RPM	5400	5400	5400	5400	5400	7200
Reliability/Data Integrity						
Load/unload cycles[4]	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<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
Power Management[6]						
Average power requirements (W) 12VDC ±10% (A, peak) Read/Write Idle Standby and Sleep	1.75 4.8 3.1 0.6	1.75 4.8 3.1 0.4	1.75 4.5 2.9 0.4	1.75 4.8 3.1 0.4	1.73 4.1 3.0 0.4	1.75 5.6 3.7 0.4
Environmental Specifications[7]						
Temperature (°C, on the base casting)						
Operating Non-operating	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 350
Acoustics (dBA)8 Idle Seek (average)	23 27	23 27	23 27	23 27	23 27	25 27
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
Length (in./mm, max)	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
Weight (lb/kg, ± 10%)	1.40/0.64	1.26 / 0.57	1.40/0.64	1.26 / 0.57	1.40/0.715	0.99 / 0.45

Western Digital WD Blue™ 3.5-inch HDD

Specifications

	2TB	2TB	1TB	1TB	500GB	500GB
Model Number[1]	WD20EZAZ	WD20EZRZ	WD10EZRZ	WD10EZEX	WD5000AZRZ	WD5000AZLX
Recording Technology[9]	SMR	CMR	CMR	CMR	CMR	CMR
Formatted capacity[2]	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
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes	Yes
Performance						
Interface transfer rate (max)[1] Buffer to host Host to/from drive (sustained)	6 Gb/s 180 MB/s	6 Gb/s 147 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s
Cache (MiB)[1]	256	64	64	64	64	32
RPM	5400	5400	5400	7200	5400	7200
Reliability/Data Integrity						
Load/unload cycles[4]	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<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
Power Management[6]						
Average power requirements (W) 12VDC ±10% (A, peak) Read/Write Idle Standby and Sleep	1.31 4.1 2.3 0.6	1.73 4.1 3.0 0.4	1.2 3.3 2.5 0.4	2.5 6.8 6.1 1.2	2.0 3.3 2.5 0.4	2.0 3.3 2.5 0.4
Environmental Specifications[7]						
Temperature (°C, on the base casting)						
Operating Non-operating	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 350	30 65 250	30 65 350	30 65 350	30 65 350	30 65 350
Acoustics (dBA)8 Idle Seek (average)	21 26	23 27	21 24	29 30	29 30	29 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
Length (in./mm, max)	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
Weight (lb/kg, ± 10%)	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] Not all products may be available in all regions of the world.

[2] As used for storage capacity, 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment. Memory capacity for buffer or cache is indicated in mebibytes (MiB) and one MiB is equal to 1,048,576 bytes. As used for transfer rate or interface, 1 MB/s = 1 million bytes 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. Performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

[3] This hard drive product meets or exceeds Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU and Directive (EU) 2015/863.

[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 the following products using SMR recording technology is device-managed SMR.

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