



WD Blue® 3.5-inch PC HDD

WD Blue internal hard drives deliver solid reliability for office and web applications and are perfect for extra storage for desktop PCs and in-office applications.

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.

Low Power Consumption

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

Upgrading Your Drive Is Easy

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

The Western Digital Advantage

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty⁷ 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
- Capacities up to 8TB¹
- Two-year limited warranty⁷

WD Blue® 3.5-inch PC HDD

PRODUCT BRIEF

3.5-INCH PC HARD DRIVE

Specifications

	8TB	8TB	6TB	6TB	4TB	4TB
Model Number²	WD80EAAZ	WD80EAAZ	WD60EZAX	WD60EZAZ	WD40EZAX	WD40EZAZ
Recording Technology ³	CMR	CMR	CMR	SMR	CMR	SMR
Formatted capacity ¹	8TB	8TB	6TB	6TB	4TB	4TB
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 ⁴	Yes	Yes	Yes	Yes	Yes	Yes

Performance

Interface speed (SATA)	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate ⁵ (max)	215 MB/s	185 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s
Cache (MB) ¹	256	128	256	256	256	256
RPM	5640	5640	5400	5400	5400	5400

Reliability/Data Integrity

Load/unload cycles ⁶	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) ⁷	2	2	2	2	2	2

Power Management⁸

Average power requirements (W)						
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.75	1.75	1.75
Read/Write	5.2	6.2	4.7	4.8	4.7	4.8
Idle	3.4	4.1	3.1	3.1	3.1	3.1
Standby and Sleep	0.4	0.4	0.3	0.6	0.3	0.6

Environmental Specifications⁹

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
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)						
Operating (2 ms, write)	70	70	70	30	70	30
Operating (2 ms, read)	70	70	70	65	70	65
Non-operating (2 ms)	250	250	250	250	250	250
Acoustics (dBA) ¹⁰						
Idle	24	25	23	23	23	23
Seek (average)	28	30	27	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, ± 3%)	1.58/0.715	1.65/0.75	1.26/0.57	1.26/0.57	1.26/0.57	1.26/0.57

Specifications subject to change without notice.

¹ 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

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

³ Implementation of SMR for the following products using SMR recording technology is device-managed SMR.

⁴ 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.

⁵ 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

⁶ Controlled unload at ambient condition.

⁷ See support.wdc.com/warranty for regional specific warranty details.

⁸ Power measurements at room-ambient temperature.

⁹ No non-recoverable errors during operating tests or after non-operating tests.

¹⁰ Sound power level.

WD Blue® 3.5-inch PC HDD

PRODUCT BRIEF

3.5-INCH PC HARD DRIVE

Specifications

	3TB	3TB	2TB	2TB	2TB
Model Number²	WD30EZAX	WD30EZZ	WD20EARZ	WD20EZBX	WD20EZZ
Recording Technology ³	CMR	SMR	CMR	SMR	SMR
Formatted capacity ¹	3TB	3TB	2TB	2TB	2TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant ⁴	Yes	Yes	Yes	Yes	Yes
Performance					
Interface speed (SATA)	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate ⁵ (max)	180 MB/s	180 MB/s	180 MB/s	215 MB/s	180 MB/s
Cache (MB) ¹	256	256	64	256	256
RPM	5400	5400	5400	7200	5400
Reliability/Data Integrity					
Load/unload cycles ⁶	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
Limited warranty (years) ⁷	2	2	2	2	2
Power Management⁸					
Average power requirements (W)					
12VDC ±10% (A, peak)	1.75	1.75	1.2	1.75	1.31
Read/Write	4.7	4.8	4.0	5.6	4.1
Idle	3.1	3.1	2.4	3.7	2.3
Standby and Sleep	0.3	0.6	0.3	0.4	0.6
Environmental Specifications⁹					
Temperature (°C, on the base casting)					
Operating	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
Shock (Gs)					
Operating (2 ms, write)	70	30	70	30	30
Operating (2 ms, read)	70	65	70	65	65
Non-operating (2 ms)	250	250	300	350	350
Acoustics (dBA) ¹⁰					
Idle	23	23	21	25	21
Seek (average)	25	27	26	27	26
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
Length (in./mm, max)	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
Weight (lb/kg, ± 3%)	1.26/0.57	1.26/0.57	0.99/0.45	0.99/0.45	0.99/0.45

Specifications subject to change without notice.

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⁸ Power measurements at room-ambient temperature.

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WD Blue® 3.5-inch PC HDD

PRODUCT BRIEF

3.5-INCH PC HARD DRIVE

Specifications

	1TB	1TB	1TB	500GB	500GB
Model Number²	WD10EARZ	WD10EZRZ	WD10EZEX	WD5000AZRZ	WD5000AZLX
Recording Technology ³	CMR	CMR	CMR	CMR	CMR
Formatted capacity ¹	1TB	1TB	1TB	500GB	500GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant ⁴	Yes	Yes	Yes	Yes	Yes

Performance

Interface speed (SATA)	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate ⁵ (max)	180 MB/s	150 MB/s	150 MB/s	150 MB/s	150 MB/s
Cache (MB) ¹	64	64	64	64	32
RPM	5400	5400	7200	5400	7200

Reliability/Data Integrity

Load/unload cycles ⁶	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
Limited warranty (years) ⁷	2	2	2	2	2

Power Management⁸

Average power requirements (W)					
12VDC ±10% (A, peak)	1.2	1.2	2.5	1.2	1.77
Read/Write	4.0	3.3	6.8	3.3	6.8
Idle	2.4	2.5	6.1	2.5	6.1
Standby and Sleep	0.3	0.4	1.2	0.4	1.2

Environmental Specifications⁹

Temperature (°C, on the base casting)					
Operating	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
Shock (Gs)					
Operating (2 ms, write)	70	30	30	30	30
Operating (2 ms, read)	70	65	65	65	65
Non-operating (2 ms)	300	350	350	350	350
Acoustics (dBA) ¹⁰					
Idle	21	21	29	21	29
Seek (average)	26	24	30	22	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
Length (in./mm, max)	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
Weight (lb/kg, ± 3%)	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45

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