WD®

WD Blue™
PC Hard Drives

High Capacity, Proven Reliability

WD expands their award-winning desktop and mobile storage lineup with WD Blue PC hard drives. Extensively tested and built to WD's high standards, WD Blue offers a wide variety of capacities - ranging from 250 GB to the massive 6 TB – in both desktop and mobile models. Drive WD Blue with confidence – our colors never fade.

WD Blue™

INTERFACE	FORM FACTOR	ROTATIONAL SPEED	CAPACITIES
SATA 6 Gb/s	3.5-inch	7200 RPM Class and 5400 RPM Class	250 GB to 6 TB

MODEL NUMBERS

WD60EZRZ	WD20EZRZ	WD5000AZRZ	WD2500AAKX
WD50EZRZ	WD10EZRZ	WD5000AZLX	
WD40EZRZ	WD10EZEX	WD5000AAKX	
WD30EZRZ	WD7500AZEX	WD3200AAKX	

Product Features

Storage Capacity Up to 6 TB

Boost your PC storage with WD Blue drives, the brand designed specifically for desktop and all-in-one PCs. The WD Blue family now delivers data storage capacities up to 6 TB.

Improve PC Performance

Pair a larger capacity drive with an SSD to give your desktop a performance and storage boost. The SSD maximizes speed of data access, while the WD Blue drive stores up to 6 TB of movies, games, files, applications and more.

Upgrade and Backup with Ease

WD hard drives come with free access to WD Acronis True Image. Backup and restore functions make it easy to save and retrieve your personal data without the need to reinstall the OS.

Trust in WD

Customers around the world know that WD's reliability is legendary. Every WD Blue drive is designed, tested and built to last, and each ships with a 2-year limited warranty.

Future-Proof Your Storage

With better technology comes bigger storage needs. Cameras that record ultra-high definition video at 4K resolution at 30 frames per second require a ton of storage. Handling all that media is a snap with our 6 TB drive, capable of storing up to 281.25 hours of 4K video.

Additional Features

NoTouch Ramp Load Technology - Safely positions the recording head off the disk surface to protect your data.

IntelliSeek - Calculates optimum seek speeds to lower power consumption, noise and vibration.

Data LifeGuard Advanced - algorithms monitor your drive continuously so it stays in optimum health.

Applications

WD Blue storage is tested and recommended for use in desktop and All-in-One PCs, notebooks, and external enclosures where capacity is not needed. Desktop drives are not recommended for use in RAID environments. Please consider using WD Red™ hard drives for home and small office 1 - 8 bay NAS systems and WD Red Pro hard drives for rackmount and NAS systems with up to 16 bays.*

 * 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.

Specifications	6 TB	5 TB	4 TB	3 TB	2 TB
Model number[1]	WD60EZRZ	WD50EZRZ	WD40EZRZ	WD30EZRZ	WD20EZRZ
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	6 TB	5 TB	4 TB	3 TB	2 TB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 175 MB/s	6 Gb/s 170 MB/s	6 Gb/s 150 MB/s	6 Gb/s 147 MB/s	6 Gb/s 147 MB/s
Cache (MB)	64	64	64	64	64
Rotational speed (RPM)	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity					
Load/unload cycles[4]	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)[5]	2	2	2	2	2
Power Management					
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.73	1.73
Average power requirements (W) Read/Write Idle Standby/Sleep	5.3 3.4 0.4	5.3 3.4 0.4	5.3 3.4 0.4	4.1 3.0 0.4	4.1 3.0 0.4
Environmental Specifications[6]					
Temperature (°C) 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
Shock (Gs) Operating (2 ms, write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250
Acoustics (dBA)[7] Idle Seek (average)	25 28	25 28	25 28	23 27	23 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
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, ± 10%)	1.65/0.75	1.65/0.75	1.50/0.68	1.40/0.64	1.32/0.60

[1] Not all products may be available in all regions of the world.

[2] 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.

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

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

[7] Sound power level.

Specifications	1 TB	1 TB	750 GB	500 GB	500 GB
Model number[1]	WD10EZRZ	WD10EZEX	WD7500AZEX	WD5000AZRZ	WD5000AAKX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	1 TB	1,000,204 MB	750,156 MB	500 GB	500,107 MB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	 6 Gb/s 150 MB/s	 6 Gb/s 150 MB/s	 6 Gb/s 150 MB/s	 6 Gb/s 150 MB/s	 6 Gb/s 126 MB/s
Cache (MB)	64	64	64	64	16
Rotational speed (RPM)	5400 RPM Class	7200 RPM Class	7200 RPM Class	5400 RPM Class	7200 RPM Class
Reliability/Data Integrity					
Load/unload cycles[4]	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)[5]	2	2	2	2	2
Power Management					
12VDC ±10% (A, peak)	1.2	2.5	2.5	1.2	1.77
Average power requirements (W) Read/Write Idle Standby/Sleep	 3.3 2.5 0.4	 6.8 6.1 1.2	 6.8 6.1 1.2	 3.3 2.5 0.4	 6.0 5.6 0.9
Environmental Specifications[6]					
Temperature (°C) 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
Shock (Gs) Operating (2 ms, write) Operating (2 ms, read) Non-operating (2 ms)	 30 65 350	 30 65 350	 30 65 350	 30 65 350	 30 65 350
Acoustics (dBA)[7] Idle Seek (average)	 21 24	 29 30	 29 30	 21 22	 29 30
Physical Dimensions					
Height (in./mm, max)	1.028/26.1	1.028/25.4	1.028/25.4	1.028/26.1	1.028/25.4
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, ± 10%)	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45	0.95/0.43

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[2] 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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[4] Controlled unload at ambient condition.

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

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

[7] Sound power level.

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Specifications	500 GB	320 GB	250 GB
Model number[1]	WD5000AZLX	WD3200AAKX	WD2500AAKX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	500,107 MB	320,072 MB	250,059 MB
Advanced Format (AF)	Yes	No	No
Form factor	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[3]	Yes	Yes	Yes
Performance			
Data transfer rate (max)			
Buffer to host	6 Gb/s	3 Gb/s	6 Gb/s
Host to/from drive (sustained)	150 MB/s	126 MB/s	126 MB/s
Cache (MB)	32	16	16
Rotational speed (RPM)	7200 RPM Class	7200 RPM Class	7200 RPM Class
Reliability/Data Integrity			
Load/unload cycles[4]	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}
Limited warranty (years)[5]	2	2	2
Power Management			
12VDC ±10% (A, peak)	2	1.77	1.77
Average power requirements (W)			
Read/Write	6.8	6.0	5.3
Idle	6.1	5.6	4.9
Standby/Sleep	1.2	0.9	0.7
Environmental Specifications[6]			
Temperature (°C)			
Operating	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)			
Operating (2 ms, write)	30	30	30
Operating (2 ms, read)	65	65	65
Non-operating (2 ms)	350	350	350
Acoustics (dBA)[7]			
Idle	29	29	29
Seek (average)	30	30	30
Physical Dimensions			
Height (in./mm, max)	1.028/25.4	1.028/25.4	1.028/25.4
Length (in./mm, max)	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	0.99/0.45	0.95/0.43	0.99/0.45

[1] Not all products may be available in all regions of the world.

[2] 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.

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

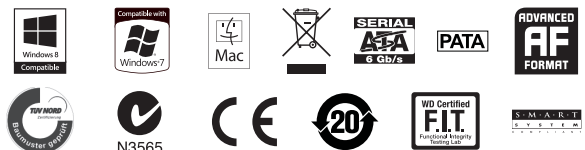[6] No non-recoverable errors during operating tests or after non-operating tests.

[7] Sound power level.

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Learn more about WD Blue Desktop hard drives

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www.wd.com

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