

WD GREEN™

Desktop Hard Drives

WD Green hard drives are designed for use in systems that require cool and quiet operation, as secondary drives in PCs, for external enclosures and other applications for which low noise and low heat are beneficial. These earth-friendly hard drives are ideal for use whenever energy efficiency is needed.



INTERFACE

SATA 6 Gb/s

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

IntelliPower™

CAPACITIES

500 GB to 3 TB

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

MODEL NUMBERS

 WD30EZRX
 WD15EZRX

 WD20EARX
 WD10EZRX

 WD20EZRX
 WD10EARX

 WD15EARX
 WD5000AZRX

Product Features

WD's commitment to sustainability – WD's green initiative goes beyond the product level, focusing on recycling and improving the cleanliness of the air, water and land.

Leading the way to green hard drives – WD led the industry in creating a new category of hard drives that use less power and helps to reduce the world's energy demands one computer user at a time. With over 90 million WD Green drives sold* customers using WD Green drives have saved the planet over 466 million kwh of power – nearly equaling the annual power production of a single coal power plant!

*Data reflects approximate drives sold as of March 2012.

- Conflict-free materials As a leader in hard drive manufacturing, WD proudly guarantees our hard drives are built with 100% conflictfree raw materials.
- Halogen free In addition to being RoHS compliant, all WD Green drives are lead and halogen free, resulting in less pollutants getting into our environment.
- Reduced rare earths dependency – WD's nextgeneration WD Green hard drives are built using less rare earth minerals.

Reduced power consumption

Best-in-class power management technology delivers significant power savings and solid performance.

Cool and quiet

WD GreenPower Technology™ yields lower operating temperatures for increased reliability and low acoustics perfect for ultra-quiet PCs and external drives.

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.

IntelliSeek™

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

Tested for compatibility

We perform tests on hundreds of systems and a multitude of platforms in our FIT Lab $^{\text{m}}$ to give our customers confidence that our drives will work in their systems.

Applications

WD Green hard drives are tested and recommended for use as secondary storage in PCs, external enclosures and applications that require cool and quiet operation. Desktop drives are not recommended for use in RAID environments. Please consider using WD Red™ hard drives for home and small office 1-5 bay NAS systems and WD enterprise hard drives for rackmount and NAS systems with more than 5 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

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	3 ТВ	2 TB	2 TB	
Model number	WD30EZRX	WD20EARX	WD20EZRX	
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	
Formatted capacity ¹	3,000,592 MB	2,000,398 MB	2,000,398 MB	
User sectors per drive	5,860,533,168	3,907,029,168	3,907,029,168	
Form factor	3.5-inch	3.5-inch	3.5-inch	
Advanced Format (AF)	Yes	Yes	Yes	
RoHS compliant ²	Yes	Yes	Yes	
Performance				
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 145 MB/s	6 Gb/s 110 MB/s	6 Gb/s 145 MB/	
Cache (MB)	64	64	64	
Rotational speed (RPM) ³	IntelliPower	IntelliPower	IntelliPower	
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				
5VDC ±10% (A, peak)	1.78	1.75	1.78	
Average power requirements (W) Read/Write Idle Standby/Sleep	6 5.5 0.8	5.3 3.3 0.7	6 5.5 0.8	
Environmental Specifications				
Temperature (°C) Operating Non-operating	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	
Shock (Gs) Operating (2 ms, read) Operating (2 ms, read/write) Non-operating (1 ms)	30 65 250	30 65 250	30 65 250	
Average acoustics (dBA) ⁷ Idle Performance seek mode Quiet seek mode	24 29 25	24 29 25	24 29 25	
Physical Dimensions				
Height (in./mm, max)	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	
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	
Weight (lb./kg, ± 10%)	1.61/0.73	1.40/0.64	1.40/0.64	

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. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-10 organization as of the date of this specification sheet. Visit www.sata-io.org for details.

² WD hard drive products manufactured and solid worldwide after June 1, 2006, meet or exceed Pastriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

³ A fine-tuned balance of spin speed, transfer rate and caching algorithms designed to deliver both significant power savings and solid performance. For each WD Green drive model, WD may use a different, invariable RPM.

⁴ Controlled unload at ambient condition.

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

 $^{^{-6}\,}$ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.





Specifications	1.5 TB	1.5 TB	1 TB	1 TB	500 GB
Model number	WD15EZRX	WD15EARX	WD10EZRX	WD10EARX	WD5000AZRX
Interface	SATA 6 Gb/s				
Formatted capacity ¹	1,500,301 MB	1,500,301 MB	1,000,204 MB	1,000,204 MB	500,107 MB
User sectors per drive	2,930,277,168	2,930,277,168	1,953,525,168	1,953,525,168	976,773,168
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 ²	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 145 MB/s	6 Gb/s 110 MB/s	6 Gb/s 150 MB/	6 Gb/s 110 MB/s	6 Gb/s 150 MB/
Cache (MB)	64	64	64	64	64
Rotational speed (RPM) ³	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower
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				
Limited warranty (years) ⁵	2	2	2	2	2
Power Management					
5VDC ±10% (A, peak)	1.78	1.75	1.2	1.65	1.2
Average power requirements (W) Read/Write Idle Standby/Sleep	6 5.5 0.8	5.3 3.3 0.7	3.8 2.6 0.6	5.3 3.3 0.7	3.8 2.6 0.6
Environmental Specifications ⁶					
Temperature (°C) Operating Non-operating	0 to 60 -40 to 70				
Shock (Gs) Operating (2 ms, read) Operating (2 ms, read/write) Non-operating (1 ms)	30 65 250	30 65 250	30 65 350	30 65 300	30 65 350
Average acoustics (dBA) ⁷ Idle Performance seek mode Quiet seek mode	24 29 25	24 29 25	21 22 22	23 27 24	21 22 22
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%)	1.40/0.64	1.40/0.64	0.99/0.45	1.32/0.60	0.99/0.45

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-10 organization as of the date of this specification sheet. Visit www.sata-io.org for details.

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



WD BLUE™ Everyday Storage



WD GREEN TO Cool & Quiet Storage







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Sound power level.