



absolutely™

WD Green™ Capacity Storage

WD Green storage is designed specifically with reliability in mind for an increased drive lifespan. The advantage of being cool and quiet impacts overall reliability while reduced heat output, decreased power consumption, quiet acoustics, and best-in-class power management make WD Green a leader when compared to the competition.



INTERFACE	FORM FACTORS	HEIGHTS	ROTATIONAL SPEED	CAPACITIES
SATA 6 Gb/s	3.5-inch 2.5-inch	26.1 mm 15 mm*	IntelliPower™	3.5-inch: 500 GB to 6 TB 2.5-inch: 1.5 TB and 2 TB

MODEL NUMBERS

3.5-inch		2.5-inch	
WD60EZRX	WD30EZRX	WD10EZRX	WD20NPVX
WD50EZRX	WD20EZRX	WD5000AZRX	WD15NPVX
WD40EZRX	WD15EZRX		

*Cannot be used in laptop or notebook computers. Designed for PCs and custom external enclosures. Consult system specifications for maximum allowable drive height before attempting to install.

Product Features

The advantage of cool & quiet
Heat has a large impact on the overall reliability of a HDD's life over time. It can also lead to increased power consumption, the requirement of additional fans and increased fan operation, increased noise levels and the increased chance of failure. WD Green drives come equipped with WD GreenPower Technology™ which allows the drive to operate cooler with increased overall reliability.

Power management with performance
Best-in-class power management, reduced heat output, and next-generation technologies such as IntelliSeek™ offer a perfect balance of performance and power, making WD Green a leader in performance when compared to the competition's 6 TB HDD.

Reliability with an increased lifespan
Quiet acoustics, reduced vibration and advanced 4K HDD formatting makes WD Green a stronger solution when compared to the competition and perfect for PCs and external drive applications. WD Green also features a Dual Stage Actuator, which delivers higher precision motion for 2X the data performance and increases drive reliability.

Capacity storage
Large capacity offerings of up to 6 TBs help expand customer capabilities and application usage of WD Green including primary installations in desktop PCs, as secondary storage in external cases or as reliable backup storage.

Next-generation technology
Reduced power consumption, improved data tracking, and WD GreenPower Technology all help to improve the overall reliability of WD Green making it an efficient solution that lowers your total cost of ownership. NoTouch™ Ramp Load Technology also protects the drive by ensuring the recording head never touches the disk media, reducing wear and tear to the head and increases drive reliability.

Easy upgrade
Acronis® True Image™, available as a download on the WD Support website, enables you to clone or copy all your data to a new drive so you don't have to reinstall your operating system and applications to get all the benefits of a new drive.

Applications

WD Green hard drives are tested and recommended for primary use in desktop and All-in-One PCs, as secondary storage for archiving, in external cases or as reliable backup storage. Desktop drives are not recommended for use in RAID environments. Please use WD Red™ storage for NAS or RAID applications.*

* 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.



Specifications	6 TB	5 TB	4 TB	3 TB	2 TB	2 TB	1.5 TB	1.5 TB	1 TB	500 GB
Model number ¹	WD60EZR	WD50EZR	WD40EZR	WD30EZR	WD20EZR	WD20NPV	WD15EZR	WD15NPV	WD10EZR	WD500AZR
Interface (SATA)	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
Formatted capacity ²	6 TB	5 TB	4 TB	3 TB	2 TB	2 TB	1.5 TB	1.5 TB	1 TB	500 GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	2.5-inch	3.5-inch	2.5-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										
Data transfer rate (max)										
Buffer to host	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
Host to/from drive (sustained)	175 MB/s	170 MB/s	150 MB/s	147 MB/s	147 MB/s	135 MB/s	147 MB/s	135 MB/s	150 MB/s	150 MB/s
Cache (MB)	64	64	64	64	64	8	64	8	64	64
Rotational speed (RPM) ⁴	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower
Reliability/Data Integrity										
Load/unload cycles ⁵	300,000	300,000	300,000	300,000	300,000	600,000	300,000	600,000	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	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁶	2	2	2	2	2	2	2	2	2	2
Power Management										
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.73	1.73	1.00	1.73	1.00	1.2	1.2
Average power requirements (W)										
Read/Write	5.3	5.3	5.3	4.1	4.1	1.7	4.1	1.7	3.3	3.3
Idle	3.4	3.4	3.4	3.0	3.0	0.8	3.0	0.8	2.5	2.5
Standby/Sleep	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.2	0.4	0.4
Environmental Specifications										
Temperature (°C) ⁷										
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 65	-40 to 70	-40 to 65	-40 to 70	-40 to 70
Shock (Gs)										
Operating (2 ms, read)	30	30	30	30	30	300	30	300	30	30
Operating (2 ms, read/write)	65	65	65	65	65	-	65	-	65	65
Non-operating (1 ms)	250	250	250	250	250	650	250	650	350	350
Average acoustics (dBA) ⁹										
Idle	25	25	25	23	23	24	23	24	21	21
Seek mode	28	28	28	27	27	25	27	25	24	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	0.59/15	1.028/26.1	0.59/15	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	3.94/100.20	5.787/147	3.94/100.20	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	2.75/69.85	4/101.6	2.75/69.85	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	0.40/0.18	1.32/0.60	0.40/0.18	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, 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 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, variable RPM.

⁵ Controlled unload at ambient condition.

⁶ The term of the limited warranty may vary by region. Visit <http://support.wd.com/warranty> for details.

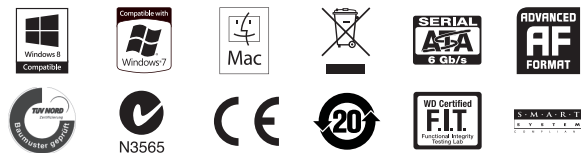
⁷ No non-recoverable errors during operating tests or after non-operating tests.

⁸ On the base casing.

⁹ Sound power level.

Western Digital
3355 Michelson Drive, Suite 100
Irvine, California 92612
U.S.A.

For service and literature:
<http://support.wd.com>
www.wd.com
800.ASK.4WDC (800.275.4932) North America
800.832.4778 Spanish
+86.21.2603.7560 Asia Pacific
00800.27549338 Europe
(toll free where available)
+31.880062100 Europe/Middle East/Africa



CAN ICES-3 (B) / NMB-3 (B)

Western Digital, WD, and the WD logo are registered trademarks of Western Digital Technologies, Inc. in the U.S. and other countries; WD Green, WD Red, IntelliPower, NoTouch, WD GreenPower Technology, and FIT Lab are trademarks of Western Digital Technologies, Inc. in the U.S. and other countries. Other marks may be mentioned herein that belong to other companies. Product specifications subject to change without notice.

© 2014 Western Digital Technologies, Inc. All rights reserved.

2879-800026-A00 May 2014

Learn more about WD Green Desktop hard drives

