



# WD GREEN™

## Mobile 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 2.5-inch hard drives are ideal for use whenever energy efficiency is needed.



### INTERFACE

SATA 6 Gb/s  
SATA 3 Gb/s

### WIDTH/HEIGHT

2.75 in./0.59 in.\*  
69.85 mm/15 mm\*

### ROTATIONAL SPEED

IntelliPower™

### CAPACITIES

1.5 TB to 2 TB

### MODEL NUMBERS

WD20NPVX  
WD20NPVT  
WD15NPVX  
WD15NPVT

\*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.

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

## 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% conflict-free 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 next-generation 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™ 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.\*

\* 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](http://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.





WD GREEN™

Specifications	2 TB	2 TB	1.5 TB	1.5 TB
Model number	WD20NPVX	WD20NPVT	WD15NPVX	WD15NPVT
Interface	SATA 6 Gb/s	SATA 3 Gb/s	SATA 6 Gb/s	SATA 3 Gb/s
Formatted capacity <sup>1</sup>	2,000,398 MB	2,000,398 MB	1,500,301 MB	1,500,301 MB
User sectors per drive	3,907,029,168	3,907,029,168	2,930,277,168	2,930,277,168
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes
<b>Performance</b>				
Data transfer rates				
Interface speed	6 Gb/s	3 Gb/s	6 Gb/s	3 Gb/s
Internal transfer rate (max)	135 MB/s	135 MB/s	135 MB/s	135 MB/s
Cache (MB)	8	8	8	8
Rotational speed (RPM) <sup>3</sup>	IntelliPower	IntelliPower	IntelliPower	IntelliPower
<b>Reliability/Data Integrity</b>				
Load/unload cycles <sup>4</sup>	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	2	2	2	2
<b>Power Management</b>				
5VDC ±10% (A, peak)	1.00	1.00	1.00	1.00
Average power requirements (W)				
Read/Write	1.7	1.7	1.7	1.7
Idle	0.8	0.8	0.8	0.8
Standby/Sleep	0.2	0.2	0.2	0.2
<b>Environmental Specifications<sup>6</sup></b>				
Temperature (°C)				
Operating	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Shock (Gs)				
Operating (2 ms, read)	300	300	300	300
Non-operating (2 ms)	650	650	650	650
Acoustics (dBA) <sup>7</sup>				
Idle	24	24	24	24
Seek (average)	25	25	25	25
<b>Physical Dimensions</b>				
Height (in./mm, max)	0.59/15	0.59/15	0.59/15	0.59/15
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb./kg, ± 10%)	0.40/0.18	0.40/0.18	0.40/0.18	0.40/0.18

<sup>1</sup> 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 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](http://www.sata-io.org) for details.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> Controlled unload at ambient condition.

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

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.

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



**WD BLUE™**  
Everyday Storage



**WD GREEN™**  
Cool & Quiet Storage



**WD BLACK™**  
Performance Storage

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

**For service and literature:**  
<http://support.wd.com>  
[www.wd.com](http://www.wd.com)  
800.ASK.4WDC (800.275.4932) North America  
800.832.4778 Spanish  
+800.6008.6008 Asia Pacific  
00800.27549338 Europe  
(toll free where available)  
+31.880062100 Europe/Middle East/Africa



Learn more about WD Green Mobile hard drives



Canada ICES-003 Class B / NMB-003 Classe B

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