



# WD Caviar® Green™

## Desktop Hard Drives

As hard drive capacities increase, the power required to run those drives increases as well. WD Caviar Green drives make it possible for energy-conscious customers to build systems with higher capacities and the right balance of system performance, ensured reliability, and energy conservation.



### INTERFACE

SATA

### WIDTH/HEIGHT

3.5-inch/1-inch

### ROTATIONAL SPEED

IntelliPower™

### CAPACITIES

320 GB to 3 TB

### MODEL NUMBERS

WD30EZRX	WD10EZRX	WD5000AZRX
WD25EZRX	WD10EARX	WD5000AZDX
WD20EARX	WD10EARS	WD5000AADS
WD20EARS	WD7500AZRX	WD3200AZRX
WD15EARX	WD7500AARX	WD3200AZDX

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

## Product Features

### Massive capacity

WD Caviar Green SATA drives now deliver up to 3 TB of storage on a single drive.

### Reduced power consumption

WD has reduced power consumption making it possible for our energy-conscious customers to build systems with higher capacities and the right balance of system performance, ensured reliability, and energy conservation.

### Cool and quiet

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

### Perfect for external drives

External drive manufacturers can eliminate the need for a fan in a high-capacity product with a WD Caviar Green drive, the coolest and quietest in its class.

### IntelliPower

A fine-tuned balance of spin speed, transfer rate, and caching algorithms designed to deliver both significant power savings and solid performance. Additionally, WD Caviar Green drives consume less current during startup allowing lower peak loads on systems as they are booted.

### IntelliSeek™

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

### 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.

### Advanced Format (AF)

Technology being adopted by WD and other drive manufacturers as one of multiple ways to continue growing hard drive capacities. AF is a more efficient media format that enables increased areal densities. (RX, DX, and RS models only)

## Applications

- Desktop PCs, high capacity external storage, and NAS.
- Desktop / Consumer RAID Environments - WD Caviar Green Hard Drives are tested and recommended for use in consumer-type RAID applications (RAID-0 / RAID-1).
- Business Critical RAID Environments – WD Caviar Green Hard Drives are not recommended for and are not warranted for use in RAID environments utilizing Enterprise HBAs and/or expanders and in multi-bay chassis, as they are not designed for, nor tested in, these specific types of RAID applications. For all Business Critical RAID applications, please consider WD's Enterprise Hard Drives that are specifically designed with RAID-specific, time-limited error recovery (TLER), are tested extensively in 24x7 RAID applications, and include features like enhanced RAFF technology and thermal extended burn-in testing.



PUT YOUR LIFE ON IT®



# WD Caviar Green

Specifications <sup>1</sup>	3 TB	2.5 TB	2 TB	2 TB
Model number	WD30EZR	WD25EZR	WD20EAR	WD20EAR
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 3 Gb/s
Formatted capacity	3,000,592 MB	2,500,495 MB	2,000,398 MB	2,000,398 MB
User sectors per drive	5,860,533,168	4,883,781,168	3,907,029,168	3,907,029,168
Advanced Format (AF)	Yes	Yes	Yes	Yes
SATA latching connector	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes
<b>Performance</b>				
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 123 MB/s	6 Gb/s 123 MB/s	6 Gb/s 110 MB/s	3 Gb/s 110 MB/s
Cache (MB)	64	64	64	64
Rotational speed (RPM)	IntelliPower	IntelliPower	IntelliPower	IntelliPower
<b>Reliability/Data Integrity</b>				
Load/unload cycles <sup>3</sup>	300,000	300,000	300,000	300,000
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>4</sup>	2	2	2	2
<b>Power Management</b>				
12VDC (A, peak)	1.78	1.78	1.75	1.75
Average power requirements (W) Read/write Idle Standby Sleep	6 5.5 0.8 0.8	6 5.5 0.8 0.8	5.3 3.3 0.7 0.7	5.3 3.3 0.7 0.7
<b>Environmental Specifications<sup>5</sup></b>				
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
Shock (Gs) Operating (2 ms, read) Operating (2 ms, read/write) Non-operating (1 ms)	30 65 250	30 65 250	30 65 250	30 65 250
Average acoustics (dBA) <sup>6</sup> Idle mode Performance seek mode Quiet seek mode	24 29 25	24 29 25	24 29 25	24 29 25
<b>Physical Dimensions</b>				
Height (in./mm, max)	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
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.61/0.73	1.61/0.73	1.40/0.64	1.40/0.64

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

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

<sup>3</sup>Controlled unload at ambient condition

<sup>4</sup>The term of the limited warranty may vary by region. Visit <http://support.wdc.com/warranty> for details.

<sup>5</sup>No non-recoverable errors during operating tests or after non-operating tests.

<sup>6</sup>Sound power level.



# WD Caviar Green

Specifications <sup>1</sup>	1.5 TB	1 TB	1 TB	1 TB
Model number	WD15EARX	WD10EZR	WD10EARX	WD10EARS
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 3 Gb/s
Formatted capacity	1,500,301 MB	1,000,204 MB	1,000,204 MB	1,000,204 MB
User sectors per drive	2,930,277,168	1,953,525,168	1,953,525,168	1,953,525,168
Advanced Format (AF)	Yes	Yes	Yes	Yes
SATA latching connector	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes
<b>Performance</b>				
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 110 MB/s	6 Gb/s 150 MB/s	6 Gb/s 110 MB/s	3 Gb/s 110 MB/s
Cache (MB)	64	64	64	64
Rotational speed (RPM)	IntelliPower	IntelliPower	IntelliPower	IntelliPower
<b>Reliability/Data Integrity</b>				
Load/unload cycles <sup>3</sup>	300,000	300,000	300,000	300,000
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>4</sup>	2	2	2	2
<b>Power Management</b>				
12VDC (A, peak)	1.75	1.10	1.65	1.65
Average power requirements (W) Read/write Idle Standby Sleep	5.3 3.3 0.7 0.7	3.7 2.1 0.4 0.4	5.3 3.3 0.7 0.7	5.3 3.3 0.7 0.7
<b>Environmental Specifications<sup>5</sup></b>				
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
Shock (Gs) Operating (2 ms, read) Operating (2 ms, read/write) Non-operating (1 ms)	30 65 250	30 65 350	30 65 300	30 65 300
Average acoustics (dBA) <sup>6</sup> Idle mode Performance seek mode Quiet seek mode	24 29 25	21 22 22	23 27 24	23 27 24
<b>Physical Dimensions</b>				
Height (in./mm, max)	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
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.40/0.64	0.99/0.45	1.32/0.60	1.32/0.60

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

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<sup>3</sup>Controlled unload at ambient condition

<sup>4</sup>The term of the limited warranty may vary by region. Visit <http://support.wdc.com/warranty> for details.

<sup>5</sup>No non-recoverable errors during operating tests or after non-operating tests.

<sup>6</sup>Sound power level.



# WD Caviar Green

Specifications <sup>1</sup>	750 GB	750 GB	500 GB	500 GB	320 GB
Model number	WD7500AZRX	WD7500AARX	WD5000AZRX WD5000AZDX	WD5000AADS	WD3200AZRX WD3200AZDX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 3 Gb/s	SATA 6 Gb/s
Formatted capacity	750,156 MB	750,156 MB	500,107 MB	500,107 MB	320,072 MB
User sectors per drive	1,465,149,168	1,465,149,168	976,773,168	976,773,168	625,142,448
Advanced Format (AF)	Yes	Yes	Yes	No	Yes
SATA latching connector	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>					
Data transfer rate (max)					
Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	3 Gb/s	6 Gb/s
Host to/from drive (sustained)	150 MB/s	110 MB/s	150 MB/s	110 MB/s	150 MB/s
Cache (MB)	64	64	64 (WD5000AZRX) 32 (WD5000AZDX)	32	64 (WD3200AZRX) 32 (WD3200AZDX)
Rotational speed (RPM)	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower
<b>Reliability/Data Integrity</b>					
Load/unload cycles <sup>3</sup>	300,000	300,000	300,000	300,000	300,000
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>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>4</sup>	2	2	2	2	2
<b>Power Management</b>					
12VDC (A, peak)	1.10	1.65	1.10	1.65	1.10
Average power requirements (W)					
Read/write	3.7	5.3	3.7	5.3	3.7
Idle	2.1	3.3	2.1	3.3	2.1
Standby	0.4	0.7	0.4	0.7	0.4
Sleep	0.4	0.7	0.4	0.7	0.4
<b>Environmental Specifications<sup>5</sup></b>					
Temperature (°C)					
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, read)	30	30	30	30	30
Operating (2 ms, read/write)	65	65	65	65	65
Non-operating (1 ms)	350	300	350	300	350
Average acoustics (dBA) <sup>6</sup>					
Idle mode	21	23	21	23	21
Performance seek mode	22	27	22	27	22
Quiet seek mode	22	24	22	24	22
<b>Physical Dimensions</b>					
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%)	0.99/0.45	1.32/0.60	0.99/0.45	1.32/0.60	0.99/0.45

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

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<sup>3</sup>Controlled unload at ambient condition

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<sup>5</sup>No non-recoverable errors during operating tests or after non-operating tests.

<sup>6</sup>Sound power level.

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

**WD Caviar<sup>®</sup> Blue<sup>™</sup>**  
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 Value and reliability for everyday computing.

**WD Caviar<sup>®</sup> Green<sup>™</sup>**  
**Desktop Hard Drives**  
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