



## WD Blue™ 3.5-inch PC HDD

WD Blue internal hard drives deliver solid reliability for office and web applications and are perfect for extra storage for desktop PCs and in-office applications.

### 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.

### Low Power Consumption

State-of-the-art seeking algorithms and advanced power management features help ensure low power consumption.

### Upgrading Your Drive Is Easy

Seamlessly migrate your current system to your new Western Digital drive using Acronis® True Image™ WD Edition software, available as a free download on the Western Digital Support site. This software enables you to copy all your data to a new drive so you don't have to reinstall your operating system to get all the benefits of a new drive.

### The Western Digital Advantage

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty<sup>7</sup> included with every WD Blue hard drive.

## Product Highlights

- Reliable, everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition cloning software
- Capacities up to 8TB<sup>1</sup>
- Two-year limited warranty<sup>7</sup>

# WD Blue™ 3.5-inch PC HDD

## PRODUCT BRIEF

## 3.5-INCH PC HARD DRIVE

### Specifications

	8TB	6TB	6TB	4TB	4TB
<b>Model Number<sup>2</sup></b>	WD80EAZZ	WD60EZAX	WD60EZA Z	WD40EZAX	WD40EZA Z
Recording Technology <sup>3</sup>	CMR	CMR	SMR	CMR	SMR
Formatted capacity <sup>1</sup>	8TB	6TB	6TB	4TB	4TB
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 <sup>4</sup>	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>					
Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate <sup>5</sup> (max)	185 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s
Cache (MB) <sup>1</sup>	128	256	256	256	256
RPM	5640	5400	5400	5400	5400
<b>Reliability/Data Integrity</b>					
Load/unload cycles <sup>6</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>7</sup>	2	2	2	2	2
<b>Power Management<sup>8</sup></b>					
Average power requirements (W)					
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.75	1.75
Read/Write	6.2	4.7	4.8	4.7	4.8
Idle	4.1	3.1	3.1	3.1	3.1
Standby and Sleep	0.4	0.3	0.6	0.3	0.6
<b>Environmental Specifications<sup>9</sup></b>					
Temperature (°C, on the base casting)					
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, write)	70	70	30	70	30
Operating (2 ms, read)	70	70	65	70	65
Non-operating (2 ms)	250	250	250	250	250
Acoustics (dBA) <sup>10</sup>					
Idle	25	23	23	23	23
Seek (average)	30	27	27	25	27
<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, ± 3%)	1.65/0.75	1.26/0.57	1.26/0.57	1.26/0.57	1.26/0.57

**Specifications subject to change without notice.**

<sup>1</sup> 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

<sup>2</sup> Not all products may be available in all regions of the world.

<sup>3</sup> Implementation of SMR for the following products using SMR recording technology is device-managed SMR.

<sup>4</sup> This hard drive product meets or exceeds Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU and Directive (EU) 2015/863.

<sup>5</sup> 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>6</sup> Controlled unload at ambient condition.

<sup>7</sup> See support.wdc.com/warranty for regional specific warranty details.

<sup>8</sup> Power measurements at room-ambient temperature.

<sup>9</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>10</sup> Sound power level.

# WD Blue™ 3.5-inch PC HDD

## PRODUCT BRIEF

## 3.5-INCH PC HARD DRIVE

### Specifications

	3TB	3TB	2TB	2TB	2TB
Model Number <sup>2</sup>	WD30EZAX	WD30EZZ	WD20EARZ	WD20EZZ	WD20EZZ
Recording Technology <sup>3</sup>	CMR	SMR	CMR	SMR	SMR
Formatted capacity <sup>1</sup>	3TB	3TB	2TB	2TB	2TB
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 <sup>4</sup>	Yes	Yes	Yes	Yes	Yes

### Performance

Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate <sup>5</sup> (max)	180 MB/s	180 MB/s	180 MB/s	215 MB/s	180 MB/s
Cache (MB) <sup>1</sup>	256	256	64	256	256
RPM	5400	5400	5400	7200	5400

### Reliability/Data Integrity

Load/unload cycles <sup>6</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>7</sup>	2	2	2	2	2

### Power Management<sup>8</sup>

Average power requirements (W)					
12VDC ±10% (A, peak)	1.75	1.75	1.2	1.75	1.31
Read/Write	4.7	4.8	4.0	5.6	4.1
Idle	3.1	3.1	2.4	3.7	2.3
Standby and Sleep	0.3	0.6	0.3	0.4	0.6

### Environmental Specifications<sup>9</sup>

Temperature (°C, on the base casting)					
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, write)	70	30	70	30	30
Operating (2 ms, read)	70	65	70	65	65
Non-operating (2 ms)	250	250	300	350	350
Acoustics (dBA) <sup>10</sup>					
Idle	23	23	21	25	21
Seek (average)	25	27	26	27	26

### 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, ± 3%)	1.26/0.57	1.26/0.57	0.99/0.45	0.99/0.45	0.99/0.45

#### Specifications subject to change without notice.

<sup>1</sup> 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

<sup>2</sup> Not all products may be available in all regions of the world.

<sup>3</sup> Implementation of SMR for the following products using SMR recording technology is device-managed SMR.

<sup>4</sup> This hard drive product meets or exceeds Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU and Directive (EU) 2015/863.

<sup>5</sup> 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>6</sup> Controlled unload at ambient condition.

<sup>7</sup> See support.wdc.com/warranty for regional specific warranty details.

<sup>8</sup> Power measurements at room-ambient temperature.

<sup>9</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>10</sup> Sound power level.



Western Digital

# WD Blue™ 3.5-inch PC HDD

## PRODUCT BRIEF

## 3.5-INCH PC HARD DRIVE

### Specifications

	1TB	1TB	500GB	500GB
Model Number <sup>2</sup>	WD10EZRZ	WD10EZEX	WD5000AZRZ	WD5000AZLX
Recording Technology <sup>3</sup>	CMR	CMR	CMR	CMR
Formatted capacity <sup>1</sup>	1TB	1TB	500GB	500GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes
RoHS compliant <sup>4</sup>	Yes	Yes	Yes	Yes

### Performance

Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate <sup>5</sup> (max)	150 MB/s	150 MB/s	150 MB/s	150 MB/s
Cache (MB) <sup>1</sup>	64	64	64	32
RPM	5400	7200	5400	7200

### Reliability/Data Integrity

Load/unload cycles <sup>6</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>7</sup>	2	2	2	2

### Power Management<sup>8</sup>

Average power requirements (W)				
12VDC ±10% (A, peak)	1.2	2.5	1.2	1.77
Read/Write	3.3	6.8	3.3	6.8
Idle	2.5	6.1	2.5	6.1
Standby and Sleep	0.4	1.2	0.4	1.2

### Environmental Specifications<sup>9</sup>

Temperature (°C, on the base casting)				
Operating	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
Shock (Gs)				
Operating (2 ms, write)	30	30	30	30
Operating (2 ms, read)	65	65	65	65
Non-operating (2 ms)	350	350	350	350
Acoustics (dBA) <sup>10</sup>				
Idle	21	29	21	29
Seek (average)	24	30	22	30

### Physical Dimensions

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, ± 3%)	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45

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<sup>10</sup> Sound power level.



## Western Digital

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