



3.5" SATA PC Hard Drive

## Feature bullets

- Reliable everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition cloning software
- Capacities up to 12TB<sup>1</sup>
- 2-year limited warranty<sup>7</sup>

## WD Blue® 3.5-inch SATA PC HDD

### WD Blue® 3.5-inch PC HDD

WD Blue® internal hard drives deliver solid reliability for office and web applications, and they 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 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.



# WD Blue® 3.5-inch SATA PC HDD

## Specifications

| Model Number <sup>2</sup>                       | WD20EARZ               | WD20EZBX               | WD20EZAZ               | WD10EARZ               | WD10EZRZ               | WD10EZEX               | WD5000AZRZ             | WD5000AZLX             |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Formatted capacity <sup>1</sup>                 | 2TB                    | 2TB                    | 2TB                    | 1TB                    | 1TB                    | 1TB                    | 500GB                  | 500GB                  |
| Recording Technology <sup>3</sup>               | CMR                    | SMR                    | SMR                    | CMR                    | CMR                    | CMR                    | CMR                    | CMR                    |
| Interface                                       | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            | SATA 6 Gb/s            |
| Form factor                                     | 3.5-inch               | 3.5-inch               | 3.5-inch               | 3.5-inch               | 3.5-inch               | 3.5-inch               | 3.5-inch               | 3.5-inch               |
| Drive Technology                                | Air                    | Air                    | Air                    | Air                    | Air                    | Air                    | Air                    | Air                    |
| Advanced Format (AF)                            | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    |
| RoHS compliant <sup>4</sup>                     | Yes                    | Yes                    | Yes                    | 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                 | 6 Gb/s                 | 6 Gb/s                 | 6 Gb/s                 |
| Internal Transfer Rate (max) <sup>5</sup>       | 180 MB/s               | 215 MB/s               | 180 MB/s               | 180 MB/s               | 150 MB/s               | 150 MB/s               | 150 MB/s               | 150 MB/s               |
| Cache (MB) <sup>1</sup>                         | 64                     | 256                    | 256                    | 64                     | 64                     | 64                     | 64                     | 32                     |
| RPM   | 5400                   | 7200                   | 5400                   | 5400                   | 5400                   | 7200                   | 5400                   | 7200                   |
| <b>Reliability/Data Integrity</b>               |                        |                        |                        |                        |                        |                        |                        |                        |
| Load/unload cycles <sup>6</sup>                 | 300,000                | 300,000                | 300,000                | 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> | <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                      | 2                      | 2                      | 2                      |
| <b>Power Management<sup>8</sup></b>             |                        |                        |                        |                        |                        |                        |                        |                        |
| 12VDC ± 10% (A, peak)                           | 1.2                    | 1.75                   | 1.31                   | 1.2                    | 1.2                    | 2.5                    | 1.2                    | 1.77                   |
| Average Power (W)                               |                        |                        |                        |                        |                        |                        |                        |                        |
| Read/Write                                      | 4.0                    | 5.6                    | 4.1                    | 4.0                    | 3.3                    | 6.8                    | 3.3                    | 6.8                    |
| Idle  | 2.4                    | 3.7                    | 2.3                    | 2.4                    | 2.5                    | 6.1                    | 2.5                    | 6.1                    |
| Standby/Sleep                                   | 0.3                    | 0.4                    | 0.6                    | 0.3                    | 0.4                    | 1.2                    | 0.4                    | 1.2                    |
| <b>Environmental Specifications<sup>9</sup></b> |                        |                        |                        |                        |                        |                        |                        |                        |
| Temperature (°C)                                |                        |                        |                        |                        |                        |                        |                        |                        |
| 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                |
| Non-operating                                   | -40 to 70              | -40 to 70              | -40 to 70              | -40 to 70              | -40 to 70              | -40 to 70              | -40 to 70              | -40 to 70              |
| Shock (Gs)                                      |                        |                        |                        |                        |                        |                        |                        |                        |
| Operating (2 ms, write)                         | 70                     | 30                     | 30                     | 70                     | 30                     | 30                     | 30                     | 30                     |
| Operating (2 ms, read)                          | 70                     | 65                     | 65                     | 70                     | 65                     | 65                     | 65                     | 65                     |
| Non-operating (2 ms)                            | 300                    | 350                    | 350                    | 300                    | 350                    | 350                    | 350                    | 350                    |
| Acoustics (dBA) <sup>10</sup>                   |                        |                        |                        |                        |                        |                        |                        |                        |
| Idle  | 21                     | 25                     | 21                     | 21                     | 21                     | 29                     | 21                     | 29                     |
| Seek (average)                                  | 26                     | 27                     | 26                     | 26                     | 24                     | 30                     | 22                     | 30                     |
| <b>Physical Dimensions</b>                      |                        |                        |                        |                        |                        |                        |                        |                        |
| Height (max) (in / mm)                          | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           | 1.028 / 26.1           |
| Length (max) (in / mm)                          | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            | 5.787 / 147            |
| Width (± .01 in.) (in / mm)                     | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              | 4 / 101.6              |
| Weight (± 3% ) (lb / kg)                        | 0.99 / 0.45            | 0.99 / 0.45            | 0.99 / 0.45            | 0.99 / 0.45            | 0.99 / 0.45            | 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> 1MB/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](http://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.



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