



WD Black™

Performance Storage

Where performance meets capacity.

- Inspiring performance and capacity
- High resolution for a high definition world
- Industry-leading limited warranty

Our all new next-generation WD Black drives deliver improved performance that heightens the experience in your PC playground. These performance drives offer enhanced features over the previous generation to maximize system performance, allowing you to have more fun creating while spending less time waiting.



Learn more about WD Black



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Performance Storage



Product Features

Inspiring performance and capacity

For the creators, the gamers and those that demand the best, we delivered the next generation of hard drives to enlarge your PC playground. The latest WD Black desktop hard drives offer enhanced features that maximize system performance, allowing you to spend more time doing what you love most and less time waiting. WD Black is designed to intensify your PC experience with generous capacity and incredible performance, pushing the boundaries of personalization.

High resolution for a high definition world

Underlying its athletic stance of performance and capacity, WD Black features a new High Resolution Controller (HRC) with an improved architectural design, resulting in increased data precision across the hard drive. This translates to superior responsiveness evolving your high definition world to the next level.

Smarter than the average drive

Performance and workstation PCs equipped with high-end components often emit vibrations and acoustics that can reduce the precision and performance of your hard drive. Even the best chassis on the market cannot always compensate against this. The new generation of WD Black hard drives feature Vibration Control Technology (VCT) which allows the disks inside the drive to adapt to any mounting problems or vibration conditions that are inside your case, resulting in increased data accuracy, performance and reliability over time. Put simply, this means you can game harder, faster and longer.

Action meets stable traction

In addition to Vibration Control Technology (VCT), WD Black is also equipped with StableTrac™ Technology, which secures the motor shaft inside the drive at both ends to help reduce additional system-induced vibrations. StableTrac confidently stabilizes the platters inside, resulting in more accurate tracking in a particular sector during read and write operations and delivers increased performance. (2 TB models and above)

Protecting your moments

The worst thing that can happen during a rendering process is losing data due to power fluctuation or power failure. The new generation of WD Black hard drives is equipped with Corruption Protection Technology (CPT), which helps to protect and limit the potential problem of data loss during power failure or power loss to the hard drive. Overall, Corruption Protection Technology can save you time and money on your project.

Efficient dual processing

When it comes to processing power, more is always better. WD Black features a dual core processor that offers twice the processing power to maximize drive performance. Adding additional value, WD's Dynamic Cache Technology increases performance by improving caching algorithms in real time and optimizing the cache allocation between reads and writes. This results in the drive automatically allocating more cache for read data, which reduces data congestion and increases overall performance.

Industry-leading 5-year limited warranty

Our engineers have a relentless dedication to keeping your data safe. This passion is reflected in the industry-leading 5-year limited warranty we stand behind on all WD Black drives. The evidence for our success lies in our capability to continually deliver next-generation technologies and in our ability to stand behind these products with industry-leading 5-year limited warranty coverage. WD Black is tested to a higher standard than conventional hard drives with more strenuous and aggressive testing over a longer period of time. This is our story of innovation, refinement and passion for performance hard drives.

Product Specifications

INTERFACE
SATA 6 Gb/s

FORM FACTOR
3.5-inch

SPIN SPEED
7200 RPM

CACHE
64 MB

MODELS
WD1003FZEX WD5003AZEX
WD2003FZEX WD1002FAEX
WD3003FZEX WD2002FAEX
WD4003FZEX WD3001FAEX
 WD4001FAEX

CAPACITIES
500 GB
1 TB
2 TB
3 TB
4 TB

LIMITED WARRANTY
5 years

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



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As used for storage capacity, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. 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.