Need storage you can rely on? There's a Western Digital® drive for you

Internal Hard Disk Drive Portfolio

January 2025

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WD Blue® Family

More storage and improved productivity for content and creativity

WD Blue internal hard drives offer robust reliability, and are well-suited for office and web applications. They are designed to bolster creativity and productivity. With high capacity and low lag, these drives are ideal for creative professionals dealing with with large files or anyone seeking a fast, reliable storage solution.

WD Blue 3.5-inch HDDs - Mainstream Performance

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.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Air	8TB	5640	256MB	2 Years	DIY and PC upgrade	WD80EAAZ	718037898346
		6TB	5400	256MB			WD60EZAX	718037898612
		4TB	5400	256MB			WD40EZAX	718037898605
		3TB	5400	256MB			WD30EZAX	718037898599
		2TB	5400	64MB			WD20EARZ	718037900667
		2TB	7200 (SMR)	256MB			WD20EZBX	718037877501
		1TB	5400	64MB			WD10EARZ	718037899831
		1TB	7200	64MB			WD10EZEX	718037779911
		500GB	7200	32MB			WD5000AZLX	718037782881

WD Blue 2.5-inch HDDs - Mainstream Performance

Built to the high standards of quality and reliability of the WD brand, these drives offer the features and capacity ideal for everyday computing needs

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	2.5 inch Air	2TB	5400 (SMR)	128MB	2 Years	DIY and PC upgrade	WD20SPZX	718037847405
		1TB	5400 (SMR)	128MB			WD10SPZX	718037845319
		500GB	5400 (SMR)	128MB			WD5000LPZX	718037845524

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WD_BLACK™ Family

Where performance and capacity meet gaming

WD_BLACK is purpose-built to enhance your PC gaming experience. Available with an impressive 256 MiB of DRAM cache on higher capacity models, the WD_BLACK HDD is performance-optimized so you can spend more time gaming and less time loading. The WD_BLACK HDD gives you fast hard drive speeds, high capacity, and an industry-leading 5-year limited warranty for an inspiring game storage solution.

WD_BLACK 3.5-inch HDDs - Performance Gaming

WD_BLACK hard drives are designed for desktop PC and power users who demand performance, with a variety of upgrade options available.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Air	10TB	7200	256MB	5 Years	Gaming/ Performance	WD101FZBX	718037882420
		8TB	7200	256MB			WD8002FZBX	718037858470
		6TB	7200	256MB			WD6004FZBX	718037896731
		4TB	7200	256MB			WD4006FZBX	718037896717
		2TB	7200	64MB			WD2003FZEX	718037810553
		1TB	7200	64MB			WD1003FZEX	718037786469
		500GB	7200	64MB			WD5003AZEX	718037800233

WD_BLACK 2.5-inch HDDs - Performance Gaming

Sophisticated performance-enhancing features deliver the speed you need for demanding applications like photo and video editing and internet gaming.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	2.5 inch / 9.5mm Air	1TB	7200(SMR)	64MB	5 Years	Gaming/ Performance	WD10SPSX	718037873350
		500GB		64MB			WD5000LPSX	718037873343

WD Red® Family

Reliable, large capacity RAID-ready HDDs specially designed for NAS environments

The WD Red family of internal hard drives make light work of heavy data loads, providing reliable storage solutions that enhance collaboration in high-demand NAS environments. Their robust performance and data management capabilities ensure smooth operations and are an ideal choice for power users, creative professionals and businesses store, share and protect rapidly growing data in their NAS systems.

WD Red Pro - for RAID-optimized NAS systems with unlimited # of bays

Enterprise-class hard drives engineered to deliver high performance and reliability to commercial and enterprise NAS environments.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Bays (up to)	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Helium	24TB	7200	512MB	Unlimited	5 Years	● Multimedia Creative Pros ● Medium to Large Businesses ● Commercial and Enterprise NAS systems	WD240KFGX	718037903088
		22TB	7200	512MB				WD221KFGX	718037893501
		20TB	7200	512MB				WD201KFGX	718037894164
		18TB	7200	512MB				WD181KFGX	718037875729
		16TB	7200	512MB				WD161KFGX	718037877662
		14TB	7200	512MB				WD142KFGX	718037899633
	3.5 inch Air	12TB	7200	512MB				WD122KFBX	718037901282
		10TB	7200	512MB				WD103KFBX	718037877310
		8TB	7200	256MB				WD8005FFBX	718037902838
		6TB	7200	256MB				WD6005FFBX	718037902821
		4TB	7200	256MB				WD4005FFBX	718037902814
		2TB	7200	64 MB				WD2002FFSX	718037835570

WD Red Plus - for RAID-optimized NAS systems with up to 8 bays

Powerful hard drives designed for performance, reliability and power efficiency in small to medium NAS environments.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Bays (up to)	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Air	12TB	7200	256MB	8 Bay	3 Years	● Home Offices and Power Users ● Small to Medium Businesses	WD120EFBX	718037886190
		10TB	7200	256MB				WD101EFBX	718037886206
		8TB	5640	256MB				WD80EFPX	718037899817
		6TB	5400	256MB				WD60EFPX	718037899800
		4TB	5400	256MB				WD40EFPX	718037899794
		2TB	5400	64MB				WD20EFPX	718037899770

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WD Purple® Family

Smart video HDDs designed for 24/7 high-quality recording

The WD Purple family of internal hard drives are built to meet the demands of always-on, 24/7 video recording systems. Trust WD Purple drives when you need to accurately record what the camera sees. Innovative AllFrame™ technology is ready for AI-enabled multi-stream cameras, intelligently guiding video, picture and metadata streams to disk while preserving video data integrity.

WD Purple Pro - Professional Grade Storage for Smart Video Recording and AI Video Analytics

WD Purple Pro delivers ultimate reliability and performance for the most demanding video recording with AI video analytics.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Helium	24TB	7200	512MB	5 Years	Smart Video AI and Deep Learning Servers	WD240PURP	718037903101
		22TB	7200	512MB			WD221PURP	718037893532
		18TB	7200	512MB			WD181PURP	718037889481
		14TB	7200	512MB			WD142PURP	718037899657
	3.5 inch Air	12TB	7200	512MB			WD122PURP	718037901299
		10TB	7200	512MB			WD102PURP	718037901275
		8TB	7200	256MB			WD8002PURP	718037896748

WD Purple - The Reliable Drive for Smart Video Recording

WD Purple drives are the trusted choice for video recording with innovative AllFrame Technology to reduce dropped frames.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Air	8TB	-	256MB	3 Years	Mainstream NVR/Surveillance Systems	WD85PURZ	718037889245
		6TB	-	256MB			WD64PURZ	718037898339
		4TB	-	256MB			WD43PURZ	718037898308
		3TB	-	256MB			WD33PURZ	718037898278
		2TB	-	64MB			WD23PURZ	718037896199
		1TB	-	64MB			WD11PURZ	718037896687

WD Gold®

Enterprise-grade HDDs without compromise for your hybrid cloud architecture

WD Gold internal hard drives incorporate our latest innovations to handle heavy, continuous read-write workloads in the toughest of enterprise and commercial system environments. WD Gold drives provide the utmost in storage performance, reliability, durability, and capacity-point flexibility for small and medium businesses and design professionals whose mission-critical data and creative output are essential to their success.

Interface[1]	Form Factor	Capacity[2]	RPM	Cache[2]	Limited Warranty[3]	Ideal For	Model No.	UPC Code
SATA 6Gb/s	3.5 inch Helium	26TB	7200	512MB	Five-Year Warranty	Enterprise-class storage for all types of design professionals' high-performance workstations, small and medium business servers, and data repatriation and colocation.	WD261KRYZ	718037904948
		24TB	7200	512MB			WD242KRYZ	718037904931
		22TB	7200	512MB			WD221KRYZ	718037893518
		20TB	7200	512MB			WD203KRYZ	718037904665
		18TB	7200	512MB			WD181KRYZ	718037875804
		16TB	7200	512MB			WD161KRYZ	718037872957
		14TB	7200	512MB			WD142KRYZ	718037899886
	3.5 inch Air	12TB	7200	512MB			WD122KRYZ	718037901442
		10TB	7200	512MB			WD103KRYZ	718037901428
		8TB	7200	256MB			WD8005FRYZ	718037899947
		6TB	7200	256MB			WD6004FRYZ	718037899923
		4TB	7200	256MB			WD4004FRYZ	718037899909
		2TB	7200	128MB			WD2005FBYZ	718037847924
		1TB	7200	128MB			WD1005FBYZ	718037820132

Comparison Chart - 3.5-inch HDDs:

3.5"	WD Blue®	WD_BLACK™	WD Red® Plus	WD Red® Pro	WD Purple®	WD Purple® Pro	WD Gold®
Application	Performance	Gaming	NAS SoHo/Small Business	NAS Medium & Large Business	Smart Video 4K NVR	Smart Video AI AI/Deep Learning	Data Center
Capacity[2]	500GB to 8TB	500GB to 10TB	2TB to 12TB	2 to 24TB (CMR)	1 to 8TB	8 to 24TB	1 to 26TB
Disk Cache[2] (up to)	256MB	256MB	512MB	512MB	256MB	512MB	512MB
Interface[1]	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Transfer Rate[4] (up to)	215MB/s	267MB/s	215MB/s	287MB/s	194MB/s	272MB/s	291MB/s
Workload TB/Year	N/A	N/A	180	550	180	550	550
RPM Class	5400/7200	7200	5400/7200	7200	5400 class	7200	7200
MTBF Hours, UBER	N/A, < 1 in 10^{14}	N/A, < 1 in 10^{14}	1 Million, < 1 in 10^{14}	1 Million, < 1 in 10^{15}	1 Million, < 1 in 10^{14}	2.5 Million, < 1 in 10^{15}	2.5 Million, < 1 in 10^{15}
Bays	N/A	N/A	1-8 Bays	Unlimited Bays	16 Bays	Unlimited	Unlimited
Features	-	Dynamic Cache	NASware™	NASware™	AllFrame™ Technology	AllFrame™ Technology	Vibration Protection
Limited Warranty (Years)[3]	2	5	3	5	3	5	5

Comparison Chart - 2.5-inch HDDs:

2.5"	WD Blue®	WD_BLACK™
Capacity[2]	500GB to 2TB	500 to 1TB
Disk Cache[2] (up to)	128MB	64MB
Interface[1]	SATA 6Gb/s	SATA 6Gb/s
Transfer Rate[5] (up to)	150MB/s	227MB/s
Workload TB/Year	N/A	N/A
RPM Class	5400 (2TB 7200)	7200
MTBF Hours, UBER	N/A, < 1 in 10^{14}	N/A, < 1 in 10^{14}
Power (Active/Idle/Standby)	1.7/0.5/0.1 W	2.0/.85/.25 W
Features	-	-
Limited Warranty (Years)[3]	2	5

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[1] SATA III 6Gb/s - Backwards compatible to SATA II and I
[2] 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = one trillion bytes. Actual user capacity may be less depending on operating environment.
[3] See support.wdc.com/warranty for regional specific warranty details.
[4] 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; IOPS = input/output operations per second. Performance will vary depending on your hardware and software components and configurations

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