

Specifications

	8TB	6TB	6TB	6TB	4TB
Model Number¹	WD86PURZ	WD63PURZ	WD62PURZ	WD60PURZ	WD42PURZ
Formatted capacity²	8TB	6TB	6TB	6TB	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
Recording Technology	CMR	CMR	CMR	CMR	CMR
RoHS compliant³	Yes	Yes	Yes	Yes	Yes
Product Features					
Cameras supported^{3b}	Up to 64 HD ^a	Up to 64 HD ^a	Up to 64 HD ^a	Up to 64 HD ^a	Up to 64 HD ^a
Drive Bays Supported	16	16	16	16	16
AI Streams	16	16	16	16	16
Firmware Feature Name	AllFrame	AllFrame	AllFrame	AllFrame	AllFrame
Tarnish resistant components	Yes	Yes	Yes	Yes	Yes
Performance					
Interface transfer rate (max)⁴					
Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Host to/from drive (sustained)	194 MB/s	175 MB/s	185 MB/s	175 MB/s	175 MB/s
Cache (MB)⁵	128	256	128	64	256
Reliability/Data Integrity					
Load/unload cycles⁶	300,000	300,000	300,000	300,000	300,000
Annualized workload rating⁷	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
MTBF	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Limited warranty (years)⁸	3	3	3	3	3
Power Management⁹					
Average power requirements (W)					
Read/Write	6.2	4.6	6.2	5.3	4.6
Idle	5.5	3.7	5.5	4.9	3.7
Standby and Sleep	0.4	0.3	0.4	0.4	0.3
Environmental Specifications¹⁰					
Temperature (°C, on the base casting)					
Operating¹¹	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (G)					
Operating (2 ms, read/write)	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	250
Acoustics (dBA)¹²					
Idle	25	23	25	25	23
Seek (average)	30	27	30	28	27
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, ± 10%)	1.58/0.72	1.26/0.57	1.58/0.72	1.65/0.75	1.26/0.57

¹ MTBF specifications are based upon internal testing using a 10°C base casting temperature. MTBF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTBF does not predict an individual drive's reliability and does not constitute a warranty.

² For capacities 6TB and higher.

³ Not all products may be available in all regions of the world.

⁴ As used for storage capacity, one gigabyte (GiB) = one billion bytes and one terabyte (TiB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MiB) = 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 6 Gb/s transfer rate is 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 for details.

⁵ WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

⁶ Controlled unload at ambient condition.

⁷ Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred ÷ 8760 / recorded power-on hours). Workload Rate will vary depending on your hardware and software components and configurations.

⁸ See support.wdc.com/warranty for regional specific warranty details.

⁹ Power measurements at room-ambient temperature.

¹⁰ No non-recoverable errors during operating tests or after non-operating tests.

¹¹ On the base casting.

¹² Sound power level.

^a TB through 8TB support up to eight bays; 4TB and above support up to 16 bays.

^b Single stream at 3.2Mbps (1080p, H.265, 25 fps). Results may vary depending on camera resolution, file format, frames per second, software, system settings, video quality, and other factors.