

WD Ultrastar DC HC580 WUH722424ALE6L4 - hard drive - 24 TB - SATA 6Gb/s(0F62796)

WD Ultrastar DC HC580 WUH722424ALE6L4 - Hard drive - 24 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



The Western Digital Ultrastar DC HC580 hard drive combines high-capacity storage and innovative technology to meet the demands of data-intensive applications. With a 24 TB capacity, it offers ample space for large datasets and high-resolution video storage. Designed for continuous operation, it boasts a MTBF of 2,500,000 hours, ensuring durability and reliability in demanding environments. This hard drive features technologies such as ArmorCache, Energy-Assisted Magnetic Recording (EAMR), and HelioSeal, which contribute to improved data integrity, increased storage density, and reduced power consumption. The inclusion of a 512 MB buffer and a 7200 rpm spindle speed enables fast and reliable data access, making it an ideal solution for high-demand systems. Furthermore, its robust design, incorporating Triple State Actuator (TSA) and OptiNAND technology, ensures precise performance and data safety, even in environments subject to shock and vibration.

Key Selling Points

- 24 TB capacity for extensive storage needs
- 7200 rpm spindle speed and 512 MB buffer for high-speed data access
- Designed for continuous operation with a 2,500,000 hours MTBF
- Incorporates ArmorCache and HelioSeal technologies for improved efficiency
- Supports advanced format 4Kn and 512e for enhanced data integrity

Product Features

Enhanced durability

Designed for continuous operation and a massive 2,500,000 hours MTBF, this hard drive ensures reliability and durability in demanding work environments, making it an ideal choice for continuous use.

High-capacity storage

With a generous 24 TB capacity, this hard drive meets the needs of data-intensive applications, offering ample space for large datasets, high-resolution video storage, and extensive software libraries.

Innovative technology

Featuring ArmorCache, Energy-Assisted Magnetic Recording (EAMR), and HelioSeal technologies, this hard drive offers improved data integrity, increased storage density, and reduced power consumption, enhancing overall efficiency.

Optimized performance

The combination of a 512 MB buffer size, 7200 rpm spindle speed, and a data transfer rate of 600 MBps enables fast and reliable access to data, ensuring smooth and efficient operation in high-demand systems.

Robust design

Equipped with Triple State Actuator (TSA) and OptiNAND technology, this hard drive delivers precise and stable performance, even in environments subject to shock and vibration, ensuring data safety and integrity.

Main Specifications

Product Description	WD Ultrastar DC HC580 WUH722424ALE6L4 - hard drive - 24 TB - SATA 6Gb/s
Type	Hard drive - internal
Capacity	24 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Features	HelioSeal, advanced format 512e, advanced format 4Kn, OptiNAND technology, ArmorCache Technology, 24x7 availability, Energy-Assisted Magnetic Recording (EAMR), Triple State Actuator (TSA), Conventional magnetic recording (CMR), Massive Scale Out (MSO)

Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	670 g
Manufacturer Warranty	5-year warranty

Extended Specification

General

Device Type	Hard drive - internal
Capacity	24 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	HelioSeal, advanced format 512e, advanced format 4Kn, OptiNAND technology, ArmorCache Technology, 24x7 availability, Energy-Assisted Magnetic Recording (EAMR), Triple State Actuator (TSA), Conventional magnetic recording (CMR), Massive Scale Out (MSO)
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	670 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Power

Power Consumption	8.5 Watt (random read/write) 5.5 Watt (idle)
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Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	60 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Shock Tolerance (operating)	40 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	200 g @ half-sine wave
Vibration Tolerance (operating)	0.7 gRMS @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 gRMS @ 2-200 Hz

Performance

Drive Transfer Rate	600 MBps (external)
Internal Data Rate	298 MBps
Average Latency	4.16 ms
Spindle Speed	7200 rpm

Reliability

MTBF	2,500,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	1 per 10 ¹⁵
Load / Unload Cycles	600,000

Expansion & Connectivity

Interfaces	1 x SATA 6 Gb/s
Compatible Bay	3.5"

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet