

WD Ultrastar DC HC555 (0B47747)

WD Ultrastar DC HC555 - Hard drive - Data Centre - 18 TB - internal - 3.5" - SAS 12Gb/s - 7200 rpm - buffer: 512 MB



The WD Ultrastar DC HC555 is designed for data centers requiring large storage capacities and reliable performance. With an 18 TB capacity, this internal hard drive supports 24x7 continuous operation, making it suitable for high-demand environments. Its advanced features include Dynamic fly height technology and Energy-assisted PMR, ensuring efficient data handling for various applications. Operating within a temperature range of 5°C to 60°C, this drive promotes durability and longevity. The low sound emission of 32 dBA allows for quieter operations, while its robust spindle speed of 7200 rpm and data transfer rate of 1.2 GBps enhance performance. Engineered with a focus on data integrity, the WD Ultrastar DC HC555 features a Rotational Vibration sensor and Triple State Actuator technology, making it a reliable choice for modern data storage needs.

Key Selling Points

- 18 TB capacity for extensive data storage
- 24x7 continuous operation designed for demanding environments
- Dynamic fly height technology enhances performance
- Low sound emission of 32 dBA for quieter operation
- MTBF of 2,500,000 hours ensures reliability

Product Features

- Robust performance**
With a spindle speed of 7200 rpm and data transfer rate of 1.2 GBps, the WD Ultrastar DC HC555 ensures efficiency for reading and writing tasks, optimizing workflow for data-intensive applications.
- Extensive capacity**
Offering 18 TB of storage, this hard drive accommodates essential data and applications, making it suitable for data centers and businesses with growing data needs.
- Durable design**
Built to endure operational stresses, this drive features shock and vibration tolerances that protect data integrity in dynamic environments.
- Advanced technology**
Incorporating features like Energy-assisted PMR and Rotational Vibration sensors, the drive optimizes performance while mitigating risks associated with heat and mechanical stress.
- Environmental adaptability**
The WD Ultrastar DC HC555 performs effectively across a temperature range from 5°C to 60°C, ensuring reliability in various operational settings.

Main specifications

Product Description	WD Ultrastar DC HC555 - hard drive - Data Centre - 18 TB - SAS 12Gb/s
Type	Hard drive - internal
Capacity	18 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Data Transfer Rate	1.2 GBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Drive Class	Data Centre
Features	Advanced format 512e, advanced format 4Kn, 24x7 continuous operation, Triple State Actuator (TSA), Dynamic fly height technology, HelioSeal, Rotational Vibration (RV) sensor, Conventional magnetic recording (CMR), Energy-assisted PMR (ePMR)
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	690 g
Manufacturer Warranty	5-year warranty

Extended specification

General

Device Type	Hard drive - internal
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Capacity	18 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Buffer Size	512 MB
Features	Advanced format 512e, advanced format 4Kn, 24x7 continuous operation, Triple State Actuator (TSA), Dynamic fly height technology, HelioSeal, Rotational Vibration (RV) sensor, Conventional magnetic recording (CMR), Energy-assisted PMR (ePMR)
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	690 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	BSMI, ICES-003, NMB-003, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB Scheme, TUV, UL, Directive 2015/863, EU Directive 2011/65/EU
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Power

Power Consumption	9.2 watt (typical) 5.7 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)	50 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	250 g @ half-sine wave
Vibration Tolerance (operating)	0.67 g @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 g @ 2-200 Hz
Sound Emission	32 dBA

Performance

Drive Class	Data Centre
Drive Transfer Rate	1.2 GBps (external)
Internal Data Rate	269 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

Software & System Requirements

OS Required	Microsoft Windows, Linux, Microsoft Windows Server
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Expansion & Connectivity

<i>Interfaces</i>	<i>1 x SAS 12 Gb/s</i>
<i>Compatible Bay</i>	<i>3.5"</i>

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