



### Features

- Up to 60 Ultrastar HDDs (SAS or SATA)
- Up to 1.2PB of raw storage in 4U with 20TB HDDs
- Up to 4 units may be daisy-chained for a total raw capacity of 4.8PB
- Dual-port SAS for high availability or single-port SATA for low cost
- 4 rack units height, 712mm depth
- Up to 12 × 12Gb/s SAS-3 host connections
- Patented IsoVibe technology ensures maximum performance even in heavy workloads
- Enterprise-grade redundant and hot-swappable PSUs, IO Modules and fans
- Improved cooling from innovative ArcticFlow technology
- Rack-mounted top cover for quick and easy service
- 5-year limited warranty

## Ultrastar® Data60 60-Bay Storage Platform

The Next Generation Platform for Software-Defined Storage

### Designed for High Density and Flexibility

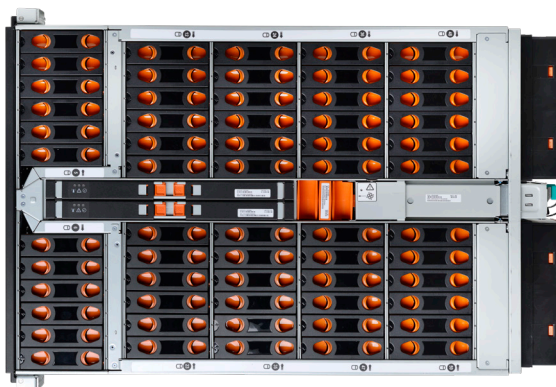
The Ultrastar Data60 is a key element of next-generation disaggregated storage and software-defined storage (SDS) systems, delivering high density and the flexibility to balance performance with cost. The Ultrastar Data60 provides up to 1.2PB<sup>1</sup> of raw storage using our 20TB HDDs in a compact and efficient form factor. Western Digital HelioSeal® drives ensure cool running, quiet operation and high reliability.

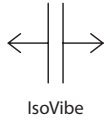
### Building on 50+ Years of Storage Design Experience

Conventional dense disk shelves frequently suffer from performance degradation due to induced vibration from adjacent drives. Traditional platforms also have cooling challenges as the cooling air passes over successive rows of drives, losing effectiveness as it gets heated up along the airflow path. Developing storage devices and platforms side-by-side, we address these challenges through Silicon to Systems Design, a set of technologies developed based on a holistic view of devices, platform, and their interactions. The first two of these innovative technologies are IsoVibe™ and ArcticFlow™. IsoVibe reduces vibration-induced performance degradation, while ArcticFlow overcomes the cooling issues by introducing cool air into the middle of the platform. Both these technologies contribute to long-term reliability, enabling our five-year limited warranty on the entire platform.

### Designed for the Enterprise and the Cloud

This platform addresses the demanding storage needs of large enterprise customers, storage OEMs, cloud service providers and resellers/integrators that require dense, shared HDD storage. The Ultrastar Data60 provides the flexibility to specify the HDD combinations to balance capacity, performance and cost.





IsoVibe

## IsoVibe Patented Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drives are working hard.



ArcticFlow

## ArcticFlow Innovative Thermal Zone Cooling Technology

By introducing cool air into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This results in lower fan speeds, reduced vibration, lower power consumption, quieter operation and ultimately higher reliability.



Resource Manager

## Western Digital Resource Manager

A GUI-based tool that enables real-time monitoring and management of the platform and provides a consolidated dashboard displaying the most critical information. Other views allow platform configuration, health monitoring and maintenance.

<b>Max. Drives</b>	<ul style="list-style-type: none"> <li>• 60 × 3.5" drive bays</li> </ul>
<b>Drive Interface</b>	<ul style="list-style-type: none"> <li>• 12Gb/s SAS</li> <li>• 6Gb/s SATA</li> </ul>
<b>Available Drive Capacities</b>	<ul style="list-style-type: none"> <li>• HDD up to 20TB CMR or up to 20TB SMR</li> </ul>
<b>Host Interface</b>	<ul style="list-style-type: none"> <li>• Dual redundant I/O Modules (IOM),</li> <li>• 6 Mini-SAS HD ports per IOM</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• Product without drives: 27.3kg (60lbs)</li> <li>• Product with 60 HDDs: 79.4kg (175lbs)</li> </ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• Front/Rear: Power, ID, Fault</li> <li>• Drive: Activity, Fault</li> </ul>
<b>Physical Dimensions</b>	<ul style="list-style-type: none"> <li>• Height: 175mm (6.89")</li> <li>• Width: 447mm (17.61")</li> <li>• Depth: 712mm (28.03")</li> <li>• Depth in Rack: Max of 890mm (35.04") w/dual CMA—includes 24 SAS cables</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• SCSI Enclosure Services</li> <li>• Redfish (out of band, via RJ45)</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>• Dual 1600W or 1800W, 80+ Platinum</li> <li>• 200–240V AC input, auto ranging, 50–60Hz</li> </ul>
<b>Cooling</b>	<ul style="list-style-type: none"> <li>• 4 main enclosure fans, front-to-rear system cooling with zero-loss backflow prevention</li> <li>• 1 IO module fan</li> <li>• Dual PSUs with built-in fans</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 5°C to 35°C</li> <li>• Non-op Temperature: -40 to 70°C</li> <li>• Humidity: 5 to 85% relative humidity</li> <li>• Operating Altitude: -300m to 3048m (-984 ft to 10,000 ft)</li> <li>• Sound Power: &lt; 7.2Bels @ 23±2°C</li> </ul>
<b>Serviceability</b>	Cable-free hot-swappable IOM, power supply, fans and drives

<sup>1</sup> One terabyte (TB) is equal to one trillion bytes and one petabyte (PB) is equal to 1,000TB. Actual user capacity may be less due to operating environment.

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