DashDrive Elite HE720 USB 3.0 External Hard Drive

Product Review Guide

September 2012

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Introduction

This performance guide contains information on the new DashDrive™ Elite HE720 USB 3.0 external hard drive, including product features and descriptions, and benchmark results.

Product images can be downloaded from
http://www.adata-group.com/index.php?action=bs_main&page=bs_content_product_pictures_detail&ProductID=195&flag=

Please refer to this guide prior to and during testing, and feel free to use this content when composing review articles.

If you encounter any problems during the testing process, or if you have questions regarding the test results, please contact us via email using the contact information found at the end of the guide.

威剛科技股份有限公司　235新北市中和區連城路258號2樓
ADATA Technology Co., Ltd.　Tel：+886-2-8228-0886　Fax：+886-2-8228-0887　2F, No. 258, Lian Cheng Rd., Chung Ho Dist., New Taipei City 235, Taiwan (R.O.C.)

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Product Highlights

The DashDrive Elite HE720 external hard drive sports a brushed stainless steel surface with a SuperSpeed USB 3.0 interface, and with a record-breaking slim profile of only 8.9mm thickness, demonstrating ADATA's consistently strong ability to combine top performance with style. This product targets the generation whose active lifestyles call for elegant and high-end product design.

- The slimmest external hard drive in the world
    - The HE720 sports a record-breaking slim profile of only 8.9mm thickness, combining top performance with sleek style.
- Elegant texture with hairline finish
    - The brushed stainless steel case with protective layer provides 9H scratch resistance, which prevents damage and marring even after long-term use.
- One-touch backup
    - With one easy touch, all data can be automatically backed up and synchronized.
- Bright blue LED indicator
    - The HE720 features a bright blue LED indicator that shines through the enclosure to indicate power and data transfer status.
- SuperSpeed USB 3.0 performance
    - The HE720 is equipped with a SuperSpeed USB 3.0 transfer interface, nearly three times faster than USB 2.0.
- 500GB capacity
    - Delivers a robust capacity of 500 gigabytes in a remarkably compact 8.9mm thickness.

Specifications

1. Device Interface: USB 3.0 (backward compatible with USB 2.0)
2. HDD Interface: 2.5" SATA II
3. Capacity: 500GB
4. Bright blue LED to show transfer status
5. Dimensions: 117 x 79 x 8.9mm (4.6 x 3.1 x 0.4in)

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6. Weight: 164g (0.4lb)

7. System Compatibility: Windows XP, Windows Vista, Windows 7

                                           Mac OS X 10.6 or later
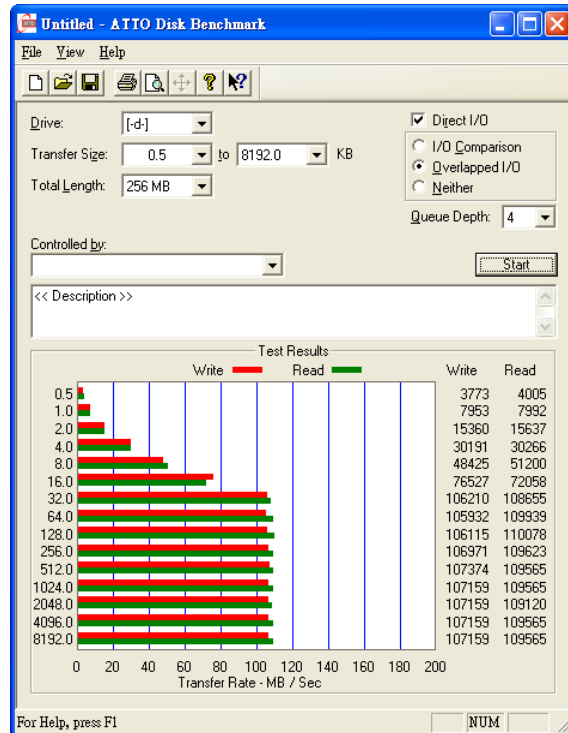
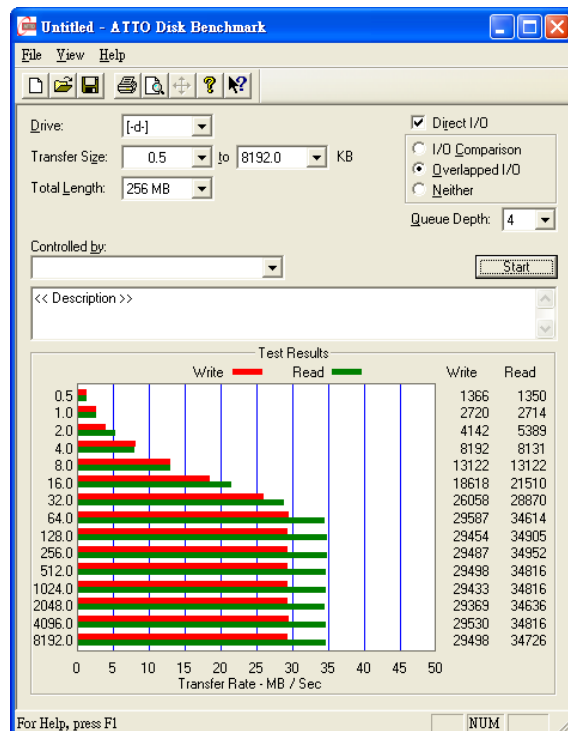   Linux Kernel 2.6 or later

8. Warranty: 3 years

9. Temperature: Operating 5ºC~50ºC; Storage -40ºC~60ºC

Points of Interests

1. The HE720 external hard drive is a strong addition to ADATA's top tier external storage products. It is one of the most advanced products in terms of performance and design, and offers an elegant brushed stainless steel case. It comes in capacity of 500GB, and features ADATA's popular "one touch backup" feature, which automatically backs up and synchronizes data with one easy touch.

2. In terms of real world data transfer performance, a 7.98GB file is transferred between the HE720 to a desktop computer via USB 3.0 interface to the read/write speed. Based on the results of ATTO Disk Benchmark, the write speed can reach 107 MB/s, while the read speed can reach 109 MB/s.

Untitled - ATTO Disk Benchmark

Drive: [-d-]
Transfer Size: 0.5 to 8192.0 KB
Total Length: 256 MB
Direct I/O
Overlapped I/O
Queue Depth: 4

Test Results

	Write	Read
0.5	3773	4005
1.0	7953	7992
2.0	15360	15637
4.0	30191	30266
8.0	48425	51200
16.0	76527	72058
32.0	106210	108655
64.0	105932	109939
128.0	106115	110078
256.0	106971	109623
512.0	107374	109565
1024.0	107159	109565
2048.0	107159	109120
4096.0	107159	109565
8192.0	107159	109565

Transfer Rate - MB / Sec

3. Comparing to USB 2.0, in which speeds max out at around 34MB/s on the same platform, the HE720 is able to perform three times better than conventional portable hard drives with a USB 2.0 interface.

** Test software: ATTO

** Test product: ADATA HE720

** Test platform: MB→X58A-UD3R

          CPU→Core i7-920

          RAM→DDR3-1333 2GBx3

** Note: Test results will vary according to hard drive and test platform.

Untitled - ATTO Disk Benchmark

Drive: [-d-]
Transfer Size: 0.5 to 8192.0 KB
Total Length: 256 MB
Direct I/O
Overlapped I/O
Queue Depth: 4

Test Results

	Write	Read
0.5	1366	1350
1.0	2720	2714
2.0	4142	5389
4.0	8192	8131
8.0	13122	13122
16.0	18618	21510
32.0	26058	28870
64.0	29587	34614
128.0	29454	34905
256.0	29487	34952
512.0	29498	34816
1024.0	29433	34816
2048.0	29369	34636
4096.0	29530	34816
8192.0	29498	34726

Transfer Rate - MB / Sec

Remarks

The DashDrive Elite HE720 external hard drive is a USB 3.0 compatible device that is the world's thinnest of its kind. It features a brushed stainless steel surface, a bright blue LED indicator to indicate power and data transfer status, and the very practical "One touch backup" function, which automatically backs up and synchronizes data with one easy touch.

Contact Information

If you have additional questions that are not answered by this guide, or if you experience technical difficulties with your ADATA product, please contact:

Jessica Yin
ADATA Technology Co., Ltd.
Marketing Department
Tel: +886-2-82280886 ext. 12989
Fax: +886-2-82271760
E-mail: jessica_yin@adata.com.tw