

# Archive HDD

**Data Sheet** 

### Supersized capacity, energy efficiency and lowest TCO

- Seagate brings over 30 years of trusted storage reliability to the growing need for online long-term storage.
- Industry's best cost/GB/watt 8TB hard drive.
- Engineered for 24×7 workloads of 180TB per year.
- Drive down costs with up to 1.33TB-per-disk hard drive technology.
- SATA 6Gb/s interface optimises burst performance.
- Seagate AcuTrac™ servo technology delivers dependable performance.
- Free Seagate DiskWizard™ software allows you to install 5TB, 6TB and 8TB hard drives in Windows without UEFI BIOS.
- Seagate Secure<sup>™</sup> models provide hardware-based data security and deliver an Instant Secure Erase feature for safe, fast and easy drive retirement.<sup>1</sup>
- Seagate Secure models meet the NIST 800-88 media sanitisation specification and also support the Trusted Computing Group (TCG) standards.<sup>1</sup>

#### Best-Fit Applications<sup>2</sup>

- Cost-effective online archiving
- Object storage
- Big Data cold storage
- Cloud active archive
- Web-scale archiving

<sup>2</sup> Archive HDDs are not intended for surveillance or NAS applications, and you may experience lower performance in these environments. For these applications, Seagate NAS HDDs and Seagate Surveillance HDDs are suggested for better performance and reliability.



<sup>&</sup>lt;sup>1</sup> Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.

## **Archive HDD**



| Specifications                                       | 8TB <sup>1</sup>       | 6TB <sup>1</sup>       | 5TB <sup>1</sup>       |
|--|------------------------|------------------------|------------------------|
| Product Version                                      | Archive HDD v2         | Archive HDD v2         | Archive HDD            |
| Standard Model Numbers                               | ST8000AS0002           | ST6000AS0002           | ST5000AS0011           |
| Seagate Secure™ Model Numbers                        | ST8000AS0012           | ST6000AS0012           | ST5000AS0001           |
| Interface Options                                    | SATA 6Gb/s NCQ         | SATA 6Gb/s NCQ         | SATA 6Gb/s NCQ         |
| Performance  |                        |                        |                        |
| Cache, Multi-segmented (MB)                          | 128                    | 128                    | 128                    |
| SATA Transfer Rates Supported (Gb/s)                 | 6.0/3.0/1.5            | 6.0/3.0/1.5            | 6.0/3.0/1.5            |
| Average Data Rate, Read/Write (MB/s)                 | 150                    | 150                    | 146                    |
| Max Sustained Data Rate, OD Read (MB/s)              | 190                    | 190                    | 180                    |
| Configuration/Organisation                           |                        |                        |                        |
| Heads/Discs  | 12/6                   | 12/6                   | 8/4                    |
| Bytes per Sector                                     | 4,096                  | 4,096                  | 4,096                  |
| SMR Technology, Drive-Managed                        | Yes                    | Yes                    | Yes                    |
| Voltage  |                        |                        |                        |
| Voltage Tolerance, Inc. Noise (5V)                   | ±5%                    | ±5%                    | ±5%                    |
| . , ,  |                        |                        |                        |
| Voltage Tolerance, Inc. Noise (12V)                  | ±10%                   | ±10%                   | ±10%                   |
| Reliability/Data Integrity                           | 000.000                | 000.000                | 200 200                |
| Load/Unload Cycles                                   | 300,000                | 300,000                | 300,000                |
| Non-recoverable Read Errors per Bits Read, Max       | 1 per 10 <sup>14</sup> | 1 per 10 <sup>14</sup> | 1 per 10 <sup>14</sup> |
| Workload Rate Limit (TB/year)                        | 180                    | 180                    | 180                    |
| Power-on Hours                                       | 8,760 (24×7)           | 8,760 (24×7)           | 8,760 (24×7)           |
| Mean Time Between Failures (MTBF) (hours)            | 800K                   | 800K                   | 800K                   |
| Limited Warranty (years) <sup>2</sup>                | 3                      | 3                      | 3                      |
| Power Management                                     |                        |                        |                        |
| Startup Power (A)                                    | 2.0                    | 2.0                    | 2.0                    |
| Operating Mode, Typical (W)                          | 7.5                    | 7.5                    | 5.5                    |
| Idle Average (W) <sup>3</sup>                        | 5.0                    | 5.0                    | 3.5                    |
| Standby Mode (W)                                     | <1.0                   | <1.0                   | <0.75                  |
| Sleep Mode (W)                                       | <1.0                   | <1.0                   | <0.75                  |
| Environmental  |                        |                        |                        |
| Temperature  |                        |                        |                        |
| Operating (ambient min °C)                           | 0                      | 0                      | 0                      |
| Operating (drive case max °C)                        | 60                     | 60                     | 60                     |
| Non-operating (ambient °C)                           | -40 to 70              | -40 to 70              | -40 to 70              |
| Halogen-free   | Yes                    | Yes                    | Yes                    |
| RoHS compliance                                      | Yes                    | Yes                    | Yes                    |
| Physical   |                        |                        |                        |
| Height (mm/in)                                       | 26.11/1.028            | 26.11/1.028            | 26.11/1.028            |
| Width (mm/in)  | 101.6/4.0              | 101.6/4.0              | 101.6/4.0              |
| Depth (mm/in)  | 146.99/5.787           | 146.99/5.787           | 146.99/5.787           |
| Weight (g/lb)  | 780/1.72               | 780/1.72               | 655/1.444              |
| Carton Unit Quantity                                 | 20                     | 20                     | 20                     |
| Cartons per Pallet                                   | 40                     | 40                     | 40                     |
| Cartons per Layer                                    | 8                      | 8                      | 8                      |
| Special Features                                     |                        |                        |                        |
| Seagate AcuTrac <sup>™</sup> Technology              | Yes                    | Yes                    | Yes                    |
| In-Drive Diagnostics (IDD)                           | Yes                    | Yes                    | Yes                    |
| Seagate PowerChoice™ Technology                      | Yes                    | Yes                    | _                      |
| Deferred SATA Activation                             | Yes                    | Yes                    | Yes                    |
| Timestamp  | Yes                    | Yes                    | Yes                    |
| Seagate Instant Secure Erase                         | Optional               | Optional               | Optional               |
| SeaTools™ Diagnostic Software                        | Yes                    | Yes                    | Yes                    |
| SMART Drive Monitoring and Reporting                 | Yes                    | Yes                    | Yes                    |
| Hotplug Operation (per SATA Rev. 3.0 Specifications) | Yes                    | Yes                    | Yes                    |
| Enterprise CS Phone Support                          | Yes                    | Yes                    | Yes                    |
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One gigabyte, or GB, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

Extended warranty products available. Consult your distributor for details.

During periods of drive idle, some offline activity may occur according to the S.M.A.R.T. specification, which may increase acoustic and power to operational levels. Consult the product manual for more information.