

# 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 24x7 workloads of 180TB per year
- Drive down costs with up to 1.33TB-per-disk hard drive technology.
- SATA 6Gb/s interface optimizes 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™ 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 sanitization 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>1</sup> Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.

<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.



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
<b>Performance</b>			
Cache, Multisegmented (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
<b>Configuration/Organization</b>			
Heads/Disks	12/6	12/6	8/4
Sector (Media/Format)	4096/512E	4096/512E	4096/512E
SMR Technology, Drive-Managed	Yes	Yes	Yes
<b>Voltage</b>			
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%
<b>Reliability/Data Integrity</b>			
Load/Unload Cycles	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Workload Rate Limit (TB/year)	180	180	180
Power-On Hours	8760 (24×7)	8760 (24×7)	8760 (24×7)
Mean Time Between Failures (MTBF) (hours)	800K	800K	800K
Limited Warranty (years) <sup>2</sup>	3	3	3
<b>Power Management</b>			
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
<b>Environmental</b>			
Temperature			
Operating (ambient min °C)	0	0	0
Operating (drive case max °C)	60	60	60
Nonoperating (ambient °C)	-40 to 70	-40 to 70	-40 to 70
Halogen Free	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes
<b>Physical</b>			
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
<b>Special Features</b>			
Seagate AcuTrac™ 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
S.M.A.R.T. 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

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

2 Extended warranty products available. Consult your distributor for details.

3 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.



[www.seagate.com](http://www.seagate.com)

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