



Data Sheet

SV35 Series[™]

High-performance, high-capacity drives for surveillance digital video recording

2TB, 1TB and 500GB • SATA 6Gb/s

Key Advantages

- The SATA 6Gb/s interface provides access to the newest and fastest hard drive controllers as well as legacy SATA 1.5Gb/s and 3Gb/s controllers.
- Leading areal densities deliver 2TB, 1TB and 500GB capacities on 3-, 2and 1-disk platforms, boosting performance and enhancing reliability with a smaller mechanical part count.
- Spin-up is current-limited at 2A to allow the use of the most energyefficient and cool-running power supplies.
- Available ATA-7 streaming commands optimize error correction and performance for either video or metadata content.
- Available temperature reporting and recording functions allow for monitoring and control of system temperature to further optimize reliability and performance.
- Spin control features enable power-on in standby mode or drive spin-down capability to save power and improve reliability.
- Designed for 24×7 operation with predicted MTBF of 1M hours and backed by the Seagate® 5-Year Limited Warranty

Best-Fit Applications

- Surveillance digital video recorders (DVR)
- Network surveillance video recorders (NVR)
- Direct- and network-attached JBOD surveillance systems









SV35 Series[™]

High-performance, high-capacity drives for surveillance digital video recording



The need for high-capacity, high-performance and reliable storage for modern video surveillance systems has never been greater. Seagate responds with the sixth-generation SV35 Series™ hard drives. Tailored for the unique needs of surveillance system designers, SV35 Series drives offer performance and fine-tuning, all backed by a 5-year limited warranty.

Capacity

2TB, 1TB and 500GB capacities offer the industry's largest selection of high-capacity hard drives optimized for surveillance.

Performance

SV35 Series drives are built on a platform leveraging leading areal densities to deliver fast data transfer rates to support many concurrent video surveillance cameras. Combined with surveillance-optimized firmware and the new SATA 6Gb/s interface, SV35 Series drives provide the storage power, performance and reliability to meet the needs of modern video surveillance systems.

Feature-Rich

SV35 Series drives offer an array of features that give surveillance system developers the best capabilities to fine-tune their storage solution by optimizing and managing power, monitoring and managing temperature, and targeting data delivery for video or metadata packets. An Advanced Format 4K sector hard drive is offered in the 2TB capacity.

Reliability

Backed by the Seagate[®] 5-Year Limited Warranty and designed to operate under 24×7 workloads, surveillance engineers can be sure that SV35 Series drives will measure up to their expectations.

2TB1	1TB¹	500GB ¹
ST2000VX002	ST31000526SV	ST3500411SV
SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ
5900	7200	7200
64	32	16
6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5
<17	<10	<10
144	140	140
6/3	4/2	2/1
4096	512	512
±5%	±5%	±5%
±10%	±10%	±10%
_	50,000	50,000
300,000	_	_
1 per 10E14	1 per 10E14	1 per 10E14
<1%	<1%	<1%
>1M	>1M	>1M
8760	8760	8760
5	5	5
2	2	2
5.8	7.0	7.0
0.5	1.0	1.0
0.5	1.0	1.0
0 70 -40	0 70 -40	0 70 –40 70
70	70	70
26 11/1 028	26 11/1 028	19.98/0.787
		101.6/4.0
	-	-
635/1.39	677/1.493	146.99/5.787 544/1.199
	ST2000VX002 SATA 6Gb/s NCQ 5900 64 6.0/3.0/1.5 <17 144 6/3 4096 ±5% ±10% 300,000 1 per 10E14 <1% >1M 8760 5 2 5.8 0.5 0.5 0.5 0.5 0.70 -40 70 26.11/1.028 101.6/4.0 147.00/5.78	ST2000VX002 ST31000526SV SATA 6Gb/s NCQ SATA 6Gb/s NCQ 5900 7200 64 32 6.0/3.0/1.5 <.10 144 140 6/3 4/2 4096 512 ±5% ±5% ±10% ±10% — 50,000 300,000 — 1 per 10E14 <1% <1% >>1M 8760 8760 5 2 2 2 5.8 7.0 0.5 1.0 0.5 1.0 0 0 70 70 70 70 70 70 70 26.11/1.028 26.11/1.028 101.6/4.0 101.6/4.0 147.00/5.78 146.99/5.787

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

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