

Data Sheet

SV35 Series™

Surveillance-Optimised Storage

- The industry's only surveillance-optimised hard drive platform with 1TB, 2TB and 3TB capacity options
- A hard drive series tested and tuned for the high write-cycle workloads typical in video surveillance storage systems
- 24×7 operational capabilities while maintaining high MTBF of 1M hours
- Performance driven by a 7,200 RPM base platform, with 64MB DDR2 DRAM and optimised write caching surveillance algorithms
- 1TB-per-disc technology takes your surveillance storage further with lower cost/GB to support HD resolutions, enhanced performance and best-in-class support
- Seagate AcuTrac™ servo technology provides accurate read-write operation even in challenging operating environments
- 2A current-limited startup to support the use of embedded system power supplies
- Spin control features enable power-on in standby mode or drive spin-down to conserve power and improve reliability during archival periods

Best-fit Applications

- NVR
- Embedded SDVR
- Hybrid SDVR
- PC-based SDVR



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Specifications	3TB ¹	2TB ¹	1TB ¹
Model Number	ST3000VX000	ST2000VX000	ST1000VX000
Interface Options	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ
Performance			
Spindle Speed (RPM)	7,200	7,200	7,200
Cache, Multi-segmented (MB)	64	64	64
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5
Seek Average, Read (ms)	<8.5	<8.5	<8.5
Seek Average, Write (ms)	<9.5	<9.5	<9.5
Average Data Rate, read/write (MB/s)	156	156	156
Max Sustained Data Rate, OD read, (MB/s)	210	210	210
Configuration/Organisation			
Heads/Discs	6/3	6/3	2/1
Bytes per Sector	4,096	4,096	4,096
Voltage			
Voltage Tolerance, Including Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Including Noise (12V)	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%
Reliability/Data Integrity			
Load/Unload Cycles	300,000	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴
MTBF (hours)	1M	1M	1M
Annualised Failure Rate (AFR)	<1%	<1%	<1%
Power-on Hours	8,760	8,760	8,760
Power Management			
Startup Power (A)	2.0	2.0	2.0
Operating Mode, Typical (W)	8.0	8.0	5.90
Idling2 Average (W)	5.40	5.40	3.36
Standby Mode (W)	0.75	0.75	0.63
Sleep Mode (W)	0.75	0.75	0.63
Environmental			
Temperature			
Operating (ambient, min °C)	0	0	0
Operating (drive case, max °C)	60	60	60
Non-operating (ambient, min °C)	–40	–40	–40
Non-operating (ambient max °C)	70	70	70
Physical			
Height (mm/in)	26.11/1.028	26.11/1.028	19.98/0.787
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)	626/1.38	626/1.38	400/0.88
Carton Unit Quantity	20	20	25
Cartons per Pallet	40	40	40
Cartons per Layer	8	8	8

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

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