Data Sheet

SV35 Series™

Surveillance-Optimized Storage

Key Advantages

- The industry's only surveillance-optimized hard drive platform with 1, 2 and 3TB capacity options

- A hard drive series tested and tuned for 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 7200-RPM base platform, with 64MB DDR2 DRAM and optimized write caching surveillance algorithms

- 1TB-per-disk 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)	7200	7200	7200
Cache, Multisegmented (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/Organization			
Heads/Disks	6/3	6/3	2/1
Bytes per Sector	4096	4096	4096
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
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
MTBF (hours)	1M	1M	1M
Annualized Failure Rate (AFR)	<1%	<1%	<1%
Power-On Hours	8760	8760	8760
Power Management			
Startup Power (A)	2.0	2.0	2.0
Operating Mode, Typical (W)	8.0	8.0	5.90
Idle2 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
Nonoperating (ambient, min °C)	–40	–40	–40
Nonoperating (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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