

Data Sheet

## SV35.5 Series™

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

**1 TB, 500 GB, 250 GB • 7,200 RPM • SATA 3-Gb/s**

### Key Advantages

- The only 7,200-RPM hard drive designed specifically for surveillance environments, where 24x7 reliability is key
- Best-in-class performance with 140-MB/s sustained data transfer rates (sequential read/writes)
- Highest range of capacities — up to 1 TB — for maximum flexibility
- Low spin-up power for optimisation in surveillance applications
- Uncompromising reliability supports flexible DVR design, with case temperatures up to 70°C
- Performance-tuned for seamless video applications
- Built-in error recovery for non-stop video streaming
- Best-in-class acoustic performance means virtually silent operation
- Higher areal density for cost-effective DVR applications
- ATA-7 streaming commands allow for data reads and writes tailored to video, data or a combination of both, guaranteeing smooth, reliable video streaming as well as high-integrity database updates
- Enhanced caching capabilities enable superior video recording quality
- Unique user-selectable partitioning capability
- Smart Command Transport (SCT) makes management simple
- Thermal monitoring and reporting for 24x7 operations

### Best-fit Applications

- Video surveillance digital video recorder
- Video surveillance network digital video recorder
- Direct- and network-attached JBOD video surveillance storage



# SV35.5 Series™

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



The Seagate® SV35.5 Series drives enable security industry manufacturers, integrators and installers to accomplish more with less, greatly improving their surveillance solution offerings in reliability, performance, capacity, power and acoustics.

## Reliability

- Designed specifically for 24x7 surveillance environments
- Enterprise-class reliability with MTBF of >1 million hours and Annualised Failure Rate (AFR) of <1%
- Industry-leading 5-year limited warranty

## Performance

- Best-in-class performance at 7,200-RPM and up to 140-MB/s sustained data rate
- High-resolution video streams enabled
- Enhanced caching capabilities
- SATA 3-Gb/s interface

## Capacity

- Full range of capacities for greatest flexibility

## Surveillance-optimised

- Flexible DVR design with case temperatures up to 70°C
- ATA-7 streaming commands support reads and writes tailored to both video and audio data

## Eco-friendly

- Reduced power consumption and heat generation enable systems to run cooler and last longer

## Dedication

- Unparalleled Seagate technical and marketing support infrastructure dedicated to video surveillance customers
- Field engineering and business support teams available in person, worldwide

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

Toll free: 00 8004 SEAGATE (732 4283)

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Specifications	1 TB <sup>1</sup>	500 GB <sup>1</sup>	250 GB <sup>1</sup>
Model Number	ST31000525SV	ST3500410SV	ST3250311SV
Interface Options	SATA 3-Gb/s	SATA 3-Gb/s	SATA 3-Gb/s
<b>Performance</b>			
Spin Speed (RPM)	7,200	7,200	7,200
Cache, Multi-segmented (MB)	32	16	8
SATA Data Transfer Modes Supported (Gb/s)	3.0/1.5	3.0/1.5	3.0/1.5
Power-on to Ready (seconds)	17	13	11
Sustained Data Rate, Sequential Write (MB/s)	140	140	140
Read Seek Time (ms)	8.5	8.5	8.5
Write Seek Time (ms)	9.5	9.5	9.5
Simultaneous HD Streams Supported	12	12	12
<b>Voltage</b>			
Voltage Tolerance (including noise) 5V	± 5%	± 5%	± 5%
Voltage Tolerance (including noise) 12V	± 10%	± 10%	± 10%
<b>Configuration/Organisation</b>			
Bytes per Sector	512	512	512
<b>Reliability/Data Integrity</b>			
MTBF (hours)/Annualised Failure Rate (AFR)	>1 million/<1%	>1 million/<1%	>1 million/<1%
Non-recoverable Read Errors per Bits Read	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>
Power-on Hours	8,760	8,760	8,760
Contact Start-Stop Cycles	50,000	50,000	50,000
Limited Warranty (years)	5	5	5
<b>Power Management</b>			
Maximum Startup Current (12 V typical, amps)	2	2	2
Operating Mode (typical, W)	7.0	7.0	5.0
Seek, Average (W)	10.4	10.4	8.0
Standby (W)	1.0	1.0	1.0
<b>Environmental</b>			
Temperature			
Operating (ambient min °C)	0	0	0
Operating (drive case max °C)	70	70	70
Non-operating (ambient min °C)	-40	-40	-40
Non-operating (ambient max °C)	70	70	70
Shock, Operating: 2 ms (Gs)	70	70	70
Shock, Non-operating, 2 ms (Gs)	300	300	350
Acoustic, Idle (bels)	2.5	2.5	2.3
<b>Physical</b>			
Height (mm/in)	26.11/1.028	26.11/1.028	20.2/0.794
Width (mm/in, ±0.010 in)	101.6/4.000	101.6/4.000	101.6/4.000
Depth (mm/in)	146.99/5.787	146.99/5.787	146.99/5.787
Weight (g/lb)	677/1.493	544/1.199	380/0.838

<sup>1</sup> One 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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