

Data Sheet

## SV35.5 Series™

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

**1 TB, 500 GB, 250 GB • 7200 RPM • SATA 3Gb/s**

### Key Advantages

- The only 7200-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 optimization 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 Annualized Failure Rate (AFR) of <1%
- Industry-leading 5-year limited warranty

## Performance

- Best-in-class performance at 7200-RPM and up to 140-MB/s sustained data rate
- Enables high-resolution video streams
- Enhanced caching capabilities
- SATA 3Gb/s interface

## Capacity

- Full range of capacities for greatest flexibility

## Surveillance-Optimized

- 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)

1-800-SEAGATE (1-800-732-4283)

Specifications	1 TB <sup>1</sup>	500 GB <sup>1</sup>	250 GB <sup>1</sup>
<b>Model Number</b>	ST31000525SV	ST3500410SV	ST3250311SV
<b>Interface Options</b>	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s
<b>Performance</b>			
<b>Spin Speed (RPM)</b>	7200	7200	7200
<b>Cache, Multisegmented (MB)</b>	32	16	8
<b>SATA Data Transfer Modes Supported (Gb/s)</b>	3.0/1.5	3.0/1.5	3.0/1.5
<b>Power-On to Ready (seconds)</b>	17	13	11
<b>Sustained Data Rate, Sequential Write (MB/s)</b>	140	140	140
<b>Read Seek Time (ms)</b>	8.5	8.5	8.5
<b>Write Seek Time (ms)</b>	9.5	9.5	9.5
<b>Simultaneous HD Streams Supported</b>	12	12	12
<b>Voltage</b>			
<b>Voltage Tolerance (including noise) 5V</b>	±5%	±5%	±5%
<b>Voltage Tolerance (including noise) 12V</b>	±10%	±10%	±10%
<b>Configuration/Organization</b>			
<b>Bytes per Sector</b>	512	512	512
<b>Reliability/Data Integrity</b>			
<b>MTBF (hours)/Annualized Failure Rate (AFR)</b>	>1 million/<1%	>1 million/<1%	>1 million/<1%
<b>Nonrecoverable Read Errors per Bits Read</b>	1 sector per 10E14	1 sector per 10E14	1 sector per 10E14
<b>Power-On Hours</b>	8760	8760	8760
<b>Contact Start-Stop Cycles</b>	50,000	50,000	50,000
<b>Limited Warranty (years)</b>	5	5	5
<b>Power Management</b>			
<b>Maximum Startup Current (12 V typical, amps)</b>	2	2	2
<b>Operating Mode (typical, W)</b>	7.0	7.0	5.0
<b>Seek Average (W)</b>	10.4	10.4	8.0
<b>Standby (W)</b>	1.0	1.0	1.0
<b>Environmental</b>			
<b>Temperature</b>			
Operating (ambient min °C)	0	0	0
Operating (drive case max °C)	70	70	70
Nonoperating (ambient min °C)	-40	-40	-40
Nonoperating (ambient max °C)	70	70	70
<b>Shock, Operating: 2 ms (Gs)</b>	70	70	70
<b>Shock, Nonoperating: 2 ms (Gs)</b>	300	300	350
<b>Acoustic, Idle (bels)</b>	2.5	2.5	2.3
<b>Physical</b>			
<b>Height (mm/in)</b>	26.11/1.028	26.11/1.028	20.2/0.794
<b>Width (mm/in, ±0.010 in)</b>	101.6/4.000	101.6/4.000	101.6/4.000
<b>Depth (mm/in)</b>	146.99/5.787	146.99/5.787	146.99/5.787
<b>Weight (g/lb)</b>	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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