

Data Sheet

SV35.4 Series™

Eco-friendly 3.5-inch hard drives designed for surveillance digital video recording

320 GB • SATA 3Gb/s

Key Advantages

- The only hard drive designed specifically for surveillance environments, where 24x7 reliability is key
- 40 percent lower power consumption than previous generation enables higher reliability for eco-friendly surveillance systems
- Uncompromising reliability supports flexible DVR design, with case temperatures up to 75°C
- 20-mm form factor provides more ventilation in a multi-drive environment.
- EMI compliance with minimal emitted vibration for improved system integration
- Best-in-class acoustic performance means virtually silent operation
- Higher areal density for cost-effective DVR applications
- Enterprise-class reliability for 24x7 video surveillance applications
- ATA-7 streaming commands allow for data reads and writes tailored to either 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.

Best-Fit Applications

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



SV35.4 Series™

Eco-friendly 3.5-inch hard drives designed for surveillance digital video recording



The Seagate® SV35 Series™ drive enables security industry manufacturers, integrators and installers to accomplish more with less, greatly improving their surveillance solution offerings in reliability, power, performance, vibration and acoustics.

Reliability

- Designed specifically for surveillance environments, where 24x7 reliability is key
- Enterprise-class reliability for 24x7 video surveillance applications: >1 million hours MTBF, <1 percent AFR

Performance

- Enables high-resolution video streams for intelligent video applications or analytics
- Enhanced caching capabilities for improved performance
- SATA interface supports up to 3Gb/s bandwidth, increasing video data rates (480 Mb/s)
- Best-in-class acoustic performance for virtually silent operation

Eco-Friendly

- Lower power consumption enables eco-friendly surveillance systems
- Reduced power consumption and heat generation enable systems to run cooler and last longer.

Surveillance-Optimized

- Uncompromising reliability supports flexible DVR design, with case temperatures up to 75°C
- 20-mm form factor provides more ventilation in a multi-drive environment.
- EMI compliance with minimal emitted vibration for improved system integration
- Higher areal density for cost-effective DVR applications
- ATA-7 streaming commands support reads and writes tailored to both video and audio data.

Dedication

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

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

Specifications	320 GB ¹
Model Number	ST3320410SV
Interface Options	SATA 3Gb/s
Performance	
Average Seek (ms, typical)	
Read	<14
Write	<15
Cache, Multisegmented (MB)	16
SATA Data Transfer Modes Supported (Gb/s)	3.0/1.5
Track-to-Track Seek (ms, typical)	
Read	<1.0
Write	<1.2
Power-On to Ready (sec, max, @ 25°C and nominal voltage)	16
Voltage	
Voltage Tolerance (including noise)	5V ±5% 12V ±10%
Configuration/Organization	
Bytes per Sector	512
Guaranteed Sectors	625,142,448
Reliability/Data integrity	
Nonrecoverable Read Errors per Bits Read	1 sector per 10E14
MTBF (hours)/Annualized Failure Rate (AFR) 40°C HDD Case Temp	>1 million/<1%
Contact Start-Stop Cycles (25°C, 50% relative humidity)	50,000
Power Management	
Maximum Startup Current (12 V typical, amps)	2
Operating Mode (typical, W)	4.7
Standby/Sleep Mode (typical, W)	0.6
Environmental	
Temperature	
Operating (ambient min °C)	0
Operating (drive case max °C)	75
Nonoperating (ambient min °C)	-40
Nonoperating (ambient max °C)	70
Temperature Gradient (°C per hour max), Operating/Nonoperating	20/30
Relative Humidity	
Operating (non-condensing, %)	5 to 90
Nonoperating (non-condensing, %)	5 to 95
Wet Bulb Temperature (°C max), Operating/Nonoperating	37.7/40.0
Shock, Operating: 2 ms (Gs)	70
Shock, Nonoperating: 2 ms (Gs)	350
Acoustic, Idle (typical/max bels)	1.9/2.1
Vibration	
5 to 22 Hz, Displacement Limited, Operating/Nonoperating (Gs)	0.25/5.0
22 to 350 Hz, Operating/Nonoperating (Gs)	0.5/5.0
350 to 500 Hz, Operating/Nonoperating (Gs)	0.25/2.0
Physical	
Height (mm/in)	20.20/0.795
Width (mm/in)	101.85/4.010
Depth (mm/in)	146.99/5.787
Weight (g/lb)	380/0.838

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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