

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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