

Product Overview

SV35 Series

160-GB to 1-TB hard drives for SDVRs

Hard drives designed and optimized for digital video surveillance—enabling greater capacity, reliability, performance and features in surveillance DVRs

Key Features and Benefits

Increased Surveillance Digital Video Recorder (SDVR) Performance

- Improved data transfer rates (read/write speeds)
- Optimized for recording of multiple, simultaneous video streams
- Engineered to maintain high video data integrity

Higher Reliability

- Designed for 24x7 operation and high write duty cycles
- >1,000,000 hours MTBF in 24x7 video surveillance applications
- Fewer moving parts
- Lower power consumption and reduced heat generation

Greater Capacity

- Industry-leading capacity—1 TB
- Industry's widest range of capacities—now including 320 GB

Tailored for the video surveillance industry

- Technical and marketing support infrastructure dedicated to video surveillance customers
- Dedicated to evolve with emerging video surveillance industry requirements
- Backed by the Seagate 5-year limited warranty

Best-Fit Applications

- Video surveillance digital video recorders (SDVR)
- Video surveillance network digital video recorders (SNVR)
- Direct-attached and network-attached JBOD video storage
- Small-footprint video surveillance digital recorders



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Maximum Capacity

Industry-leading capacity—up to 1-TB—stores massive amounts of digital video:

- up to 289 continuous days (640x480, 10 fps)
- up to 32 continuous days (720x480, 30 fps)

Increased Reliability

- Advanced power management features include lower startup current, which enables the design of low-cost power supplies. The capability to power down when not in use saves power and enables more efficient system cooling.
- Intelligent workload monitoring senses specific workload profiles that can stress key systems and then takes corrective action.
- With an MTBF of over one million hours and an annual failure rate of less than 1 percent, SV35 Series drives can withstand the intense duty cycles common in digital video recording for security and surveillance.

Improved Performance

Video security drives are designed primarily for streaming video.

- Increased video data rates (480 Mb/s) enable higher-performance video recording.
- ATA-7 command set support enables read/write profiles to be tuned to video-specific applications.

Specifications	
Rotational Speed (RPM)	7200
Video Capacity, Compressed (24x7 operation) 640x480 @ 10 fps (days) 720x480 @ 30 fps (days)	up to 289 up to 32
Startup Power, 12V Line (amps)	2.0
Reliability (MTBF/AFR)	>1 million hours*/<1%
Interface	ATA/100**, SATA 3Gb/s

* At 25°C ambient with HDD case within 15°C above ambient
** Assumes 2-MB host buffer per stream

Industry-Leading Innovation and Support

- SV35 Series drive, with perpendicular recording technology, is the first hard drive engineered and optimized for video surveillance.
- Backed by the Seagate 5-year limited warranty
- Supported by a team of dedicated Seagate surveillance resources

Compatibility

SV35.2 Series drives are compatible with UDMA-2, -3 and -4 chipsets and offer SATA options for the ultimate in high-performance data transfers.

Technology and Security Drive a Growing Market

Digital video surveillance systems now enable sophisticated software capabilities that automatically preview and flag security events in seconds. High-resolution image capture is moving the quality of stored video from grainy and marginally useful to crisp and incredibly detailed images. At the heart of these capabilities are massive hard drives.

New Customer Requirements

The SV35 Series hard drive represents the ongoing commitment of Seagate to a new category of technology and customers. The Seagate Design Service Centers are committed to providing integration and educational information to the surveillance customers and to growing the combined knowledge and capabilities of storage products for digital video recording in the surveillance sector. Technical and advanced application design advice is available through design centers in the U.S. and Singapore.

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