



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Optimized for Surveillance AI Applications



Seagate® SkyHawk™ AI is the world's first, purpose-built drive for artificial intelligence (AI)-enabled surveillance solutions.



### Best-Fit Applications

- Network video recorders (NVR)
- AI-enabled NVR systems
- Video-edge NVRs
- NVRs with advanced analytics

## Key Advantages

**ImagePerfect™ AI firmware** for superior image integrity alongside additional AI workload support in always-on, AI-enabled surveillance systems.

**Custom designed to support an additional 16 AI streams** while simultaneously and flawlessly recording footage up to 64 HD cameras.

**Designed to handle heavy workloads** expected in always-on, AI-enabled surveillance systems. At 550TB/year, SkyHawk AI is designed for more than 3x the workload of standard surveillance drives.

**Advanced vibration management** for superior and sustained performance in 16+ bay NVR systems.

**Improved reliability** and reduced total cost of ownership with 2M-hour MTBF and 5-year limited warranty.

**Unparalleled data protection** with a complimentary 2-year Rescue Data Recovery Services plan bundled with every SkyHawk AI drive, providing access to Seagate's secure labs with industry-leading data recovery success rates.



Specifications	10TB	8TB
Standard Model Numbers	ST10000VE0004	ST8000VE0004
Interface	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>		
Drive Bays Supported	16+	16+
AI Streams <sup>1</sup>	16	16
HD Cameras Supported	Up to 64	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	214MB/s	214MB/s
Cache (MB)	256	256
<b>Reliability/Data Integrity</b>		
Tarnish Resistant	Yes	Yes
Load/Unload Cycles	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15
Power-On Hours per Year (24x7)	8760	8760
Workload Rate Limit (WRL) <sup>2</sup>	550	550
MTBF	2,000,000hr	2,000,000hr
Warranty, Limited (years) <sup>3</sup>	5	5
<b>Power Management</b>		
Startup Current, Typical (12V, A)	1.8	1.8
Average Operating Power (W)	7.2W	7.2W
Idle Average (W)	4.9W	4.9W
Standby Mode/Sleep Mode, Typical (W)	1.2/1.2	1.2/1.2
Voltage Tolerance (5V)	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%
<b>Environmental/Temperature</b>		
Operating (ambient, min °C)	5	5
Operating (drive case, max °C) <sup>4</sup>	70	70
Nonoperating (ambient, min °C)	-40	-40
<b>Physical</b>		
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	650g/1.433lb	650g/1.433lb
Carton Unit Quantity	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8

<sup>1</sup> 16 AI streams = 8 AI channels.

<sup>2</sup> SkyHawk AI surveillance drives are designed for always-on workloads of 550TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

<sup>3</sup> Extended warranty options available. Consult your distributor for details.

<sup>4</sup> Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the product.

AMERICAS	Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
ASIA/PACIFIC	Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
EUROPE, MIDDLE EAST AND AFRICA	Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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