



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	6TB	4TB
Standard Model Numbers	ST10000VE0004	ST8000VE0004	ST6000VE001	ST4000VE001
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>				
Drive Bays Supported	16+	16+	16+	16+
AI Streams <sup>1</sup>	16	16	16	16
HD Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	235MB/s	235MB/s	226MB/s	226MB/s
Cache (MB)	256	256	256	256
<b>Reliability/Data Integrity</b>				
Tarnish Resistant	Yes	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours per Year (24x7)	8760	8760	8760	8760
Workload Rate Limit (WRL) <sup>2</sup>	550	550	550	550
MTBF	2,000,000hr	2,000,000hr	2,000,000hr	2,000,000hr
Warranty, Limited (years) <sup>3</sup>	5	5	5	5
<b>Power Management</b>				
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8
Average Operating Power (W)	7.2W	7.2W	9.5W	9.5W
Idle Average (W)	4.9W	4.9W	7.5W	7.5W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.8/0.8	0.6/0.6	0.6/0.6
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>				
Operating (ambient, min °C)	5	5	5	5
Operating (drive case, max °C) <sup>4</sup>	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40
<b>Physical</b>				
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	650g/1.433lb	650g/1.433lb	705g/1.55lb	705g/1.55lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	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.

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