

3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Surveillance-Optimised Storage



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



**SKYHAWK**  
**HEALTH**

## 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 32 AI streams** while simultaneously and flawlessly recording footage up to 64 HD cameras.

**Designed and built to handle heavy surveillance workloads** in traditional video recording and in advanced video analytics environments. At 550 TB/year, SkyHawk AI is designed for 3× the workload of standard surveillance drives.

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

**SkyHawk Health Management** actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.<sup>1</sup> Included is RAID RapidRebuild™, which provides 3× faster volume rebuilds.

**Improved reliability** and reduced total cost of ownership with 1.5M-hr. MTBF and 3-year limited warranty.

**Unparalleled data protection** with an optional 2-year Rescue Data Recovery Services plan, providing access to Seagate's secure labs with industry-leading data recovery success rates.

<sup>1</sup> Contact your Seagate sales representative for further information.



Specifications	14 TB	12 TB	10 TB	10 TB	8 TB
Capacity	14 TB	12 TB	10 TB	10 TB	8 TB
Standard Model Numbers	ST14000VE0008	ST12000VE0008	ST10000VE0008	ST10000VE0004	ST8000VE000
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
<b>Features and Performance</b>					
Drive Bays Supported	16+	16+	16+	16+	16+
AI Streams <sup>1</sup>	32	32	32	32	32
HD Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	Yes	Yes	Yes	Yes	Yes
Max. Sustained Transfer Rate OD (MB/s)	250MB/s	250MB/s	250MB/s	235MB/s	235MB/s
Cache (MB)	256	256	256	256	256
<b>Reliability/Data Integrity</b>					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours per Year (24x7)	8,760	8,760	8,760	8,760	8,760
Workload Rate Limit (WRL) <sup>2</sup>	550	550	550	550	550
MTBF	1,500,000 hr	1,500,000 hr	1,500,000 hr	1,500,000 hr	1,500,000 hr
Warranty, Limited (years) <sup>3</sup>	3	3	3	3	3
<b>Power Management</b>					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
Average Operating Power (W)	6.9 W	6.9 W	6.9 W	7.2 W	8.73 W
Idling Average (W)	4.9 W	4.9 W	4.9 W	4.9 W	7.5 W
Standby Mode/Sleep Mode, Typical (W)	1.2/1.2	1.2/1.2	1.2/1.2	0.8/0.8	0.96/0.96
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%	+10%/-5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	5	5	5	5	5
Operating (drive case, max °C) <sup>4</sup>	70	70	70	70	70
Non-operating (ambient, min °C)	-40	-40	-40	-40	-40
<b>Physical</b>					
Height (mm/in, max)	26.11 mm/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 in
Width (mm/in, max)	101.85 mm/4.01 in	101.85 mm/4.01 in	101.85 mm/4.01 in	101.85 mm/4.01 in	101.85 mm/4.01 in
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (lb/g)	690 g/1.521 lb	690 g/1.521 lb	690 g/1.521 lb	650 g/1.433 lb	716 g/1.579 lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

<sup>1</sup> 32 AI streams = 16 AI channels.

<sup>2</sup> SkyHawk AI surveillance drives are designed for always-on workloads of 550 TB/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.



Specifications	8 TB
Capacity	8 TB
Standard Model Numbers	ST8000VE0004
Interface	SATA 6 Gb/s
<b>Features and Performance</b>	
Drive Bays Supported	16+
AI Streams <sup>1</sup>	32
HD Cameras Supported	Up to 64
RV Sensors	Yes
Max. Sustained Transfer Rate OD (MB/s)	235MB/s
Cache (MB)	256
<b>Reliability/Data Integrity</b>	
Tarnish Resistant	Yes
Load/Unload Cycles	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15
Power-On Hours per Year (24x7)	8,760
Workload Rate Limit (WRL) <sup>2</sup>	550
MTBF	1,500,000 hr
Warranty, Limited (years) <sup>3</sup>	3
<b>Power Management</b>	
Startup Current, Typical (12V, A)	1.8
Average Operating Power (W)	7.2 W
Idling Average (W)	4.9 W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8
Voltage Tolerance (5 V)	±5%
Voltage Tolerance (12 V)	±10%
<b>Environmental/Temperature</b>	
Operating (ambient, min °C)	5
Operating (drive case, max °C) <sup>4</sup>	70
Non-operating (ambient, min °C)	-40
<b>Physical</b>	
Height (mm/in, max)	26.11 mm/1.028 in
Width (mm/in, max)	101.85 mm/4.01 in
Depth (mm/in, max)	146.99 mm/5.787 in
Weight (lb/g)	650 g/1.433 lb
Carton Unit Quantity	20
Cartons per Pallet / Cartons per Layer	40/8

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