



3.5 HARD DRIVE DATA SHEET Smart. Safe. Secure. Surveillance-Optimised Storage



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



## **Best-Fit Applications**

- Network video recorders (NVR)
- Al-enabled NVR systems



## Key Advantages

**ImagePerfect<sup>™</sup> 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 channels** 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<sup>™</sup>, which provides 3× faster volume rebuilds.

**Improved reliability** and reduced total cost of ownership with 2 M-hr. MTBF and 3year 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.

1 Contact your Seagate sales representative for further information.





Specifications	16 TB	14 TB	12 TB	10 TB	10 TB	
Capacity	16TB	14TB	12TB	10TB	10TB	
Standard Model Numbers	ST16000VE000	ST14000VE0008	ST12000VE0008	ST10000VE0008	ST10000VE0004	
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	
Recording Technology	CMR	CMR	CMR	CMR	CMR	
Features and Performance					-	
Drive Bays Supported	16+	16+	16+	16+	16+	
Al Channels	32	32	32	32	32	
AI Real Time Capture Events/Sec <sup>1,2</sup>	Up to 120					
AI Real Time Compare Events/Sec <sup>1,2</sup>	Up to 96					
HD Cameras Supported <sup>3</sup>	Up to 64					
RV Sensors	Yes	Yes	Yes	Yes	Yes	
Max. Sustained Transfer Rate OD (MB/s)	250MB/s	250MB/s	250MB/s	250MB/s	235MB/s	
Cache (MB)	256	256	256	256	256	
Reliability/Data Integrity						
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					
Power-On Hours per Year (24×7)	8,760	8,760	8,760	8,760	8,760	
Workload Rate Limit (WRL) <sup>4</sup>	550	550	550	550	550	
MTBF	2,000,000 hr					
Warranty, Limited (years) <sup>5</sup>	3	3	3	3	3	
Power Management						
Startup Current, Typical (12V, A)	2	2	2	2	1.8	
Average Operating Power (W)	6.71 W	6.71 W	6.71 W	6.71 W	7.2 W	
Idling Average (W)	5.07 W	5.07 W	5.07 W	5.07 W	4.9 W	
Standby Mode/Sleep Mode, Typical (W)	1.05/1.05	1.05/1.05	1.05/1.05	1.05/1.05	0.8/0.8	
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%	±5%	
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%	
Environmental/Temperature	,					
Operating (ambient, min °C)	5	5	5	5	5	
Operating (drive case, max °C) <sup>6</sup>	70	70	70	70	70	
Non-operating (ambient, min °C)	-40	-40	-40	-40	-40	
Physical						
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)	670 g/1.477 lb	670 g/1.477 lb	670 g/1.477 lb	670 g/1.477 lb	650 g/1.433 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	

1 Events can be human, vehicle, or object capture.

2 Tested and verified using embedded AI NVR - 64-ch HD recording, 16-ch PB. Average picture size ~250 KB

3 1080P, H.265, 25 fps

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

5 Extended warranty options available. Consult your distributor for details.

6 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the product.





Specifications	8 TB	8 TB	
Capacity	8TB	8TB	
Standard Model Numbers	ST8000VE000	ST8000VE0004	
Interface	SATA 6Gb/s	SATA 6 Gb/s	
Recording Technology	CMR	CMR	
Features and Performance			
Drive Bays Supported	16+	16+	
AI Channels	32	32	
AI Real Time Capture Events/Sec <sup>1,2</sup>	Up to 120	Up to 120	
AI Real Time Compare Events/Sec <sup>1,2</sup>	Up to 96	Up to 96	
HD Cameras Supported <sup>3</sup>	Up to 64	Up to 64	
RV Sensors	Yes	Yes	
Max. Sustained Transfer Rate OD (MB/s)	235MB/s	235MB/s	
Cache (MB)	256	256	
Reliability/Data Integrity			
Tarnish Resistant	Yes	Yes	
Load/Unload Cycles	300,000	300,000	
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	
Power-On Hours per Year (24×7)	8,760	8,760	
Workload Rate Limit (WRL) <sup>4</sup>	550	550	
MTBF	2,000,000 hr	2,000,000 hr	
Warranty, Limited (years) <sup>5</sup>	3	3	
Power Management			
Startup Current, Typical (12V, A)	1.8	1.8	
Average Operating Power (W)	8.73 W	7.2 W	
Idling Average (W)	7.5 W	4.9 W	
Standby Mode/Sleep Mode, Typical (W)	0.96/0.96	0.8/0.8	
Voltage Tolerance (5 V)	+10%/-5%	±5%	
Voltage Tolerance (12 V)	±10%	±10%	
Environmental/Temperature			
Operating (ambient, min °C)	5	5	
Operating (drive case, max °C) <sup>6</sup>	70	70	
Non-operating (ambient, min °C)	-40	-40	
Physical			
Height (mm/in, max)	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	
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in	
Weight (lb/g)	716 g/1.579 lb	650 g/1.433 lb	
Carton Unit Quantity	20	20 20	
Cartons per Pallet / Cartons per Layer	40/8	40/8	

1 Events can be human, vehicle, or object capture.

2 Tested and verified using embedded AI NVR – 64-ch HD recording, 16-ch PB. Average picture size  $\sim$ 250 KB

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