



3.5 HARD DRIVE DATA SHEET

## Smart. Safe. Secure. Optimised for Surveillance AI Applications

Seagate<sup>®</sup> SkyHawk<sup> $^{\text{TM}}$ </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
- Video-edge NVRs
- NVRs with advanced analytics

## Key Advantages

ImagePerfect<sup>™</sup> Al firmware for superior image integrity alongside additional Al workload support in always-on, Al-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, Al-enabled surveillance systems. At 550 TB/year, SkyHawk Al is designed for more than 3× 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 2 M-hr. MTBF and 5-year limited warranty.

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





Specifications	14 TB	12 TB	10 TB	10 TB	8 TB
Capacity	14TB	12TB	10TB	10TB	8TB
Standard Model Numbers	ST14000VE0008	ST12000VE0008	ST10000VE0008	ST10000VE0004	ST8000VE0004
Interface	SATA 6 Gb/s				
Features and Performance					
Drive Bays Supported	16+	16+	16+	16+	16+
Al Streams <sup>1</sup>	16	16	16	16	16
HD Cameras Supported	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
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>2</sup>	550	550	550	550	550
MTBF	2,000,000 hr				
Warranty, Limited (years) <sup>3</sup>	5	5	5	5	5
Power Management					
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	7.2 W
Idling Average (W)	4.9 W				
Standby Mode/Sleep Mode, Typical (W)	1.2/1.2	1.2/1.2	1.2/1.2	0.8/0.8	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>4</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	in	in	in	in
Weight (lb/g)	690 g/1.521 lb	690 g/1.521 lb	690 g/1.521 lb	650 g/1.433 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

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

<sup>2</sup> 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.

<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	6 TB	4 TB			
Capacity	6TB	4TB			
Standard Model Numbers	ST6000VE001	ST4000VE001			
Interface	SATA 6 Gb/s	SATA 6 Gb/s			
Features and Performance					
Drive Bays Supported	16+	16+			
Al Streams	16	16			
HD Cameras Supported	Up to 64	Up to 64			
RV Sensors	Yes	Yes			
Max. Sustained Transfer Rate OD (MB/s)	226MB/s	226MB/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>2</sup>	550	550			
MTBF	2,000,000 hr	2,000,000 hr			
Warranty, Limited (years) <sup>3</sup>	5	5			
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8			
Average Operating Power (W)	9.5 W	9.5 W			
Idling Average (W)	7.5 W	7.5 W			
Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	0.6/0.6			
Voltage Tolerance (5 V)	±5%	±5%			
Voltage Tolerance (12 V)	±10%	±10%			
Environmental/Temperature					
Operating (ambient, min °C)	5	5			
Operating (drive case, max °C) <sup>4</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)	705 g/1.55 lb	705 g/1.55 lb 705 g/1.55 lb			
Carton Unit Quantity	20 20				
Cartons per Pallet / Cartons per Layer	40/8 40/8				

- 1 16 Al streams = 8 Al channels.
- 2 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.
- ${\tt 3\ Extended\ warranty\ options\ available.\ Consult\ your\ distributor\ for\ details.}$
- 4 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the product.

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