



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Surveillance-Optimised Storage

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



## 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 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. Included is RAID RapidRebuild, which provides  $3 \times$  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.





Al Streams 1 32 32 32 32 32 32 HD Cameras Supported Up to 64	Specifications	14 TB	12 TB	10 TB	10 TB	8 TB
Interface   SATA 6 Gb/s   SA	Capacity	14TB	12TB	10TB	10TB	8TB
Private Bays Supported   16+	Standard Model Numbers	ST14000VE0008	ST12000VE0008	ST10000VE0008	ST10000VE0004	ST8000VE0004
Drive Bays Supported         16+         16+         16+         16+         16+         16+         16+         Al Streams         16+         16+         16+         16+         16+         16+         16+         Al Streams         Al Streams         32         33         32         33         32         35MB/s         255MB/s         255MB/s         255MB/s         255MB/s         255MB/s         255MB/s         255MB/s         256         256         256         256         256<	Interface	SATA 6 Gb/s				
Al Streams   32   32   32   32   32   32   32   3	Features and Performance					
HD Cameras Supported	Drive Bays Supported	16+	16+	16+	16+	16+
New Yes   Xes	Al Streams	32	32	32	32	32
Max. Sustained Transfer Rate OD (MB/s)         250MB/s         250MB/s         250MB/s         235MB/s         235MB/s           Cache (MB)         256	HD Cameras Supported	Up to 64				
Cache (MB)   256	RV Sensors	Yes	Yes	Yes	Yes	Yes
Peliability/Data Integrity   Tarnish Resistant   Yes	Max. Sustained Transfer Rate OD (MB/s)	250MB/s	250MB/s	250MB/s	235MB/s	235MB/s
Tarnish Resistant	Cache (MB)	256	256	256	256	256
Dead/Unload Cycles   300,000   300,000   300,000   300,000   300,000   300,000   300,000   Non-recoverable Read Errors per Bits Read, Max   1 per 10E15	Reliability/Data Integrity					
Non-recoverable Read Errors per Bits Read, Max	Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Power-On Hours per Year (24×7)	Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000
Workload Rate Limit (WRL)²         550         550         550         550           MTBF         1,500,000 hr         1,500 hr <t< td=""><td>Non-recoverable Read Errors per Bits Read, Max</td><td>1 per 10E15</td><td>1 per 10E15</td><td>1 per 10E15</td><td>1 per 10E15</td><td>1 per 10E15</td></t<>	Non-recoverable Read Errors per Bits Read, Max	1 per 10E15				
MTBF	Power-On Hours per Year (24×7)	8,760	8,760	8,760	8,760	8,760
Warranty, Limited (years)   3   3   3   3   3   3   3   3   3	Workload Rate Limit (WRL) <sup>2</sup>	550	550	550	550	550
Power Management   Startup Current, Typical (12V, A)   1.8   1.9	MTBF	1,500,000 hr				
Startup Current, Typical (12V, A)         1.8         1.2         1.2         1.2 <t< td=""><td>Warranty, Limited (years)<sup>3</sup></td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></t<>	Warranty, Limited (years) <sup>3</sup>	3	3	3	3	3
Average Operating Power (W) 6.9 W 6.9 W 6.9 W 7.2 W 7.2 W 7.2 W 7.2 W 8.9 W 8.	Power Management					
Idling Average (W)	Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
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%         ±5%         ±5%         ±5%         ±5%         ±5%         ±5%         ±5%         ±5%         ±10%	Average Operating Power (W)	6.9 W	6.9 W	6.9 W	7.2 W	7.2 W
Voltage Tolerance (5 V)         ±5%         ±10%	Idling Average (W)	4.9 W				
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 26.11 mm/4.01 in 101.85 mm/5.787         146.99 mm/5.787	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
Environmental/Temperature   State of the properature   State of the prope	Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%	±5%
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         -40           Physical           Height (mm/in, max)         26.11 mm/1.028 in 101.85 mm/4.01 in 101.85 mm/5.787 146.99 mm/5.787 146.99 mm/5.787 146.99 mm/5.787	Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
Operating (drive case, max °C) <sup>4</sup> 70         70         70         70         70           Non-operating (ambient, min °C)         -40 <t< td=""><td>Environmental/Temperature</td><td></td><td></td><td></td><td></td><td></td></t<>	Environmental/Temperature					
Non-operating (ambient, min °C)  -40  -40  -40  -40  -40  -40  -40  -4	Operating (ambient, min °C)	5	5	5	5	5
Physical  Height (mm/in, max)  26.11 mm/1.028 in	Operating (drive case, max °C) <sup>4</sup>	70	70	70	70	70
Height (mm/in, max)         26.11 mm/1.028 in 26.11	Non-operating (ambient, min °C)	-40	-40	-40	-40	-40
Width (mm/in, max) 101.85 mm/4.01 in 101.85 mm/4	Physical					
Deoth (mm/in, max) 146.99 mm/5.787 146.99 mm/5.787 146.99 mm/5.787 146.99 mm/5.787 146.99 mm/5.787	Height (mm/in, max)	26.11 mm/1.028 in				
Depth (mm/in, max)	Width (mm/in, max)	101.85 mm/4.01 in				
	Depth (mm/in, max)					
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	Weight (lb/g)	+				
Carton Unit Quantity 20 20 20 20 20						
Cartons per Pallet / Cartons per Layer         40/8         40/8         40/8         40/8	•	+		40/8		40/8

<sup>1 32</sup> Al streams = 16 Al channels

- 2 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.
- 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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