



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Surveillance-Optimized 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)
- Al-enabled NVR systems



Key Advantages

ImagePerfect[™] **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 Al 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 advanced video analytics environments. At 550TB/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.

¹ Contact your Seagate sales representative for further information.





Specifications	16TB	14TB	12TB	10TB	10TB
Capacity	16TB	14TB	12TB	10TB	10TB
Standard Model Numbers	ST16000VE000	ST14000VE0008	ST12000VE0008	ST10000VE0008	ST10000VE0004
Interface	SATA 6Gb/s				
Features and Performance					
Drive Bays Supported	16+	16+	16+	16+	16+
Al Streams ¹	32	32	32	32	32
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	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
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15				
Power-On Hours per Year (24×7)	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) ²	550	550	550	550	550
MTBF	1,500,000hr	1,500,000hr	1,500,000hr	1,500,000hr	1,500,000hr
Warranty, Limited (years) ³	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
Average Operating Power (W)	6.71W	6.9W	6.9W	6.9W	7.2W
Idle Average (W)	5.1W	4.9W	4.9W	4.9W	4.9W
Standby Mode/Sleep Mode, Typical (W)	1.05/1.05	1.2/1.2	1.2/1.2	1.2/1.2	0.8/0.8
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (ambient, min °C)	5	5	5	5	5
Operating (drive case, max °C) ⁴	70	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
Physical					
Height (mm/in, max)	26.11mm/1.028in	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	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	670g/1.477lb	690g/1.521lb	690g/1.521lb	690g/1.521lb	650g/1.433lb
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 32} Al streams = 16 Al channels.

² SkyHawk Al surveillance drives are designed for always-on workloads of 550TB/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.





Specifications	8TB	8TB	
Capacity	8TB	8TB	
Standard Model Numbers	ST8000VE000	ST8000VE0004	
Interface	SATA 6Gb/s	SATA 6Gb/s	
Features and Performance			
Drive Bays Supported	16+	16+	
Al Streams ¹	32	32	
HD Cameras Supported	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	
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	
Power-On Hours per Year (24×7)	8760	8760	
Workload Rate Limit (WRL) ²	550	550	
MTBF	1,500,000hr	1,500,000hr	
Warranty, Limited (years) ³	3	3	
Power Management			
Startup Current, Typical (12V, A)	1.8	1.8	
Average Operating Power (W)	8.73W	7.2W	
Idle Average (W)	7.5W	4.9W	
Standby Mode/Sleep Mode, Typical (W)	0.96/0.96	0.8/0.8	
Voltage Tolerance (5V)	+10%/-5%	±5%	
Voltage Tolerance (12V)	±10%	±10%	
Environmental/Temperature			
Operating (ambient, min °C)	5	5	
Operating (drive case, max °C) ⁴	70	70	
Nonoperating (ambient, min °C)	-40	-40	
Physical			
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	
Weight (g/lb)	716g/1.579lb	650g/1.433lb	
Carton Unit Quantity	20	20	
Cartons per Pallet/Cartons per Layer	40/8	40/8	

^{1 32} Al streams = 16 Al channels.

- 2 SkyHawk Al surveillance drives are designed for always-on workloads of 550TB/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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