



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Seagate Surveillance-Specialized Storage

SkyHawk $^{\text{TM}}$ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.





Best-Fit Applications

- Network video recorders (NVR)
- Embedded surveillance DVRs (SDVR)
- Hybrid surveillance DVRs
- Surveillance DVRs



Key Advantages

ImagePerfect[™] firmware is designed to ensure seamless video footage capture in 24×7 surveillance workloads that record video from 64 HD cameras.

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention and recovery options.²

NVR-ready design allows drives to maintain performance in multi-bay systems, giving customers the flexibility to scale their systems when more storage is needed.

ATA streaming support enables recordings from up to 64 HD cameras for smooth, uninterrupted footage.

Up to 10TB or over 2000 hours of HD video storage support an increased number of HD cameras and allows longer data retention periods.

1M hours MTBF, 3-year limited warranty³ represents an improved total cost of ownership (TCO) with reduced maintenance costs.

Lower power consumption means a reduction in heat emissions, which improves reliability in surveillance solutions. Tarnish-resistant components help protect drive from environmental elements, increasing field reliability.

- 1 SkyHawk surveillance drives are designed for always-on workloads of 180TB/year. For higher transaction workloads, see Seagate's enterorise-class drive offerings.
- $\hbox{2 Contact your Seagate sales representative for further information}.$
- 3 SkyHawk surveillance drives are designed to operate under ambient operating temperatures of 0°C to 60°C and normal environments.

 Usage of drives in higher temperatures or other extreme environmental conditions will reduce useful life.





Specifications	10TB	8TB	6TB	6TB	4TB			
Standard Model Numbers ¹	ST10000VX0004	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007			
SkyHawk [™] Health Management Included	Yes	Yes	Yes	Yes	Yes			
Interface	SATA 6Gb/s							
Features and Performance								
Drive Bays Supported	8+	8+	8+	8+	8+			
Cameras Supported	Up to 64							
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	210MB/s	180MB/s	195MB/s	190MB/s			
Cache (MB)	256	256	256	256	64			
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	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E14			
Power-On Hours per Year (24×7)	8760	8760	8760	8760	8760			
Workload Rate Limit (WRL) ²	180	180	180	180	180			
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr			
Warranty, Limited (years) ³	3	3	3	3	3			
Power Management								
Startup Current, Typical (12V, A)	1.8	2	1.8	2	1.8			
Average Operating Power (W)	6.8W	9W	5W	9W	5.5W			
Idle Average (W)	4.4W	7.6W	3.4W	7.2W	3.2W			
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.6/0.6	0.25/0.25	0.6/0.6	0.25/0.25			
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%			
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%			
Environmental/Temperature								
Operating (ambient, min °C)	5	5	0	5	0			
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)	650g/1.433lb	780g/1.72lb	610g/1.345lb	705g/1.55lb	635g/1.40lb			
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 Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

² SkyHawk surveillance drives are designed for always-on workloads of 180TB/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 products.





Specifications	ЗТВ	3ТВ	2TB	1TB
Standard Model Numbers ¹	ST3000VX009	ST3000VX010	ST2000VX008	ST1000VX005
SkyHawk [™] Health Management Included	_	_	_	_
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features and Performance				
Drive Bays Supported	1 to 8	1 to 8	1 to 8	1 to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	180MB/s	190MB/s	180MB/s	180MB/s
Cache (MB)	256	64	64	64
Reliability/Data Integrity				
Tarnish Resistant	Yes	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	300,000	_
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24×7)	8760	8760	8760	8760
Workload Rate Limit (WRL) ²	180	180	180	180
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years) ³	3	3	3	3
Power Management				
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8
Average Operating Power (W)	3.5W	5.6W	5.6W	5.6W
Idle Average (W)	2.5W	4.0W	4.0W	4.0W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.5/0.5	0.5/0.5	0.5/0.5
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%
Environmental/Temperature				
Operating (ambient, min °C)	0	0	0	0
Operating (drive case, max °C) ⁴	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40
Physical				
Height (mm/in, max)	20.20mm/0.795in	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in
Width (mm/in, max)	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
Weight (g/lb)	490g/1.08lb	610g/1.35lb	610g/1.345lb	415g/0.915lb
Carton Unit Quantity	25	20	20	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8

¹ Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

² SkyHawk surveillance drives are designed for always-on workloads of 180TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

³ Extended warranty options available. Consult your distributor for details.

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AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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