



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Seagate Surveillance-Specialized Storage

SkyHawk[™] 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 14TB³ or over 9345 hours⁴ of HD video storage support an increased number of HD cameras and allows longer data retention periods.

1M hours MTBF, 3-year limited warranty⁵ 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 enterprise-class drive offerings.
- 2 Contact your Seagate sales representative for further information.
- 3 14TB coming sooi
- 4 Calculated based on H.264, 1M pixels, medium quality, 15FPS, 1 camera, and 24 hours of recording/day
- 5 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	14TB	12TB	10TB	8TB	6TB		
Standard Model Numbers 1,2	ST14000VX0008	ST12000VX0008	ST10000VX0008	ST8000VX0022	ST6000VX001		
SkyHawk TM 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)	220MB/s	220MB/s	210MB/s	210MB/s	180MB/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	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E14		
Power-On Hours per Year (24×7)	8,760	8,760	8,760	8,760	8,760		
Workload Rate Limit (WRL) ³	180	180	180	180	180		
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr		
Warranty, Limited (years) ⁴	3	3	3	3	3		
Power Management							
Startup Current, Typical (12V, A)	1.8	1.8	1.8	2	1.8		
Average Operating Power (W)	6.9W	6.9W	6.9W	9W	5W		
Idle Average (W)	4.9W	4.9W	4.9W	7.6W	3.4W		
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.8/0.8	0.8/0.8	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	5	5	0		
Operating (drive case, max °C) ⁵	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)	690g/1.521lb	690g/1.521lb	690g/1.521lb	780g/1.72lb	610g/1.345lb		
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 14}TB coming soon

² Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

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⁴ Extended warranty options available. Consult your distributor for details.

⁵ Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.





Specifications	6ТВ	4TB	3ТВ	3ТВ	2TB		
Standard Model Numbers 1,2	ST6000VX0023	ST4000VX007	ST3000VX009	ST3000VX010	ST2000VX008		
SkyHawk [™] Health Management Included	Yes	Yes	_	_	_		
Interface	SATA 6Gb/s						
Features and Performance							
Drive Bays Supported	8+	8+	1 to 8	1 to 8	1 to 8		
Cameras Supported	Up to 64						
Max. Sustained Transfer Rate OD (MB/s)	195MB/s	190MB/s	180MB/s	190MB/s	180MB/s		
Cache (MB)	256	64	256	64	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 10E14	1 per 10E15	1 per 10E14	1 per 10E14		
Power-On Hours per Year (24×7)	8,760	8,760	8,760	8,760	8,760		
Workload Rate Limit (WRL) ³	180	180	180	180	180		
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr		
Warranty, Limited (years) ⁴	3	3	3	3	3		
Power Management							
Startup Current, Typical (12V, A)	2	1.8	1.8	1.8	1.8		
Average Operating Power (W)	9W	5.5W	3.5W	5.6W	5.6W		
Idle Average (W)	7.2W	3.2W	2.5W	4W	4W		
Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	0.25/0.25	0.25/0.25	0.5/0.5	0.5/0.5		
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%		
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%		
Environmental/Temperature							
Operating (ambient, min °C)	5	0	0	0	0		
Operating (drive case, max °C) ⁵	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	20.2mm/0.795in	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)	705g/1.55lb	635g/1.4lb	490g/1.08lb	610g/1.35lb	610g/1.345lb		
Carton Unit Quantity	20	20	25	20	20		
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8		

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Specifications	1TB				
Standard Model Numbers 1,2	ST1000VX005				
SkyHawk [™] Health Management Included	_				
Interface	SATA 6Gb/s				
Features and Performance					
Drive Bays Supported	1 to 8				
Cameras Supported	Up to 64				
Max. Sustained Transfer Rate OD (MB/s)	180MB/s				
Cache (MB)	64				
Reliability/Data Integrity					
Tarnish Resistant	Yes				
Load/Unload Cycles	_				
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14				
Power-On Hours per Year (24×7)	8,760				
Workload Rate Limit (WRL) ³	180				
MTBF	1,000,000hr				
Warranty, Limited (years) ⁴	3				
Power Management					
Startup Current, Typical (12V, A)	1.8				
Average Operating Power (W)	5.6W				
Idle Average (W)	4W				
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5				
Voltage Tolerance (5V)	±5%				
Voltage Tolerance (12V)	±10%				
Environmental/Temperature					
Operating (ambient, min °C)	0				
Operating (drive case, max °C) ⁵	70				
Nonoperating (ambient, min °C)	-40				
Physical					
Height (mm/in, max)	20.2mm/0.795in				
Width (mm/in, max)	101.85mm/4.01in				
Depth (mm/in, max)	146.99mm/5.787in				
Weight (g/lb)	415g/0.915lb				
Carton Unit Quantity	25				
Cartons per Pallet/Cartons per Layer	40/8				

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- 2 Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.
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