



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Seagate Surveillance-Specialised 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 10 TB or over 2,000 hours of HD video storage support an increased number of HD cameras and allows longer data retention periods.

1 M 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, low transaction workloads (20% duty cycle) of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

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	8ТВ	6ТВ	4TB	3ТВ
Standard Model Numbers	ST10000VX0004	ST8000VX0022	ST6000VX0003, ST6000VX001	ST4000VX007	ST3000VX009
SkyHawk [™] Health Management Included ¹	Yes	Yes	Yes	Yes	_
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Features and Performance					
Drive Bays Supported	8+	8+	8+	8+	1 to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	210MB/s	180MB/s	190MB/s	185MB/s
Cache (MB)	256	256	256	64	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	1 per 10E15	1 per 10E14	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) ²	180	180	180	180	180
MTBF	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr
Warranty, Limited (years) ³	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8	2	1.8	1.8	1.8
Average Operating Power (W)	6.8 W	9 W	5 W	5.5 W	3.5 W
Idling Average (W)	4.4 W	7.6 W	3.4 W	3.2 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.6/0.6	0.25/0.25	0.25/0.25	0.25/0.25
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	0	0	0
Operating (drive case, max °C) ⁴	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/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 in	20.2 mm/0.795 in
Width (mm/in, max)	101.85 mm/4.01 in	101.85 mm/4.01 in	101.85 mm/4.01 in	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	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (lb/g)	650 g/1.433 lb	780 g/1.72 lb	610 g/1.345 lb	635 g/1.4 lb	490 g/1.08 lb
Carton Unit Quantity	20	20	20	20	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

^{1 10} TB model available in early CY2018.

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

 $[\]ensuremath{\mathtt{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	2TB	1TB			
Standard Model Numbers	ST2000VX008	ST1000VX005			
SkyHawk [™] Health Management Included ¹	_	_			
Interface	SATA 6 Gb/s	SATA 6 Gb/s			
Features and Performance					
Drive Bays Supported	1 to 8	1 to 8			
Cameras Supported	Up to 64	Up to 64			
Max. Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s			
Cache (MB)	64	64			
Reliability/Data Integrity					
Tarnish Resistant	No	No			
Load/Unload Cycles	300,000	_			
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14			
Power-On Hours per Year (24×7)	8,760	8,760			
Workload Rate Limit (WRL) ²	180	180			
MTBF	1,000,000 hr	1,000,000 hr			
Warranty, Limited (years) ³	3	3			
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8			
Average Operating Power (W)	5.6 W	5.6 W			
Idling Average (W)	4 W	4 W			
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5	0.5/0.5			
Voltage Tolerance (5 V)	±5%	±5%			
Voltage Tolerance (12 V)	±10%	±10%			
Environmental/Temperature					
Operating (ambient, min °C)	0	0			
Operating (drive case, max °C) ⁴	70	70			
Non-operating (ambient, min °C)	-40	-40			
Physical					
Height (mm/in, max)	26.11 mm/1.028 in	20.2 mm/0.795 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)	610 g/1.345 lb	415 g/0.915 lb			
Carton Unit Quantity	20	25			
Cartons per Pallet / Cartons per Layer	40/8	40/8			

- 1 10 TB model available in early CY2018.
- 2 SkyHawk surveillance drives are designed for always-on workloads of 180 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 products.

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