



3.5 HARD DRIVE DATA SHEET Smart. Safe. Secure. Surveillance-Optimised Storage



SkyHawk<sup>™</sup> leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.



## **Best-Fit Applications**

- Network video recorders (NVR)
- Surveillance DVRs





## Key Advantages

**ImagePerfect**<sup>™</sup> **firmware** is designed to ensure seamless video footage capture in 24×7 surveillance workloads<sup>1</sup> that record video from 64 HD cameras.

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.<sup>2</sup> Included is RAID RapidRebuild<sup>™</sup>, which provides 3× faster volume rebuilds over traditional RAID rebuilds.

**RV sensors built in** allow 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.

**1 M hours MTBF, 3-year limited warranty**<sup>3</sup> 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.

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

2 Contact your Seagate sales representative for further information.

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





Specifications	8 TB	6 TB	6 TB	4 TB	3 TB
Standard Model Numbers <sup>1</sup>	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007	ST3000VX009
SkyHawk <sup>™</sup> Health Management Included	Yes	Yes	Yes	Yes	—
Interface	SATA 6 Gb/s				
Features and Performance					
Drive Bays Supported	Up to 16	Up to 16	Up to 16	Up to 16	Up to 8
Cameras Supported	Up to 64				
RV Sensors	Yes	Yes	Yes	Yes	—
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	180MB/s	195MB/s	190MB/s	180MB/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 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) <sup>2</sup>	180	180	180	180	180
MTBF	1,000,000 hr				
Warranty, Limited (years) <sup>3</sup>	3	3	3	3	3
Power Management				-	-
Startup Current, Typical (12V, A)	2	1.8	2	1.8	1.8
Average Operating Power (W)	9 W	5 W	9 W	5.5 W	3.5 W
Idling Average (W)	7.6 W	3.4 W	7.2 W	3.2 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	0.25/0.25	0.6/0.6	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	0	5	0	0
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/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				
Depth (mm/in, max)	146.99 mm/5.787 in				
Weight (lb/g)	780 g/1.72 lb	610 g/1.345 lb	705 g/1.55 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 Later 6 TB and 3 TB models are ST6000VX001 and ST3000VX009.

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.





Specifications	3 TB	2 TB	1 TB
Standard Model Numbers <sup>1</sup>	ST3000VX010	ST2000VX008	ST1000VX005
SkyHawk <sup>TM</sup> Health Management Included	_	-	_
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Features and Performance			
Drive Bays Supported	Up to 8	Up to 8	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64
RV Sensors	_	_	_
Max. Sustained Transfer Rate OD (MB/s)	190MB/s	180MB/s	180MB/s
Cache (MB)	64	64	64
Reliability/Data Integrity			
Tarnish Resistant	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	_
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24×7)	8,760	8,760	8,760
Workload Rate Limit (WRL) <sup>2</sup>	180	180	180
MTBF	1,000,000 hr	1,000,000 hr	1,000,000 hr
Warranty, Limited (years) <sup>3</sup>	3	3	3
Power Management			
Startup Current, Typical (12V, A)	1.8	1.8	1.8
Average Operating Power (W)	5.6 W	5.6 W	5.6 W
Idling Average (W)	4 W	4 W	4 W
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5	0.5/0.5	0.5/0.5
Voltage Tolerance (5 V)	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%
Environmental/Temperature			
Operating (ambient, min °C)	0	0	0
Operating (drive case, max °C) <sup>4</sup>	70	70	70
Non-operating (ambient, min °C)	-40	-40	-40
Physical		·	
Height (mm/in, max)	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
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (lb/g)	490 g/1.08 lb	610 g/1.345 lb	415 g/0.915 lb
Carton Unit Quantity	20	20	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8

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