



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Seagate Surveillance-Specialised Storage



SkyHawk<sup>™</sup> 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**<sup>™</sup> **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.<sup>2</sup>

**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 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.

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 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	10 TB	8 TB	6 TB	6 TB	4 TB			
Standard Model Numbers <sup>1</sup>	ST10000VX0004	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007			
SkyHawk <sup>™</sup> Health Management Included	Yes	Yes	Yes	Yes	Yes			
Interface	SATA 6 Gb/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			
Non-recoverable 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) <sup>2</sup>	180	180	180	180	180			
МТВБ	1,000,000 hr							
Warranty, Limited (years) <sup>3</sup>	3	3	3	3	3			
Power Management								
Startup Current, Typical (12V, A)	1.8	2	1.8	2	1.8			
Average Operating Power (W)	6.8 W	9 W	5 W	9 W	5.5 W			
Idling Average (W)	4.4 W	7.6 W	3.4 W	7.2 W	3.2 W			
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 (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	5	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							
Width (mm/in, max)	101.85 mm/4.01 in							
Depth (mm/in, max)	146.99 mm/5.787 in							
Weight (lb/g)	650 g/1.433 lb	780 g/1.72 lb	610 g/1.345 lb	705 g/1.55 lb	635 g/1.4 lb			
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 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 ТВ	3 ТВ	2 TB	1 TB				
Standard Model Numbers <sup>1</sup>	ST3000VX009	ST3000VX010	ST2000VX008	ST1000VX005				
SkyHawk <sup>™</sup> Health Management Included	_	_	_	_				
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/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	—				
Non-recoverable 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)	8,760	8,760	8,760	8,760				
Workload Rate Limit (WRL) <sup>2</sup>	180	180	180	180				
MTBF	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr				
Warranty, Limited (years) <sup>3</sup>	3	3	3	3				
Power Management								
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8				
Average Operating Power (W)	3.5 W	5.6 W	5.6 W	5.6 W				
Idling Average (W)	2.5 W	4 W	4 W	4 W				
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.5/0.5	0.5/0.5	0.5/0.5				
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%				
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%				
Environmental/Temperature								
Operating (ambient, min °C)	0	0	0	0				
Operating (drive case, max °C) <sup>4</sup>	70	70	70	70				
Non-operating (ambient, min °C)	-40	-40	-40	-40				
Physical								
Height (mm/in, max)	20.2 mm/0.795 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				
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				
Weight (lb/g)	490 g/1.08 lb	610 g/1.35 lb	610 g/1.345 lb	415 g/0.915 lb				
Carton Unit Quantity	25	20	20	25				
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8				

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