



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Seagate Surveillance-Specialized 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 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 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, low transaction workloads (20% duty cycle) of 180TB/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	8TB	6TB	4TB	3ТВ
Standard Model Numbers	ST10000VX0004	ST8000VX0022	ST6000VX0003, ST6000VX0023	ST4000VX007	ST3000VX010
SkyHawk <sup>™</sup> Health Management Included <sup>1</sup>	Yes	Yes	Yes	Yes	_
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/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	195MB/s	190MB/s	180MB/s
Cache (MB)	256	256	256	64	64
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	No
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 10E14	1 per 10E14
Power-On Hours per Year (24×7)	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) <sup>2</sup>	180	180	180	180	180
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years) <sup>3</sup>	3	3	3	3	3
Power Management	*				
Startup Current, Typical (12V, A)	1.8	2	2	1.8	1.8
Average Operating Power (W)	6.8W	9W	9W	5.5W	5.6W
Idle Average (W)	4W	8W	7W	3W	4W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.6/0.6	0.6/0.6	0.25/0.25	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	5	5	0	0
Operating (drive case, max °C) <sup>4</sup>	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	705g/1.55lb	635g/1.40lb	610g/1.35lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8

<sup>1 10</sup>TB model available in early CY2018.

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

<sup>3</sup> Extended warranty options available. Consult your distributor for details.

<sup>4</sup> 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 <sup>™</sup> Health Management Included <sup>1</sup>					
Interface	SATA 6Gb/s	SATA 6Gb/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	_			
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14			
Power-On Hours per Year (24×7)	8760	8760			
Workload Rate Limit (WRL) <sup>2</sup>	180	180			
MTBF	1,000,000hr	1,000,000hr			
Warranty, Limited (years) <sup>3</sup>	3	3			
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8			
Average Operating Power (W)	5.6W	5.6W			
Idle Average (W)	4W	4W			
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5	0.5/0.5			
Voltage Tolerance (5V)	±5%	±5%			
Voltage Tolerance (12V)	±10%	±10%			
Environmental/Temperature					
Operating (ambient, min °C)	0	0			
Operating (drive case, max °C) <sup>4</sup>	70	70			
Nonoperating (ambient, min °C)	-40	-40			
Physical					
Height (mm/in, max)	26.11mm/1.028in	20.20mm/0.795in			
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in			
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in			
Weight (g/lb)	610g/1.35lb	415g/0.915lb			
Carton Unit Quantity	20	25			
Cartons per Pallet/Cartons per Layer	40/8	40/8			

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