



**SKYHAWK**  
SURVEILLANCE



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Seagate Surveillance-Specialised 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



**SKYHAWK**  
HEALTH

## Key Advantages

**ImagePerfect™ firmware** is designed to ensure seamless video footage capture in 24x7 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.

<sup>1</sup> 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.

<sup>2</sup> Contact your Seagate sales representative for further information.

<sup>3</sup> 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	4 TB	3 TB
Standard Model Numbers	ST10000VX0004	ST8000VX0022	ST6000VX0023, ST6000VX0003	ST4000VX007	ST3000VX010
SkyHawk™ Health Management Included <sup>1</sup>	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
<b>Features and Performance</b>					
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
<b>Reliability/Data Integrity</b>					
Tarnish Resistant	Yes	Yes	Yes	Yes	No
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 10E14	1 per 10E14
Power-On Hours per Year (24x7)	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	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	3
<b>Power Management</b>					
Startup Current, Typical (12V, A)	1.8	2	2	1.8	1.8
Average Operating Power (W)	6.8 W	9 W	9 W	5.5 W	5.6 W
Idling Average (W)	4 W	8 W	7 W	3 W	4 W
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 (5 V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	5	5	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
<b>Physical</b>					
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	26.11 mm/1.028 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	705 g/1.55 lb	635 g/1.4 lb	610 g/1.35 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 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.



Specifications	2 TB	1 TB
Standard Model Numbers	ST2000VX008	ST1000VX005
SkyHawk™ Health Management Included <sup>1</sup>	—	—
Interface	SATA 6 Gb/s	SATA 6 Gb/s
<b>Features and Performance</b>		
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
<b>Reliability/Data Integrity</b>		
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 (24x7)	8,760	8,760
Workload Rate Limit (WRL) <sup>2</sup>	180	180
MTBF	1,000,000 hr	1,000,000 hr
Warranty, Limited (years) <sup>3</sup>	3	3
<b>Power Management</b>		
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%
<b>Environmental/Temperature</b>		
Operating (ambient, min °C)	0	0
Operating (drive case, max °C) <sup>4</sup>	70	70
Non-operating (ambient, min °C)	-40	-40
<b>Physical</b>		
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/1.35 lb	415 g/0.915 lb
Carton Unit Quantity	20	25
Cartons per Pallet / Cartons per Layer	40/8	40/8

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