



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Seagate Surveillance-Specialized 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 14TB<sup>3</sup> or over 9345 hours<sup>4</sup> 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>5</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 workloads of 180TB/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> 14TB coming soon

<sup>4</sup> Calculated based on H.264, 1M pixels, medium quality, 15FPS, 1 camera, and 24 hours of recording/day.

<sup>5</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	14TB	12TB	10TB	8TB	6TB
Standard Model Numbers <sup>1,2</sup>	ST14000VX0008	ST12000VX0008	ST10000VX0008	ST8000VX0022	ST6000VX001
SkyHawk™ Health Management Included	Yes	Yes	Yes	Yes	Yes
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>					
Drive Bays Supported	8+	8+	8+	8+	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)	220MB/s	220MB/s	210MB/s	210MB/s	180MB/s
Cache (MB)	256	256	256	256	256
<b>Reliability/Data Integrity</b>					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
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 10E15	1 per 10E14
Power-On Hours per Year (24x7)	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) <sup>3</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>4</sup>	3	3	3	3	3
<b>Power Management</b>					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	2	1.8
Average Operating Power (W)	6.9W	6.9W	6.9W	9W	5W
Idle Average (W)	4.9W	4.9W	4.9W	7.6W	3.4W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.8/0.8	0.8/0.8	0.6/0.6	0.25/0.25
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	5	5	5	5	0
Operating (drive case, max °C) <sup>5</sup>	70	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
<b>Physical</b>					
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)	690g/1.521lb	690g/1.521lb	690g/1.521lb	780g/1.72lb	610g/1.345lb
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 14TB coming soon

2 Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

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

4 Extended warranty options available. Consult your distributor for details.

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



Specifications	6TB	4TB	3TB	3TB	2TB
Standard Model Numbers <sup>1,2</sup>	ST6000VX0023	ST4000VX007	ST3000VX009	ST3000VX010	ST2000VX008
SkyHawk™ Health Management Included	Yes	Yes	—	—	—
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>					
Drive Bays Supported	8+	8+	1 to 8	1 to 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)	195MB/s	190MB/s	180MB/s	190MB/s	180MB/s
Cache (MB)	256	64	256	64	64
<b>Reliability/Data Integrity</b>					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
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 10E14	1 per 10E15	1 per 10E14	1 per 10E14
Power-On Hours per Year (24x7)	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) <sup>3</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>4</sup>	3	3	3	3	3
<b>Power Management</b>					
Startup Current, Typical (12V, A)	2	1.8	1.8	1.8	1.8
Average Operating Power (W)	9W	5.5W	3.5W	5.6W	5.6W
Idle Average (W)	7.2W	3.2W	2.5W	4.0W	4.0W
Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	0.25/0.25	0.25/0.25	0.5/0.5	0.5/0.5
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	5	0	0	0	0
Operating (drive case, max °C) <sup>5</sup>	70	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
<b>Physical</b>					
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in	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)	705g/1.55lb	635g/1.40lb	490g/1.08lb	610g/1.35lb	610g/1.345lb
Carton Unit Quantity	20	20	25	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8

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Specifications	1TB
Standard Model Numbers <sup>1,2</sup>	ST1000VX005
SkyHawk™ Health Management Included	—
Interface	SATA 6Gb/s
<b>Features and Performance</b>	
Drive Bays Supported	1 to 8
Cameras Supported	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	180MB/s
Cache (MB)	64
<b>Reliability/Data Integrity</b>	
Tarnish Resistant	Yes
Load/Unload Cycles	—
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14
Power-On Hours per Year (24x7)	8760
Workload Rate Limit (WRL) <sup>3</sup>	180
MTBF	1,000,000hr
Warranty, Limited (years) <sup>4</sup>	3
<b>Power Management</b>	
Startup Current, Typical (12V, A)	1.8
Average Operating Power (W)	5.6W
Idle Average (W)	4.0W
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5
Voltage Tolerance (5V)	±5%
Voltage Tolerance (12V)	±10%
<b>Environmental/Temperature</b>	
Operating (ambient, min °C)	0
Operating (drive case, max °C) <sup>5</sup>	70
Nonoperating (ambient, min °C)	-40
<b>Physical</b>	
Height (mm/in, max)	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in
Weight (g/lb)	415g/0.915lb
Carton Unit Quantity	25
Cartons per Pallet/Cartons per Layer	40/8

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