



# SKYHAWK

SURVEILLANCE



3.5 HDD DATA SHEET

Smart. Safe. Secure.

Seagate Surveillance-Optimized Storage



Only Seagate has been making drives specifically for surveillance storage for ten years. SkyHawk™ is built to keep systems in the field longer and reduce the need for post-deployment support.



## Best-Fit Applications

- Network video recorders (NVR)
- Embedded surveillance DVRs (SDVR)
- Hybrid surveillance DVRs
- Surveillance DVRs

## Key Advantages

**ImagePerfect™ firmware** supports 24x7 surveillance-optimized workloads tuned to record ~90% of the time and play back video footage the remaining 10%, and supports more cameras recording at higher resolutions than traditional drives.

**Workload rating of 180TB/year** allows SkyHawk to perform reliably in write-intensive surveillance systems—3x the workload rating of a desktop-class drive.<sup>1</sup>

**NVR-ready design** allows drives to maintain performance in RAID and multi-drive systems, giving customers the flexibility to grow with the booming NVR market and scale their systems when more storage is needed.

**ATA streaming support** sustains recordings from up to 64 HD cameras for smooth, uninterrupted footage.

**Up to 10TB or over 2000 hours of HD video storage** supports an increased number of cameras and helps to ensure longer data retention periods are met.

**1M hours MTBF, 3-year limited warranty** 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>2</sup>

<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> Tarnish-resistant components are offered standard on capacities of 4TB or greater.



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Specifications	10TB <sup>1</sup>	8TB <sup>1</sup>	6TB <sup>1</sup>	4TB <sup>1</sup>	3TB <sup>1</sup>	2TB <sup>1</sup>	1TB <sup>1</sup>
Standard Model Numbers	ST10000VX0004	ST8000VX0022	ST6000VX0023	ST4000VX0007	ST3000VX010	ST2000VX008	ST1000VX005
Interface	SATA 6Gb/s	SATA 6Gb/s	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+	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	Up to 64	Up to 64
Max Sustained Transfer Rate OD (MB/s)	210	210	195	190	180	180	180
Cache (MB)	256	256	256	64	64	64	64
<b>Reliability/Data Integrity</b>							
Tarnish Resistant	Yes	Yes	Yes	Yes	No	No	No
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000	300,000	—
Nonrecoverable Read Errors Rate, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per year	8760	8760	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) <sup>2</sup>	180	180	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1M	1M	1M	1M	1M	1M	1M
Warranty, Limited (years)	3	3	3	3	3	3	3
<b>Power Management</b>							
Startup Current, Typical (12V, A)	1.8	2.0	2.0	1.8	1.8	1.8	1.8
Average Operating Power (W)	6.8	9	9	5.5	5.6	5.6	5.6
Idle Average (W)	4.42	7.6	7.2	3.2	4	4	4
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	0.5/0.5	0.5/0.5
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>							
Operating (ambient, min °C)	5	5	5	0	0	0	0
Operating (drive case, max °C) <sup>3</sup>	70	70	70	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40	-40	-40
<b>Physical</b>							
Height (mm/in, max)	26.11/1.028	26.11/1.028	26.11/1.028	26.11/1.028	26.11/1.028	26.11/1.028	20.20/0.795
Width (mm/in, max)	101.85/4.01	101.85/4.01	101.85/4.01	101.85/4.01	101.85/4.01	101.85/4.01	101.85/4.01
Depth (mm/in, max)	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787
Weight (g/lb, typical)	650/1.433	780/1.72	705/1.55	635/1.40	610/1.35	610/1.35	415/0.915
Carton Unit Quantity	20	20	20	20	20	20	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8	40/8	40/8

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

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

<sup>3</sup> Seagate does not recommend operating at sustained case temperatures above 60°C. Operating at higher temperatures will reduce useful life of the product.

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