



# SKYHAWK

SURVEILLANCE



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Surveillance-Optimized Storage



SkyHawk™ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.



## Best-Fit Applications

- Network video recorders (NVR)
- Surveillance DVRs



# SKYHAWK

HEALTH

## Key Advantages

**ImagePerfect™ firmware** is designed to ensure seamless video footage capture in 24x7 surveillance workloads<sup>1</sup> 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> Included is RAID RapidRebuild™, which provides 3x faster volume rebuilds over traditional RAID rebuilds.

**RV sensors built in** allow 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.

**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.

**Unparalleled data protection** with an optional 2-year Rescue Data Recovery Services plan, providing access to Seagate's secure labs with industry-leading data recovery success rates.

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



Specifications	8TB	6TB	6TB	4TB	3TB
Standard Model Numbers <sup>1</sup>	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007	ST3000VX009
SkyHawk™ Health Management Included	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	Up to 16	Up to 16	Up to 16	Up to 16	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	Yes	Yes	Yes	Yes	—
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	180MB/s	195MB/s	190MB/s	180MB/s
Cache (MB)	256	256	256	64	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 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>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
<b>Power Management</b>					
Startup Current, Typical (12V, A)	2	1.8	2	1.8	1.8
Average Operating Power (W)	9W	5W	9W	5.5W	3.5W
Idle Average (W)	7.6W	3.4W	7.2W	3.2W	2.5W
Standby Mode/Sleep Mode, Typical (W)	0.6/0.6	0.25/0.25	0.6/0.6	0.25/0.25	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	0	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
<b>Physical</b>					
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in
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)	780g/1.72lb	610g/1.345lb	705g/1.55lb	635g/1.40lb	490g/1.08lb
Carton Unit Quantity	20	20	20	20	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8

<sup>1</sup> Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

<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	3TB	2TB	1TB
Standard Model Numbers <sup>1</sup>	ST3000VX010	ST2000VX008	ST1000VX005
SkyHawk™ Health Management Included	—	—	—
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>			
Drive Bays Supported	Up to 8	Up to 8	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64
RV Sensors	—	—	—
Max. Sustained Transfer Rate OD (MB/s)	190MB/s	180MB/s	180MB/s
Cache (MB)	64	64	64
<b>Reliability/Data Integrity</b>			
Tarnish Resistant	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	—
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24x7)	8760	8760	8760
Workload Rate Limit (WRL) <sup>2</sup>	180	180	180
MTBF	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years) <sup>3</sup>	3	3	3
<b>Power Management</b>			
Startup Current, Typical (12V, A)	1.8	1.8	1.8
Average Operating Power (W)	5.6W	5.6W	5.6W
Idle Average (W)	4.0W	4.0W	4.0W
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5	0.5/0.5	0.5/0.5
Voltage Tolerance (5V)	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%
<b>Environmental/Temperature</b>			
Operating (ambient, min °C)	0	0	0
Operating (drive case, max °C) <sup>4</sup>	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40
<b>Physical</b>			
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in
Width (mm/in, max)	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
Weight (g/lb)	490g/1.08lb	610g/1.345lb	415g/0.915lb
Carton Unit Quantity	20	20	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8

<sup>1</sup> Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

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