



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Surveillance-Specialised 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.

**Unparalleled data protection** with included 3-year Rescue Data Recovery Services plan, helping protect important video data with Seagate's in-house data recovery services.

**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.

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



Specifications	8 TB	6 TB	4 TB	4 TB	3 TB
Standard Model Numbers	ST8000VX004	ST6000VX001	ST4000VX013	ST4000VX007	ST3000VX009
SkyHawk™ Health Management Included	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
Recording Technology	CMR	CMR	SMR	CMR	CMR
Drive Design	Air	Air	Air	Air	Air
<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	180MB/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	600,000	600,000	300,000	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E15	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per year	8,760	8,760	8,760	8,760	8,760
Workload Rate Limit (WRL) <sup>1</sup>	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr
Warranty, Limited (years) <sup>2</sup>	3	3	3	3	3
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	3	3	3
<b>Power Management</b>					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
Average Operating Power (W)	8.73 W	5 W	3.7 W	5.5 W	3.5 W
Idling Average (W)	7.06 W	3.4 W	2.5 W	3.2 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.96/0.96	0.25/0.25	0.25/0.25	0.25/0.25	0.25/0.25
Voltage Tolerance (5 V)	+10/-5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	5	0	0	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	20.2 mm/0.795 in	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	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 (g/lb, typical)	716 g/1.579 lb	610 g/1.345 lb	490 g/1.08 lb	608 g/1.34 lb	490 g/1.08 lb
Carton Unit Quantity	20	20	25	20	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

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

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

3 From May 1, 2020, 3-year Rescue Data Recovery Services plan may be offered in addition to standard warranty. This is offered for selected regions only. Check with reseller on availability.

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



Specifications	2 TB	2 TB	1 TB	1 TB
Standard Model Numbers	ST2000VX015	ST2000VX008	ST1000VX005	ST1000VX005
SkyHawk™ Health Management Included	—	—	—	—
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Recording Technology	SMR	CMR	CMR	CMR
Drive Design	Air	Air	Air	Air
<b>Features and Performance</b>				
Drive Bays Supported	Up to 8	Up to 8	Up to 8	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	—	—	—	—
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256	64	64	64
<b>Reliability/Data Integrity</b>				
Tarnish Resistant	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	300,000	—	—
Non-recoverable Read Errors Rate, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per year	8,760	8,760	8,760	8,760
Workload Rate Limit (WRL) <sup>1</sup>	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1,000,000 hr	1,000,000 hr	1,000,000 hr	1,000,000 hr
Warranty, Limited (years) <sup>2</sup>	3	3	3	3
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	—	—
<b>Power Management</b>				
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8
Average Operating Power (W)	3.7 W	5.6 W	5.6 W	5.6 W
Idling Average (W)	2.5 W	4 W	4 W	4 W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.5/0.5	0.5/0.5	0.5/0.5
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>				
Operating (ambient, min °C)	0	0	0	0
Operating (drive case, max °C) <sup>4</sup>	70	70	70	70
Non-operating (ambient, min °C)	-40	-40	-40	-40
<b>Physical</b>				
Height (mm/in, max)	20.2 mm/0.795 in	26.11 mm/1.028 in	20.2 mm/0.795 in	20.2 mm/0.795 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
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
Weight (g/lb, typical)	415 g/0.915 lb	610 g/1.345 lb	415 g/0.915 lb	415 g/0.915 lb
Carton Unit Quantity	25	20	25	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8

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