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## 3.5 HARD DRIVE DATA SHEET Smart. Safe. Secure. Surveillance-Specialized Storage



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



## **Best-Fit Applications**

- Network video recorders (NVR)
- Video DVRs







## Key Advantages

**ImagePerfect**<sup>™</sup> **firmware** is designed to ensure seamless video footage capture in 24×7 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<sup>™</sup>, which provides 3× 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.

**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.

2 Contact your Seagate sales representative for further information.

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

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







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Specifications	8	ТВ	6TB		
Standard Model Numbers	ST8000VX010	ST8000VX004	ST6000VX009	ST6000VX001	
SkyHawk <sup>™</sup> Health Management Included	Yes	Yes	Yes	Yes	
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	
Recording Technology	CMR	CMR	CMR	CMR	
Drive Design	Air	Air	Air	Air	
Features and Performance	· ·	·			
Drive Bays Supported	Up to 16	Up to 16	Up to 16	Up to 16	
Cameras Supported	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)	180MB/s	210MB/s	180MB/s	180MB/s	
Cache (MB)	256MB	256MB	256MB	256MB	
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	
Load/Unload Cycles	600,000	600,000	600,000	600,000	
Nonrecoverable Read Errors Rate, Max	1 per 10E14	1 per 10E15	1 per 10E14	1 per 10E14	
Power-On Hours per year	8760	8760	8760	8760	
Workload Rate Limit (WRL)	180	180	180	180	
Mean Time Between Failures (MTBF) (hours)	100000hr	100000hr	1000000hr	1000000hr	
Warranty, Limited (years) <sup>2</sup>	3	3	3	3	
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	3	3	
Power Management					
Startup Current, Typical (12V, A)	1.8A	1.8A	1.8A	1.8A	
Average Operating Power (W)	5.3W	8.73W	5.3W	5.0W	
Idle Average (W)	3.4W	7.06W	3.4W	3.4W	
Standby Mode/Sleep Mode, Typical (W)	0.25W	0.96W	0.25W	0.25W	
Voltage Tolerance (5V)	±5%	+10/-5%	+10/-5% ±5%		
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	
Environmental/Temperature			· · · · · · · · · · · · · · · · · · ·		
Operating (ambient, min °C)	0°C	5°C	0°C	0°C	
Operating (drive reported, max °C) $^4$	65°C	70°C	65°C	70°C	
Nonoperating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	
Physical		·			
Height (mm/in, max)	26.1mm/1.028in	26.11mm/1.028in	26.1mm/1.028in	26.11mm/1.028in	
Width (mm/in, max)	101.6mm/4.00in	101.85mm/4.010in	101.6mm/4.00in	101.85mm/4.01in	
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	
Weight (g/lb, typical)	630g/1.389lb	716g/1.579lb	630g/1.389lb	610g/1.345lb	
Carton Unit Quantity	20	20	20	20	
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	

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Specifications	4TB		3TB		
Standard Model Numbers	ST4000VX016	ST4000VX013	ST3000VX015	ST3000VX009	
SkyHawk <sup>TM</sup> Health Management Included	Yes	Yes	Yes	Yes	
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	
Recording Technology	CMR	SMR	CMR	CMR	
Drive Design	Air	Air	Air	Air	
Features and Performance	· · ·	·			
Drive Bays Supported	Up to 16	Up to 16	Up to 8	Up to 8	
Cameras Supported	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)	180MB/s	180MB/s	180MB/s	180MB/s	
Cache (MB)	256MB	256MB	256MB	256MB	
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	
Load/Unload Cycles	600,000	600,000	600,000	600,000	
Nonrecoverable Read Errors Rate, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	
Power-On Hours per year	8760	8760	8760	8760	
Workload Rate Limit (WRL)	180	180	180	180	
Mean Time Between Failures (MTBF) (hours)	1000000hr	1000000hr	1000000hr	1000000hr	
Warranty, Limited (years) <sup>2</sup>	3	3	3	3	
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	3	3	
Power Management					
Startup Current, Typical (12V, A)	1.8A	1.8A	1.8A	1.8A	
Average Operating Power (W)	3.7W	3.7W	3.7W	3.5W	
Idle Average (W)	2.5W	2.5W	2.5W	2.5W	
Standby Mode/Sleep Mode, Typical (W)	0.25W	0.25W	0.25W	0.25W	
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	
Environmental/Temperature					
Operating (ambient, min °C)	0°C	0°C	0°C	0°C	
Operating (drive reported, max °C) $^4$	65°C	70°C	65°C	70°C	
Nonoperating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	
Physical					
Height (mm/in, max)	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in	
Width (mm/in, max)	101.6mm/4.0in	101.85mm/4.010in	101.6mm/4.0in	101.85mm/4.01in	
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	
Weight (g/lb, typical)	630g/1.389lb	490g/1.08lb	630g/1.389lb	490g/1.08lb	
Carton Unit Quantity	25	25	25	25	
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	





Specifications		2TB			1TB	
Standard Model Numbers	ST2000VX017	ST2000VX015	ST2000VX008	ST1000VX013	ST1000VX005	
SkyHawk <sup>™</sup> Health Management Included	Yes	—	—	Yes	—	
Interface	SATA 6Gb/s					
Recording Technology	CMR	SMR	CMR	CMR	CMR	
Drive Design	Air	Air	Air	Air	Air	
Features and Performance						
Drive Bays Supported	Up to 8					
Cameras Supported	Up to 64					
RV Sensors	-	—	—	-	—	
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s	
Cache (MB)	256MB	256MB	64MB	256MB	64MB	
Reliability/Data Integrity	· · · · ·		1	·		
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes	
Load/Unload Cycles	600,000	600,000	300,000	600,000	—	
Nonrecoverable Read Errors Rate, Max	1 per 10E14					
Power-On Hours per year	8760	8760	8760	8760	8760	
Workload Rate Limit (WRL) <sup>1</sup>	180	180	180	180	180	
Mean Time Between Failures (MTBF) (hours)	1000000hr	1000000hr	1000000hr	1000000hr	1000000hr	
Warranty, Limited (years) <sup>2</sup>	3	3	3	3	3	
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	3	-	_	
Power Management						
Startup Current, Typical (12V, A)	1.8A	1.8A	1.8A	1.8A	1.8A	
Average Operating Power (W)	3.7W	3.7W	5.6W	3.7W	5.6W	
Idle Average (W)	2.5W	2.5W	4.0W	2.5W	4.0W	
Standby Mode/Sleep Mode, Typical (W)	0.25W	0.25W	0.5W	0.25W	0.5W	
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%	
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%	
Environmental/Temperature						
Operating (ambient, min °C)	0°C	0°C	0°C	0°C	0°C	
Operating (drive reported, max °C) <sup>4</sup>	65°C	70°C	70°C	65°C	70°C	
Nonoperating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	-40°C	
Physical						
Height (mm/in, max)	20.20mm/0.795in	20.20mm/0.795in	26.11mm/1.028in	20.20mm/0.795in	20.20mm/0.795in	
Width (mm/in, max)	101.6mm/4.00in	101.85mm/4.01in	101.85mm/4.01in	101.6mm/4.00in	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, typical)	415g/0.915lb	415g/0.915lb	610g/1.345lb	415g/0.915lb	415g/0.915lb	
Carton Unit Quantity	25	25	20	25	25	
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8	

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