

3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Video-Optimized Storage



SEAGATE

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



Best-Fit Applications

- Network video recorders (NVR)
- Video DVRs







Key Advantages

ImagePerfect[™] **firmware** is designed to ensure seamless video footage capture in 24×7 workloads¹ that record video from 64 HD cameras.

SkyHawk Health Management actively helps protect your video storage by focusing on prevention, intervention, and recovery options.² Included is RAID RapidRebuild[™], 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.

1M hours MTBF, 3-year limited warranty³ 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.

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

2 Contact your Seagate sales representative for further information.





Specifications	8TB	8TB	6TB	6TB	4 TB
Standard Model Numbers	ST8000VX004	ST8000VX002	ST6000VX011	ST6000VX001	ST4000VX015
SkyHawk TM Health Management Included	Yes	Yes	Yes	Yes	Yes
Interface	SATA 6Gb/s				
Recording Technology	CMR	SMR	SMR	CMR	CMR
Drive Design	Air	Air	Air	Air	Air
Features and Performance					
Drive Bays Supported	Up to 16				
Cameras Supported	Up to 64				
RV Sensors	Yes	Yes	Yes	Yes	Yes
Max Sustained Transfer Rate OD (MB/s)	210MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256	256	256	256	256
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	600,000	600,000	600,000	600,000
Nonrecoverable Read Errors Rate, Max	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
Workload Rate Limit (WRL) ²	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years) ³	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
Average Operating Power (W)	8.73W	5.3W	5.3W	5.0W	3.7W
Idle Average (W)	7.06W	3.4W	3.4W	3.4W	2.5W
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 (5V)	+10/-5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (ambient, min °C)	5	0	0	0	0
Operating (drive reported, max °C) ⁴	70	70	70	70	65
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
Physical					
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/4.010in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.010in
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)	716g/1.579lb	630g/1.389lb	610g/1.345lb	610g/1.345lb	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

1 Tested and verified using embedded NVR – 64-ch HD recording, 1080P 25 fps H.265 $\,$

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

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





Specifications	4TB	4TB	3TB	3TB	2TB
Standard Model Numbers	ST4000VX005	ST4000VX000	ST3000VX014	ST3000VX009	ST2000VX012
SkyHawk TM Health Management Included	Yes	Yes	Yes	—	_
Interface	SATA 6Gb/s				
Recording Technology	SMR	CMR	CMR	CMR	SMR
Drive Design	Air	Air	Air	Air	Air
Features and Performance					
Drive Bays Supported	Up to 16	Up to 16	Up to 16	Up to 8	Up to 8
Cameras Supported ¹	Up to 64				
RV Sensors	Yes	Yes	Yes	—	_
Max Sustained Transfer Rate OD (MB/s)	180MB/s	190MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256	64	256	256	256
Reliability/Data Integrity					_
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	300,000	600,000	600,000	600,000
Nonrecoverable Read Errors Rate, Max	1 per 10E14				
Power-On Hours per year	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) ²	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years) ³	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8	1.8
Average Operating Power (W)	3.7W	5.5W	3.7W	3.5W	3.7W
Idle Average (W)	2.5W	3.2W	2.5W	2.5W	2.5W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.25/0.25	0.25/0.25	0.25/0.25	0.25/0.25
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (ambient, min °C)	0	0	0	0	0
Operating (drive reported, max °C) ⁴	70	70	65	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
Physical					
Height (mm/in, max)	20.20mm/0.795in	26.11mm/1.028in	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.01in	101.85mm/4.010in	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, typical)	490g/1.08lb	608g/1.34lb	490g/1.08lb	490g/1.08lb	415g/0.915lb
Carton Unit Quantity	25	20	25	25	25
Cartons per Pallet/Cartons per Layer	40/8	40 / 8	40/8	40/8	40/8

1 Tested and verified using embedded NVR – 64-ch HD recording, 1080P 25 fps H.265 $\,$

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

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





Specifications	2TB	1TB	
Standard Model Numbers	ST2000VX003	ST1000VX001	
SkyHawk [™] Health Management Included	_	-	
Interface	SATA 6Gb/s	SATA 6Gb/s	
Recording Technology	CMR	CMR	
Drive Design	Air	Air	
Features and Performance			
Drive Bays Supported	Up to 8	Up to 8	
Cameras Supported ¹	Up to 64	Up to 64	
RV Sensors	_	_	
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	
Cache (MB)	64	64	
Reliability/Data Integrity			
Tarnish Resistant	Yes	Yes	
Load/Unload Cycles	300,000		
Nonrecoverable Read Errors Rate, Max	1 per 10E14	1 per 10E14	
Power-On Hours per year	8760	8760	
Workload Rate Limit (WRL) ²	180	180	
Mean Time Between Failures (MTBF) (hours)	1,000,000hr	1,000,000hr	
Warranty, Limited (years) ³	3	3	
Power Management			
Startup Current, Typical (12V, A)	1.8	1.8	
Average Operating Power (W)	5.6W	5.6W	
Idle Average (W)	4.0W	4.0W	
Standby Mode/Sleep Mode, Typical (W)	0.5/0.5	0.5/0.5	
Voltage Tolerance (5V)	±5%	±5%	
Voltage Tolerance (12V)	±10%	±10%	
Environmental/Temperature			
Operating (ambient, min °C)	0	0	
Operating (drive reported, max °C) ⁴	70	70	
Nonoperating (ambient, min °C)	-40	-40	
Physical			
Height (mm/in, max)	26.11mm/1.028in	20.20mm/0.795in	
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	
Weight (g/lb, typical)	610g/1.345lb	415g/0.915lb	
Carton Unit Quantity	20	25	
Cartons per Pallet/Cartons per Layer	40 / 8	40/8	

1 Tested and verified using embedded NVR – 64-ch HD recording, 1080P 25 fps H.265 $\,$

2 SkyHawk surveillance 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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