



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Surveillance-Specialised Storage

SkyHawk $^{\text{TM}}$ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.





Best-Fit Applications

- Network video recorders (NVR)
- Surveillance DVRs



Key Advantages

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

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.² Included is RAID RapidRebuild[™], which provides 3× 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.

1 M 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.

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.

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 Contact your Seagate sales representative for further information.

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





Specifications	8 TB	8 TB	6 TB	6 TB	4 TB			
Standard Model Numbers ¹	ST8000VX004	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007			
SkyHawk [™] Health Management Included	Yes	Yes	Yes	Yes	Yes			
Interface	SATA 6 Gb/s							
Recording Technology	CMR	CMR	CMR	CMR	CMR			
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	210MB/s	180MB/s	195MB/s	190MB/s			
Cache (MB)	256	256	256	256	64			
Reliability/Data Integrity								
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes			
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000			
Non-recoverable Read Errors Rate, Max	1 per 10E15	1 per 10E15	1 per 10E14	1 per 10E15	1 per 10E14			
Power-On Hours per year	8,760	8,760	8,760	8,760	8,760			
Workload Rate Limit (WRL) ²	180	180	180	180	180			
Mean Time Between Failures (MTBF) (hours)	1,000,000 hr							
Warranty, Limited (years) ³	3	3	3	3	3			
Power Management								
Startup Current, Typical (12V, A)	1.8	2	1.8	2	1.8			
Average Operating Power (W)	8.73 W	9 W	5 W	9 W	5.5 W			
Idling Average (W)	7.06 W	7.6 W	3.4 W	7.2 W	3.2 W			
Standby Mode/Sleep Mode, Typical (W)	0.96/0.96	0.6/0.6	0.25/0.25	0.6/0.6	0.25/0.25			
Voltage Tolerance (5 V)	+10/-5%	±5%	±5%	±5%	±5%			
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%			
Environmental/Temperature								
Operating (ambient, min °C)	5	5	0	5	0			
Operating (drive case, max °C) ⁴	70	70	70	70	70			
Non-operating (ambient, min °C)	-40	-40	-40	-40	-40			
Physical	į.							
Height (mm/in, max)	26.11 mm/1.028 in							
Width (mm/in, max)	101.85 mm/4.01 in							
Depth (mm/in, max)	146.99 mm/5.787 in							
Weight (lb/g)	716 g/1.579 lb	780 g/1.72 lb	610 g/1.345 lb	705 g/1.55 lb	608 g/1.34 lb			
Carton Unit Quantity	20	20	20	20	20			
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8			

¹ Later models are ST8000VX004, ST6000VX001 and ST3000VX009.

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

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

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





Specifications	3 TB	3 TB	2 TB	1 TB				
Standard Model Numbers ¹	ST3000VX009	ST3000VX010	ST2000VX008	ST1000VX005				
SkyHawk [™] Health Management Included	_	_	_	_				
Interface	SATA 6 Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6 Gb/s				
Recording Technology	CMR	CMR	CMR	CMR				
Features and Performance								
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	190MB/s	180MB/s	180MB/s				
Cache (MB)	256	64	64	64				
Reliability/Data Integrity								
Tarnish Resistant	Yes	Yes	Yes	Yes				
Load/Unload Cycles	300,000	300,000	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) ²	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) ³	3	3	3	3				
Power Management								
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8				
Average Operating Power (W)	3.5 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%				
Environmental/Temperature								
Operating (ambient, min °C)	0	0	0	0				
Operating (drive case, max °C) ⁴	70	70	70	70				
Non-operating (ambient, min °C)	-40	-40	-40	-40				
Physical								
Height (mm/in, max)	20.2 mm/0.795 in	26.11 mm/1.028 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				
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 (lb/g)	490 g/1.08 lb	490 g/1.08 lb	610 g/1.345 lb	415 g/0.915 lb				
Carton Unit Quantity	25	20	20	25				
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8				

- 1 Later models are ST8000VX004, ST6000VX001 and ST3000VX009.
- 2 SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.
- 3 Extended warranty options available. Consult your distributor for details.
- 4 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.

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