



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure. Surveillance-Specialized Storage

SkyHawk[™] 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

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 surveillance 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.

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





Specifications	8TB	6TB	4TB	3ТВ	2TB
Standard Model Numbers	ST8000VX009	ST6000VX008	ST4000VX015	ST3000VX014	ST2000VX016
SkyHawk™ Health Management Included	Yes	Yes	Yes	Yes	Yes
Interface	SATA 6Gb/s				
Recording Technology	CMR	CMR	CMR	CMR	CMR
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	Up to 64				
RV Sensors	Yes	Yes	Yes	Yes	_
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256MB	256MB	256MB	256MB	256MB
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 10E14				
Power-On Hours per year	8760	8760	8760	8760	8760
Workload Rate Limit (WRL) 1	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1000000hr	1000000hr	1000000hr	1000000hr	1000000hr
Warranty, Limited (years)3	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8A	1.8A	1.8A	1.8A	1.8A
Average Operating Power (W)	5.3W	5.3W	3.7W	3.7W	3.7W
Idle Average (W)	3.4W	3.4W	2.5W	2.5W	2.5W
Standby Mode/Sleep Mode, Typical (W)	0.25W	0.25W	0.25W	0.25W	0.25W
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) 3	65	65	65	65	65
Nonoperating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	-40°C
Physical					
Height (mm/in, max)	26.1mm/1.028in	26.1mm/1.028in	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in
Width (mm/in, max)	101.6mm/4.0in	101.6mm/4.0in	101.6mm/4.0in	101.6mm/4.0in	101.6mm/4.0in
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)	630g/1.389lb	630g/1.389lb	490g/1.08lb	490g/1.08lb	415g/0.915lb
Carton Unit Quantity	20	20	25	25	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 180TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings. 2 Extended warranty options available. Consult your distributor for details.
3 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.





Specifications	1TB			
Standard Model Numbers	ST1000VX012			
SkyHawk™ Health Management Included	Yes			
Interface	SATA 6Gb/s			
Recording Technology	CMR			
Drive Design	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			
Cache (MB)	256MB			
Reliability/Data Integrity				
Tarnish Resistant	Yes			
Load/Unload Cycles	600,000			
Nonrecoverable Read Errors Rate, Max	1 per 10E14			
Power-On Hours per year	8760			
Workload Rate Limit (WRL)	180			
Mean Time Between Failures (MTBF) (hours)	1000000hr			
Warranty, Limited (years) 3	3			
Power Management				
Startup Current, Typical (12V, A)	1.8A			
Average Operating Power (W)	3.7W			
Idle Average (W)	2.5W			
Standby Mode/Sleep Mode, Typical (W)	0.25W			
Voltage Tolerance (5V)	±5%			
Voltage Tolerance (12V)	±10%			
Environmental/Temperature				
Operating (ambient, min °C)	0°C			
Operating (drive reported, max °C) 3	65			
Nonoperating (ambient, min °C)	-40°C			
Physical				
Height (mm/in, max)	20.20mm/0.795in			
Width (mm/in, max)	101.6mm/4.0in			
Depth (mm/in, max)	146.99mm/5.787in			
Weight (g/lb, typical)	415g/0.915lb			
Carton Unit Quantity	25			
Cartons per Pallet/Cartons per Layer	40/8			

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