

3.5 HARD DRIVE DATA SHEET

**Smart. Safe. Secure.**  
**Video-Optimised Storage**



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



**Best-Fit Applications**

- Network video recorders (NVR)
- Video DVRs



**SKYHAWK**  
**HEALTH**



**Key Advantages**

**ImagePerfect™ firmware** is designed to ensure seamless video footage capture in 24x7 workloads<sup>1</sup> that record video from 64 HD cameras.

**SkyHawk Health Management** actively helps protect your video 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 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 video 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 useful life of the products.



Specifications	8TB	6TB	4TB	3TB	2TB
Standard Model Numbers with SRS	ST8000VX010	ST6000VX009	ST4000VX016	ST3000VX015	ST2000VX017
SkyHawk™ Health Management Included	Yes	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	CMR	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 8	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	-	-
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256MB	256MB	256MB	256MB	256MB
<b>Reliability/Data Integrity</b>					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	600,000	600,000	600,000	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E14	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)	1000000 hr	1000000 hr	1000000 hr	1000000 hr	1000000 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 A	1.8 A	1.8 A	1.8 A	1.8 A
Average Operating Power (W)	5.3 W	5.3 W	3.7 W	3.7 W	3.7 W
Idling Average (W)	3.4 W	3.4 W	2.5 W	2.5 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.25 W	0.25 W	0.25 W	0.25 W	0.25 W
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min °C)	0°C	0°C	0°C	0°C	0°C
Operating (drive reported, max °C) <sup>4</sup>	65°C	65°C	65°C	65°C	65°C
Non-operating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	-40°C
<b>Physical</b>					
Height (mm/in, max)	26.1 mm/1.028 in	26.1 mm/1.028 in	20.20 mm/0.795 in	20.20 mm/0.795 in	20.20 mm/0.795 in
Width (mm/in, max)	101.6 mm/4.00 in	101.6 mm/4.00 in	101.6 mm/4.0 in	101.6 mm/4.0 in	101.6 mm/4.00 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)	630 g/1.389 lb	630 g/1.389 lb	490 g/1.08 lb	490 g/1.08 lb	415 g/0.915 lb
Carton Unit Quantity	20	20	25	25	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

<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> Extended warranty options available. Consult your distributor for details.

<sup>3</sup> 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.

<sup>4</sup> 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 with SRS	ST1000VX013
SkyHawk™ Health Management Included	Yes
Interface	SATA 6 Gb/s
Recording Technology	CMR
Drive Design	Air
<b>Features and Performance</b>	
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
<b>Reliability/Data Integrity</b>	
Tarnish Resistant	Yes
Load/Unload Cycles	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E14
Power-On Hours per year	8,760
Workload Rate Limit (WRL) <sup>1</sup>	180
Mean Time Between Failures (MTBF) (hours)	1000000 hr
Warranty, Limited (years) <sup>2</sup>	3
Rescue Data Recovery Services (years) <sup>3</sup>	-
<b>Power Management</b>	
Startup Current, Typical (12V, A)	1.8 A
Average Operating Power (W)	3.7 W
Idling Average (W)	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.25 W
Voltage Tolerance (5 V)	±5%
Voltage Tolerance (12 V)	±10%
<b>Environmental/Temperature</b>	
Operating (ambient, min °C)	0°C
Operating (drive reported, max °C) <sup>4</sup>	65°C
Non-operating (ambient, min °C)	-40°C
<b>Physical</b>	
Height (mm/in, max)	20.20 mm/0.795 in
Width (mm/in, max)	101.6 mm/4.00 in
Depth (mm/in, max)	146.99 mm/5.787 in
Weight (g/lb, typical)	415 g/0.915 lb
Carton Unit Quantity	25
Cartons per Pallet / Cartons per Layer	40/8

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