



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.
Seagate Surveillance-Specialised Storage



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



Best-Fit Applications

- Network video recorders (NVR)
- Embedded surveillance DVRs (SDVR)
- Hybrid surveillance DVRs
- Surveillance DVRs



SKYHAWK
HEALTH

Key Advantages

ImagePerfect™ firmware is designed to ensure seamless video footage capture in 24x7 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 RAID RapidRebuild™ is the latest feature, which provides 3x 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.

Up to 14 TB³ or over 9,345 hours⁴ of HD video storage support an increased number of HD cameras and allows longer data retention periods.

1 M hours MTBF, 5-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 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

² Contact your Seagate sales representative for further information.

³ 14 TB, 12 TB, and 10 TB coming soon

⁴ Calculated based on H.264, 1M pixels, medium quality, 15FPS, 1 camera, and 24 hours of recording/day.

⁵ SkyHawk surveillance drives are designed to operate under ambient operating temperatures of 0°C to 60°C and normal environments. Usage of drives in higher temperatures or other extreme environmental conditions will reduce useful life.



| Specifications | 14 TB | 12 TB | 10 TB | 10 TB | 8 TB |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers ^{1,2} | ST14000VX0008 | ST12000VX0008 | ST10000VX0008 | ST10000VX0004 | ST8000VX0022 |
| 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 |
| Features and Performance | | | | | |
| Drive Bays Supported | Up to 16 | 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 | Up to 64 |
| RV Sensors | Yes | Yes | Yes | Yes | Yes |
| Max. Sustained Transfer Rate OD (MB/s) | 210MB/s | 210MB/s | 210MB/s | 210MB/s | 210MB/s |
| Cache (MB) | 256 | 256 | 256 | 256 | 256 |
| 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 per Bits Read, Max | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours per Year (24x7) | 8,760 | 8,760 | 8,760 | 8,760 | 8,760 |
| Workload Rate Limit (WRL) ³ | 180 | 180 | 180 | 180 | 180 |
| MTBF | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr |
| Warranty, Limited (years) ⁴ | 3 | 3 | 3 | 3 | 3 |
| Power Management | | | | | |
| Startup Current, Typical (12V, A) | 1.8 | 1.8 | 1.8 | 1.8 | 2 |
| Average Operating Power (W) | 6.9 W | 6.9 W | 6.9 W | 6.8 W | 9 W |
| Idling Average (W) | 4.9 W | 4.9 W | 4.9 W | 4.4 W | 7.6 W |
| Standby Mode/Sleep Mode, Typical (W) | 1.2/1.2 | 1.2/1.2 | 1.2/1.2 | 0.8/0.8 | 0.6/0.6 |
| Voltage Tolerance (5 V) | ±5% | ±5% | ±5% | ±5% | ±5% |
| Voltage Tolerance (12 V) | ±10% | ±10% | ±10% | ±10% | ±10% |
| Environmental/Temperature | | | | | |
| Operating (ambient, min °C) | 5 | 5 | 5 | 5 | 5 |
| Operating (drive case, max °C) ⁵ | 70 | 70 | 70 | 70 | 70 |
| Non-operating (ambient, min °C) | -40 | -40 | -40 | -40 | -40 |
| Physical | | | | | |
| Height (mm/in, max) | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 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 | 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 | 146.99 mm/5.787 in |
| Weight (lb/g) | 690 g/1.521 lb | 690 g/1.521 lb | 690 g/1.521 lb | 650 g/1.433 lb | 780 g/1.72 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 14 TB, 12 TB, and 10 TB coming soon

2 Later 6 TB and 3 TB models are ST6000VX001 and ST3000VX009.

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

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

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



| Specifications | 6 TB | 6 TB | 4 TB | 3 TB | 3 TB |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers ^{1,2} | ST6000VX001 | ST6000VX0023 | ST4000VX007 | ST3000VX009 | ST3000VX010 |
| SkyHawk™ Health Management Included | Yes | Yes | Yes | — | — |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s |
| 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 | 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 | 195MB/s | 190MB/s | 180MB/s | 190MB/s |
| Cache (MB) | 256 | 256 | 64 | 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 per Bits Read, Max | 1 per 10E14 | 1 per 10E15 | 1 per 10E14 | 1 per 10E14 | 1 per 10E14 |
| Power-On Hours per Year (24x7) | 8,760 | 8,760 | 8,760 | 8,760 | 8,760 |
| Workload Rate Limit (WRL) ³ | 180 | 180 | 180 | 180 | 180 |
| MTBF | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr |
| Warranty, Limited (years) ⁴ | 3 | 3 | 3 | 3 | 3 |
| Power Management | | | | | |
| Startup Current, Typical (12V, A) | 1.8 | 2 | 1.8 | 1.8 | 1.8 |
| Average Operating Power (W) | 5 W | 9 W | 5.5 W | 3.5 W | 5.6 W |
| Idling Average (W) | 3.4 W | 7.2 W | 3.2 W | 2.5 W | 4 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.25/0.25 | 0.6/0.6 | 0.25/0.25 | 0.25/0.25 | 0.5/0.5 |
| Voltage Tolerance (5 V) | ±5% | ±5% | ±5% | ±5% | ±5% |
| Voltage Tolerance (12 V) | ±10% | ±10% | ±10% | ±10% | ±10% |
| Environmental/Temperature | | | | | |
| Operating (ambient, min °C) | 0 | 5 | 0 | 0 | 0 |
| Operating (drive case, max °C) ⁵ | 70 | 70 | 70 | 70 | 70 |
| Non-operating (ambient, min °C) | -40 | -40 | -40 | -40 | -40 |
| Physical | | | | | |
| Height (mm/in, max) | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 20.2 mm/0.795 in | 26.11 mm/1.028 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 | 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 | 146.99 mm/5.787 in |
| Weight (lb/g) | 610 g/1.345 lb | 705 g/1.55 lb | 635 g/1.4 lb | 490 g/1.08 lb | 610 g/1.35 lb |
| Carton Unit Quantity | 20 | 20 | 20 | 25 | 20 |
| Carts per Pallet / Carts per Layer | 40/8 | 40/8 | 40/8 | 40/8 | 40/8 |

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| Specifications | 2 TB | 1 TB |
|--|--------------------|--------------------|
| Standard Model Numbers ^{1,2} | ST2000VX008 | ST1000VX005 |
| SkyHawk™ Health Management Included | — | — |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s |
| Features and Performance | | |
| Drive Bays Supported | Up to 8 | Up to 8 |
| Cameras Supported | 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 | — |
| Non-recoverable Read Errors per Bits Read, Max | 1 per 10E14 | 1 per 10E14 |
| Power-On Hours per Year (24x7) | 8,760 | 8,760 |
| Workload Rate Limit (WRL) ³ | 180 | 180 |
| MTBF | 1,000,000 hr | 1,000,000 hr |
| Warranty, Limited (years) ⁴ | 3 | 3 |
| Power Management | | |
| Startup Current, Typical (12V, A) | 1.8 | 1.8 |
| Average Operating Power (W) | 5.6 W | 5.6 W |
| Idling Average (W) | 4 W | 4 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.5/0.5 | 0.5/0.5 |
| Voltage Tolerance (5 V) | ±5% | ±5% |
| Voltage Tolerance (12 V) | ±10% | ±10% |
| Environmental/Temperature | | |
| Operating (ambient, min °C) | 0 | 0 |
| Operating (drive case, max °C) ⁵ | 70 | 70 |
| Non-operating (ambient, min °C) | -40 | -40 |
| Physical | | |
| Height (mm/in, max) | 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 |
| Depth (mm/in, max) | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (lb/g) | 610 g/1.345 lb | 415 g/0.915 lb |
| Carton Unit Quantity | 20 | 25 |
| Cartons per Pallet / Cartons per Layer | 40/8 | 40/8 |

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AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
 ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
 EUROPE, MIDDLE EAST, AND AFRICA Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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