



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.
Surveillance-Specialised Storage



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



Best-Fit Applications

- Network video recorders (NVR)
- 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 Included is RAID RapidRebuild™, which provides 3x 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.

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.

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 | 6 TB | 4 TB | 4 TB | 3 TB |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers | ST8000VX004 | ST6000VX001 | ST4000VX013 | ST4000VX007 | ST3000VX009 |
| SkyHawk™ Health Management Included | 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 | SMR | 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 16 | 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 | Yes | — |
| Max Sustained Transfer Rate OD (MB/s) | 210MB/s | 180MB/s | 180MB/s | 190MB/s | 180MB/s |
| Cache (MB) | 256 | 256 | 256 | 64 | 256 |
| Reliability/Data Integrity | | | | | |
| Tarnish Resistant | Yes | Yes | Yes | Yes | Yes |
| Load/Unload Cycles | 300,000 | 600,000 | 600,000 | 300,000 | 600,000 |
| Non-recoverable Read Errors Rate, Max | 1 per 10E15 | 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) ¹ | 180 | 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 | 1,000,000 hr |
| Warranty, Limited (years) ² | 3 | 3 | 3 | 3 | 3 |
| Rescue Data Recovery Services (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) | 8.73 W | 5 W | 3.7 W | 5.5 W | 3.5 W |
| Idling Average (W) | 7.06 W | 3.4 W | 2.5 W | 3.2 W | 2.5 W |
| 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 (5 V) | +10/-5% | ±5% | ±5% | ±5% | ±5% |
| Voltage Tolerance (12 V) | ±10% | ±10% | ±10% | ±10% | ±10% |
| Environmental/Temperature | | | | | |
| Operating (ambient, min °C) | 5 | 0 | 0 | 0 | 0 |
| Operating (drive case, max °C) ⁴ | 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 | 20.2 mm/0.795 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 | 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 (g/lb, typical) | 716 g/1.579 lb | 610 g/1.345 lb | 490 g/1.08 lb | 608 g/1.34 lb | 490 g/1.08 lb |
| Carton Unit Quantity | 20 | 20 | 25 | 20 | 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 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

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

3 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.

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



| Specifications | 2TB | 2 TB | 1 TB |
|--|--------------------|--------------------|--------------------|
| Standard Model Numbers | ST2000VX015 | ST2000VX008 | ST1000VX005 |
| SkyHawk™ Health Management Included | — | — | — |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s |
| Recording Technology | SMR | CMR | CMR |
| Drive Design | Air | Air | Air |
| Features and Performance | | | |
| Drive Bays Supported | Up to 8 | Up to 8 | Up to 8 |
| Cameras Supported | Up to 64 | Up to 64 | Up to 64 |
| RV Sensors | — | — | — |
| Max Sustained Transfer Rate OD (MB/s) | 180MB/s | 180MB/s | 180MB/s |
| Cache (MB) | 256 | 64 | 64 |
| Reliability/Data Integrity | | | |
| Tarnish Resistant | Yes | Yes | Yes |
| Load/Unload Cycles | 600,000 | 300,000 | — |
| Non-recoverable Read Errors Rate, Max | 1 per 10E14 | 1 per 10E14 | 1 per 10E14 |
| Power-On Hours per year | 8,760 | 8,760 | 8,760 |
| Workload Rate Limit (WRL) ¹ | 180 | 180 | 180 |
| Mean Time Between Failures (MTBF) (hours) | 1,000,000 hr | 1,000,000 hr | 1,000,000 hr |
| Warranty, Limited (years) ² | 3 | 3 | 3 |
| Rescue Data Recovery Services (years) ³ | 3 | 3 | — |
| Power Management | | | |
| Startup Current, Typical (12V, A) | 1.8 | 1.8 | 1.8 |
| Average Operating Power (W) | 3.7 W | 5.6 W | 5.6 W |
| Idling Average (W) | 2.5 W | 4 W | 4 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.25/0.25 | 0.5/0.5 | 0.5/0.5 |
| Voltage Tolerance (5 V) | ±5% | ±5% | ±5% |
| Voltage Tolerance (12 V) | ±10% | ±10% | ±10% |
| Environmental/Temperature | | | |
| Operating (ambient, min °C) | 0 | 0 | 0 |
| Operating (drive case, max °C) ⁴ | 70 | 70 | 70 |
| Non-operating (ambient, min °C) | -40 | -40 | -40 |
| Physical | | | |
| Height (mm/in, max) | 20.2 mm/0.795 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 |
| Depth (mm/in, max) | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical) | 415 g/0.915 lb | 610 g/1.345 lb | 415 g/0.915 lb |
| Carton Unit Quantity | 25 | 20 | 25 |
| Cartons per Pallet / Cartons per Layer | 40/8 | 40/8 | 40/8 |

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

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