

3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.
Surveillance-Optimised Storage



Seagate® SkyHawk™ AI is the world's first, purpose-built drive for artificial intelligence (AI)-enabled surveillance solutions.



Best-Fit Applications

- Network video recorders (NVR)
- AI-enabled NVR systems



SKYHAWK
HEALTH

Key Advantages

ImagePerfect™ AI firmware for superior image integrity alongside additional AI workload support in always-on, AI-enabled surveillance systems.

Custom designed to support an additional 32 AI streams while simultaneously and flawlessly recording footage up to 64 HD cameras.

Designed and built to handle heavy surveillance workloads in traditional video recording and in advanced video analytics environments. At 550 TB/year, SkyHawk AI is designed for 3× the workload of standard surveillance drives.

Advanced vibration management for superior and sustained performance in 16+ bay NVR systems.

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.¹ Included is RAID RapidRebuild™, which provides 3× faster volume rebuilds.

Improved reliability and reduced total cost of ownership with 1.5M-hr. MTBF and 3-year limited warranty.

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 Contact your Seagate sales representative for further information.



| Specifications | 14 TB | 12 TB | 10 TB | 10 TB | 8 TB |
|------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity | 14TB | 12TB | 10TB | 10TB | 8TB |
| Standard Model Numbers | ST14000VE0008 | ST12000VE0008 | ST10000VE0008 | ST10000VE0004 | ST8000VE000 |
| 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 | 16+ | 16+ | 16+ | 16+ | 16+ |
| AI Streams ¹ | 32 | 32 | 32 | 32 | 32 |
| HD 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) | 250MB/s | 250MB/s | 250MB/s | 235MB/s | 235MB/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) ² | 550 | 550 | 550 | 550 | 550 |
| MTBF | 1,500,000 hr | 1,500,000 hr | 1,500,000 hr | 1,500,000 hr | 1,500,000 hr |
| Warranty, Limited (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) | 6.9 W | 6.9 W | 6.9 W | 7.2 W | 8.73 W |
| Idling Average (W) | 4.9 W | 4.9 W | 4.9 W | 4.9 W | 7.5 W |
| Standby Mode/Sleep Mode, Typical (W) | 1.2/1.2 | 1.2/1.2 | 1.2/1.2 | 0.8/0.8 | 0.96/0.96 |
| Voltage Tolerance (5 V) | ±5% | ±5% | ±5% | ±5% | +10%/-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) 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 | 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 | 716 g/1.579 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 32 AI streams = 16 AI channels.

² SkyHawk AI surveillance drives are designed for always-on workloads of 550 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 product.



| Specifications | 8 TB |
|------------------------------------------------|--------------------|
| Capacity | 8TB |
| Standard Model Numbers | ST8000VE0004 |
| Interface | SATA 6 Gb/s |
| Features and Performance | |
| Drive Bays Supported | 16+ |
| AI Streams ¹ | 32 |
| HD Cameras Supported | Up to 64 |
| RV Sensors | Yes |
| Max. Sustained Transfer Rate OD (MB/s) | 235MB/s |
| Cache (MB) | 256 |
| Reliability/Data Integrity | |
| Tarnish Resistant | Yes |
| Load/Unload Cycles | 300,000 |
| Non-recoverable Read Errors per Bits Read, Max | 1 per 10E15 |
| Power-On Hours per Year (24x7) | 8,760 |
| Workload Rate Limit (WRL) ² | 550 |
| MTBF | 1,500,000 hr |
| Warranty, Limited (years) ³ | 3 |
| Power Management | |
| Startup Current, Typical (12V, A) | 1.8 |
| Average Operating Power (W) | 7.2 W |
| Idling Average (W) | 4.9 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.8/0.8 |
| Voltage Tolerance (5 V) | ±5% |
| Voltage Tolerance (12 V) | ±10% |
| Environmental/Temperature | |
| Operating (ambient, min °C) | 5 |
| Operating (drive case, max °C) ⁴ | 70 |
| Non-operating (ambient, min °C) | -40 |
| Physical | |
| 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) | 650 g/1.433 lb |
| Carton Unit Quantity | 20 |
| Cartons per Pallet / Cartons per Layer | 40/8 |

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