



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Optimised for Surveillance AI Applications



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
- Video-edge NVRs
- NVRs with advanced analytics

## 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 16 AI streams** while simultaneously and flawlessly recording footage up to 64 HD cameras.

**Designed to handle heavy workloads** expected in always-on, AI-enabled surveillance systems. At 550 TB/year, SkyHawk AI is designed for more than 3× the workload of standard surveillance drives.

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

**Improved reliability** and reduced total cost of ownership with 2M hour MTBF and 5-year limited warranty.

**Unparalleled data protection** with a complimentary 2-year Rescue Data Recovery Services plan bundled with every SkyHawk AI drive, providing access to Seagate's secure labs with industry-leading data recovery success rates.



| Specifications                                 | 10TB               | 8TB                |
|--|--------------------|--------------------|
| Standard Model Numbers <sup>1</sup>            | ST10000VE0004      | ST8000VE0004       |
| Interface                                      | SATA 6 Gb/s        | SATA 6 Gb/s        |
| <b>Features and Performance</b>                |                    |                    |
| Drive Bays Supported                           | 16+                | 16+                |
| AI Streams <sup>1</sup>                        | 16                 | 16                 |
| HD Cameras Supported                           | Up to 64           | Up to 64           |
| Max. Sustained Transfer Rate OD (MB/s)         | 214MB/s            | 214MB/s            |
| Cache (MB)                                     | 256                | 256                |
| <b>Reliability/Data Integrity</b>              |                    |                    |
| Tarnish Resistant                              | Yes                | Yes                |
| Load/Unload Cycles                             | 300,000            | 300,000            |
| Non-recoverable Read Errors per Bits Read, Max | 1 per 10E15        | 1 per 10E15        |
| Power-On Hours per Year (24x7)                 | 8,760              | 8,760              |
| Workload Rate Limit (WRL) <sup>2</sup>         | 550                | 550                |
| MTBF   | 2,000,000 hr       | 2,000,000 hr       |
| Warranty, Limited (years) <sup>3</sup>         | 5                  | 5                  |
| <b>Power Management</b>                        |                    |                    |
| Startup Current, Typical (12V, A)              | 1.8                | 1.8                |
| Average Operating Power (W)                    | 7.2 W              | 7.2 W              |
| Idling Average (W)                             | 4.9 W              | 4.9 W              |
| Standby Mode/Sleep Mode, Typical (W)           | 1.2/1.2            | 1.2/1.2            |
| Voltage Tolerance (5 V)                        | ±5%                | ±5%                |
| Voltage Tolerance (12 V)                       | ±10%               | ±10%               |
| <b>Environmental/Temperature</b>               |                    |                    |
| Operating (ambient, min °C)                    | 5                  | 5                  |
| Operating (drive case, max °C) <sup>4</sup>    | 70                 | 70                 |
| Non-operating (ambient, min °C)                | -40                | -40                |
| <b>Physical</b>                                |                    |                    |
| Height (mm/in, max)                            | 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  |
| Depth (mm/in, max)                             | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (lb/g)                                  | 650 g/1.433 lb     | 650 g/1.433 lb     |
| Carton Unit Quantity                           | 20                 | 20                 |
| Cartons per Pallet / Cartons per Layer         | 40/8               | 40/8               |

<sup>1</sup> 16 AI streams = 8 AI channels.

<sup>2</sup> 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.

<sup>3</sup> Extended warranty options available. Consult your distributor for details.

<sup>4</sup> Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the product.

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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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