Seagate® SkyHawk™ AI is the world’s first, purpose-built drive for artificial intelligence (AI)-enabled surveillance solutions. ImagePerfect™ AI firmware, Custom designed to support an additional 32 AI streams, 3.5in SATA 6Gb/s, 256MB Cache, 3 Year Manufacturer Warranty, MTBF 1,500,000 hr

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 advanced video analytics environments. At 550TB/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.

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specifications</th>
<th>16TB</th>
<th>14TB</th>
<th>12TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>16TB</td>
<td>14TB</td>
<td>12TB</td>
</tr>
<tr>
<td>Standard Model Numbers</td>
<td>ST16000VE000</td>
<td>ST14000VE0008</td>
<td>ST12000VE0008</td>
</tr>
</tbody>
</table>

### Features and Performance

<table>
<thead>
<tr>
<th>Features and Performance</th>
<th>16TB</th>
<th>14TB</th>
<th>12TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive Bays Supported</td>
<td>16+</td>
<td>16+</td>
<td>16+</td>
</tr>
<tr>
<td>AI Streams$^1$</td>
<td>32</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>HD Cameras Supported</td>
<td>Up to 64</td>
<td>Up to 64</td>
<td>Up to 64</td>
</tr>
<tr>
<td>RV Sensors</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Max. Sustained Transfer Rate OD (MB/s)</td>
<td>250MB/s</td>
<td>250MB/s</td>
<td>250MB/s</td>
</tr>
<tr>
<td>Cache (MB)</td>
<td>256</td>
<td>256</td>
<td>256</td>
</tr>
</tbody>
</table>

### Reliability/Data Integrity

<table>
<thead>
<tr>
<th>Reliability/Data Integrity</th>
<th>16TB</th>
<th>14TB</th>
<th>12TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tarnish Resistant</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Load/Unload Cycles</td>
<td>300,000</td>
<td>300,000</td>
<td>300,000</td>
</tr>
<tr>
<td>Nonrecoverable Read Errors per Bits Read, Max</td>
<td>1 per 10E15</td>
<td>1 per 10E15</td>
<td>1 per 10E15</td>
</tr>
<tr>
<td>Power-On Hours per Year (24×7)</td>
<td>8760</td>
<td>8760</td>
<td>8760</td>
</tr>
<tr>
<td>Workload Rate Limit (WRL)$^2$</td>
<td>550</td>
<td>550</td>
<td>550</td>
</tr>
<tr>
<td>MTBF</td>
<td>1,500,000hr</td>
<td>1,500,000hr</td>
<td>1,500,000hr</td>
</tr>
<tr>
<td>Warranty, Limited (years)$^3$</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Power Management

<table>
<thead>
<tr>
<th>Power Management</th>
<th>16TB</th>
<th>14TB</th>
<th>12TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Startup Current, Typical (12V, A)</td>
<td>1.8</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>Average Operating Power (W)</td>
<td>6.71W</td>
<td>6.9W</td>
<td>6.9W</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------------------------------</td>
<td>--------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Idle Average (W)</td>
<td>5.1W</td>
<td>4.9W</td>
<td>4.9W</td>
</tr>
<tr>
<td>Standby Mode/Sleep Mode, Typical (W)</td>
<td>1.05/1.05</td>
<td>1.2/1.2</td>
<td>1.2/1.2</td>
</tr>
<tr>
<td>Voltage Tolerance (5V)</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Voltage Tolerance (12V)</td>
<td>±10%</td>
<td>±10%</td>
<td>±10%</td>
</tr>
<tr>
<td><strong>Environmental/Temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating (ambient, min °C)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Operating (drive case, max °C)</td>
<td>70</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>Nonoperating (ambient, min °C)</td>
<td>−40</td>
<td>−40</td>
<td>−40</td>
</tr>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height (mm/in, max)</td>
<td>26.11mm/1.028in</td>
<td>26.11mm/1.028in</td>
<td>26.11mm/1.028in</td>
</tr>
<tr>
<td>Width (mm/in, max)</td>
<td>101.85mm/4.01in</td>
<td>101.85mm/4.01in</td>
<td>101.85mm/4.01in</td>
</tr>
<tr>
<td>Depth (mm/in, max)</td>
<td>146.99mm/5.787in</td>
<td>146.99mm/5.787in</td>
<td>146.99mm/5.787in</td>
</tr>
<tr>
<td>Weight (g/lb)</td>
<td>670g/1.477lb</td>
<td>690g/1.521lb</td>
<td>690g/1.521lb</td>
</tr>
</tbody>
</table>

1. 32 AI streams = 16 AI channels.
2. SkyHawk AI surveillance drives are designed for always-on workloads of 550TB/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 th