

Seagate SkyHawk AI ST16000VE005 - hard drive - 16 TB - SATA 6Gb/s(ST16000VE005)

Seagate SkyHawk AI ST16000VE005 - Hard drive - 16 TB - internal - 3.5" - SATA 6Gb/s - buffer: 512 MB - with 3 years Seagate Rescue Data Recovery



The Seagate SkyHawk AI ST16000VE005 is designed for demanding environments, offering a substantial 16 TB capacity to meet the needs of large-scale data storage. This internal hard drive features a robust helium-sealed design that enhances reliability while providing efficient performance. With a data transfer rate of 240 GBps and an internal data rate of 229 MBps, it ensures quick access to stored data, suitable for surveillance and AI applications. The RV sensor and rotation vibration sensor work together to maintain data integrity under challenging conditions, making it suitable for continuous recording. Coupled with ImagePerfect firmware, this drive enables smooth video playback and recording without interruptions, helping to manage large data loads while providing peace of mind with a bundled 3-year Seagate Rescue Data Recovery service.

Key Selling Points

- 16 TB storage capacity for high data demands
- Data transfer rate of 240 GBps for efficient performance
- Helium-sealed design for improved reliability
- RV sensor to maintain data integrity
- 3-year Seagate Rescue Data Recovery included

Product Features

- Reliable storage capacity**  
With a generous 16 TB of storage, the Seagate SkyHawk AI is capable of handling large volumes of data seamlessly, making it an option for users in need of substantial space for their valuable information.
- Enhanced data transfer speeds**  
Achieve efficient performance with a data transfer rate of 240 GBps and an internal data rate of 229 MBps, ensuring that data can be accessed and utilized at faster speeds to meet user demands.
- Durable design**  
The helium-sealed design creates a lighter drive while increasing reliability and longevity, making it suitable for long-term usage in various conditions.
- Preventive sensors**  
Equipped with RV sensor and rotation vibration sensor, the hard drive adapts to its environment, preserving data integrity during operation and minimizing potential data loss.
- Extended service warranty**  
The Seagate SkyHawk AI includes a robust 3-year Rescue Data Recovery service, providing assurance and support in case of unexpected data challenges.

Main Specifications

|                     |                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Seagate SkyHawk AI ST16000VE005 - hard drive - 16 TB - SATA 6Gb/s                                                                                 |
| Type                | Hard drive - internal                                                                                                                             |
| Capacity            | 16 TB                                                                                                                                             |
| Form Factor         | 3.5"                                                                                                                                              |
| Interface           | SATA 6Gb/s                                                                                                                                        |
| Data Transfer Rate  | 240 GBps                                                                                                                                          |
| Buffer Size         | 512 MB                                                                                                                                            |
| Features            | Conventional magnetic recording (CMR), Helium Sealed-Drive Design, rotation vibration sensor, tarnish-resistant, ImagePerfect firmware, RV Sensor |
| Dimensions (WxDxH)  | 101.85 mm x 147 mm x 26.1 mm                                                                                                                      |
| Weight              | 695 g                                                                                                                                             |

|                       |                                      |
|-----------------------|--------------------------------------|
| Manufacturer Warranty | 5-year warranty                      |
| Bundled with          | 3 years Seagate Rescue Data Recovery |

## Extended Specification

### General

|              |                                                                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Type  | Hard drive - internal                                                                                                                             |
| Capacity     | 16 TB                                                                                                                                             |
| Form Factor  | 3.5"                                                                                                                                              |
| Interface    | SATA 6Gb/s                                                                                                                                        |
| Buffer Size  | 512 MB                                                                                                                                            |
| Features     | Conventional magnetic recording (CMR), Helium Sealed-Drive Design, rotation vibration sensor, tarnish-resistant, ImagePerfect firmware, RV Sensor |
| Width        | 101.85 mm                                                                                                                                         |
| Depth        | 147 mm                                                                                                                                            |
| Height       | 26.1 mm                                                                                                                                           |
| Weight       | 695 g                                                                                                                                             |
| Bundled with | 3 years Seagate Rescue Data Recovery                                                                                                              |

### Manufacturer Warranty

|                   |                            |
|-------------------|----------------------------|
| Service & Support | Limited warranty - 5 years |
|-------------------|----------------------------|

### Power

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Power Consumption | 8.2 Watt (average)   6.7 Watt (idle)   1.2 Watt (sleep)   1.2 Watt (standby) |
|-------------------|------------------------------------------------------------------------------|

### Environmental Parameters

|                           |        |
|---------------------------|--------|
| Min Operating Temperature | 10 °C  |
| Max Operating Temperature | 60 °C  |
| Min Storage Temperature   | -40 °C |

### Performance

|                     |                     |
|---------------------|---------------------|
| Drive Transfer Rate | 240 GBps (external) |
| Internal Data Rate  | 229 MBps            |

### Reliability

|                        |                        |
|------------------------|------------------------|
| MTBF                   | 2500000 hours          |
| Non-Recoverable Errors | 1 per 10 <sup>15</sup> |
| Load / Unload Cycles   | 600,000                |

### Software & System Requirements

|                   |                           |
|-------------------|---------------------------|
| Software Included | SkyHawk Health Management |
|-------------------|---------------------------|

### Expansion & Connectivity

|                |                 |
|----------------|-----------------|
| Interfaces     | 1 x SATA 6 Gb/s |
| Compatible Bay | 3.5"            |

## What's in the box

Seagate SkyHawk AI ST16000VE005 - hard drive  
3 years Seagate Rescue Data Recovery  
Software

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet