

Seagate ST4000DM004

Seagate Barracuda 4TB Internal Hard Drive (ST4000DM004) User Manual

Model: ST4000DM004

Introduction	Safety Information	Setup	Operating	Maintenance	Troubleshooting
	Specifications		Warranty & Support		

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Seagate Barracuda 4TB Internal Hard Drive (Model: ST4000DM004). This 3.5-inch SATA 6 Gb/s hard drive is designed for desktop PC applications, offering reliable storage for various data needs.

What's in the Box

- Seagate Barracuda 4TB SATA Hard Drive (ST4000DM004)

Note: SATA data and power cables are typically not included and must be purchased separately or sourced from your computer's power supply and motherboard.



Figure 1: Front view of the Seagate Barracuda 4TB Internal Hard Drive (ST4000DM004).

2. SAFETY INFORMATION

Always observe the following safety precautions when handling or installing your hard drive:

- **Electrostatic Discharge (ESD) Protection:** Always wear an anti-static wrist strap or frequently touch a grounded metal object (like your computer chassis) before handling the drive to prevent damage from static electricity.
- **Power Disconnection:** Ensure your computer is completely powered off and unplugged from the wall outlet before installing or removing the hard drive.
- **Handle with Care:** Hard drives are delicate. Avoid dropping, jarring, or exposing the drive to excessive vibration. Hold the drive by its edges, not by the circuit board or connector pins.
- **Ventilation:** Ensure adequate airflow around the drive within your computer case to prevent overheating.
- **Environmental Conditions:** Operate the drive within specified temperature and humidity ranges. Refer to the specifications section for details.

3. SETUP AND INSTALLATION

3.1 Physical Installation

1. **Prepare your computer:** Power down your computer, unplug it, and open the computer case.
2. **Locate a drive bay:** Identify an available 3.5-inch drive bay in your computer case.
3. **Mount the drive:** Slide the hard drive into the drive bay. Secure it using screws on both sides of the drive, ensuring it is firmly in place.
4. **Connect cables:**
 - Connect a SATA data cable from the hard drive to an available SATA port on your motherboard.
 - Connect a SATA power cable from your power supply unit (PSU) to the hard drive.
5. **Close the case:** Once cables are securely connected, close your computer case and reconnect the power.



Figure 2: Side view of the hard drive, illustrating the SATA data and power connections.

3.2 Initializing and Formatting

After physical installation, the drive must be initialized and formatted by your operating system before it can be used. This process typically involves:

- Accessing Disk Management (Windows) or Disk Utility (macOS).
- Initializing the new drive (GPT for drives larger than 2TB).
- Creating a new simple volume or partition.
- Formatting the partition with a suitable file system (e.g., NTFS for Windows).

For detailed instructions, refer to your operating system's documentation or use the free Seagate DiscWizard software tool, available for download from the Seagate website, to migrate and clone data from old drives or prepare new ones.

4. OPERATING THE HARD DRIVE

The Seagate Barracuda 4TB HDD operates as a standard internal storage device. Once installed and formatted, it will appear as a new drive letter or volume in your operating system.

- **Data Storage:** Use the drive to store documents, photos, videos, games, and other digital content.
- **Accessing Files:** Files can be accessed and managed through your operating system's file explorer (e.g., File Explorer in Windows, Finder in macOS).
- **Performance:** This drive features a 5,400 RPM spindle speed and a SATA 6 Gb/s interface, providing a balance of capacity and performance suitable for general desktop use and large data storage.

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Video 1: An overview of the Seagate Barracuda series, highlighting its features and applications.

5. MAINTENANCE

Proper maintenance helps ensure the longevity and reliability of your hard drive:

- **Regular Backups:** Regularly back up important data to another storage device or cloud service. No storage device is infallible.
- **Disk Health Monitoring:** Use S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) tools available in your operating system or third-party software to monitor the drive's health status.
- **Defragmentation (for HDDs):** Periodically defragment the drive if your operating system does not do it automatically. This can improve performance over time.
- **Keep System Clean:** Ensure your computer's internal components, including the hard drive, are free from dust buildup to maintain optimal operating temperatures.

6. TROUBLESHOOTING

If you encounter issues with your hard drive, try the following steps:

- **Drive Not Detected:**
 - Check all SATA data and power cable connections to ensure they are secure.
 - Verify the drive is enabled in your computer's BIOS/UEFI settings.
 - Ensure the drive is initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).
 - Try connecting the drive to a different SATA port or with different cables.
- **Slow Performance:**
 - Check for excessive background processes or disk usage.
 - Ensure the drive is not nearly full.

- Run disk defragmentation (Windows) or verify disk permissions (macOS).
- Check for malware or viruses.
- **Unusual Noises:**
 - Clicking, grinding, or repetitive noises can indicate a potential drive failure. Back up data immediately and contact Seagate support.

If these steps do not resolve the issue, refer to the Warranty & Support section for further assistance.

7. SPECIFICATIONS

Model Number	ST4000DM004
Capacity	4 TB
Form Factor	3.5 Inch
Interface	SATA 6 Gb/s
Spindle Speed (RPM)	5,400 RPM
Cache	256 MB
Dimensions (L x W x H)	5.8 x 4 x 0.8 inches
Weight	9.5 ounces
Manufacturer	Seagate Technology

8. WARRANTY AND SUPPORT

8.1 Limited Warranty

Your Seagate Barracuda 4TB Internal Hard Drive (ST4000DM004) is covered by a **two-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For full terms and conditions, please refer to the official Seagate warranty policy on their website.

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Figure 3: Seagate Barracuda drives come with a 2-year limited warranty.

8.2 Data Recovery Services

Seagate offers optional Rescue Data Recovery Services. These services can help recover data in the event of accidental data loss or drive failure. For more information on eligibility and service plans, visit the [Seagate official website](#).

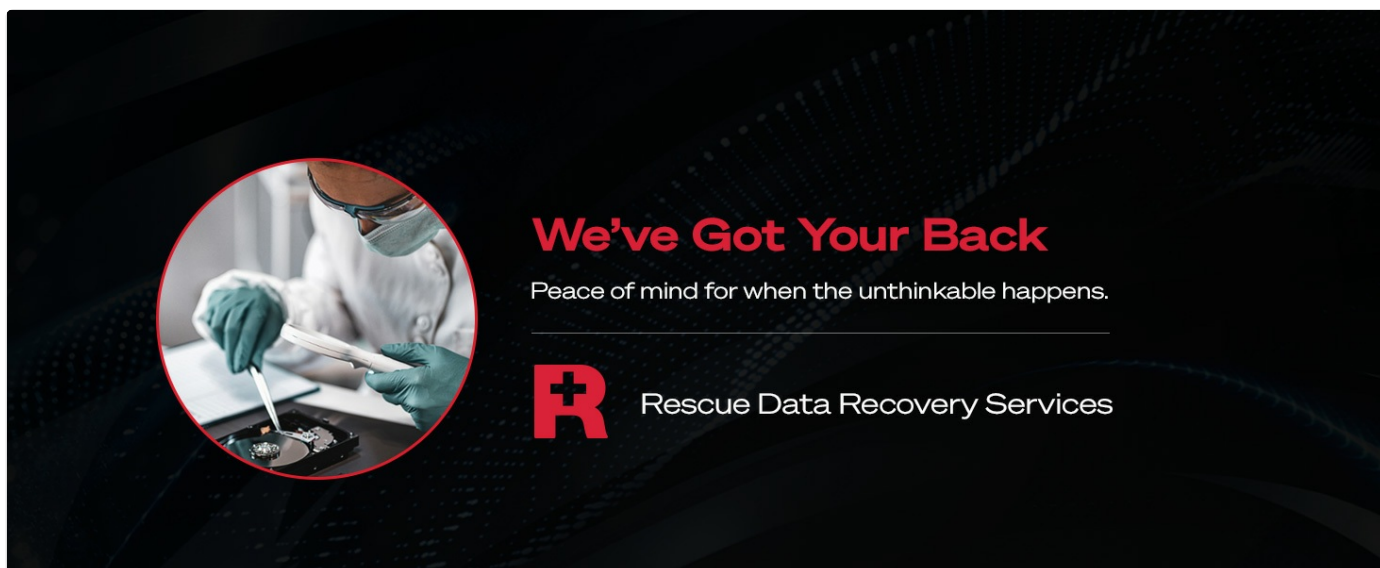


Figure 4: Seagate Rescue Data Recovery Services for peace of mind.

8.3 Technical Support

For technical assistance, product inquiries, or warranty claims, please visit the official Seagate support website. You will find FAQs, driver downloads, and contact information for customer service.

- **Seagate Support Website:** www.seagate.com/support/

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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