Western Digital WDS400T4B0E

Western Digital WD Blue SN5000 NVMe SSD User Manual

Model: WDS400T4B0E

1. INTRODUCTION

The Western Digital WD Blue SN5000 NVMe SSD is a next-generation internal solid state drive designed for creators and professionals. It leverages NVMe, PCIe Gen 4, and Western Digital nCache 4.0 technology to accelerate workflows and support AI-enabled applications. This manual provides essential information for the proper installation, operation, and maintenance of your 4TB WD Blue SN5000 NVMe SSD.

2. PRODUCT FEATURES

- **High Capacity:** Up to 4TB capacity for extensive storage needs.

- **Accelerated Performance:** Harnesses PCIe Gen 4 technology with up to 5,500MB/s read speeds (4TB model) and Western Digital nCache 4.0 Technology for streamlined workflows.

- **Seamless Multitasking:** High-end NVMe storage technology enables smooth switching between applications and projects.

- **Enhanced Endurance:** Offers up to 1,200TBW (4TB model) endurance for reliable long-term use.

- **Data Migration Software:** Includes access to Acronis True Image for Western Digital data migration software for easy file transfers.
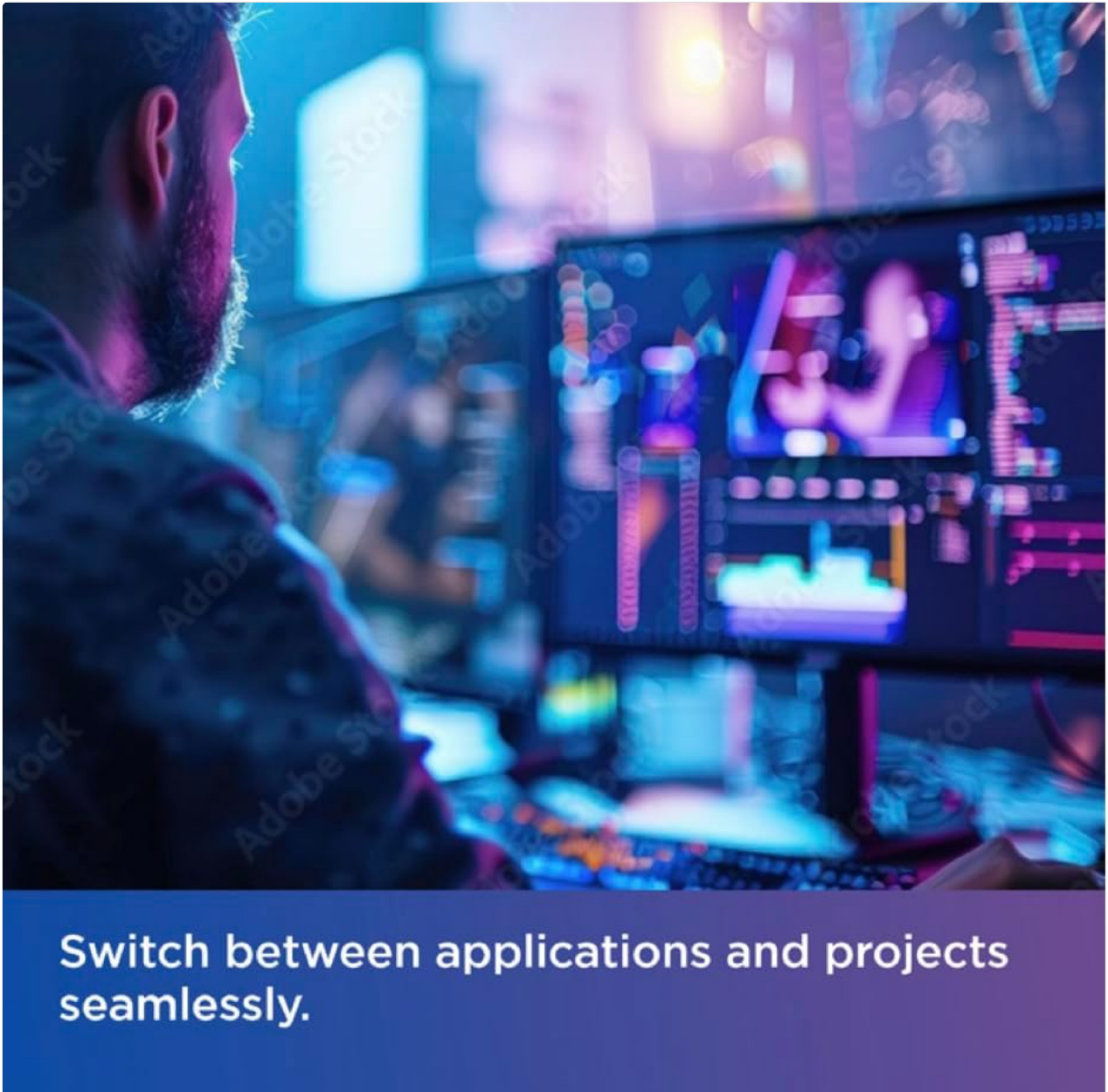
3. SETUP & INSTALLATION

The WD Blue SN5000 NVMe SSD utilizes the M.2 2280 form factor and connects via a PCIe Gen 4.0 interface. Ensure your motherboard has a compatible M.2 slot.

3.1 Physical Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open your computer case to access the motherboard.

2. **Locate M.2 Slot:** Identify an available M.2 slot on your motherboard. Refer to your motherboard's manual for exact location and any specific instructions.

3. **Insert SSD:** Gently insert the WD Blue SN5000 NVMe SSD into the M.2 slot at an angle.

4. **Secure SSD:** Press the SSD down until it is parallel with the motherboard. Secure it with the screw provided with your motherboard (SSD packaging does not include this screw as sizes vary).

Switch between applications and projects seamlessly.

Image: A hand holding the WD Blue SN5000 NVMe SSD, ready to be inserted into an M.2 slot on a motherboard.

3.2 Software Setup

1. **Boot System:** Close your computer case and reconnect all cables. Power on your computer.

2. **Initialize and Format:** Once the operating system loads, open Disk Management (Windows) or Disk Utility (macOS). The new SSD will appear as unallocated space. Initialize the drive (GPT for Windows 10/11) and then format it to create a new volume.

3. **Data Migration (Optional):** If you intend to transfer your operating system or existing files, download and use the Acronis True Image for Western Digital software. This tool facilitates cloning your old drive to the new WD Blue SN5000 NVMe SSD.

Video: A detailed guide on how to fit and review a Western Digital Blue SN550 SSD, demonstrating the physical installation process. This video is provided by the seller, Irish Chippy.

Video: A review demonstrating the installation and performance of a Western Digital SN580 internal SSD. This video is provided by the seller, NC.

4. OPERATING INSTRUCTIONS

Once installed and configured, your WD Blue SN5000 NVMe SSD will operate as a high-speed storage device. Its PCIe Gen 4 interface and nCache 4.0 technology ensure rapid data access and transfer speeds, significantly improving system responsiveness and application load times.

- Utilize the SSD for your operating system, frequently used applications, and large files to maximize performance benefits.
- The drive is optimized for demanding tasks such as video editing, 3D rendering, and running AI-enabled applications.

5. MAINTENANCE & CARE

To ensure the longevity and optimal performance of your WD Blue SN5000 NVMe SSD, consider the following maintenance tips:

- **Firmware Updates:** Periodically check the Western Digital support website for any available firmware updates for your SSD model. Firmware updates can improve performance, stability, and compatibility.
- **TRIM Command:** Ensure your operating system has TRIM enabled. TRIM helps maintain the performance of SSDs over time by allowing the OS to inform the SSD which data blocks are no longer in use and can be wiped.
- **Avoid Full Capacity:** While the SSD offers ample storage, try to avoid filling it to 100% capacity. Leaving some free space can help maintain performance.
- **Temperature Monitoring:** Modern operating systems and third-party tools can monitor SSD temperatures. Ensure adequate airflow within your PC case to prevent overheating, especially during intensive tasks.

Image: A person using a laptop, symbolizing the monitoring of drive performance and capacity.

6. TROUBLESHOOTING

If you encounter issues with your WD Blue SN5000 NVMe SSD, consider the following troubleshooting steps:

- **SSD Not Detected:**
    - Ensure the SSD is correctly seated in the M.2 slot.
    - Check your motherboard's BIOS/UEFI settings to confirm the M.2 slot is enabled and configured correctly (e.g., NVMe mode).
    - Verify that your motherboard supports PCIe Gen 4.0 NVMe SSDs.

- **Slow Performance:**

  - Confirm that your motherboard's M.2 slot is operating at PCIe Gen 4.0 speeds. Older motherboards or incorrect BIOS settings might limit performance to Gen 3.0.
  - Ensure your operating system has TRIM enabled.
  - Check for available firmware updates for the SSD.
  - Monitor drive temperature to ensure it's not throttling due to heat.

- **Operating System Issues:**

  - If the OS is installed on the SSD and experiencing issues, try reinstalling the operating system.
  - Ensure all necessary drivers for your motherboard and chipset are up to date.

7. SPECIFICATIONS

Feature	Detail
Hard Drive Type	4 TB Solid State Drive
Brand	Western Digital
Series	WD Blue SN5000
Item Model Number	WDS400T4B0E
Hardware Platform	PC
Item Weight	0.201 ounces
Product Dimensions	3.15 x 0.87 x 0.1 inches
Color	Blue
Flash Memory Size	4 TB
Hard Drive Interface	PCIE x 4
Digital Storage Capacity	4 TB
Connectivity Technology	PCIe
Special Feature	Free Acronis Download
Compatible Devices	Desktop, Laptop, PC
Installation Type	Internal Hard Drive

8. WHAT'S IN THE BOX

- Western Digital WD Blue SN5000 NVMe SSD

Note: Mounting screws for the M.2 slot are typically provided with your motherboard, not with the SSD.

9. Warranty & Support

The Western Digital WD Blue SN5000 NVMe SSD comes with a 5-year limited warranty. For detailed warranty information, support resources, and contact options, please visit the official Western Digital support website.
You can also download the Acronis True Image for Western Digital data migration software from the Western Digital website to assist with transferring your files.