HGST HUH728080ALE600

HGST Ultrastar He8 HUH728080ALE600 8TB Hard Disk Drive User Manual

Model: HUH728080ALE600

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your HGST Ultrastar He8 HUH728080ALE600 8TB Hard Disk Drive. This high-capacity 3.5-inch internal HDD is designed for reliable data storage, featuring a 7200 RPM rotational speed, SATA 6.0Gb/s interface, and 512e Advanced Format technology. It incorporates a Helium Platform for enhanced efficiency and includes Instant Secure Erase for data security.



Figure 1: HGST Ultrastar He8 8TB Hard Disk Drive, showing the top label and the circuit board on the underside. This image illustrates the physical appearance of the drive.

2. Key Features

- **High Capacity:** 8TB of storage capacity provides ample space for your data needs.
- **Fast Performance:** 7200 RPM rotational speed and SATA 6.0Gb/s interface deliver quick access to your files.
- **Reliable Data Protection:** Instant Secure Erase and Helium Platform provide secure data management.
- **Compact Design:** Standard 3.5-inch form factor is suitable for desktop systems and servers.
- **Advanced Format (512e):** Utilizes 4KB physical sectors with 512-byte emulation for improved efficiency.

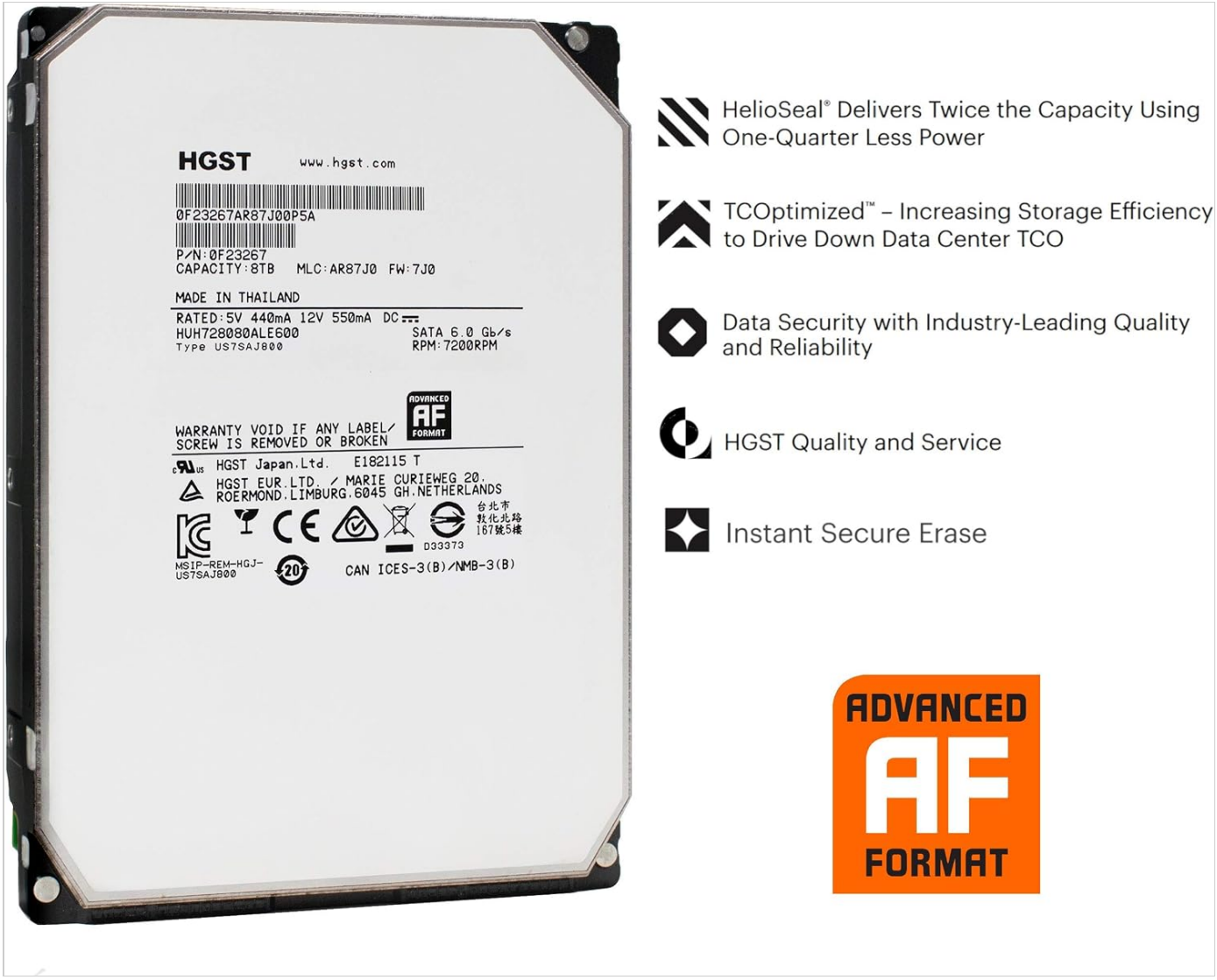


Figure 2: HGST Ultrastar He8 drive label highlighting key features such as HelioSeal technology, TCOptimized design, data security, HGST quality, and Instant Secure Erase.

3. Setup and Installation

3.1 System Requirements

- Available 3.5-inch drive bay.
- SATA 6.0Gb/s compatible host controller.
- Available SATA data cable.
- Available SATA power connector from the power supply.
- Operating system with support for large capacity drives (e.g., Windows 7/8/10/11, macOS, Linux).

3.2 Physical Installation

1. **Power Off:** Ensure your computer system is completely powered off and unplugged from the wall outlet.
2. **Open Case:** Open your computer case to access the internal drive bays.
3. **Mount Drive:** Secure the HGST Ultrastar He8 into an available 3.5-inch drive bay using appropriate screws. Ensure it is firmly mounted to prevent vibration.
4. **Connect Cables:**
    - Connect one end of the SATA data cable to the drive and the other end to an available SATA port on your motherboard.
    - Connect a SATA power connector from your power supply to the drive.

5. **Close Case:** Close your computer case and reconnect the power cable.

3.3 Initializing and Formatting

After physical installation, the drive must be initialized and formatted by your operating system before use.

1. **Boot System:** Power on your computer.
2. **Access Disk Management:**
    - **Windows:** Right-click "This PC" or "My Computer", select "Manage", then "Disk Management".
    - **macOS:** Go to "Applications" > "Utilities" > "Disk Utility".
    - **Linux:** Use tools like GParted or `fdisk`/`mkfs` commands.
3. **Initialize Disk:** Locate the new drive (it will likely appear as "Unallocated" or "Not Initialized"). Right-click it and select "Initialize Disk". For drives larger than 2TB, select GPT (GUID Partition Table).
4. **Create Partition:** Right-click the unallocated space on the new drive and select "New Simple Volume" (Windows) or "Partition" (macOS/Linux). Follow the on-screen prompts to create a partition and assign a drive letter (Windows) or mount point (Linux).
5. **Format Drive:** During the partition creation process, you will be prompted to format the drive. Choose a file system (e.g., NTFS for Windows, HFS+ or APFS for macOS, Ext4 for Linux). Perform a quick format for faster completion.

Note on 512e (Advanced Format): This drive uses 512e technology, meaning it presents 512-byte sectors to the operating system while internally using 4KB physical sectors. Modern operating systems typically handle 512e drives without issue. Ensure your operating system and drivers are up-to-date for optimal performance.

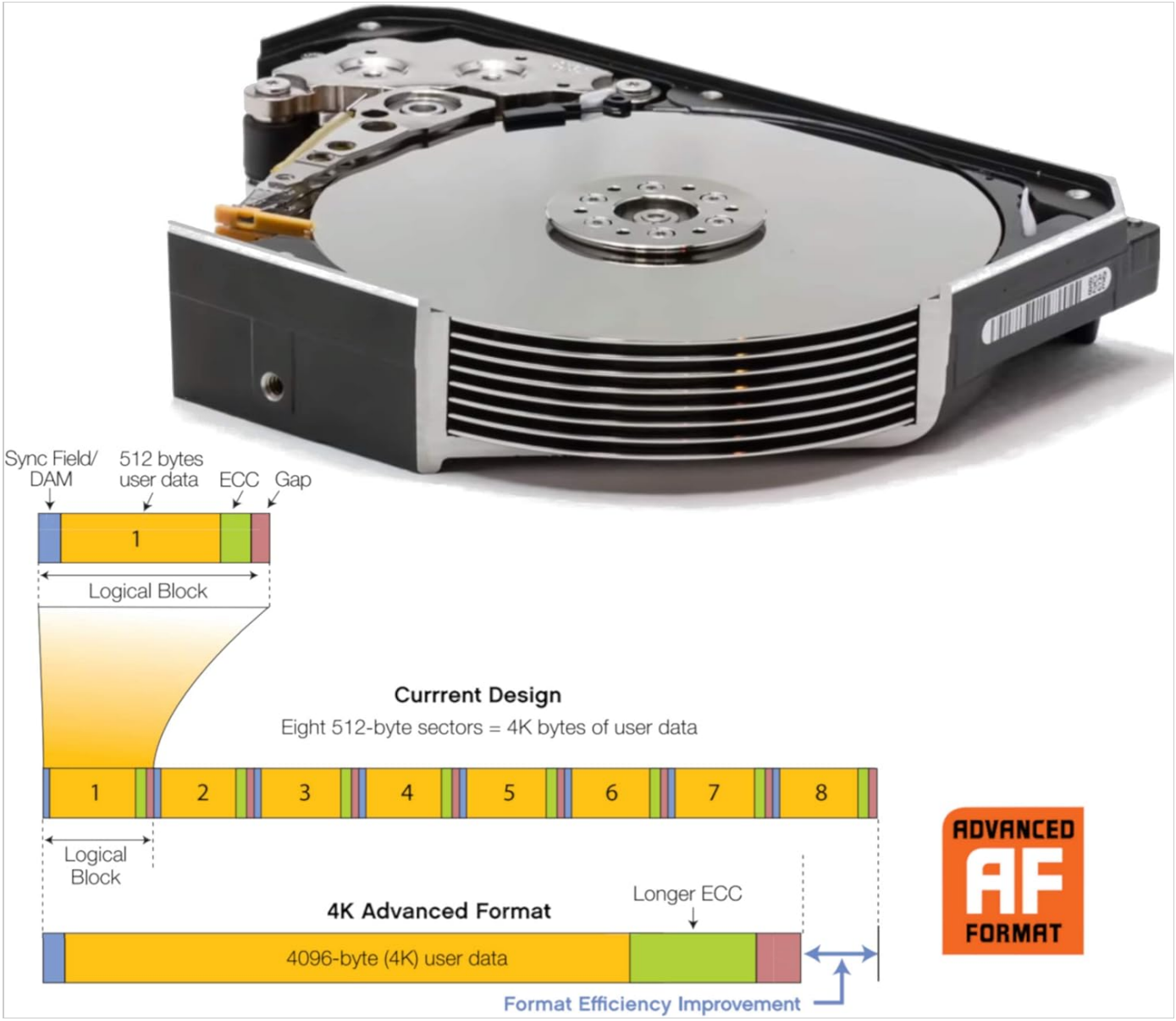


Figure 3: Diagram illustrating the concept of 4K Advanced Format (512e) compared to current 512-byte sector design, showing how 4096-byte (4K) user data is stored more efficiently.

4. Operation

Once installed, initialized, and formatted, the HGST Ultrastar He8 drive functions as a standard storage device within your computer system.

- **Data Storage:** Use the drive to store files, applications, and operating system data.
- **Data Transfer:** The SATA 6.0Gb/s interface supports high-speed data transfer, allowing for quick read and write operations.
- **Instant Secure Erase (ISE):** This feature allows for rapid and secure erasure of all data on the drive, rendering it unrecoverable. This is useful when repurposing or disposing of the drive. Consult your system's documentation or HGST support for specific software tools or commands to utilize ISE.
- **Power Management:** The drive supports standard SATA power management features. Your operating system or system BIOS can be configured to spin down the drive during periods of inactivity to conserve power and extend lifespan.

5. Maintenance

- **Data Backup:** Regularly back up important data to another storage device or cloud service. Hard drives are mechanical devices and can fail.
- **Physical Handling:** Avoid dropping or subjecting the drive to physical shocks, especially when it is operating.
- **Temperature Control:** Ensure adequate airflow within your computer case to maintain optimal operating temperatures for the drive.
- **Firmware Updates:** Periodically check the HGST (now Western Digital) support website for any available firmware updates for your specific model. Firmware updates can improve performance, reliability, or address known issues.

6. Troubleshooting

Common Issues and Solutions:

- **Drive Not Detected:**
  - Verify that both the SATA data cable and power cable are securely connected to the drive and the motherboard/power supply.
  - Check your system's BIOS/UEFI settings to ensure the SATA port is enabled and the drive is recognized.
  - Try a different SATA data cable or port.
  - Ensure the power supply is adequate for all installed components.
- **Slow Performance:**
  - Ensure the drive is connected to a SATA 6.0Gb/s port on your motherboard.
  - Check for background processes or applications consuming disk resources.
  - Verify that your operating system is properly aligned for 512e Advanced Format drives.
  - Run disk diagnostics (e.g., S.M.A.R.T. tools) to check for potential drive health issues.
- **Drive Making Unusual Noises:**
  - Clicking, grinding, or loud whirring noises can indicate a failing drive. Immediately back up any critical data and consider replacing the drive.
  - Ensure the drive is securely mounted to prevent vibration-related noise.

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

7. Specifications

Feature	Specification
Model Number	HUH728080ALE600
Capacity	8 TB (8000 GB)
Interface	SATA 6.0Gb/s
Form Factor	3.5-inch
Rotational Speed	7200 RPM
Cache	128 MB
Advanced Format	512e
Technology	Helium Platform

Feature	Specification
Item Weight	12.2 ounces (approx. 346 grams)
Package Dimensions	8.7 x 6.1 x 3 inches (approx. 22.1 x 15.5 x 7.6 cm)
Manufacturer	HGST (now Western Digital)

8. Warranty and Support

The HGST Ultrastar He8 series typically comes with a manufacturer's warranty. Based on product information, a **3-year warranty** is indicated for new units.



Figure 4: HGST Ultrastar He8 drive shown with a server rack, highlighting its enterprise capacity and indicating a 3-year warranty.

Important Note for Renewed Products: This specific product is listed as "Amazon Renewed." Amazon Renewed products are backed by the Amazon Renewed Guarantee, which provides for a replacement or refund within 90 days of receipt if you are not satisfied. For issues beyond this period or for manufacturer-specific support, please refer to the

original manufacturer's (HGST/Western Digital) support channels.

Technical Support:

For technical assistance, driver downloads, or further information, please visit the official HGST or Western Digital support website.

- **HGST/Western Digital Support:** https://support.wdc.com/ (External Link)
- **Amazon Renewed Customer Service:** Refer to your Amazon order details for specific contact information regarding your renewed product purchase.

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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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