

Lite-On DH-12B2SH

Lite-On DH-12B2SH SATA Internal Blu-ray/DVD/CD Rewritable Drive User Manual

Model: DH-12B2SH

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Lite-On DH-12B2SH internal Blu-ray/DVD/CD rewritable drive. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The Lite-On DH-12B2SH is a versatile internal optical drive designed for desktop computers, supporting Blu-ray, DVD, and CD media for both reading and writing operations. It connects via a SATA interface, offering reliable data transfer speeds.

2.1 Front Panel

The front panel features the disc tray, an eject button, and an activity indicator light.



Figure 2.1: Front view of the Lite-On DH-12B2SH drive, showing the disc tray and logos.

2.2 Rear Panel

The rear panel includes the SATA data connector and the SATA power connector for connecting the drive to

your computer's motherboard and power supply.



Figure 2.2: Rear view showing SATA data and power connectors.

3. SETUP AND INSTALLATION

This section outlines the steps for installing the Lite-On DH-12B2SH drive into a desktop computer.

3.1 Preparing for Installation

1. **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case to access the internal drive bays.
3. **Locate Bay:** Identify an available 5.25-inch drive bay.

3.2 Drive Installation

1. **Mounting:** Slide the Lite-On DH-12B2SH drive into the chosen 5.25-inch bay from the front of the case until the screw holes align. Secure the drive with screws on both sides.



Figure 3.1: Side view illustrating mounting points.

2. **Connect SATA Data Cable:** Connect one end of a SATA data cable to the SATA data connector on the back of the drive and the other end to an available SATA port on your motherboard.
3. **Connect SATA Power Cable:** Connect a SATA power cable from your power supply unit to the SATA power connector on the back of the drive.



Figure 3.2: Rear view with product label and connectors.

4. **Close Case:** Replace the computer case side panel and reconnect the power cord.
5. **Power On:** Power on your computer. The operating system should detect the new drive automatically.

4. OPERATING INSTRUCTIONS

This section provides basic instructions for using your Lite-On DH-12B2SH drive.

4.1 Loading and Ejecting Discs

1. **To Load:** Press the eject button on the front panel to open the disc tray. Place the disc label-side up into the tray. Gently push the tray back into the drive until it closes.
2. **To Eject:** Press the eject button on the front panel or use the eject function within your operating system or media software.

4.2 Reading and Writing Data

The drive supports various media types for reading and writing. Specific software may be required for certain operations (e.g., Blu-ray playback, disc burning). Refer to your operating system's documentation or third-party software instructions for detailed steps.

- **Supported Write Media:** BD-R, BD-RE, DVD±R, DVD-RW, DVD+RW, DVD±R DL, DVD-RAM
- **Supported Read Media:** BD-ROM, DVD-ROM, CD-ROM

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your optical drive.

- **Cleaning the Drive:** Use a specialized optical drive cleaning disc periodically to clean the laser lens. Do not attempt to clean the internal components manually.
- **Disc Handling:** Always handle discs by their edges. Avoid touching the data surface. Store discs in their cases to prevent scratches and dust accumulation.
- **Environmental Conditions:** Operate the drive in a clean, dust-free environment with adequate ventilation. Avoid extreme temperatures and humidity.

6. TROUBLESHOOTING

If you encounter issues with your drive, refer to the following common problems and solutions.

- **Drive Not Detected:**
 - Check that the SATA data and power cables are securely connected to both the drive and the motherboard/power supply.
 - Verify that the SATA port on the motherboard is enabled in the BIOS/UEFI settings.
 - Ensure the necessary drivers are installed (usually automatically by the operating system).
- **Disc Read Errors:**
 - Ensure the disc is clean and free of scratches or smudges. Clean the disc with a soft, lint-free cloth if necessary.
 - Try a different disc to determine if the issue is with the drive or the specific disc.
 - Use an optical drive cleaning disc to clean the drive's laser lens.
- **Disc Write Errors:**
 - Ensure you are using compatible media for writing (e.g., BD-R for Blu-ray recording).
 - Verify that the disc is not full or write-protected.
 - Try reducing the write speed in your burning software.
 - Ensure there is sufficient free space on your hard drive for temporary files during the burning process.

7. SPECIFICATIONS

Model Number	DH-12B2SH
Brand	Lite-On

Interface	SATA (1.5 Gb/s)
BD-R Write Speed	6x
BD-RE Write Speed	2x
DVD±R Write Speed	16x
DVD-RW Write Speed	6x
DVD+RW Write Speed	8x
DVD±R DL Write Speed	4x
DVD-RAM Write Speed	5x
BD-ROM Read Speed	6x
DVD-ROM Read Speed	16x
Dimensions (approx.)	22 x 17.5 x 6 cm
Weight (approx.)	820 g

Note: Specifications are subject to change without prior notice.

8. WARRANTY AND SUPPORT

This product comes with a **1-month warranty** from the date of arrival. For any technical support or warranty claims, please contact your retailer or the Lite-On customer service department. Keep your purchase receipt as proof of purchase.