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› Lite-On 20x Super All Write DVD RW Drive (LH20A1P186) User Manual

## Lite-On LH20A1P186

# Lite-On 20x Super All Write DVD RW Drive (LH20A1P186) User Manual

Model: LH20A1P186

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Lite-On 20x Super All Write DVD RW Drive, model LH20A1P186. This internal optical drive is designed for desktop PCs and offers high-speed DVD and CD reading and writing capabilities, including Lite-On's SMART-WRITE technology. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the drive or personal injury:

- Always disconnect power from your computer before installing or removing the drive.
- Handle the drive by its edges to avoid touching sensitive electronic components.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage.
- Do not expose the drive to moisture or extreme temperatures.
- Avoid opening the drive casing, as it contains no user-serviceable parts and may expose you to laser radiation.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Lite-On 20x Super All Write DVD RW Drive (LH20A1P186)
- Black Faceplate
- White Faceplate
- Nero Essential 7.0 Software CD
- Installation Guide (this document)

## 4. SETUP

## 4.1 Physical Installation

The Lite-On LH20A1P186 is an internal IDE drive designed for desktop computer cases.

1. **Prepare your computer:** Power off your computer and disconnect all cables. Open the computer case.
2. **Select a drive bay:** Locate an available 5.25-inch drive bay in your computer case.
3. **Install the drive:** Carefully slide the DVD RW drive into the selected bay from the front of the case until it aligns with the screw holes. Secure the drive with screws on both sides.
4. **Connect cables:**
  - Connect an IDE data cable from the drive to an available IDE controller on your motherboard. Ensure the red stripe on the cable aligns with Pin 1 on both the drive and the motherboard connector.
  - Connect a 4-pin Molex power cable from your power supply unit (PSU) to the drive's power connector.
5. **Set Jumper (if applicable):** Depending on your system configuration (master/slave/cable select), you may need to adjust the jumper settings on the back of the drive. Refer to your motherboard manual for IDE configuration details.
6. **Close the case:** Once all connections are secure, close your computer case and reconnect all external cables.



*Image: The Lite-On 20x Super All Write DVD RW Drive (LH20A1P186) showing its front with both black and white faceplates, and the rear connectors for IDE data and power. This image illustrates the physical appearance of the drive.*

## 4.2 Software Installation

After physical installation, install the necessary software:

1. **Power on:** Start your computer. The operating system (Windows) should detect the new drive automatically.
2. **Install Nero Essential 7.0:** Insert the provided Nero Essential 7.0 software CD into the drive. Follow the on-screen instructions to install the burning software. This software is essential for utilizing the drive's full burning capabilities.
3. **Driver Installation:** In most modern Windows operating systems, generic drivers for optical drives are automatically installed. If prompted, allow Windows to search for and install drivers. If issues arise, visit the Lite-On support website for specific driver downloads.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Disc Operations

To insert a disc, press the eject button on the front of the drive. Place the disc label-side up on the tray and gently push the tray back into the drive.

- **Reading Discs:** Once a disc is inserted, your operating system should automatically detect it. You can access its contents through "My Computer" or "This PC".
- **Writing/Burning Discs:** Use the installed Nero Essential 7.0 software to burn data, audio, or video to compatible CD-R/RW or DVD-R/RW discs. Follow the software's instructions for creating new discs or copying existing ones.

### 5.2 SMART-WRITE Technology

The Lite-On LH20A1P186 features SMART-WRITE technology, which optimizes burning strategies for various media types to ensure reliable and high-quality disc burning. This technology automatically adjusts writing parameters to match the characteristics of the inserted disc, reducing the chance of "coaster" discs. Ensure your burning software is configured to utilize this feature for optimal performance.

## 6. MAINTENANCE

- **Cleaning:** Keep the drive's exterior clean with a soft, dry cloth. Do not use liquid cleaners directly on the drive. For internal cleaning of the laser lens, use a specialized CD/DVD lens cleaning disc sparingly.
- **Disc Handling:** Always handle discs by their edges. Store discs in protective cases to prevent scratches and dust accumulation, which can affect read/write performance.
- **Firmware Updates:** Periodically check the official Lite-On support website for firmware updates. Firmware updates can improve compatibility, performance, and address known issues. Follow the provided instructions carefully when updating firmware.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause / Solution
Drive not detected by computer.	Check IDE data and power cable connections. Verify jumper settings (Master/Slave/Cable Select). Ensure the drive is properly seated in the bay. Check Device Manager in Windows for driver issues.
Cannot read or write discs.	Ensure the disc is clean and free of scratches. Verify the disc type is compatible with the drive (e.g., DVD-R, CD-RW). Try a different disc. Reinstall or update your burning software (Nero Essential 7.0). Check for available firmware updates for the drive.
Disc tray does not open or close.	Ensure the computer is powered on. Check power cable connection. Use the emergency eject hole (small pinhole on the front of the drive) with a straightened paperclip to manually open the tray.

Problem	Possible Cause / Solution
Burning process fails or creates "coasters".	<ul style="list-style-type: none"> <li>Use high-quality, compatible blank media.</li> <li>Reduce the burning speed in your software.</li> <li>Ensure sufficient free hard drive space for temporary files.</li> <li>Close other applications during burning.</li> <li>Check for firmware updates.</li> </ul>

For further assistance, please visit the official Lite-On support website or contact their customer service.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	LH20A1P186
Brand	Lite-On
Hardware Interface	IDE
Optical Storage Write Speed	20x (DVD)
Optical Storage Read Speed	20x (DVD)
Compatible Devices	Desktop PC
Operating System Compatibility	Windows
Item Weight	2.3 Pounds
Special Features	SMART-WRITE Technology
Included Software	Nero Essential 7.0

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

The Lite-On 20x Super All Write DVD RW Drive (LH20A1P186) comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Lite-On website.

### 9.2 Customer Support

For technical support, driver downloads, firmware updates, or warranty claims, please visit the official Lite-On support website. You can typically find support resources, FAQs, and contact information for customer service there.

**Official Lite-On Website:** [www.liteon.com](http://www.liteon.com) (Please note: This is a placeholder URL. Refer to your product packaging or official documentation for the correct support URL.)



