

Lenovo 82XV

Lenovo LOQ 15.6" 144Hz FHD Gaming Laptop User Manual

Model: 82XV | Brand: Lenovo

1. INTRODUCTION

Welcome to the user manual for your new Lenovo LOQ 15.6" 144Hz FHD Gaming Laptop. This guide provides essential information to help you set up, operate, maintain, and troubleshoot your device. Please read this manual thoroughly to ensure optimal performance and longevity of your laptop.

2. PRODUCT OVERVIEW

The Lenovo LOQ 15.6" Gaming Laptop is a high-performance system designed for immersive gaming and demanding tasks. It features a 13th Generation Intel Core i7-13700H processor, NVIDIA GeForce RTX 4060 graphics, a 144Hz FHD display, and a backlit keyboard.

Key Features:

- **Processor:** 13th Generation Intel Core i7-13700H 14-Core (up to 5.0 GHz)
- **Graphics:** NVIDIA GeForce RTX 4060 8GB GDDR6
- **Display:** 15.6" 144Hz FHD (1920 x 1080) Anti-glare IPS, 350 nits, 45% NTSC, G-SYNC
- **Memory:** Up to 24GB DDR5 SDRAM 4800 MHz
- **Storage:** 1TB NVMe M.2 SSD
- **Keyboard:** Full-Size Backlit Keyboard with Numpad
- **Connectivity:** RealTek WiFi 6 (2x2), Bluetooth 5.1
- **Ports:** USB 3.2 Gen 2 Type-C (Data Transfer / Power Delivery / DisplayPort), USB 3.2 Gen 2 Type-A, USB 3.2 Gen 1 Type-A, RJ-45, HDMI 2.1, Headphone/microphone combo jack

Component Identification:



Figure 2.1: Front view of the Lenovo LOQ laptop with the screen displaying a graphic.



Figure 2.2: Top-down view showing the full-size backlit keyboard and trackpad.



Figure 2.3: Left side profile, highlighting the power input and USB ports.



Figure 2.4: Right side profile, showing a USB port and the headphone/microphone combo jack.



Figure 2.5: Rear view, displaying central ports including HDMI and RJ-45, along with cooling vents.



Figure 2.6: Bottom view, showing the ventilation grilles for optimal airflow.

3. SETUP

3.1 Initial Power-On

1. **Connect Power:** Plug the AC adapter into the laptop's power input port and then into a wall outlet.
2. **Open Display:** Carefully open the laptop display to a comfortable viewing angle.
3. **Power On:** Press the power button, typically located on the keyboard deck, to turn on the laptop.
4. **Follow On-Screen Prompts:** The laptop will guide you through the initial Windows 10 Home setup process, including language selection, network connection, and user account creation.

3.2 Connecting Peripherals

Utilize the available ports to connect external devices:

- **USB Devices:** Connect mice, keyboards, external drives, or other USB accessories to the USB-A or USB-C ports.
- **External Display:** Use the HDMI 2.1 port or the USB-C port (with DisplayPort support) to connect an external monitor or TV.
- **Network Cable:** For a wired internet connection, plug an Ethernet cable into the RJ-45 port.
- **Audio Devices:** Connect headphones or external speakers to the 3.5mm headphone/microphone combo jack.

4. OPERATING INSTRUCTIONS

4.1 Keyboard and Trackpad Usage

- **Backlit Keyboard:** The keyboard features adjustable backlighting. Refer to your system's function keys (Fn + specific key, often F3 or F4) to cycle through brightness levels or turn it off.
- **Numpad:** The integrated numeric keypad allows for efficient data entry. Ensure Num Lock is enabled if needed.
- **Trackpad:** Use the multi-touch trackpad for navigation. Standard gestures include two-finger scrolling, pinch-to-zoom, and three-finger swipes for task switching.

4.2 Display Settings

- **Refresh Rate:** The 144Hz display provides a smoother visual experience. Ensure your operating system display settings are configured to use the highest available refresh rate.
- **G-SYNC:** This laptop supports NVIDIA G-SYNC technology, which synchronizes the display's refresh rate with the GPU's frame rate to eliminate screen tearing and minimize stuttering. Ensure G-SYNC is enabled in the NVIDIA Control Panel for compatible games.
- **Brightness:** Adjust screen brightness using the dedicated function keys (Fn + F11/F12) or through Windows display settings.

4.3 Power Management

- **Battery Life:** The 60Wh Lithium-Ion battery provides up to 6 hours of typical usage. Actual battery life varies based on usage, settings, and other factors.
- **Power Modes:** Windows 10 Home offers various power modes (e.g., Best performance, Better battery) that can be adjusted via the battery icon in the taskbar to optimize for performance or battery longevity.
- **Charging:** Always use the provided 230W AC adapter for charging to ensure proper power delivery and prevent damage.

5. MAINTENANCE

5.1 Cleaning

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen-cleaning solution. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring no liquid enters openings. Compressed air can remove dust from keyboard crevices.
- **Vents:** Regularly check and clean the cooling vents to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to gently clear dust.

5.2 Software Updates

Keep your operating system, drivers, and applications updated to ensure optimal performance, security, and compatibility.

- **Windows Updates:** Regularly check for and install updates via Windows Settings > Update & Security > Windows Update.
- **Driver Updates:** Periodically check the Lenovo support website for updated drivers for your specific model (e.g., graphics drivers, chipset drivers). NVIDIA GeForce Experience can also manage GPU driver updates.

5.3 Battery Care

- Avoid completely discharging the battery frequently.

- Store the laptop in a cool, dry place if not used for extended periods, with the battery charged to around 50-60%.
- Avoid exposing the laptop to extreme temperatures.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

Issue	Possible Cause	Solution
Laptop does not power on	No power, dead battery, hardware issue	Ensure AC adapter is securely connected and outlet is working. Try a different outlet. If battery is low, allow it to charge for a few minutes before attempting to power on.
Screen is black or no display	Sleep mode, external display issue, driver issue	Press any key or move mouse to wake from sleep. Disconnect external displays. Restart the laptop. Update graphics drivers.
Wi-Fi not connecting	Wi-Fi disabled, incorrect password, router issue	Ensure Wi-Fi is enabled in Windows settings. Verify Wi-Fi password. Restart your router and modem. Update Wi-Fi drivers.
Laptop is running slow	Too many programs, low disk space, malware, overheating	Close unnecessary applications. Free up disk space. Run a malware scan. Ensure vents are clear and laptop is on a hard, flat surface.
Keyboard backlight not working	Backlight off, driver issue	Press Fn + backlight function key (e.g., F3 or F4) to adjust brightness. Update keyboard drivers.

6.2 Advanced Troubleshooting

If issues persist after trying the above solutions, consider the following:

- **System Restore:** Use Windows System Restore to revert your system to a previous state where it was working correctly.
- **Factory Reset:** As a last resort, you may perform a factory reset of Windows 10 Home. Back up all important data before proceeding.
- **Contact Support:** If the problem cannot be resolved, contact Lenovo customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Display Size	15.6 Inches
Screen Resolution	1920 x 1080 pixels (FHD)
Processor	Intel Core i7-13700H (2.6 GHz base, up to 5.0 GHz)
RAM	24 GB DDR5 4800 MHz

Feature	Detail
Hard Drive	1 TB NVMe M.2 SSD
Graphics Coprocessor	NVIDIA GeForce RTX 4060
Graphics Card RAM Size	8 GB GDDR6
Wireless Type	802.11ax (Wi-Fi 6)
Bluetooth	Bluetooth 5.1
USB Ports	1x USB 3.2 Gen 2 Type-C, 2x USB 3.2 Gen 2 Type-A, 1x USB 3.2 Gen 1 Type-A
Other Ports	RJ-45, HDMI 2.1, Headphone/microphone combo jack
Operating System	Windows 10 Home
Average Battery Life	6 Hours
Item Weight	5.28 pounds
Product Dimensions	14.17 x 10.45 x 1 inches
Color	Storm Grey

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Your Lenovo LOQ laptop comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Lenovo support website for detailed terms and conditions, including warranty duration and coverage.

8.2 Customer Support

For technical assistance, driver downloads, or service inquiries, please visit the official Lenovo support website or contact their customer service. You can find more information and resources at the [Lenovo Store on Amazon](#) or the main Lenovo support portal.