acer ANV15-51-51X

Acer Nitro V 15 ANV15 Gaming Laptop User Manual

Model: ANV15-51-51X

1. Introduction

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Acer Nitro V 15 ANV15 Gaming Laptop. Please read this guide thoroughly to ensure proper use and to maximize the performance and longevity of your device.

The Acer Nitro V 15 ANV15 is designed for high-performance gaming and demanding tasks, featuring an Intel i5-13420H processor, NVIDIA GeForce RTX 4050 graphics, and a 144Hz Full HD display.

2. Product Overview

The Acer Nitro V 15 ANV15 is a powerful gaming laptop. Familiarize yourself with its components and ports.



Figure 2.1: Front view of the Acer Nitro V 15 ANV15 Gaming Laptop, showcasing the display and keyboard.

2.1. Key Features

- **Display:** 15.6-inch Full HD (1920 x 1080) IPS 144Hz Anti-glare display.
- **Processor:** Intel i5-13420H 8-Core Processor.
- **Graphics:** NVIDIA GeForce RTX 4050 with 6GB GDDR6.
- **Memory:** 16GB DDR5 SDRAM (4800 MHz).
- **Storage:** 2TB NVMe M.2 Solid State Drive.
- **Operating System:** Windows 10 Home.
- **Keyboard:** Full-size backlit keyboard with numeric keypad.
- **Connectivity:** Wi-Fi 6 (802.11AX) and Bluetooth 5.1.

2.2. Ports and Connectors

Identify the various ports on your laptop for connecting peripherals and external devices.



Figure 2.2: Left side view of the laptop, illustrating the port layout.

- **USB-C 3.2 Gen 2:** Supports DisplayPort 1.4, Power-off Charging, and 10Gbps data transfer.
- **USB 3.2 Gen 2:** Supports Power-off Charging and 10Gbps data transfer.
- **USB 3.2 Gen 1 (x2):** For connecting standard USB devices (5Gbps).
- **RJ-45 (Ethernet):** For wired network connection.
- **HDMI v2.1:** For connecting to external displays.
- **Headphone/Microphone Combo Jack:** For audio input and output.
- **Power Connector:** For connecting the AC adapter.



Figure 2.3: Right side view of the laptop, showing additional ports and ventilation.

3. Setup

3.1. Unboxing

1. Carefully remove the laptop and all accessories from the packaging.
2. Verify that all components are present: laptop, AC adapter, power cord, and documentation.

3.2. Connecting Power

1. Connect the AC adapter to the power connector on the laptop.
2. Plug the power cord into the AC adapter, then into a wall outlet.
3. Allow the laptop to charge for at least 30 minutes before initial use, or until the battery indicator shows sufficient charge.

3.3. Initial Boot and Windows Setup

1. Open the laptop lid and press the power button.
2. Follow the on-screen instructions to complete the Windows 10 Home setup process. This includes selecting your region, language, creating a user account, and connecting to a Wi-Fi network.
3. It is recommended to connect to the internet during setup to download critical updates.

4. Operating Instructions

4.1. Power On/Off and Sleep

- **Power On:** Press the power button located on the keyboard deck.
- **Shut Down:** Click the Start button, then Power > Shut down.
- **Sleep:** Close the laptop lid or click the Start button, then Power > Sleep.

4.2. Keyboard and Touchpad



Figure 4.1: Top-down view of the laptop's backlit keyboard and touchpad.

- **Backlit Keyboard:** Use the dedicated function keys (Fn + F9 or similar, refer to keyboard icons) to adjust keyboard backlight brightness.
- **Touchpad:** Supports multi-touch gestures. Refer to Windows settings for customization.

4.3. Display Settings

- **Brightness:** Adjust using the function keys (Fn + F3/F4 or similar) or through Windows Display settings.
- **Refresh Rate:** To utilize the 144Hz display, right-click on the desktop, select 'Display settings', then 'Advanced display settings', and choose the desired refresh rate.

4.4. Network Connectivity

- **Wi-Fi:** Click the Wi-Fi icon in the taskbar, select your network, and enter the password.
- **Bluetooth:** Enable Bluetooth in Windows Settings > Devices > Bluetooth & other devices to pair with Bluetooth peripherals.
- **Ethernet:** Connect an Ethernet cable to the RJ-45 port for a wired internet connection.

5. Maintenance

5.1. Cleaning the Laptop

- Use a soft, lint-free cloth slightly dampened with water or a screen cleaner for the display.
- For the chassis and keyboard, use a soft, dry cloth. Avoid harsh chemicals.
- Periodically clean the ventilation grilles with compressed air to prevent dust buildup.

5.2. Battery Care

- Avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- For optimal battery health, avoid prolonged exposure to extreme temperatures.

5.3. Software Updates

- Regularly check for Windows updates via Settings > Update & Security > Windows Update.
- Update graphics drivers (NVIDIA GeForce) through the NVIDIA GeForce Experience application or NVIDIA's official website.
- Check the Acer support website for any specific driver or BIOS updates for your model.

6. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, contact Acer support.

6.1. Laptop Does Not Power On

- Ensure the AC adapter is securely connected to both the laptop and a working power outlet.
- Check if the power outlet is functional by plugging in another device.
- If the battery is completely drained, allow it to charge for a few minutes before attempting to power on.

6.2. Wi-Fi Connection Issues

- Verify that Wi-Fi is enabled in Windows settings.
- Restart your router and modem.
- Ensure you are entering the correct Wi-Fi password.
- Update your Wi-Fi drivers from the Acer support website.

6.3. Display Problems

- If the screen is blank, try connecting an external monitor to the HDMI port to check if the laptop is functioning.
- Adjust display brightness using function keys.
- Update your NVIDIA graphics drivers.

6.4. Overheating

- Ensure the laptop's ventilation grilles are not blocked.
- Use the laptop on a hard, flat surface to allow for proper airflow.
- Clean dust from the vents regularly.

7. Specifications

Detailed technical specifications for the Acer Nitro V 15 ANV15 Gaming Laptop (Model: ANV15-51-51X).

Component	Specification
Model Name	Acer Nitro V 15 ANV15-51-51X
Display	15.6" FHD (1920 x 1080) IPS, 144Hz, Anti-glare, 300 nits
Processor	Intel i5-13420H 8-Core (up to 4.6 GHz)
Graphics	NVIDIA GeForce RTX 4050 6GB GDDR6
Memory (RAM)	16GB DDR5 SDRAM 4800 MHz
Storage	2TB NVMe M.2 SSD
Operating System	Windows 10 Home
Keyboard	Fullsize Backlit Keyboard with Numpad
Wireless Connectivity	MediaTek Wi-Fi 6 (802.11ax), Bluetooth 5.1
Camera	720p HD Camera
Battery	57Wh Lithium-Ion (up to 6 hours)
Power Adapter	135W AC Adapter
Ports	1x USB-C 3.2 Gen 2, 1x USB 3.2 Gen 2, 2x USB 3.2 Gen 1, 1x RJ-45, 1x HDMI v2.1, 1x Headphone/Mic Combo
Dimensions (LxWxH)	14.26" x 9.44" x 1.06"

Component	Specification
Weight	4.66 lbs
Color	Obsidian Black

8. Warranty and Support

Your Acer Nitro V 15 ANV15 Gaming Laptop comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions, including coverage duration and service procedures.

For technical assistance, driver downloads, or further support, please visit the official Acer support website or contact their customer service.

Online Support: www.acer.com/support

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

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.

Submit question