

[Manuals.plus](#) /

› [Acer](#) /

› Acer Nitro V ANV15-41 Gaming Laptop User Manual

Acer ANV15-41

Acer Nitro V ANV15-41 Gaming Laptop User Manual

Model: ANV15-41

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Acer Nitro V ANV15-41 gaming laptop. Please read this manual thoroughly to ensure proper use and to maximize the performance and longevity of your device.

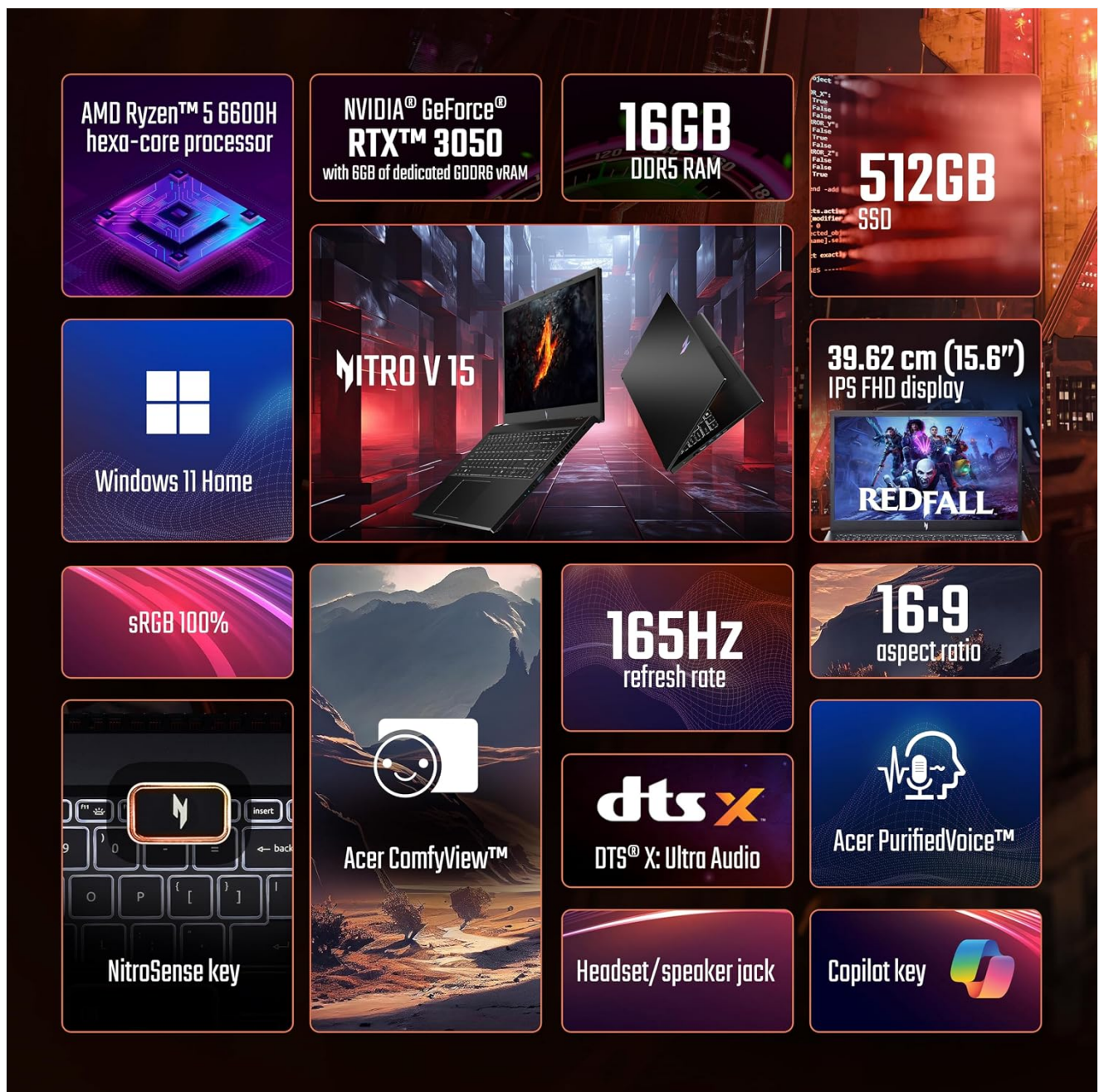


Figure 1.1: Front view of the Acer Nitro V ANV15-41 Gaming Laptop.

2. GETTING STARTED

2.1 Unpacking and Initial Setup

- Carefully remove the laptop and all accessories from the packaging.
- Verify that all components listed in the 'What's in the Box' section are present.
- Connect the power adapter to the laptop's power connector and then to an electrical outlet.
- Open the laptop lid and press the power button to turn on the device.
- Follow the on-screen instructions to complete the initial Windows 11 Home setup.

2.2 What's in the Box

- Acer Nitro V ANV15-41 Laptop
- Power Adapter
- Battery (integrated)

3. HARDWARE OVERVIEW

3.1 Display

The laptop features a 15.6-inch (39.6 cm) Full HD (1920 x 1080) IPS display with a 165 Hz refresh rate. It includes Acer ComfyView technology for reduced glare and enhanced viewing comfort.



Figure 3.1: The laptop's 15.6-inch Full HD IPS display with a high refresh rate.

3.2 Keyboard and Touchpad

The Acer Nitro V ANV15-41 is equipped with a backlit keyboard, offering visibility in low-light conditions. It includes a dedicated NitroSense key for quick access to system performance settings and a Copilot key for AI assistance.



Figure 3.2: Keyboard layout highlighting the NitroSense and Copilot keys.

3.3 Ports and Connectors

The laptop provides various ports for connectivity:

- 2 x USB 3.2 Gen 1 ports
- 1 x USB 3.2 Gen 1 port with power-off charging
- 1 x USB 4 port
- 1 x HDMI 2.1 port
- 1 x Ethernet (RJ-45) port
- 1 x Headset/speaker jack
- Power connector (DC-in)
- Kensington lock slot



Figure 3.3: Side view illustrating the available ports and connectors.

4. PERFORMANCE FEATURES

4.1 Processor and Graphics

The laptop is powered by an AMD Ryzen 5 6600H hexa-core processor and features an NVIDIA GeForce RTX 3050 GPU with 6 GB of dedicated GDDR6 VRAM for graphics processing.

4.2 Memory and Storage

It comes with 16 GB of DDR5 system memory, upgradable up to 32 GB. Storage is provided by a 512 GB PCIe Gen4 NVMe SSD, with support for up to two 1 TB drives.

4.3 Cooling System

The Acer Nitro V ANV15-41 incorporates a dual-fan cooling system designed to maintain optimal operating temperatures during intensive use.



Figure 4.1: Illustration of the dual-fan cooling system.

5. AUDIO AND VISUAL

5.1 Audio Technology

The laptop features DTS:X Ultra Audio for an immersive sound experience. Acer PurifiedVoice technology, with AI-powered noise reduction, enhances clarity for built-in microphones.



Figure 5.1: Visual representation of DTS:X Ultra Audio and Acer PurifiedVoice technologies.

5.2 Webcam

A T-Type HD camera is integrated for video conferencing and communication.

6. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and exterior. Avoid harsh chemicals.
- **Ventilation:** Ensure the laptop's ventilation openings are clear and unobstructed to prevent overheating.
- **Software Updates:** Regularly update your operating system and drivers to ensure optimal performance and security.
- **Battery Care:** To prolong battery life, avoid extreme temperatures and fully discharging the battery frequently.
- **Storage:** Store the laptop in a cool, dry place when not in use.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

Issue	Possible Solution
Laptop does not power on	Ensure the power adapter is securely connected and the outlet is functional. Check battery charge level.
System is slow or unresponsive	Close unnecessary applications. Check for background processes. Ensure sufficient free storage space. Update drivers.
Overheating	Ensure ventilation openings are clear. Use the laptop on a hard, flat surface. Consider using NitroSense software to adjust fan speeds.
Display issues (no image, flickering)	Check display cable connections if using an external monitor. Restart the laptop. Update graphics drivers.
Keyboard backlight not working	Check keyboard backlight settings in Windows or via dedicated function keys.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
---------	---------------

Feature	Specification
Brand	Acer
Model Name	Nitro V
Model Number	ANV15-41
Screen Size	15.6 Inches
Display Resolution	1920 x 1080 (Full HD)
Display Technology	IPS, LED, 165 Hz Refresh Rate
Processor	AMD Ryzen 5 6600H hexa-core (3.3 GHz base, up to 4.5 GHz max boost)
Graphics Card	NVIDIA GeForce RTX 3050 with 6 GB GDDR6 VRAM
RAM Memory	16 GB DDR5 (4800 MHz), upgradable to 32 GB
Storage	512 GB NVMe SSD (PCIe Gen4)
Operating System	Windows 11 Home
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth
Ports	2x USB 3.2 Gen 1, 1x USB 3.2 Gen 1 (power-off charging), 1x USB 4, 1x HDMI 2.1, 1x RJ-45, 1x Headset/speaker jack
Webcam	T-Type HD camera
Keyboard	Backlit Keyboard, Numeric Keypad
Battery Energy Content	57 Watt Hours (Lithium Ion)
Item Weight	2.1 Kilograms
Dimensions (L x W x Thickness)	24L x 36.2W x 2.4Th Centimeters

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product comes with a 1-Year Manufacturer's Limited Warranty. Please refer to the warranty card included with your product for detailed terms and conditions.

9.2 Manufacturer and Importer Information

Manufacturer: Acer, Compal Electronics Pvt Ltd, No.D01, Zone D, Air Port Section of LiangLu CunTan Free Trade Port Area, YuBei District, Chongqing, China
Importer: ACER INDIA PRIVATE LIMITED Embassy Heights, 6th Floor, No. 13 Magrath Road, Next to HOSMAT Hospital, Bangalore, INDIA – 560025
For technical support or service inquiries, please contact your local Acer support center or visit the official Acer website.

