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acer Nitro V 16 AI

Acer Nitro V 16 AI Gaming Laptop User Manual

Model: Nitro V 16 AI

INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Acer Nitro V 16 AI Gaming Laptop. Please read this manual thoroughly to ensure optimal performance and longevity of your device.



Image: Front view of the Acer Nitro V 16 AI Gaming Laptop, showcasing its display and keyboard.

SETUP

What's in the Box

Upon unboxing, verify that all components are present:

- Acer Nitro V 16 AI Gaming Laptop
- Power Adapter/Charger
- iCarp Type-C 3-in-1 Hub (USB 3.0, HDTV 4K Output, Type-C PD)

COME WITH YOUR ORDER

59\$

iCarp Type-C 3-in-1 Hub

- ▶ USB 3.0
- ▶ HDTV 4K Output
- ▶ Type-C(PD)

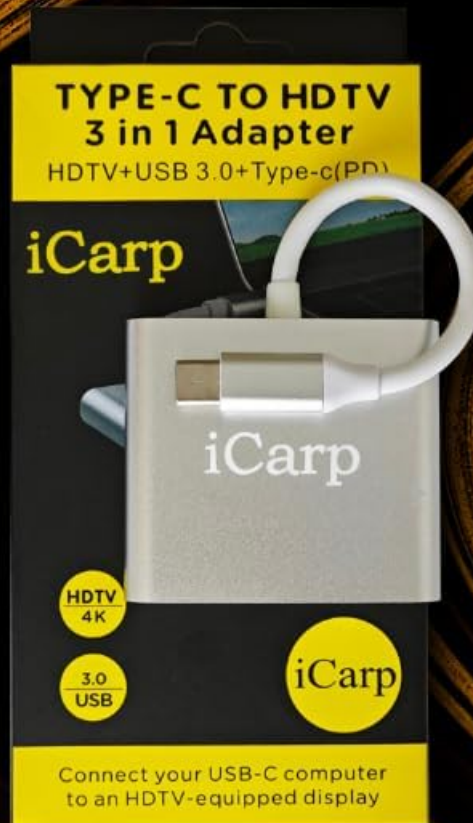


Image: The included iCarp Type-C 3-in-1 Hub, providing additional connectivity options.

Initial Power On

1. Connect the power adapter to the laptop's DC-in jack and a power outlet.
2. Open the laptop lid.
3. Press the power button to turn on the laptop.
4. Follow the on-screen instructions to complete the initial Windows 11 Home setup.

Connectivity

The Acer Nitro V 16 AI offers a comprehensive selection of ports for various peripherals and external devices.

- **USB-A 3.2:** Three ports for connecting standard USB devices.
- **USB-C 4:** One port for high-speed data transfer and display output.
- **HDMI 2.1:** For connecting to external displays or TVs.
- **RJ45 Gigabit Ethernet:** For wired network connectivity.
- **Headset Jack:** For audio input/output.
- **MicroSD Card Slot:** For expanding storage or transferring data from memory cards.

- **Kensington Lock:** For physical security.

Support offline charging
USB 3.2



Kensington lock

USB 3.2

Headset jack

Ethernet
(RJ-45) port

MicroSD
card slot



DC-in jack

Type-C

USB4 with DC in

HDMI 2.1

Image: Left side view of the laptop detailing the various input/output ports.

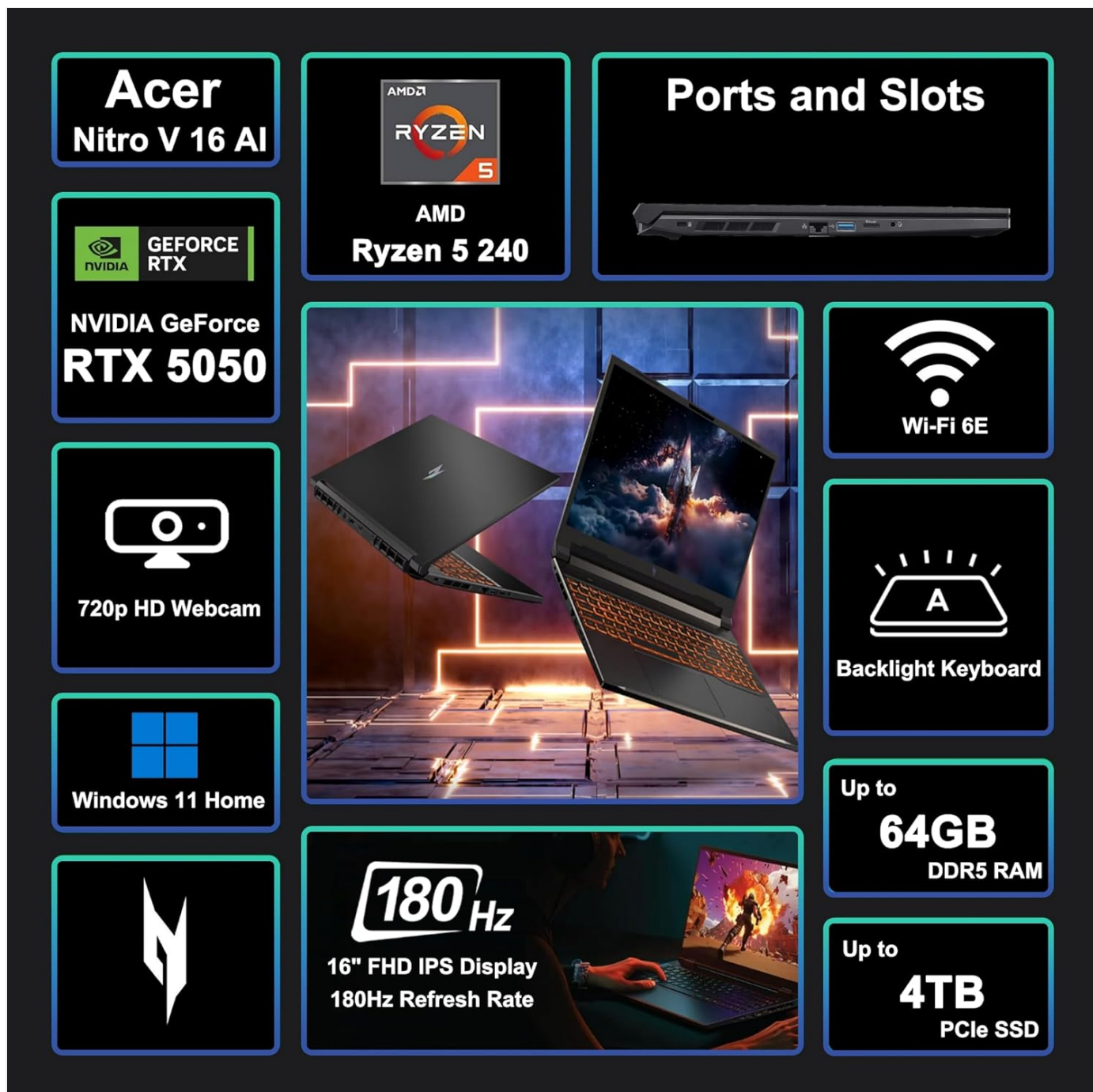


Image: A visual summary of key features and specifications of the Acer Nitro V 16 AI.

OPERATING YOUR LAPTOP

Display Features

The laptop features a 16-inch WUXGA (1920 x 1200) IPS display with a 180Hz refresh rate, providing smooth visuals for gaming and other demanding applications.

180Hz Refresh Rate

Get Smooth Gameplay

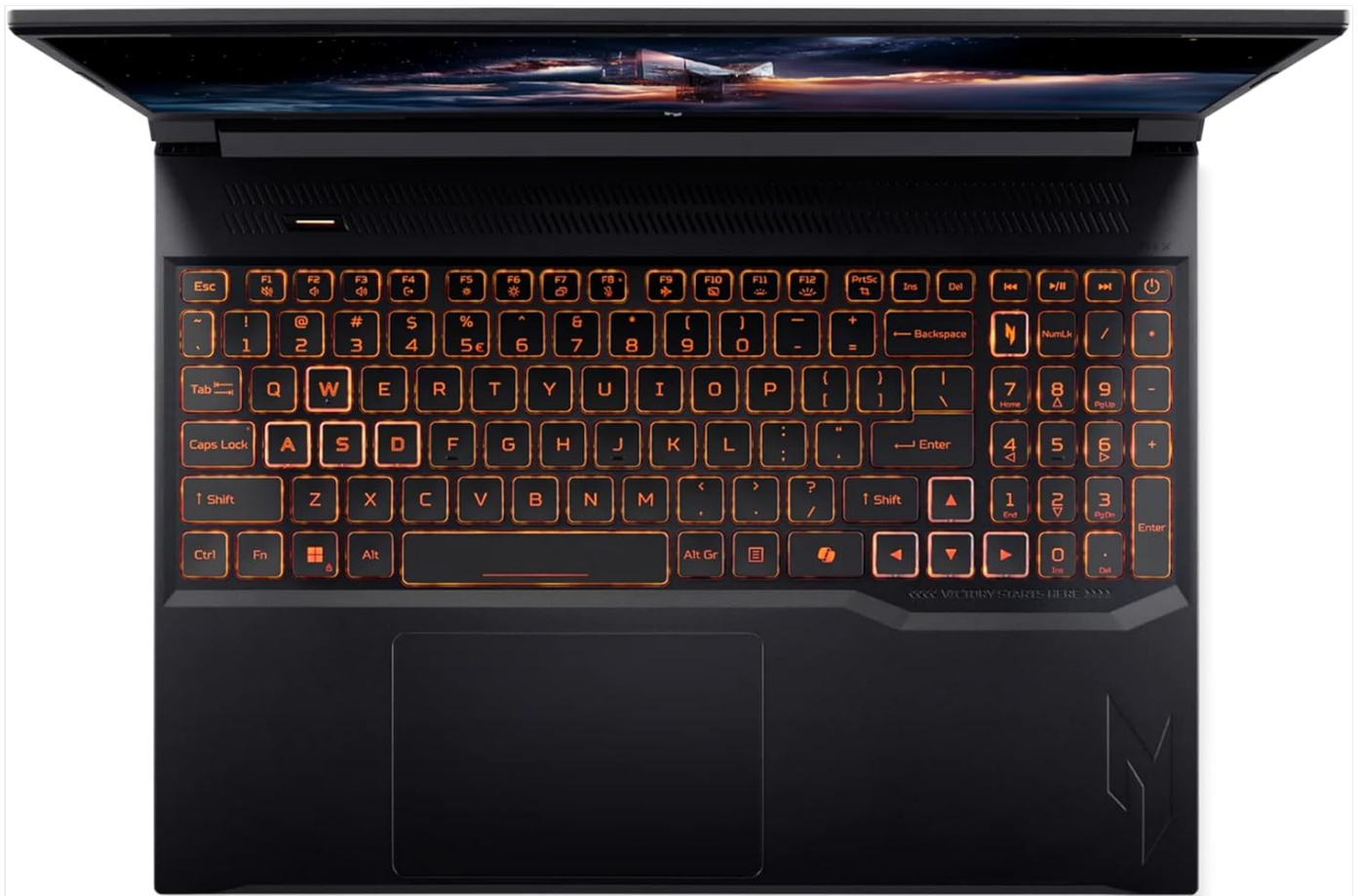
180Hz



Image: Visual representation of the difference between 60Hz and 180Hz refresh rates, highlighting smoother motion at higher rates.

Keyboard and Touchpad

The integrated keyboard is backlit, enhancing visibility in low-light conditions. The touchpad provides precise navigation and supports multi-touch gestures.



Backlit Keyboard

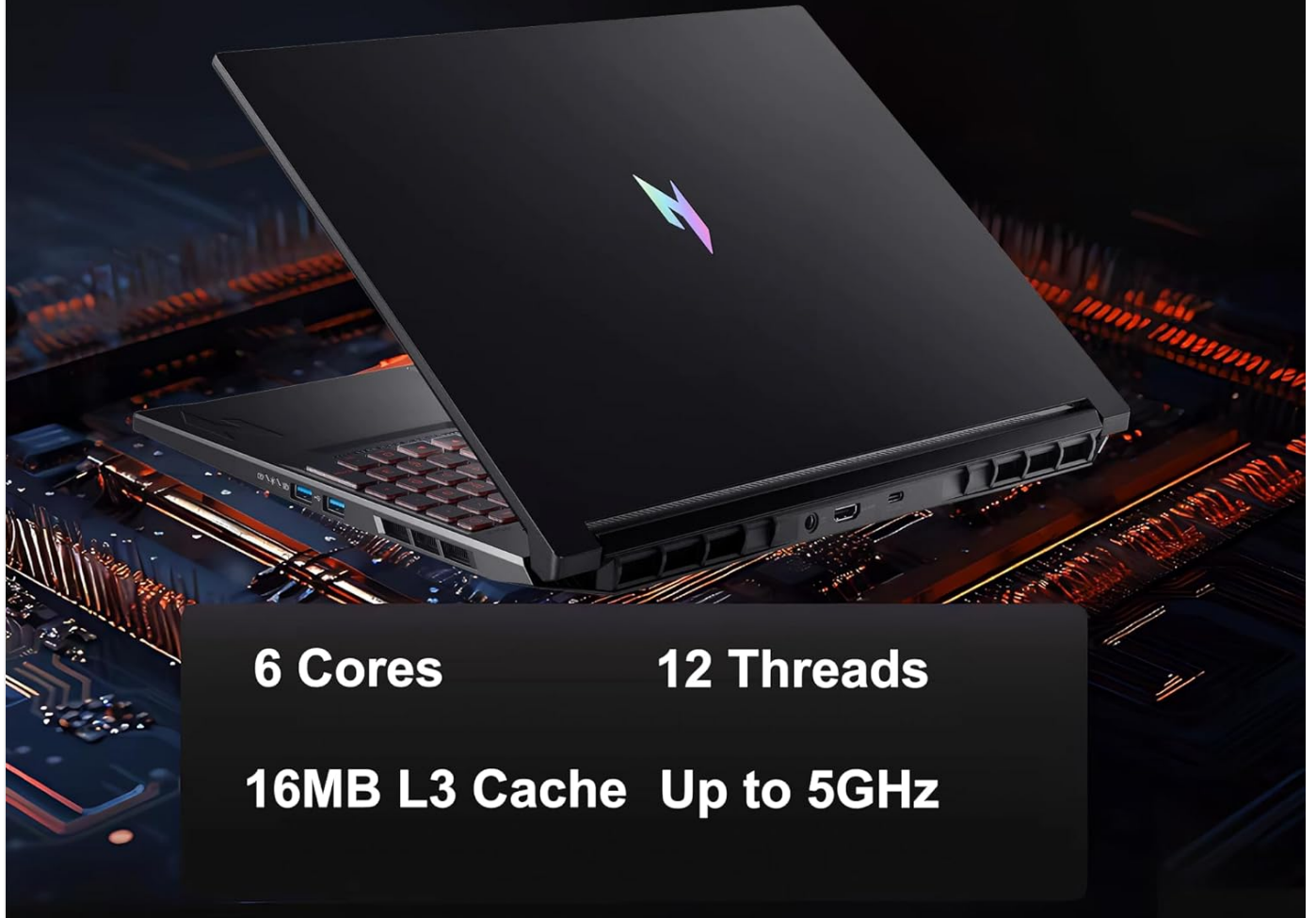
Image: Close-up of the backlit keyboard, showing key layout and illumination.

Performance Overview

The Acer Nitro V 16 AI is equipped with an AMD Zen 4 Hexa-Core Ryzen 5 240 Processor and a dedicated NVIDIA GeForce RTX 5050 8GB Graphic card, alongside 32GB of RAM and a 1TB SSD, ensuring robust performance for gaming, content creation, and multitasking.



AMD Ryzen 5 240



6 Cores

12 Threads

16MB L3 Cache Up to 5GHz

Image: Details of the AMD Ryzen 5 240 processor, highlighting its core count, threads, cache, and clock speed.

NVIDIA GeForce RTX

5050



Powered by NVIDIA Blackwell, GeForce RTX 50 Series GPUs bring game-changing capabilities to gamers and creators. Equipped with a massive level of AI horsepower, the RTX 50 Series enables new experiences and next-level graphics fidelity. Multiply performance with NVIDIA DLSS 4, generate images at unprecedented speed, and unleash your creativity with NVIDIA Studio.

Image: Information about the NVIDIA GeForce RTX 5050 GPU, emphasizing its capabilities for gaming and creative tasks.

Cooling System

The laptop incorporates an advanced cooling system designed to maintain optimal temperatures during intensive use, preventing thermal throttling and ensuring consistent performance.

Battery Life

The 76Wh battery provides several hours of usage depending on the workload. For prolonged high-performance tasks like gaming or video editing, it is recommended to keep the laptop connected to the power adapter.

MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and exterior. Avoid harsh chemicals.
- **Software Updates:** Regularly update your operating system and drivers to ensure security and performance.
- **Ventilation:** Ensure the laptop's vents are clear and unobstructed to prevent overheating.

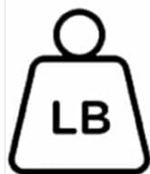
- **Battery Care:** Avoid fully discharging the battery frequently. For long-term storage, charge the battery to about 50-60%.

TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected and the outlet is functional.
- **Display Issues:** Check external monitor connections if applicable. Update graphics drivers.
- **Performance Lag:** Close unnecessary applications. Check for background processes consuming resources. Ensure proper ventilation.
- **Connectivity Problems:** For Wi-Fi, restart your router and the laptop. For wired connections, check the Ethernet cable.

SPECIFICATIONS

Feature	Detail
Brand	acer
Model Name	Acer Nitro V 16 AI
Screen Size	16 Inches
Screen Resolution	1920 x 1200 pixels (WUXGA)
Refresh Rate	180Hz
Processor	AMD Zen 4 Hexa-Core Ryzen 5 240 (4.3 GHz base, up to 5GHz boost)
RAM	32GB DDR5
Storage	1TB SSD
Graphics Coprocessor	NVIDIA GeForce RTX 5050 8GB
Operating System	Windows 11 Home
Wireless Type	Wi-Fi 6E (802.11ax)
Ports	3x USB-A 3.2, 1x USB-C 4, 1x HDMI 2.1, 1x RJ45, Headset Jack, MicroSD Card Reader
Battery	76Wh
Item Weight	5.38 pounds
Product Dimensions (LxWxH)	10.9 x 14.2 x 0.96 inches



5.38 lbs



Image: Physical dimensions and weight of the Acer Nitro V 16 AI laptop.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Acer support website. Protection plans may be available for extended coverage.

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Related Documents - Nitro V 16 AI

	Acer Aspire Lite Laptop - Specifications and Features Discover the Acer Aspire Lite laptop, a modern notebook designed for performance and portability. This document details its sleek metal-alloy design, narrow bezel display, AMD Ryzen processors, and comprehensive specifications.
	Acer Predator Orion 3000 PO3-600 Gaming Desktop Specifications Detailed specifications for the Acer Predator Orion 3000 PO3-600 gaming desktop, featuring Intel Core i7 9th Gen processor, NVIDIA GeForce RTX 1660 Ti graphics, 16GB DDR4 RAM, 512GB SSD, and 1TB HDD.
	Acer NITRO 16 AI / Acer NITRO 18 AI: Podręcznik Użytkownika dla Graczy Kompleksowy podręcznik użytkownika dla laptopów Acer NITRO 16 AI i Acer NITRO 18 AI. Odkryj funkcje, konfigurację, konserwację, wskazówki dotyczące bezpieczeństwa i rozwiązywanie problemów, aby w pełni wykorzystać potencjał swojego urządzenia gamingowego.
	Acer Nitro V 15 AI / Acer Nitro V 15 Podręcznik Użytkownika Kompleksowy podręcznik użytkownika dla laptopów Acer Nitro V 15 AI i Acer Nitro V 15, zawierający instrukcje dotyczące konfiguracji, obsługi, konserwacji, rozwiązywania problemów i bezpieczeństwa.
	Acer Nitro V 15 AI / Acer Nitro V 15 Podręcznik Użytkownika Szczegółowy podręcznik użytkownika dla laptopów Acer Nitro V 15 AI i Acer Nitro V 15 (ANV15-42, ANV15-52), zawierający instrukcje dotyczące konfiguracji, obsługi, funkcji, bezpieczeństwa, rozwiązywania problemów oraz oprogramowania NitroSense.
	Acer NITRO 16S AI - Windows 11 NitroSense FAQ

