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Acer AN515-45-R92M

Acer Nitro 5 AN515-45-R92M Gaming Laptop User Manual

Introduction

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Acer Nitro 5 AN515-45-R92M gaming laptop. Please read this guide thoroughly to ensure optimal performance and longevity of your device.



Front view of the Acer Nitro 5 AN515-45-R92M gaming laptop, showcasing the display with a game scene, RGB

backlit keyboard, and branding.

Setup

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that the following items are included:

- Acer Nitro 5 AN515-45-R92M Laptop
- AC Adapter
- Power Cord
- Hard Drive Upgrade Kit

Inspect the laptop for any physical damage. If any damage is found, contact your retailer immediately.

2. Connecting the Power Adapter

1. Connect the AC adapter to the power jack on the laptop.
2. Plug the power cord into the AC adapter and then into a grounded electrical outlet.

It is recommended to fully charge the battery before initial use.

3. Initial Power-On

Open the laptop lid and press the power button, typically located above the keyboard or on the side. The laptop will boot up and guide you through the initial Windows 10 Home setup process.



Angled view of the Acer Nitro 5 AN515-45-R92M, highlighting the open laptop with its RGB keyboard and the closed

laptop from the rear.

Operating Instructions

1. Keyboard and Input

The Acer Nitro 5 features a 4-Zone RGB Backlit Keyboard. You can customize the lighting effects and brightness through the NitroSense software. The touchpad supports multi-gesture input for navigation.



Close-up of the right side of the Acer Nitro 5 AN515-45-R92M keyboard, showing the dedicated NitroSense key and RGB backlighting.

2. Display

Your laptop is equipped with a 15.6-inch Full HD (1920 x 1080) Widescreen LED-backlit IPS Display with a 144Hz Refresh Rate, providing smooth visuals for gaming and multimedia.

3. Audio

Experience enhanced audio with DTS:X Ultra Audio and Acer True Harmony Technology, delivered through two built-in stereo speakers. Acer Purified.Voice technology with two built-in microphones ensures clear communication.



Acer Nitro 5 AN515-45-R92M laptop with a concert scene on the display, highlighting DTS:X Ultra audio technology.

4. Connectivity

The laptop offers robust connectivity options:

- **Wireless:** Intel Wireless Wi-Fi 6 AX200 802.11ax Dual-Band (2.4GHz and 5GHz) with 2x2 MU-MIMO technology.
- **Wired:** Killer Ethernet E2600 10/100/1000 Gigabit Ethernet LAN for stable wired connections.
- **Bluetooth:** Bluetooth 5.1 for connecting wireless peripherals.



Acer Nitro 5 AN515-45-R92M laptop displaying a network interface, emphasizing Killer Ethernet E2600 for optimized network performance.

5. Ports

The following ports are available for connecting external devices:

- 1 x USB 3.2 Type C Gen 2 port (up to 10 Gbps)
- 1 x USB 3.2 Gen 2 Port (featuring Power-off Charging)
- 2 x USB 3.2 ports
- 1 x HDMI 2.1 Port with HDCP Support
- Ethernet (RJ-45) port
- Headphone/microphone combo jack



Close-up of the left and right sides of the Acer Nitro 5 AN515-45-R92M, detailing the various ports available for connectivity.

6. NitroSense Software

NitroSense is a pre-installed utility that allows you to monitor system information, adjust fan speeds, customize RGB keyboard lighting, and manage power plans for optimized performance.

7. Cooling System

The Acer Nitro 5 utilizes Acer CoolBoost Technology with twin fans and dual exhaust ports to maintain optimal operating temperatures during intensive tasks.



Acer Nitro 5 AN515-45-R92M with an on-screen display of the NitroSense software, illustrating the Acer CoolBoost Technology with fan icons and temperature readings.

Maintenance

1. General Care

- Keep the laptop clean by regularly wiping surfaces with a soft, dry cloth.
- Avoid exposing the laptop to extreme temperatures, direct sunlight, or high humidity.
- Ensure ventilation openings are clear of obstructions to prevent overheating.

2. Battery Care

- For optimal battery life, avoid frequently discharging the battery completely.
- If storing the laptop for an extended period, ensure the battery is charged to approximately 50%.

3. Storage Upgrades

The Acer Nitro 5 AN515-45-R92M includes a Hard Drive Upgrade Kit. It features two PCIe M.2 slots (one available for easy upgrades) and one available 2.5-inch hard drive bay, allowing for expanded storage capacity.

4. Software Updates

Regularly update your operating system and drivers to ensure system stability, security, and optimal performance. You can check for updates through Windows Update and Acer's official support website.

Troubleshooting

If you encounter issues with your laptop, consider the following basic troubleshooting steps:

- **No Power:** Ensure the AC adapter is securely connected to both the laptop and a working power outlet. Try a different outlet if necessary.
- **Display Issues:** If the screen is blank, try connecting an external monitor to verify if the issue is with the laptop's display. Ensure display drivers are up to date.
- **Connectivity Problems:** For Wi-Fi issues, restart your router and the laptop. For wired connections, check the Ethernet cable. Ensure all network drivers are installed correctly.
- **Slow Performance:** Close unnecessary applications, check for malware, and ensure sufficient free storage space.

For more complex issues or persistent problems, refer to the Acer support website or contact Acer customer service for assistance.

Specifications

Feature	Detail
Model Name	AN515-45-R92M
Processor	AMD Ryzen 7 5800H Octa-Core (3.2GHz, up to 4.4GHz max boost)
Graphics	NVIDIA GeForce RTX 3060 Laptop GPU with 6 GB GDDR6 VRAM
Display	15.6" Full HD (1920 x 1080) Widescreen LED-backlit IPS, 144Hz Refresh Rate
RAM	16GB DDR4 3200MHz
Storage	512GB PCIe NVMe SSD (2 x PCIe M.2 Slots, 1 available) & 1 available 2.5" Hard Drive Bay
Wireless Connectivity	Intel Wireless Wi-Fi 6 AX200 (802.11ax), Bluetooth 5.1
Wired Connectivity	Killer Ethernet E2600 Gigabit Ethernet LAN
Ports	1x USB 3.2 Type C Gen 2, 1x USB 3.2 Gen 2 (Power-off Charging), 2x USB 3.2, 1x HDMI 2.1
Keyboard	4-Zone RGB Backlit Keyboard
Audio	DTS:X Ultra Audio, Acer True Harmony Technology
Operating System	Windows 10 Home

Battery Life	Up to 10 hours
Weight	4.85 lbs (2.2 kg)
Dimensions (LxWxH)	14.31 x 10.04 x 0.94 inches

Warranty and Support

Your Acer Nitro 5 AN515-45-R92M laptop comes with a limited warranty. Please refer to the warranty card included with your product for specific terms and conditions, including coverage duration and service procedures.
For technical support, driver downloads, and additional resources, please visit the official Acer support website. You can find contact information and FAQs there to assist with any product-related inquiries.
Online Support: www.acer.com/support

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