

Acer N50-656-UR16

Acer Nitro 50 N50-656-UR16 Gaming Desktop User Manual

Model: N50-656-UR16

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Acer Nitro 50 N50-656-UR16 Gaming Desktop. Please read this manual thoroughly to ensure optimal performance and longevity of your device.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Acer Nitro 50 N50-656-UR16 Desktop Unit
- Keyboard
- Mouse
- Power Cord



Image: Acer Nitro 50 N50-656-UR16 Gaming Desktop, accompanied by its wired keyboard and mouse, ready for setup.

SETUP INSTRUCTIONS

- 1. Unpack the Desktop:** Carefully remove the desktop unit, keyboard, mouse, and power cord from their packaging.
- 2. Position the Desktop:** Place the desktop on a stable, flat surface with adequate ventilation. Ensure air vents are not obstructed.
- 3. Connect Peripherals:**
 - Connect the keyboard and mouse to the available USB ports on the desktop.
 - Connect your monitor(s) to the graphics card ports (DisplayPort or HDMI) on the rear of the desktop.
 - Connect speakers or headphones to the audio jacks if desired.
- 4. Connect to Network:**
 - For a wired connection, connect an Ethernet cable from your router/modem to the RJ-45 Ethernet port on the rear of the desktop.
 - For a wireless connection, ensure your Wi-Fi network is active. The desktop supports Intel Wi-Fi 6E AX211.
- 5. Connect Power:** Plug the power cord into the desktop's power input, then plug the other end into a grounded

electrical outlet.

6. **Power On:** Press the power button on the front of the desktop. Follow the on-screen instructions to complete the Windows 11 Home setup.

Front Port Access

1 - USB 3.2 Type C Gen 2x2 port (up to 20 Gbps), 1 - USB 3.2 Gen 2 Port & 2 - Audio Ports



Image: Front panel of the Acer Nitro 50 desktop, highlighting the easily accessible USB-C, USB-A, and audio ports for convenient peripheral connections.



Image: Rear view of the Acer Nitro 50 desktop, displaying the array of connectivity options including DisplayPort, HDMI, multiple USB ports, and an Ethernet port for comprehensive setup.

OPERATING INSTRUCTIONS

Your Acer Nitro 50 N50-656-UR16 comes pre-installed with Windows 11 Home, offering a user-friendly interface for all your computing needs.

- **Power On/Off:** Press the power button once to turn on the system. To shut down, click the Start button in Windows, then select Power > Shut down.
- **Restart:** To restart the system, click the Start button, then select Power > Restart.

- **Sleep Mode:** To put the system into sleep mode, click the Start button, then select Power > Sleep.
- **Connecting to Wi-Fi:** Access network settings in Windows 11 to connect to your preferred Wi-Fi 6E network.
- **Audio Settings:** Utilize DTS:X Ultra Audio for enhanced sound experience. Adjust settings via the Windows sound control panel or dedicated DTS:X Ultra software.
- **Gaming Performance:** The Intel Core i7-14700F processor and NVIDIA GeForce RTX 4060 graphics card are designed for high-performance gaming. Ensure graphics drivers are up to date for optimal experience.



Image: A user engaged in gaming on the Acer Nitro 50 desktop, showcasing the system's capability for immersive gameplay powered by its Intel Core i7 processor.



Image: A user experiencing high-fidelity graphics while gaming on the Acer Nitro 50 desktop, highlighting the performance of the NVIDIA GeForce RTX graphics card.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your desktop.

- **Keep Vents Clear:** Ensure all air vents on the desktop chassis are free from dust and obstructions to prevent overheating.
- **Dust Cleaning:** Periodically clean the exterior of the desktop with a soft, dry cloth. For internal cleaning, it is recommended to consult a professional or refer to Acer's official support resources.
- **Software Updates:** Regularly update your Windows operating system, drivers (especially graphics drivers), and other software to maintain security and performance.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.
- **Power Management:** Use a surge protector to protect your desktop from power fluctuations.



Image: Side view of the Acer Nitro 50 desktop, illustrating the ventilation grilles designed for efficient airflow and cooling.

TROUBLESHOOTING

If you encounter issues with your Acer Nitro 50, refer to the following common troubleshooting steps:

- **No Power:**

- Check if the power cord is securely connected to both the desktop and the electrical outlet.
- Ensure the power outlet is functional by testing it with another device.

- **No Display:**

- Verify that the monitor is powered on and connected correctly to the graphics card ports (DisplayPort or HDMI).
- Try connecting the monitor to a different port or using a different cable if available.

- **System Slowdown:**

- Close unnecessary applications running in the background.
- Check for malware or viruses using reputable antivirus software.

- Ensure sufficient free space on your 1TB PCIe Gen 4 SSD.
- **Network Connectivity Issues:**
 - For wired connections, check the Ethernet cable and router/modem status.
 - For wireless connections, ensure Wi-Fi is enabled and you are connected to the correct network. Restart your router/modem.
- **Audio Problems:**
 - Check speaker/headphone connections and volume levels.
 - Verify audio drivers are installed and up to date in Device Manager.

For more advanced issues, please contact Acer Support.

SPECIFICATIONS






Feature	Detail
Model Number	N50-656-UR16 (DG.E3VAA.004)
Processor	Intel Core i7-14700F 20-Core Processor (Up to 5.4GHz)
Graphics Card	NVIDIA GeForce RTX 4060 with 8GB GDDR6 Video Memory
RAM	16GB DDR5 5600MHz (expandable to 32GB)
Storage	1TB PCIe Gen 4 NVMe SSD
Operating System	Windows 11 Home
Wireless Connectivity	Intel Wi-Fi 6E AX211 (Gig+) 802.11ax, Bluetooth
Ethernet	Realtek 8118AS Dragon Gigabit Ethernet
Front Ports	1x USB 3.2 Gen2x2 20 Gbps Type-C, 1x USB 3.2 Gen2 10Gbps Type-A, 2x Audio Jacks
Rear Ports	2x USB 3.2 Gen2 5Gbps Type-A, 4x USB 2.0 480Mbps, 3x Audio Jacks, 1x RJ-45 Ethernet, 3x DisplayPort 1.4a, 1x HDMI 2.1
Audio	DTS:X Ultra Audio
Dimensions (LxWxH)	15.2 x 6.89 x 15.43 inches
Weight	17.86 pounds

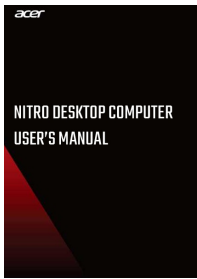
WARRANTY AND SUPPORT

Your Acer Nitro 50 N50-656-UR16 Gaming Desktop is covered by Acer's standard warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Acer support website. For technical assistance, driver downloads, or service inquiries, please contact Acer Support through their official channels. Keep your product's serial number (located on the desktop chassis) readily available when contacting support.

Acer Support Website: www.acer.com/support

Related Documents - N50-656-UR16

 <p>Predator Orion 3000</p>	<p>Acer Predator Orion 3000 PO3-600 Gaming Desktop Specifications</p> <p>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.</p>
 <p>NITRO DESKTOP COMPUTER USER'S MANUAL</p>	<p>Acer Nitro Desktop Computer User's Manual</p> <p>Comprehensive user manual for Acer Nitro desktop computers, covering setup, basic care, recovery options, internet connectivity, security, and troubleshooting.</p>
 <p>Aspire 5742/5742G/5742Z/5742ZG Series Service Guide</p>	<p>Acer Aspire 5742/5742G/5742Z/5742ZG Series Service Guide</p> <p>This service guide provides detailed technical information, system specifications, disassembly procedures, and troubleshooting steps for the Acer Aspire 5742, 5742G, 5742Z, and 5742ZG series laptops. It is intended for service professionals and covers hardware components, utilities, and repair guidance.</p>
 <p>Aspire 5920G Series Service Guide</p>	<p>Acer Aspire 5920G Series Service Guide - Technical Manual</p> <p>Comprehensive service guide for the Acer Aspire 5920G Series laptop, detailing system specifications, disassembly, troubleshooting, BIOS, and FRU parts. Essential for repair and maintenance.</p>
 <p>Acer Predator G3620 Service Guide</p>	<p>Acer Predator G3620 Service Guide</p> <p>This service guide provides comprehensive technical information for the Acer Predator G3620 desktop computer, covering system tour, utilities, disassembly and assembly procedures, troubleshooting, and a detailed list of field-replaceable units (FRUs).</p>



[Acer Nitro Desktop Computer User's Manual: Setup, Care, and Troubleshooting](#)

Comprehensive user manual for the Acer Nitro Desktop Computer, covering setup, basic care, system recovery, internet connectivity, security best practices, port descriptions, troubleshooting common issues, and online safety tips.