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› [ASUS V500 Home & Business Desktop Computer User Manual](#)

ASUS V500

ASUS V500 Home & Business Desktop Computer User Manual

Model: V500

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ASUS V500 Home & Business Desktop Computer. Please read it thoroughly to ensure proper usage and to maximize the performance and longevity of your device.



Figure 1: ASUS V500 Desktop Computer with included keyboard and mouse.

2. SETUP GUIDE

2.1. Unboxing and Initial Connection

Carefully remove the ASUS V500 desktop computer and its accessories from the packaging. Place the computer on a stable, flat surface with adequate ventilation. Connect the included wired keyboard and mouse to the available USB ports. Connect your monitor to either the HDMI or DisplayPort on the rear panel of the computer. Ensure all cables are securely connected.



ASUS V500 Mini Tower

Optimal Performance, Enhanced Productivity

Figure 2: ASUS V500 Mini Tower desktop computer set up with a monitor.

2.2. Power On and Initial Boot

Connect the power cord to the computer's power input and then to a power outlet. Press the power button located on the front panel of the computer. The system will begin its initial boot sequence. Follow the on-screen prompts to complete the Windows 11 Home setup, including language selection, network configuration, and user account creation.

3. OPERATING INSTRUCTIONS

3.1. Front and Rear Panel Overview

The ASUS V500 offers a comprehensive set of ports for versatile connectivity. Familiarize yourself with the port locations for optimal use.

Comprehensive hassle-free connections

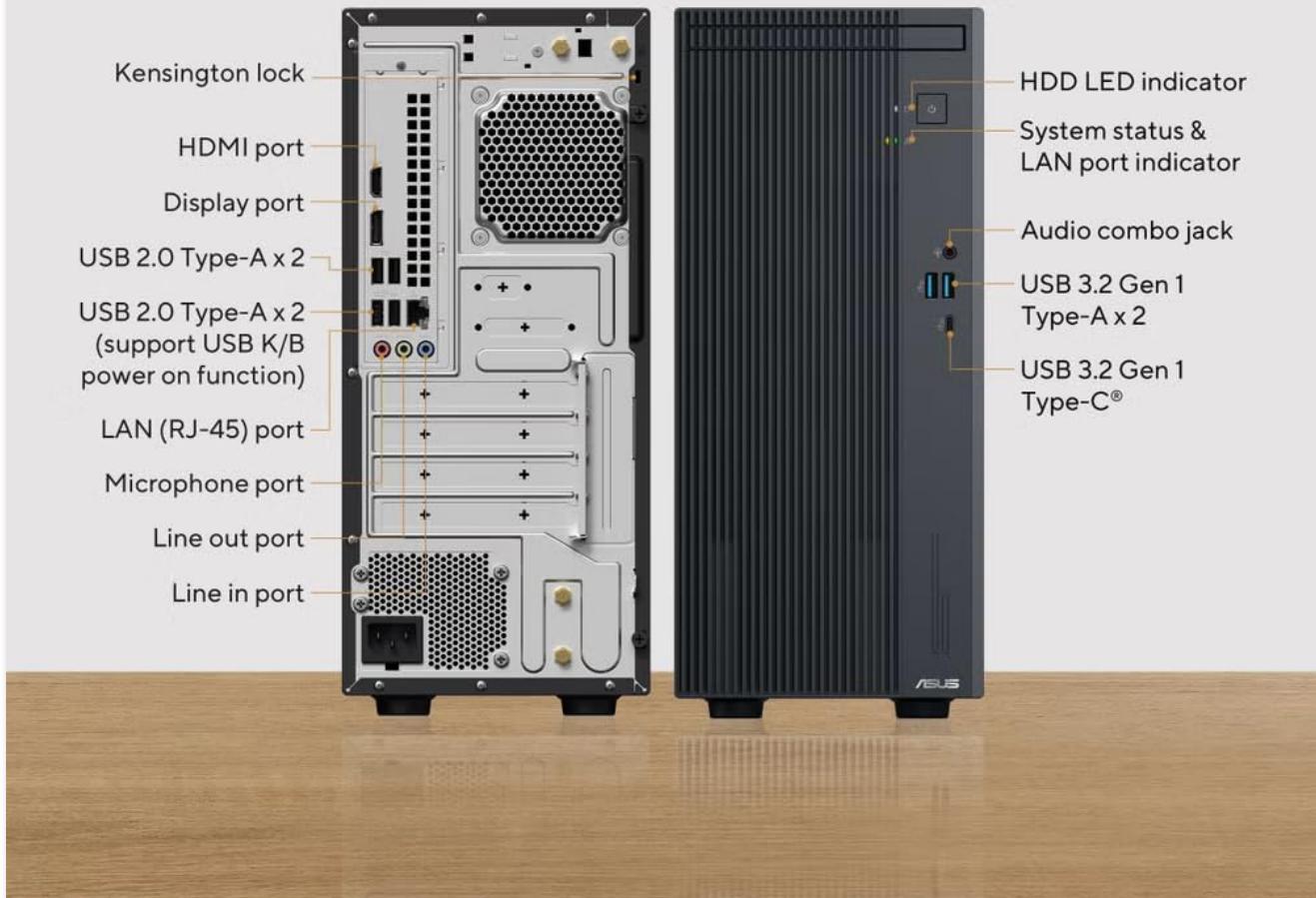


Figure 3: Front and Rear I/O Ports of the ASUS V500.

Front I/O Ports:

- **1x Headphone:** For connecting headphones or headsets.
- **1x USB 3.2 Gen 1 Type-C:** High-speed data transfer and connectivity for modern devices.
- **2x USB 3.2 Gen 1 Type-A:** For connecting USB peripherals like keyboards, mice, and external drives.
- **1x 3.5mm combo audio jack:** For connecting headsets with a single jack.

Rear I/O Ports:

- **1x RJ45 Gigabit Ethernet:** For wired network connection.
- **1x HDMI:** For connecting to a monitor or display.
- **1x DisplayPort:** For connecting to a second monitor or display, supporting dual monitor setups.
- **1x 7.1 channel audio (microphone, line-out, Line-in):** For advanced audio setups.
- **1x Kensington lock:** For physical security of the device.
- **4x USB Type-A:** Additional USB ports for various peripherals.

3.2. Wireless Connectivity

The ASUS V500 is equipped with Wi-Fi 6 (802.11ax) for fast and reliable wireless internet access, featuring dual-band 1x1 integrated antennas. Bluetooth 5.4 is also integrated for connecting wireless peripherals such as headphones, speakers, or input devices.

4. KEY FEATURES

- **Powerful 13th Gen Intel Core i7 Processor:** The Intel Core i7-13620H processor (24MB Cache, up to 4.9 GHz, 10 cores, 16 Threads) handles demanding tasks efficiently, suitable for multitasking, business applications, and entertainment.
- **Optimized Memory & Storage:** Features 32GB DDR5 RAM for smooth performance and a 1TB PCIe NVMe M.2 SSD for fast boot-up, quick application loading, and ample storage for files and multimedia.
- **Integrated Intel UHD Graphics:** Enjoy smooth 4K streaming, efficient content creation, and clear visuals for daily computing needs.
- **Comprehensive Connectivity:** A variety of ports including USB 3.2, USB-C, HDMI, and DisplayPort ensure seamless integration with peripherals and external devices.
- **Windows 11 Home:** Experience a streamlined, modern interface designed to enhance productivity, creativity, and connectivity.
- **Military-Grade Durability:** ASUS desktops are tested against MIL-STD-810H durability standards, ensuring robustness against shock, vibration, and temperature extremes.
- **Quiet Operation:** Engineered for near-silent operation, generating less than 38 dB during typical use.
- **Two-way AI Noise-Canceling Audio:** AI-powered noise-canceling technology enhances clarity for professional conferencing.

Primed For Any Task

Intel® Core™ i7 16GB 512GB
processor DDR5 RAM SSD

Windows 11 Home Intel® UHD
OS Graphics



Figure 4: Core components and operating system.

Built to last

ASUS desktops are extraordinarily tough and are tested against industry-leading military-grade MIL-STD-810H durability standards.



Shock Test



Vibration Test



High Temperature Test



Low Temperature Test



Figure 5: ASUS V500 durability standards.

Keeping Things Quiet

Engineered for near-silent operation, generates less than 38 dB during operation.

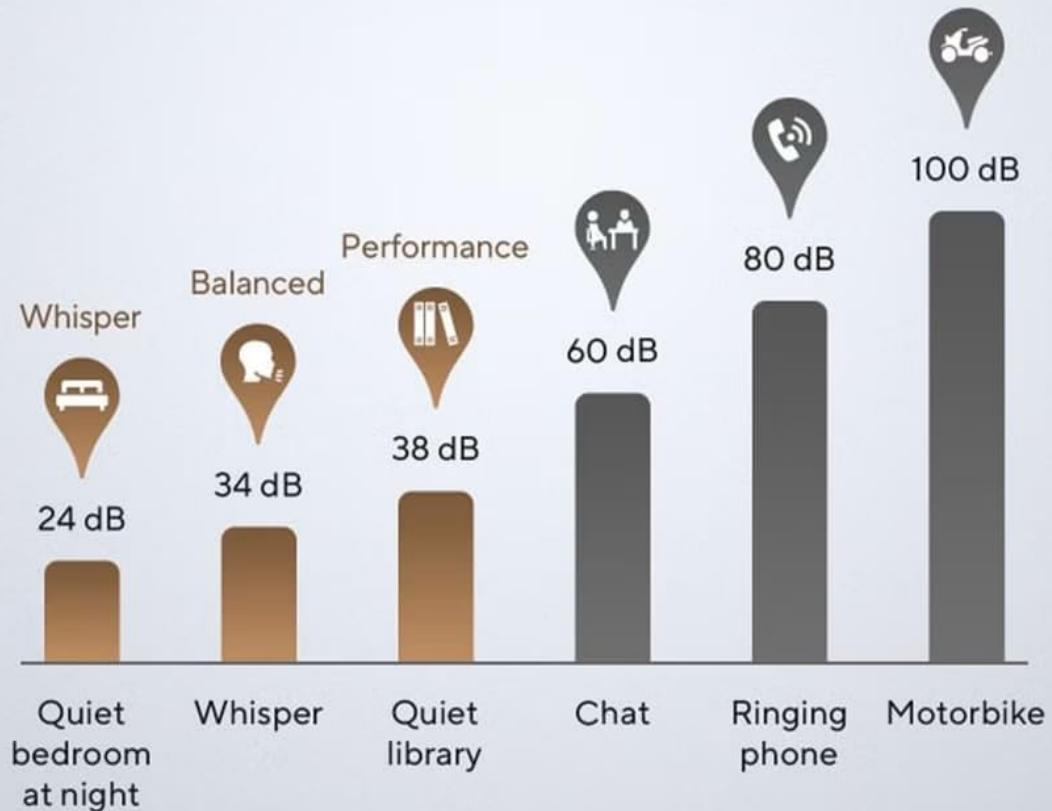


Figure 6: Noise levels during operation.

Two-way AI noise-canceling Audio Technology

AI-powered noise-canceling technology for professional conferencing needs.



Figure 7: Two-way AI noise-canceling audio technology.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your ASUS V500, regular maintenance is recommended:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the computer. For stubborn marks, a slightly damp cloth with mild cleaning solution can be used, ensuring no liquid enters the vents or ports.
- **Ventilation:** Ensure the computer's vents are clear of obstructions to prevent overheating. Avoid placing the computer in enclosed spaces without proper airflow.
- **Software Updates:** Regularly check for and install Windows updates and driver updates to maintain system stability and security.
- **Data Backup:** Periodically back up important data to an external drive or cloud storage to prevent data loss.

6. TROUBLESHOOTING

If you encounter issues with your ASUS V500, try the following basic troubleshooting steps:

- **No Power:** Ensure the power cord is securely connected to both the computer and the power outlet. Try a different power outlet.
- **No Display:** Verify that the monitor cable (HDMI or DisplayPort) is securely connected to both the computer and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **Peripheral Not Working:** Check the USB connection for the keyboard or mouse. Try connecting the peripheral to a different USB port.
- **Slow Performance:** Close unnecessary applications. Check Task Manager for processes consuming high CPU or RAM. Ensure Windows and drivers are up to date.
- **Network Connectivity Issues:** For wired connections, ensure the Ethernet cable is properly connected. For Wi-Fi, check if the Wi-Fi adapter is enabled and connected to the correct network. Restart your router if necessary.

If problems persist, refer to the official ASUS support website or contact customer service for further assistance.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	Intel Core i7-13620H (24MB Cache, up to 4.9 GHz, 10 cores, 16 Threads)
RAM	32 GB DDR5
Storage	1 TB PCIe NVMe M.2 SSD
Graphics	Intel UHD Graphics (Integrated)
Operating System	Windows 11 Home
Wireless Connectivity	Wi-Fi 6 (802.11ax) Dual band 1x1, Bluetooth 5.4
Front I/O Ports	1x Headphone, 1x USB 3.2 Gen 1 Type-C, 2x USB 3.2 Gen 1 Type-A, 1x 3.5mm combo audio jack
Rear I/O Ports	1x RJ45 Gigabit Ethernet, 1x HDMI, 1x DisplayPort, 1x 7.1 channel audio, 1x Kensington lock, 4x USB Type-A
Power Supply	180W (80+ Bronze, peak 228W)
Dimensions (W x D x H)	15.50 x 29.60 x 34.70 cm (6.10" x 11.65" x 13.66")
Weight	6.00 kg (13.23 lbs)

8. WARRANTY AND SUPPORT

Your ASUS V500 Desktop Computer comes with a manufacturer's warranty. Please refer to the warranty documentation included in your product packaging for specific terms and conditions. For technical support, driver downloads, or service inquiries, please visit the official ASUS support website or contact their customer service. The product includes a wired optical mouse and a wired keyboard to get you started immediately.

Related Documents - V500

 <p>ASUS TUF GAMING B660-PLUS WIFI D4 Motherboard</p>	<p>ASUS TUF Gaming B660-PLUS WIFI D4 Motherboard User Manual</p> <p>Comprehensive user manual for the ASUS TUF Gaming B660-PLUS WIFI D4 ATX motherboard. Includes installation guides, specifications, safety information, BIOS setup, and support details.</p>
 <p>ASUS NUC 13 Pro Kit/Board/Mini-PC</p> <p>Technical Product Specification Requirements/Notes: NUC13VH-PRO (NUC13VH-PRO/PC) NUC13VH-Board</p>	<p>ASUS NUC 13 Pro Technical Product Specification - Mini PC, Board, Kit</p> <p>Detailed technical product specification for the ASUS NUC 13 Pro series, covering Mini PC, Kit, and Board variants. Includes layout, features, technical references, and BIOS information.</p>
 <p>ASUS TUF Z370-PLUS GAMING II</p>	<p>مشخصات، نصب و تنظیمات: ASUS TUF Z370-PLUS GAMING II: راهنمای مادربرد</p> <p>شامل مشخصات فنی، چیدمان قطعات، ASUS TUF Z370-PLUS GAMING II راهنمای جامع مادربرد و ویژگی‌های خاص ایسوس، RAID و BIOS و حافظه، تنظیمات CPU دستورالعمل‌های نصب</p>
 <p>ASUS Mini PC PN Series Quick Start Guide</p>	<p>Comprehensive quick start guide for ASUS Mini PC PN50 and PN51 series, covering package contents, detailed port descriptions, FCC compliance, and step-by-step instructions for setup and component upgrades like memory, SSD, and wireless cards.</p>
 <p>ASUS Desktop PC User Guide</p> <p>ASUS Desktop PC User Guide</p>	<p>ASUS Desktop PC User Guide: Setup, Operation, and Troubleshooting</p> <p>Get started with your ASUS Desktop PC (D901SDR, D901SDRES, M901SDR, D901SDRC). This user guide covers setup, connecting devices, internet access, Windows usage, and troubleshooting. Find support and resources at ASUS.com.</p>
 <p>ASUS NUC 12 PRO Engineered for Business and Commercial Needs</p> <p>ASUS NUC 12 Pro Mini PCs, Kits, and Boards are the best performance and connectivity in a 4x4 form factor. The NUC 12 Pro is built with the latest Intel® 12th Gen Intel® Core™ processors, up to 64GB DDR5 RAM, and up to 1TB PCIe 4.0 SSDs. It also features a range of connectivity options, including Thunderbolt 4, USB 4, and a range of ports for networking and storage. The NUC 12 Pro is designed for business, collaboration, digital signage, and edge computing.</p> <p>Business Performance The NUC 12 Pro offers advanced power and performance for edge computing, digital signage, and other business applications. It features Intel® 12th Gen Intel® Core™ processors, up to 64GB DDR5 RAM, and up to 1TB PCIe 4.0 SSDs. It also features a range of connectivity options, including Thunderbolt 4, USB 4, and a range of ports for networking and storage.</p> <p>Collaboration The NUC 12 Pro is ideal for business, collaboration, and digital signage. It features Intel® 12th Gen Intel® Core™ processors, up to 64GB DDR5 RAM, and up to 1TB PCIe 4.0 SSDs. It also features a range of connectivity options, including Thunderbolt 4, USB 4, and a range of ports for networking and storage.</p>	<p>ASUS NUC 12 PRO Mini PCs, Kits, and Boards: Business and Commercial Solutions</p> <p>Explore the ASUS NUC 12 Pro series, featuring 12th Gen Intel® Core™ processors for powerful performance in a compact 4x4 design. Ideal for business, collaboration, digital signage, and edge computing.</p>

