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## ACEMAGICIAN AD15

# ACEMAGICIAN AD15 Mini PC User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

## 1. INTRODUCTION

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The ACEMAGICIAN AD15 Mini PC is a compact and powerful desktop computer designed for a wide range of applications, from daily office tasks and web browsing to photo/video editing and light gaming. Featuring an Intel i5-12450H processor, 16GB DDR4 RAM, and a 512GB SSD, it offers robust performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your AD15 Mini PC.



Figure 1: ACEMAGICIAN AD15 Mini PC - Front and Rear View

The image displays the compact ACEMAGICIAN AD15 Mini PC, showcasing its sleek design and various ports on both the front and rear panels. The front includes audio, USB, and Type-C ports, while the rear features additional USB, HDMI, LAN, and power input ports.

## 2. WHAT'S IN THE BOX

Upon unboxing your ACEMAGICIAN AD15 Mini PC, please ensure all the following items are present:

- Mini PC \*1
- HDMI to HDMI cable \*1
- Adaptor \*1
- User manual \*1

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*Video 1: AD15 - Unboxing Video*

This video provides a visual guide to unboxing the AD15 Mini PC and its included accessories, ensuring you have all necessary components to get started.

### 3. SETUP

Follow these steps to set up your ACEMAGICIAN AD15 Mini PC for the first time:

1. **Connect to Power:** Plug the power adapter into the DC IN port on the back of the Mini PC, then connect it to a power outlet.
2. **Connect to Display:** Use the provided HDMI cable to connect your Mini PC to a monitor or TV. The AD15 supports up to three 4K@60Hz displays simultaneously via its Type-C and two HDMI interfaces.
3. **Connect Peripherals:** Plug in your USB keyboard and mouse into the available USB 3.0 ports on the front or back of the Mini PC.
4. **Network Connection:** For wired internet, connect an Ethernet cable to the LAN port. For wireless internet, the Mini PC supports WiFi 6.
5. **Power On:** Press the power button located on the top of the Mini PC. The system will boot into Windows 11 Pro.



Figure 2: Rich and Stable Interface Ports

This image highlights the various connectivity options on the AD15 Mini PC, including 3.5mm Headphone Jack, USB 3.0 (5Gbps)

ports, Type-C (10Gbps, 4K 60Hz) port on the front, and additional USB 3.0 (5Gbps) ports, HDMI 2.0 ports, Gigabyte Ethernet, and DC Power input on the rear.

## 4. OPERATING YOUR MINI PC

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The ACEMAGICIAN AD15 is designed for versatile performance across various tasks:

- **Processor Performance:** Equipped with the Intel Core i5-12450H processor (8 Cores, 12 Threads, up to 4.4GHz), the AD15 handles demanding applications with ease. It is suitable for spreadsheets, email, coding, web browsing, photo/video editing, and light gaming.
- **Multi-Screen Display:** Enhance your productivity by connecting up to three displays simultaneously. The Mini PC supports 4K@60Hz output across its HDMI and full-function Type-C ports. You can quickly switch extended screens using the shortcut key [WIN+P] or through the Intel graphics command center.
- **Storage and Memory:** The AD15 comes with 16GB DDR4 3200MHz RAM and a 512GB M.2 NVMe PCIe 3.0 SSD, providing ample speed and storage for most users.

# 4K 60HZ 3-SCREEN SIMULTANEOUS DISPLAY



Figure 3: 4K 60Hz 3-Screen Simultaneous Display

This image illustrates the AD15 Mini PC connected to three monitors, demonstrating its capability for simultaneous 4K@60Hz display across multiple screens, ideal for enhanced productivity and multitasking.

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Video 2: AD15 - 3-screen simultaneously display

This video demonstrates the AD15 Mini PC's ability to drive three screens simultaneously, showcasing its versatility for various tasks like data analysis, web browsing, and video editing across different displays.

## 5. MAINTENANCE AND UPGRADES

The AD15 Mini PC is designed for easy maintenance and upgrades. You can enhance its performance by upgrading RAM or increasing storage capacity:

### 5.1. Upgrading RAM

The Mini PC supports DDR4 3200MHz memory modules. To upgrade, simply open the side cover and replace or add memory sticks. The AD15 has two memory slots available.



Figure 4: Easily Upgrade Memory and Hard Disk Capacity

This image illustrates the internal layout of the AD15 Mini PC, highlighting the accessible RAM slots and M.2 SSD bay, indicating the ease of upgrading both memory and storage components.

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*Video 3: AD15 - How to update the RAM*

This video provides a step-by-step guide on how to open the AD15 Mini PC and update its RAM modules, demonstrating the simple process for memory upgrades.

## 5.2. Expanding Storage

The AD15 comes with a 512GB M.2 NVMe PCIe 3.0 SSD. You can replace the existing M.2 SSD or add a 2.5-inch SSD for additional storage. The process is straightforward and does not require complex operations.

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*Video 4: AD15 - How to replace M.2 SSD*

This video demonstrates the procedure for replacing the M.2 SSD in the AD15 Mini PC, showing how to access the drive and install a new one.

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*Video 5: AD15 - How to add 2.5-in SSD*

This video illustrates the process of adding a 2.5-inch SSD to the AD15 Mini PC, detailing the steps to expand the storage capacity.

## 6. TROUBLESHOOTING

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If you encounter any issues with your AD15 Mini PC, please refer to the following common troubleshooting tips:

- **No Display:**

- Ensure all display cables (HDMI, Type-C) are securely connected to both the Mini PC and the monitor.
- Verify the monitor is set to the correct input source.
- Try a different display cable or monitor to rule out faulty hardware.

- **No Power:**

- Check that the power adapter is firmly connected to the Mini PC and the power outlet.
- Ensure the power outlet is functional.
- Press and hold the power button for 5-10 seconds to perform a hard reset.

- **Slow Performance:**

- Close unnecessary applications running in the background.
- Check for Windows updates and ensure all drivers are up to date.
- Monitor CPU and RAM usage in Task Manager to identify resource-intensive processes.
- Consider upgrading RAM or SSD if performance issues persist (refer to Section 5).

- **Peripheral Not Detected:**

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral's drivers are installed and up to date.
- Restart the Mini PC.

For more complex issues, please refer to the Warranty and Support section for contact information.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	ACEMAGICIAN
Model Number	AD15
Processor	Intel Core i5-12450H (8 Cores, 12 Threads, up to 4.4GHz)
RAM	16 GB DDR4 (3200MHz)
Storage	512 GB SSD (M.2 NVMe PCIe 3.0)

Feature	Specification
Graphics Coprocessor	Intel® UHD Graphics for 12th Gen Intel® Processors
Operating System	Windows 11 Pro
Max Screen Resolution	3840x2160 Pixels (4K@60Hz)
Wireless Type	5 GHz Radio Frequency, 802.11a/g/n/ac (WiFi 6), 2.4 GHz Radio Frequency
Bluetooth	BT5.2
USB Ports	4 x USB 3.0, 1 x Full-function Type-C
HDMI Ports	2 x HDMI 2.0
Ethernet	Gigabit Ethernet
Item Weight	1.69 pounds
Product Dimensions	5.91 x 2.97 x 7.09 inches

## 8. WARRANTY AND SUPPORT

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ACEMAGICIAN is committed to providing high-quality products and excellent after-sales service. Our purpose is to ensure customer satisfaction and become a leading representative in the mini PC industry.

- **Warranty:** Each ACEMAGICIAN product comes with a 12-month warranty, calculated from the date the buyer receives the goods. If any product issues arise within this period, a replacement machine can be provided.
- **Customer Support:**
  - For support, log in to your Amazon buyer account, find your order, and click "Get Help."
  - You may also contact support via email: [service@acemagicians.com](mailto:service@acemagicians.com)
  - Telephone Support (US): +1 800 908 1980
- **User Manual (PDF):** An official user manual in PDF format is available for download [here](#).