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Lenovo IdeaCentre AIO 27

Lenovo IdeaCentre AIO 27 All-in-One Desktop PC User Manual

Model: IdeaCentre AIO 27

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Lenovo IdeaCentre AIO 27 All-in-One Desktop PC. Please read this manual thoroughly before using your device to ensure proper functionality and to maximize its lifespan.



Figure 1: Lenovo IdeaCentre AIO 27 All-in-One Desktop PC

2. PACKAGE CONTENTS

Verify that all items are present in your product packaging:

- Lenovo IdeaCentre AIO 27 Desktop PC
- Power Adapter (90W)
- Keyboard (may be wired or wireless, depending on configuration)
- Mouse (may be wired or wireless, depending on configuration)
- Documentation (Quick Start Guide, Warranty Information)

3. PRODUCT OVERVIEW

3.1 Key Components



Figure 2: Overview of key features including Display, Resolution, Processor, Graphics, Storage, Memory, Operating System, and Camera.

- **Display:** 27-inch Full HD (1920x1080) IPS, 300 nits, anti-glare.
- **Webcam:** Integrated 5.0MP webcam with dual microphones.
- **Speakers:** Integrated 3W x2 HARMAN speakers.
- **Processor:** Intel Core i7-13620H.
- **Memory:** DDR5 RAM.
- **Storage:** PCIe NVMe SSD.

3.2 Ports and Connectors

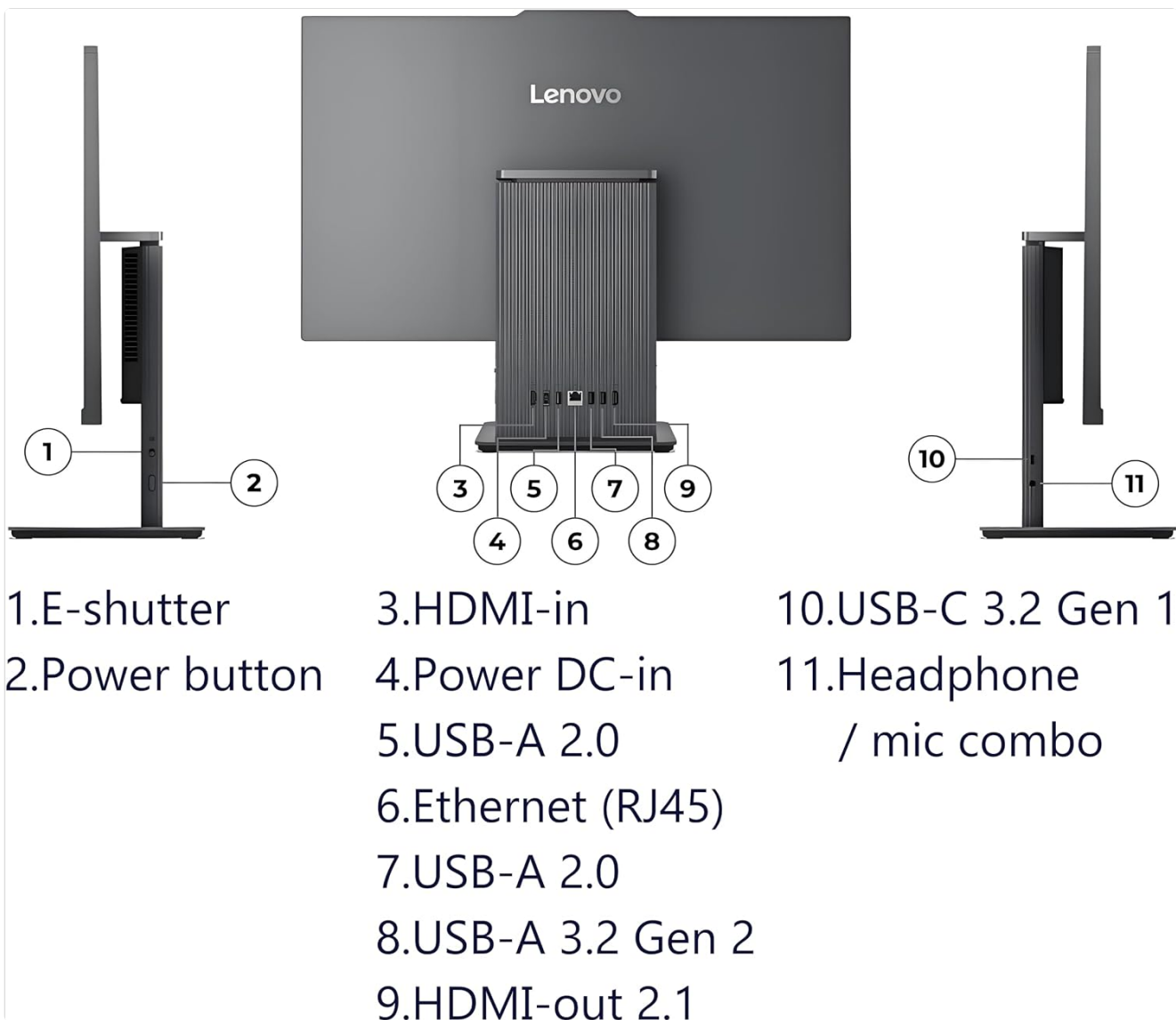


Figure 3: Detailed diagram of ports and connectors on the Lenovo IdeaCentre AIO 27.

1. E-shutter (for webcam privacy)
2. Power button
3. HDMI-in 1.4
4. Power DC-in
5. USB-A 480Mbps (USB 2.0)
6. Ethernet (RJ-45)
7. USB-A 480Mbps (USB 2.0)
8. USB-A 10Gbps (USB 3.2 Gen 2)
9. HDMI-out 2.1 TMDS
10. USB-C 10Gbps (data transfer only)
11. Headphone / microphone combo jack

4. SETUP

4.1 Unboxing and Placement

- Carefully remove the AIO PC and all accessories from the packaging.
- Place the AIO PC on a stable, flat surface with adequate ventilation around the device.

4.2 Connecting Power

1. Connect the power adapter cable to the DC-in port (4) on the rear of the AIO PC.
2. Plug the power adapter into a grounded electrical outlet.

4.3 Connecting Peripherals

- Connect your keyboard and mouse to the available USB-A ports (5, 7, 8) on the rear of the AIO PC.
- If using wired Ethernet, connect the cable to the RJ-45 port (6).
- For external displays, use the HDMI-out port (9). To use the AIO as a display for another device, use the HDMI-in port (3).

4.4 Initial Boot and Windows Setup

1. Press the power button (2) to turn on the PC.
2. Follow the on-screen instructions to complete the Windows 11 Pro initial setup, including language, region, network connection, and user account creation.

4.5 Adjusting the Stand



Ergonomic From Touch to Tilt

Engage and interact in new ways with the effortless navigation of the IdeaCentre AIO i's optional touchscreen. The tilting hinge adjusts from -5° to 15° , ensuring an optimal viewing experience at every height and posture.

Figure 4: The AIO stand allows for ergonomic tilt adjustment.

The integrated stand allows for tilt adjustment from -5° to 15° to optimize your viewing angle and posture. Gently adjust the display to your preferred position.

5. OPERATING YOUR PC

5.1 Basic Operation

- **Power On/Off:** Press the power button (2) to turn on. To shut down, click Start > Power > Shut down in Windows.
- **Sleep Mode:** Press the power button briefly or select Sleep from the Start menu.

5.2 Using the Webcam and Audio



Clearer. Sharper. Undistracted

Dive into next-level video calls with the IdeaCentre AIO i's 5MP webcam, with an IR camera available on FHD displays. Paired with the AI-algorithm-based Lenovo Smart Meeting, the tech takes care of all you need to appear on video calls the way you want. Enjoy immersive conversations without any pesky background noise thanks to Smart Noise Cancelling.

Figure 5: The 5MP webcam and Harman audio enhance video conferencing.

- **Webcam:** The integrated 5.0MP webcam is ideal for video conferencing and online communication. Use the E-shutter (1) to physically block the camera for privacy.
- **Microphones:** Dual microphones provide clear audio input.
- **Speakers:** HARMAN speakers deliver high-quality audio output.

5.3 Connectivity

- **Wi-Fi 6:** Connect to wireless networks for high-speed internet access.
- **Bluetooth 5.2:** Pair with Bluetooth-enabled devices such as headphones, speakers, or mobile phones.
- **USB Ports:** Utilize the various USB-A and USB-C ports for connecting external drives, printers, and other peripherals.

5.4 Windows 11 Pro Features

Your AIO PC comes pre-installed with Windows 11 Pro, offering advanced features for productivity and security:

- **BitLocker:** For advanced data encryption.
- **Remote Desktop:** Access your PC from another device.

- **Domain Join:** Integrate into corporate networks.
- **Windows Hello:** Secure and fast login using facial recognition (if IR camera is present) or PIN.

6. MAINTENANCE

6.1 Cleaning Your PC

- **Display:** Use a soft, lint-free cloth slightly dampened with water or a non-abrasive screen cleaner. Do not spray liquid directly onto the screen.
- **Chassis:** Wipe with a soft, dry cloth. Avoid harsh chemicals or abrasive materials.
- **Ventilation:** Ensure ventilation openings are clear of dust and obstructions to prevent overheating.

6.2 Software Updates

Regularly check for and install Windows updates and driver updates to ensure optimal performance and security. Go to Settings > Windows Update to check for updates.

6.3 Data Backup

Periodically back up your important data to an external drive or cloud storage to prevent data loss.

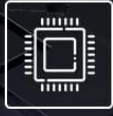
7. TROUBLESHOOTING

This section addresses common issues you might encounter with your IdeaCentre AIO 27.

Problem	Possible Solution
PC does not power on	Ensure the power adapter is securely connected to both the PC and a working electrical outlet. Test the outlet with another device.
No display on screen	Check power connection. Ensure the PC is powered on. If using HDMI-in, verify the external device is on and correctly connected.
No internet connection (Wi-Fi)	Check if Wi-Fi is enabled in Windows settings. Verify your router is working. Reconnect to the Wi-Fi network.
No audio	Check volume levels in Windows. Ensure speakers are not muted. Verify audio drivers are up to date.
Webcam not working	Ensure the E-shutter (1) is open. Check privacy settings in Windows. Verify webcam drivers are installed and up to date.

8. SPECIFICATIONS

NEW INTEL CORE I7-13620H PROCESSOR CPU



10 Cores
16 Threads



45W
TDP



24 MB
L3 Cache



4.9GHz
Fast Processor



Geekbench 6 (Single-Core)

Core i7-13620H **+24%**
2494

Core i9-12900H
2397

Core i9 11390H
2009

Ryzen 9 6900HX
2004

Geekbench 6 (Multi-Core)

Core i7-13620H **+20%**
12296

Core i9-12900H
11964

Ryzen 9 6900HX
10271

Core i9 11390H
5711

Figure 6: Details of the Intel Core i7-13620H processor.



Colorful Cinema, Comfortable Viewing

Discover enchanting visuals on the IdeaCentre AIO i's expansive FHD display featuring a smooth refresh rate and lifelike hues. Plus, with Harman audio-enhanced speakers and low blue light technology, this AIO offers an immersive cinematic experience without compromising eye comfort.

Figure 7: The 27-inch FHD display offers comfortable viewing.

Feature	Specification
Brand	Lenovo
Model Name	IdeaCentre AIO 27
Operating System	Windows 11 Pro
Processor	Intel Core i7-13620H (10 Cores, 16 Threads, up to 4.9GHz)
Graphics	Integrated Intel UHD Graphics
Display	27-inch FHD (1920x1080) IPS, 300 nits, Anti-glare, 99% sRGB
Memory	32GB DDR5 RAM (5200 MT/s)
Storage	1TB M.2 PCIe 4.0x4 NVMe SSD
Audio	High Definition (HD) Audio, Realtek ALC233-CG codec, 3W x2 HARMAN speakers
Webcam	5.0MP with Dual Microphones

Feature	Specification
Wireless Connectivity	Wi-Fi 6 (802.11ax 2x2), Bluetooth 5.2
Ports (Rear)	1x USB-A 10Gbps, 2x USB-A 480Mbps, 1x HDMI-in 1.4, 1x HDMI-out 2.1 TMDS, 1x RJ-45, 1x Power Connector
Ports (Left)	1x USB-C 10Gbps (data transfer only), 1x 3.5mm combo audio jack
Security Chip	Firmware TPM 2.0
Power Adapter	90W 89% adapter
Dimensions (W x D x H)	611.72 x 192 x 473.16 mm (24.08 x 7.55 x 18.62 in)
Weight	Around 7.1 kg (15.65 lbs)

9. WARRANTY INFORMATION

Your Lenovo IdeaCentre AIO 27 PC comes with a standard manufacturer's warranty. The specific terms and duration of your warranty may vary by region and purchase agreement. Please refer to the warranty documentation included in your product packaging or visit the official Lenovo support website for detailed information.

Typically, the warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or external factors.

10. SUPPORT AND CONTACT INFORMATION

For technical support, service, or additional information, please contact Lenovo customer support through the following channels:

- **Lenovo Support Website:** Visit support.lenovo.com for drivers, manuals, and troubleshooting guides.
- **Phone Support:** Refer to your warranty card or the Lenovo support website for regional contact numbers.
- **Online Chat:** Available on the Lenovo support website for real-time assistance.

Please have your product's serial number ready when contacting support. The serial number is typically located on a label on the back or bottom of your AIO PC.