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GIGABYTE AORUS 15G YC-8US2450SH

GIGABYTE AORUS 15G YC Gaming Laptop User Manual

Model: AORUS 15G YC-8US2450SH

1. Introduction and Overview

This manual provides essential information for the safe and efficient use of your GIGABYTE AORUS 15G YC Gaming Laptop. Designed for high-performance gaming and demanding tasks, this laptop features an Intel Core i7-10870H processor, NVIDIA GeForce RTX 3080 graphics, a 15.6-inch FHD 240Hz IPS display, 32GB RAM, and a 1TB SSD. Please read this manual thoroughly before operating your device.



Figure 1.1: Front view of the GIGABYTE AORUS 15G YC Gaming Laptop, showcasing its vibrant display and RGB keyboard.

2. What's in the Box

Upon unboxing your GIGABYTE AORUS 15G YC Gaming Laptop, please verify that all the following items are included:

- GIGABYTE AORUS 15G YC Gaming Laptop
- Battery (integrated)
- Power Adapter and Cable

3. Product Features

The AORUS 15G YC is equipped with advanced features to enhance your computing and gaming experience:

- NVIDIA GeForce RTX 3080 Laptop GPU 8 GB GDDR6 with NVIDIA DLSS for AI rendering.
- 10th Gen Intel Core i7-10870H Processor (2.2GHz - 5.0GHz).
- 32 GB DDR4 RAM (expandable up to 64 GB max).
- 1 TB PCIe SSD storage with 2 M.2 SSD slots (Type 2280, supports 1x NVMe PCIe & SATA/ 1x NVMe PCIe).
- 15.6" Thin Bezel FHD 1920x1080 IPS-level Anti-glare Display LCD with 240Hz refresh rate and 72% NTSC.
- X-Rite Pantone Certified Display, individually factory calibrated.
- Connectivity: 1 x USB 3.2 Gen1 (Type-C), 1 x Mini DisplayPort 1.4, 3 x USB 3.2 Gen 1 (Type-A), 1 x HDMI 2.1.
- Additional Ports: 1 x UHS-II SD Card Reader, 1x 3.5mm Audio Combo Jack.
- NAHIMIC 3 Surround Sound for immersive audio.
- WINDFORCE Infinity Next-Gen Cooling System.
- World's First Microsoft Azure AI Notebook for optimized performance.
- Specially Designed Privacy Camera Cover.
- Island-style AORUS Fusion Keyboard with per-key backlit control.



Figure 3.1: Side view illustrating the available ports and connectivity options on the AORUS 15G YC.

4. Setup

4.1 Initial Power-On

1. Connect the power adapter to the laptop's DC-in port and then to a power outlet.
2. Open the laptop lid.
3. Press the power button, typically located above the keyboard, to turn on the laptop.
4. Follow the on-screen instructions to complete the Windows 10 Home setup process.

4.2 Connecting Peripherals

Utilize the various ports on your laptop to connect external devices:

- **USB Devices:** Connect USB mice, keyboards, external drives, or other peripherals to the USB 3.2 Gen 1 (Type-A) or USB 3.2 Gen1 (Type-C) ports.
- **External Displays:** Use the HDMI 2.1 or Mini DisplayPort 1.4 to connect to external monitors or projectors.
- **Network:** Connect to a wired network using the RJ-45 LAN port or to a wireless network via the integrated 802.11ax Wi-Fi.
- **Audio:** Connect headphones or external speakers to the 3.5mm Audio Combo Jack.

5. Operating Instructions

5.1 Basic Operation

- **Keyboard:** The AORUS Fusion Keyboard features per-key RGB backlighting. Customize lighting effects and macros through the pre-installed GIGABYTE Control Center software.
- **Touchpad:** Use the multi-touch touchpad for navigation. Gestures for scrolling, zooming, and switching applications are supported by Windows 10.
- **Display:** The 15.6-inch FHD 240Hz IPS display provides a smooth visual experience. Adjust brightness and display settings via Windows display options or function keys.
- **Webcam:** The integrated webcam includes a privacy cover. Slide the cover to open or close the camera lens for privacy.

5.2 Performance Management

Your AORUS 15G YC laptop utilizes Microsoft Azure AI to optimize performance based on your usage. This system intelligently allocates CPU and GPU resources for optimal efficiency. You can also manually adjust performance profiles through the GIGABYTE Control Center for specific tasks like gaming or content creation.

6. Maintenance

6.1 Cleaning

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used. Ensure no liquid enters the device.
- **Vents:** Periodically clean the cooling vents with compressed air to prevent dust buildup, which can impede airflow and lead to overheating.

6.2 Battery Care

- Avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- For optimal battery longevity, avoid exposing the laptop to extreme temperatures.

6.3 Software Updates

Regularly update your operating system, drivers (especially graphics drivers), and GIGABYTE software to ensure optimal performance, security, and compatibility.

7. Troubleshooting

This section addresses common issues you might encounter with your laptop.

7.1 Power Issues

- **Laptop does not turn on:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Check if the power outlet is functional.
- **Battery not charging:** Verify the power adapter connection. If the issue persists, try a different power outlet.

7.2 Display Issues

- **No display on screen:** Try connecting an external monitor to check if the issue is with the laptop's internal display. Ensure the laptop is powered on.
- **Flickering or distorted display:** Update your graphics drivers. If using an external monitor, check the cable

connection.

7.3 Performance Issues

- **Slow performance:** Close unnecessary applications. Check for background processes consuming high resources. Ensure the cooling vents are clear and the laptop is not overheating.
- **Applications crashing:** Ensure all drivers and the operating system are up to date. Reinstall the problematic application.

For more complex issues, refer to the GIGABYTE support website or contact customer service.

8. Specifications

Detailed technical specifications for the GIGABYTE AORUS 15G YC Gaming Laptop:

Feature	Specification
Model Name	AORUS 15G YC-8US2450SH
Processor	10th Gen Intel Core i7-10870H (2.2GHz - 5.0GHz)
Graphics Coprocessor	NVIDIA GeForce RTX 3080 Laptop GPU 8 GB GDDR6
RAM	32 GB DDR4 (64 GB max)
Memory Speed	2.2 GHz
Hard Drive	1 TB PCIe SSD
Screen Size	15.6 Inches
Screen Resolution	1920 x 1080 pixels (FHD)
Refresh Rate	240Hz
Display Type	IPS-level Anti-glare Display LCD, X-Rite Pantone Certified
Operating System	Windows 10 Home
Wireless Type	802.11ax
USB 3.0 Ports	3 (Type-A)
USB 3.2 Gen1 (Type-C)	1
HDMI Port	1 (HDMI 2.1)
Mini DisplayPort	1 (Mini DisplayPort 1.4)
SD Card Reader	1 (UHS-II)
Audio Jack	1 (3.5mm Audio Combo Jack)
Item Weight	6 pounds
Product Dimensions	9.6 x 14 x 0.9 inches
Color	Black

9. Warranty and Support

Your GIGABYTE AORUS 15G YC Gaming Laptop comes with a standard manufacturer's warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official GIGABYTE website. For technical support, driver downloads, and frequently asked questions, please visit the GIGABYTE support portal.

Online Support: www.gigabyte.com/support

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