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› Thunderobot Radiant 16 Gaming Laptop User Manual

## Thunderobot Radiant 16

# Thunderobot Radiant 16 Gaming Laptop User Manual

Model: Radiant 16

## PRODUCT OVERVIEW

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The Thunderobot Radiant 16 is a high-performance gaming laptop designed for immersive gaming and demanding tasks. It features a 16-inch QHD+ 240Hz display, a 14th Gen Intel Core i7-14650HX processor, and an NVIDIA GeForce RTX 4060 graphics card.



Figure 1: Front view of the Thunderobot Radiant 16 Gaming Laptop, showcasing the display and RGB backlit keyboard.

## PACKAGE CONTENTS

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Upon opening the package, verify that all components are present:

- Thunderobot Radiant 16 Laptop
- AC Power Adapter
- Power Cord
- User Manual (this document)

Note: If any items are missing or damaged, please contact customer support.

## SETUP GUIDE

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### 1. Initial Power On

1. Connect the AC power adapter to the laptop's power input port.
2. Plug the power cord into a grounded electrical outlet.
3. Open the laptop lid.
4. Press the power button, typically located above the keyboard or on the side.

## 2. Operating System Setup

The laptop comes with Windows 11 Home pre-installed. Follow the on-screen prompts to complete the initial setup, which includes:

- Selecting your region and keyboard layout.
- Connecting to a Wi-Fi network (Wi-Fi 6 supported).
- Signing in with a Microsoft account or creating a local account.
- Setting up privacy settings.



Figure 2: Illustration of Wi-Fi 6 connectivity, indicating high-speed wireless capabilities.

## OPERATING INSTRUCTIONS

### Keyboard and Touchpad

The laptop features an RGB backlit keyboard with three zones and an independent numeric keypad. The keys have

1.8mm travel and 0.2T micro arc keycaps for comfortable typing.



Figure 3: Close-up of the full-size keyboard with RGB backlighting and numeric keypad.

## Display Settings

The 16-inch WQXGA (2560 x 1600) display offers a 240Hz refresh rate. You can adjust display settings through Windows Display Settings (Right-click on desktop > Display settings) to optimize resolution, refresh rate, and color profiles.



Figure 4: Visual representation of the 240Hz refresh rate on the laptop display compared to 120Hz.

## Connectivity Ports

The laptop is equipped with various ports for external devices:

- 3 x Superspeed USB Type-A ports
- 1 x Superspeed USB Type-C port
- 1 x HDMI port (HDMI 2.1)
- 1 x RJ-45 Ethernet port
- 1 x Audio Port
- AC Power Supply port

# Direct Heat Dissipation

Direct heat dissipation effectively reduces component temperature.



Figure 5: Diagram illustrating the location and type of connectivity ports on the Thunderobot Radiant 16 laptop.

## Control Center Software

The pre-installed Control Center software allows you to adjust performance modes (Berserk, Game, Audio/Video Office), fan speed, and lighting settings. System mode switching in Control Center requires the device to be connected to a power source.

# Control Center

Control Center allows you to freely adjust and switch between three performance modes.

**Berserk mode**  
Full performance release

**Game mode**  
The speed is smooth  
and smooth online

**Audio and  
video office**  
Powerful battery life

**Fan  
adjustment**  
Fan speed adjustment



Figure 6: Screenshot of the Control Center software interface, showing options for performance modes and fan adjustment.

## MAINTENANCE

### Cleaning the Laptop

- Use a soft, lint-free cloth to clean the screen and exterior surfaces.
- For stubborn marks, dampen the cloth slightly with water or a screen-safe cleaner.
- Avoid spraying liquids directly onto the laptop.
- Use compressed air to clear dust from keyboard keys and ventilation grilles.

### Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- It is recommended to keep the battery charge between 20% and 80% for optimal longevity.

## Cooling System

The Radiant 16 features a direct heat dissipation system with five heat pipes, 0.15T cold wing fins, and three cooling fans to maintain optimal temperatures.



Figure 7: Diagram illustrating the internal cooling components, including heat pipes and fans, for efficient heat dissipation.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Laptop does not power on	No power, discharged battery, faulty power adapter	Ensure power adapter is securely connected. Charge battery for at least 30 minutes. Try a different power outlet.
Screen is blank	Laptop in sleep mode, display cable issue (internal), driver issue	Press any key or move mouse. Check if external monitor works. Reinstall graphics drivers.

Problem	Possible Cause	Solution
Wi-Fi not connecting	Wi-Fi disabled, incorrect password, router issue	Ensure Wi-Fi is enabled in Windows settings. Verify password. Restart router and laptop.
Overheating	Blocked vents, high CPU/GPU usage, dust accumulation	Ensure vents are clear. Use Control Center to adjust fan speed. Clean dust from vents.

## SPECIFICATIONS

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- **Model:** Radiant 16
- **Processor:** Intel Core i7-14650HX (16 Cores, 24 Threads, up to 5.2 GHz)
- **Graphics:** NVIDIA GeForce RTX 4060 (Dedicated)
- **Display:** 16-inch WQXGA (2560 x 1600) 240Hz
- **RAM:** 16GB DDR5 4800 MHz
- **Storage:** 512GB PCIe M.2 SSD
- **Operating System:** Windows 11 Home
- **Wireless:** Wi-Fi 6 (802.11ax), Bluetooth
- **Ports:** 3x USB 3.0 Type-A, 1x USB 3.1 Gen2 Type-C, 1x HDMI 2.1, 1x RJ-45, 1x Audio Port
- **Keyboard:** RGB Backlit, Numeric Keypad
- **Dimensions (LxWxH):** 14.09 x 10 x 0.82 inches
- **Weight:** 12 pounds

## WARRANTY AND SUPPORT

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Every Thunderobot laptop includes a **12-month warranty**, offering expert support, thorough diagnostics, and genuine parts if a repair is needed. We also provide a **90-day warranty** on all warranty replacement parts, ensuring hassle-free repairs. Your complete satisfaction is our commitment.

For technical support or warranty claims, please visit the official Thunderobot support website or contact their customer service. Refer to the contact information provided with your purchase documentation.

For more information, you can visit the [Thunderobot Store on Amazon](#).