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> [Acer Predator Helios Neo 16S Gaming Laptop PHN16S-71-98RF User Manual](#)

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Acer Predator Helios Neo 16S Gaming Laptop User Manual

Model: PHN16S-71-98RF

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Acer Predator Helios Neo 16S AI Gaming Laptop, model PHN16S-71-98RF. This high-performance laptop features an Intel Core Ultra 9 processor, NVIDIA GeForce RTX 5070 Ti graphics, a 16-inch OLED 2.5K 240Hz display, and runs on Windows 11 Pro.



Figure 1: Acer Predator Helios Neo 16S Gaming Laptop, angled view with screen on.

WHAT'S IN THE BOX

Carefully unpack your new laptop and ensure all items are present:

- Acer Predator Helios Neo 16S Gaming Laptop
- AC Power Adapter and Power Cord
- Quick Start Guide (if included)
- Warranty Information (if included)

SETUP

1. Initial Power-On

1. **Connect Power:** Plug the AC adapter into the laptop's power port and then into a wall outlet.
2. **Open Laptop:** Gently open the laptop lid.
3. **Power On:** Press the power button, typically located on the keyboard deck. The laptop will begin its initial boot sequence.

2. Windows 11 Pro Setup

Follow the on-screen instructions to complete the Windows 11 Pro setup process. This includes selecting your region, language, connecting to a network, and creating a user account.

3. Connecting Peripherals

Your laptop offers various ports for connecting external devices:

- **USB-A Ports:** Connect mice, keyboards, external hard drives, and other USB devices. One port supports offline charging.
- **USB-C Ports:** One Thunderbolt 4 port supports display output. Another USB-C port offers full functionality and supports offline charging.
- **HDMI 2.1:** Connect to external monitors or TVs for video and audio output.
- **Ethernet (RJ-45):** For wired network connections.
- **Headphone/Mic Combo Jack:** Connect headphones or a headset.
- **SD 4.0 Card Reader:** Insert SD cards for data transfer.



Figure 2: Side view illustrating the laptop's various connectivity ports.

OPERATING INSTRUCTIONS

1. Keyboard and Touchpad

The laptop features an RGB backlit keyboard. Lighting effects can typically be customized through Acer's pre-installed software (e.g., PredatorSense). Function keys (F1-F12) often have secondary actions when pressed with the 'Fn' key, such as adjusting volume, screen brightness, or toggling Wi-Fi.



Figure 3: RGB Backlit Keyboard layout.

2. Display Features

Your laptop is equipped with a 16-inch OLED 2.5K (2560 x 1600) display with a 240Hz refresh rate. This display offers vibrant colors and smooth motion, ideal for gaming and media consumption. Adjust display settings via Windows Display Settings or NVIDIA Control Panel for optimal performance.



Figure 4: The 16-inch OLED display in action.

3. Graphics Performance

The NVIDIA GeForce RTX 5070 Ti Laptop GPU provides advanced graphics capabilities, including DLSS 4 and ray tracing, enhancing visual fidelity in supported applications and games. Ensure your graphics drivers are updated for the best performance.



Figure 5: Laptop highlighting NVIDIA GeForce RTX 5070 Ti graphics.

4. Cooling System

The laptop utilizes liquid metal thermal compound and 5th Gen AeroBlade 3D fans to manage heat during intensive tasks. Ensure proper airflow by not blocking the vents located on the sides and rear of the laptop.



Figure 6: Internal view of the 5th Gen AeroBlade 3D Fan cooling system.

MAINTENANCE

1. Cleaning

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Do not spray liquid directly onto the screen.
- **Keyboard and Chassis:** Use a soft cloth to wipe surfaces. For dust in crevices, use compressed air.
- **Vents:** Periodically use compressed air to clear dust from the cooling vents to maintain optimal airflow.

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 extreme temperatures.

3. Software Updates

Regularly update your Windows operating system, graphics drivers (NVIDIA), and Acer-specific software (e.g.,

PredatorSense) to ensure system stability, security, and performance.

TROUBLESHOOTING

1. No Power

- Ensure the AC adapter is securely connected to both the laptop and a working power outlet.
- Try a different power outlet.
- Check the power adapter for any visible damage.

2. Display Issues

- If the screen is blank, ensure the laptop is powered on.
- Press **Fn + F6** (or the appropriate function key for display toggle) to ensure the display is not turned off.
- If using an external monitor, ensure the cable is connected correctly and the input source on the monitor is selected.

3. Performance Problems

- Close unnecessary background applications.
- Ensure the laptop's cooling vents are not obstructed.
- Check for and install any pending system or driver updates.
- Run a malware scan.

4. Network Connectivity Issues

- **Wi-Fi:** Ensure Wi-Fi is enabled (check Windows settings or use **Fn + F5**). Restart your router/modem.
- **Wired:** Ensure the Ethernet cable is securely connected to both the laptop and the router/modem.
- Run Windows Network Troubleshooter.

SPECIFICATIONS

Feature	Specification
Model Number	PHN16S-71-98RF
Operating System	Windows 11 Pro
Processor	Intel Core Ultra 9 275HX (24-Cores, up to 5.4 GHz)
Graphics Card	NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)
Display	16-inch OLED 2.5K (2560 x 1600) 240Hz, 500 Nits, 100% sRGB
RAM	32GB DDR5 5600MT/s (expandable up to 64GB)
Storage	1TB SSD PCIe Gen 4 (expandable up to 8TB)

Feature	Specification
Wireless Connectivity	Wi-Fi 6E AX, Bluetooth 5.4
Ports	1x Thunderbolt 4, 1x USB-C (full function), 2x USB-A (1x with offline charging), 1x HDMI 2.1, 1x SD 4.0 card reader, 1x Headphone/mic combo, 1x Ethernet (RJ-45)
Camera	1080P Camera
Dimensions (LxWxH)	14.05 x 0.79 x 10.85 inches
Weight	5.07 pounds
Color	Obsidian Black

WARRANTY INFORMATION

Your Acer Predator Helios Neo 16S Gaming Laptop is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Acer website for detailed terms and conditions, including warranty duration and service procedures. Keep your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical support, or driver downloads, please visit the official Acer support website. You can find FAQs, troubleshooting guides, and contact information for customer service there.

Acer Support Website: www.acer.com/support