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› Acer Predator Helios Neo 16S AI Gaming Laptop Instruction Manual

Acer Helios Neo 16S

Acer Predator Helios Neo 16S AI Gaming Laptop Instruction Manual

INTRODUCTION

Welcome to the world of high-performance gaming with your new Acer Predator Helios Neo 16S AI Gaming Laptop. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device. Designed for gamers and creators, this laptop combines cutting-edge technology with robust features to deliver an immersive experience.



Figure 1: Acer Predator Helios Neo 16S AI Gaming Laptop. This image shows the laptop from a top-down perspective, highlighting its sleek design and the vibrant display.

SETUP

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Ensure the following items are present:

- Acer Predator Helios Neo 16S AI Gaming Laptop
- Charger

Inspect the laptop and accessories for any signs of damage. If any items are missing or damaged, contact your retailer or Acer support immediately.

2. Connecting the Power Adapter

Connect the power adapter to the laptop's power input port, typically located at the rear or side. Plug the other end into a

grounded electrical outlet. It is recommended to fully charge the laptop before its first use.

3. Initial Power-On

Open the laptop lid and press the power button. The laptop will guide you through the initial Windows 11 Home setup process. Follow the on-screen instructions to configure your operating system, network connection, and user accounts.

FEATURES

Display

The Acer Predator Helios Neo 16S features a 16-inch 240Hz 2.5K (2560 x 1600) OLED display. It boasts 100% DCI-P3 color gamut and 500 nits peak brightness, offering vibrant colors and deep blacks. The 16:10 aspect ratio provides more vertical screen space, ideal for both gaming and productivity.



PREDATOR

GAMING LAPTOP

OLED

2.5K

16"

240Hz

2.5K
2560 x 1600

OLED
Display

500 nit
Brightness

16:10
Aspect Ratio

100%
DCI-P3

Figure 2: Detailed view of the laptop's display specifications, emphasizing its high resolution, refresh rate, and color accuracy for an enhanced visual experience.

Processor and AI Capabilities

Powered by the Intel Core Ultra 9 275HX processor, this laptop features 24 cores, 24 threads, and a turbo frequency of up to 5.4 GHz. It includes an Intel AI Boost NPU, capable of processing up to 13 trillion operations per second (TOPS), accelerating AI-based workloads and supporting Copilot in Windows 11.



The graphic features a central image of the Intel Core Ultra 9 275HX processor chip, which is glowing with blue light and set against a dark, circuit-like background. In the top left corner is the Predator logo. Below the chip, the text 'Ultra 9 275HX' is prominently displayed in white, followed by an orange banner that says 'Beat i9-13900H'. To the right of the chip are two logos: 'ADVANCED Ai PC READY' and 'intel CORE ULTRA 9'. At the bottom, a yellow-bordered box contains the following specifications in large yellow numbers: '24 Cores', '24 Threads', '36 MB Cache', '40 MB L3 Cache', and '5.4 GHz Turbo Clock'.

Ultra 9 275HX

Beat i9-13900H

ADVANCED Ai PC READY

intel CORE ULTRA 9

24 Cores **24 Threads** **36 MB Cache** **40 MB L3 Cache** **5.4 GHz Turbo Clock**

Figure 3: Visual representation of the Intel Core Ultra 9 275HX processor, detailing its core count, cache, and clock speed, alongside AI readiness indicators.

Graphics

Equipped with the NVIDIA GeForce RTX 5060 graphics card with 8GB GDDR7 VRAM, the laptop delivers up to 35% faster performance and 20% lower power consumption compared to previous generations. It supports AI-enhanced DLSS 4 with Multi Frame Generation for smoother 1440p gaming and efficient content creation.

BUILT FOR GAMERS

The image shows a Predator laptop with a vibrant game scene on its screen. To the left, a comparison of RTX 5060 performance is shown in a 2x2 grid. The top row shows a game scene with a play button icon in the center. The left panel is labeled 'RTX OFF' and shows a latency of 64 ms. The right panel is labeled 'RTX ON' and shows a latency of 16 ms. The bottom row shows a game scene with a play button icon in the center. The left panel is labeled 'RTX OFF' and shows a latency of 64 ms. The right panel is labeled 'RTX ON' and shows a latency of 16 ms. Below the grid, text describes the RTX 5060's performance improvements. To the right of the laptop, a list of features is shown with checkmarks.

64 ms
PC Latency
Reflex Off

16 ms
PC Latency
Reflex 2 On

RTX OFF

RTX ON

RTX OFF

RTX ON

GEFORCE RTX 5060

8GB GDDR7 GPU

35% faster performance

20% lower power consumption

RTX 5060, fully upgraded — up to 35% faster performance, 20% lower power consumption, and enhanced AI acceleration. Now with DLSS 4, for smoother gaming and more efficient creation!

Figure 4: Graphics performance comparison and features of the NVIDIA GeForce RTX 5060, highlighting its capabilities for gaming and creative tasks.

Memory and Storage

The laptop comes with 16GB of DDR5 RAM and a 1TB PCIe SSD, providing fast loading times and ample space for games, applications, and files.

Cooling System

To maintain optimal performance during intense gaming sessions, the Predator Helios Neo 16S features an advanced cooling system with 5th Gen AeroBlade 3D cooling, liquid metal grease, and precision-engineered airflow.

Keyboard and Audio

Experience responsive input with the 4-Zone RGB Backlit Keyboard. Audio is enhanced with DTS X Ultra Audio for an immersive sound experience.

Connectivity and Ports

Stay connected with Wi-Fi 6E and Bluetooth 5.4. The laptop offers a comprehensive selection of ports:

- 3x USB-A 3.2
- 1x USB-C 3.2
- 1x Thunderbolt 4
- 1x MicroSD Card Reader
- 1x Audio Jack
- 1x HDMI 2.1
- 1x Ethernet
- 1x Power Input



The advertisement features a central image of the Predator Helios Neo Gaming Laptop with its backlit keyboard. The laptop is dark grey with a glowing green Predator logo on the lid. The background is black with green splatter effects. The text 'HELIOS NEO' is in large, glowing green letters, and 'Gaming Laptop' is in white. To the left of the laptop, there are four feature sections: 'Liquid Metal Cooling' with '5th Gen AeroBlade 3D cooling system', 'AI & VR Ready' with 'AI laptop w/ NPU VR Ready', 'GeForce RTX 5060' with '8GB GDDR7' and '35% faster performance', and 'Copilot+ PC' with 'Do more with AI as your personal assistant'. At the bottom, there are icons for Copilot, NPU, dts X, NVIDIA GeForce RTX 5060, 1080p Webcam, Backlit keyboard, Wi-Fi 6E Wireless, and Thunderbolt 4. A Windows 11 logo is on the bottom left, and a yellow bar on the bottom right contains the text '16GB DDR5 RAM | 1TB SSD'. Three green plus signs are on the right side of the laptop.

PREDATOR

HELIOS NEO

Gaming Laptop

Liquid Metal Cooling
5th Gen AeroBlade
3D cooling system

AI & VR Ready
AI laptop w/ NPU
VR Ready

GeForce RTX 5060
8GB GDDR7
35% faster performance

Copilot+ PC
Do more with AI as your
personal assistant

Copilot

NPU

dts X

NVIDIA

GEFORCE RTX 5060

1080p Webcam

Backlit keyboard

Wi-Fi 6E Wireless

Thunderbolt 4

Windows 11

16GB DDR5 RAM | 1TB SSD

Figure 5: An overview of the laptop's key features including cooling, AI capabilities, graphics, webcam, keyboard, and connectivity options.

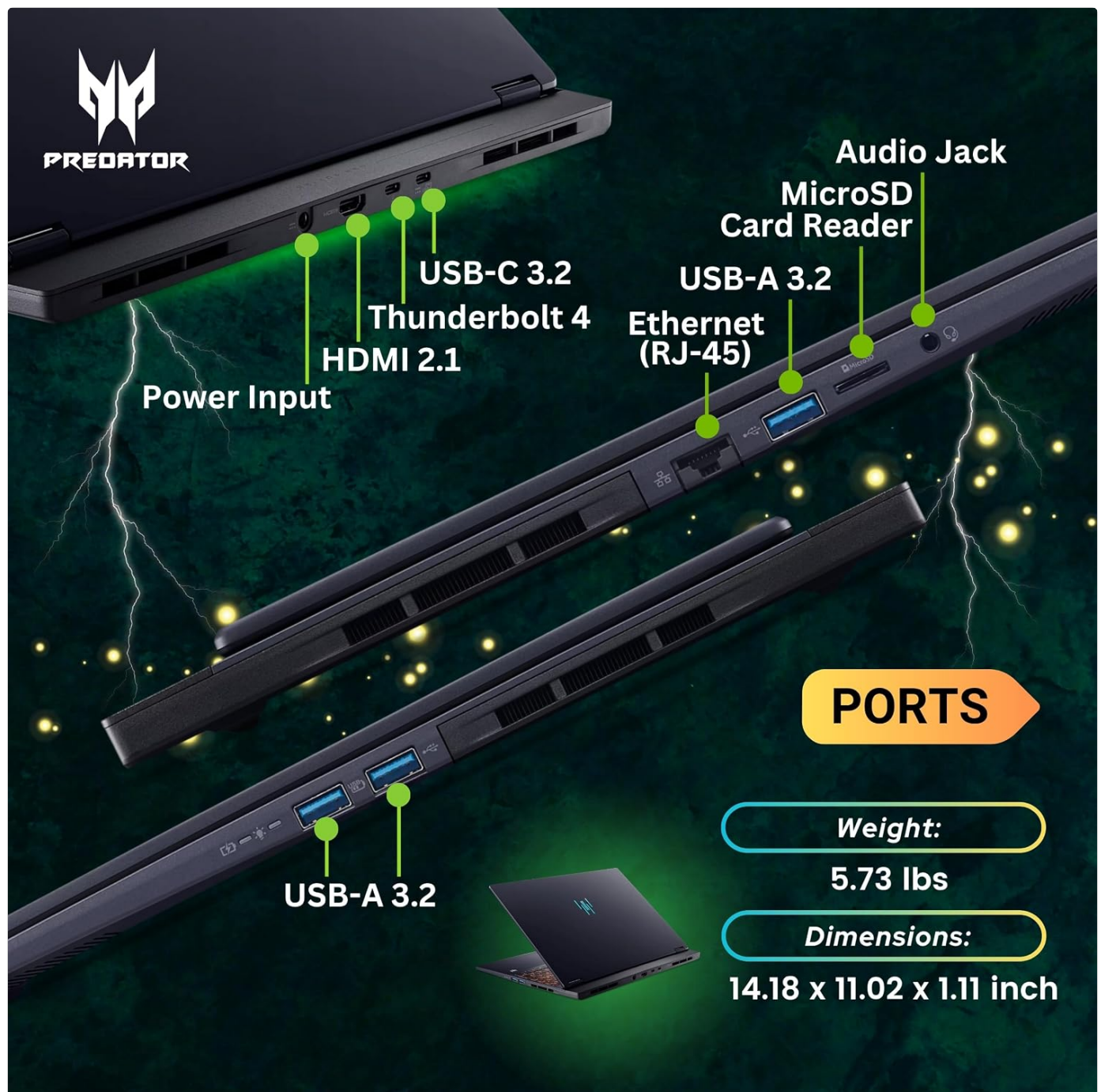


Figure 6: Detailed illustration of the laptop's various ports and their locations, along with its physical dimensions and weight.

OPERATING INSTRUCTIONS

1. Powering On/Off

To power on, press the power button located on the keyboard deck. To power off, click the Start menu, then Power, and select 'Shut down'.

2. Using the Keyboard and Touchpad

The 4-Zone RGB Backlit Keyboard can be customized for lighting effects. The touchpad supports multi-touch gestures for navigation. Refer to Windows 11 settings for touchpad customization.

3. Connecting External Devices

Utilize the available USB-A, USB-C, and Thunderbolt 4 ports to connect external storage, displays, or other peripherals. The HDMI 2.1 port supports external monitors for extended display setups.

4. Managing Performance with PredatorSense

The PredatorSense software allows you to monitor system performance, customize RGB lighting, and switch between different performance modes (e.g., Quiet, Balanced, Performance, Turbo) to optimize for your current task. Access PredatorSense via the dedicated Predator key on the keyboard.

MAINTENANCE

1. Cleaning the Laptop

Regularly clean the screen with a soft, lint-free cloth and a screen-safe cleaning solution. Use compressed air to clear dust from the cooling vents to ensure optimal airflow and prevent overheating.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the laptop in a cool, dry place when not in use for extended periods.

3. Software Updates

Keep your Windows operating system, drivers, and PredatorSense software updated to ensure stability, security, and optimal performance.

TROUBLESHOOTING

Common Issues and Solutions

- **Laptop not powering on:** Ensure the power adapter is securely connected and the battery has sufficient charge.
- **Overheating/Loud Fans:** Clean cooling vents. Use PredatorSense to adjust fan speed or switch to a balanced performance mode. Ensure the laptop is on a hard, flat surface to allow proper airflow.
- **Display Issues:** Check external display connections if applicable. Update graphics drivers.
- **Performance Lag:** Close unnecessary applications. Adjust performance settings in PredatorSense. Ensure sufficient free storage space.

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

SPECIFICATIONS

Component	Specification
Model Name	Helios Neo 16S
Processor	Intel Core Ultra 9 275HX (24 Cores, up to 5.4 GHz)
Graphics	NVIDIA GeForce RTX 5060 (8GB GDDR7 VRAM)
RAM	16GB DDR5
Storage	1TB PCIe SSD
Display	16" 2.5K (2560 x 1600) OLED, 240Hz, 500 nits, 100% DCI-P3

Operating System	Windows 11 Home
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.4
Ports	3x USB-A 3.2, 1x USB-C 3.2, 1x Thunderbolt 4, 1x MicroSD, 1x Audio Jack, 1x HDMI 2.1, 1x Ethernet, 1x Power Input
Webcam	1080P FHD Camera
Audio	DTS X Ultra Audio
Dimensions (LxWxH)	14.07 x 10.85 x 0.79 inches
Weight	5.07 pounds

WHAT'S IN THE BOX

Your Acer Predator Helios Neo 16S AI Gaming Laptop package includes:

- Acer Predator Helios Neo 16S AI Gaming Laptop
- Charger

WARRANTY AND SUPPORT

Your Acer Predator Helios Neo 16S AI Gaming Laptop comes with a standard manufacturer's warranty. For detailed information regarding warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Acer support website. Extended protection plans are available for purchase:

- 2-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly billing option)

For technical assistance, driver downloads, or service requests, please visit the Acer support website or contact their customer service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question