

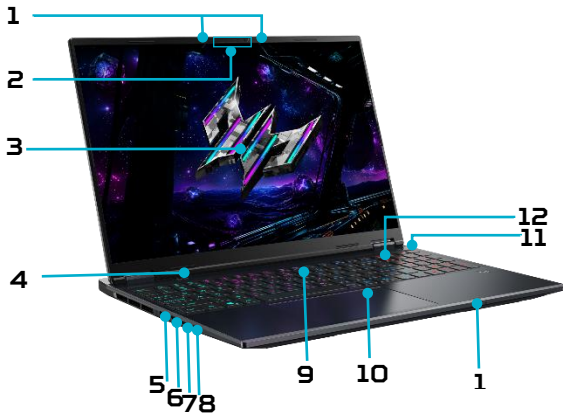


PREDATOR HELIOS NEO 16S AI

SPECIFICATIONS

PREDATOR HELIOS NEO 16S AI

PHN16S-71



Product views	1. Microphones 2. IR Webcam 3. 16.0" display 4. Mode key 5. Ethernet (RJ-45) port 6. USB 3.2 Gen 1 port 7. MicroSD card reader 8. Headset/speaker jack 9. Keyboard 10. Touchpad 11. Power button 12. PredatorSense key 13. Battery indicator 14. Power indicator 15. USB 3.2 Gen 2 port with power-off charging 16. USB 3.2 Gen 2 port 17. Power connector (DC-in) 18. HDMI™ 2.1 port 19. USB Type-C™ ports (Thunderbolt™ 4) 20. USB Type-C port with DC-in
Operating system¹	Windows 11 Home
CPU and chipset¹	Intel® Core™ Ultra 9 processor
Memory^{1, 2, 3}	Dual-channel DDR5 SDRAM support ● 16GB + 16GB Upgradable to 64 GB of DDR5 system memory using two soDIMM modules Memory Frequency: Up to 6400 MT/s
Display⁴	16.0" display with OLED (Organic Light-Emitting Diode) technology, WQXGA 2560 x 1600, high-brightness (400 nits, typical value) Acer CineCrystal™ ● 16:10 aspect ratio, color gamut DCI-P3 100%(Typical value), support 240Hz, certified by True Black HDR 500(@HDR 500, brightness reach 500 nits), Nvidia Advanced Optimus capable. ● Wide viewing angle up to 178 degrees ● Mercury free, environment friendly
Graphics¹	● NVIDIA® GeForce RTX™ 5070 Ti with 12 GB of dedicated GDDR7 VRAM
Audio	● DTS® X/Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes via smart amplifier ● Supported in Windows Spatial Sound for PC Gaming with DTS Sound Unbound license integrated ● Immersive audio rendering over headphones and internal speakers ● High SNR DAC with 2.1 Vrms out capability and can driver high impedance headphone (up to 600 ohm) ● Acer PurifiedVoice technology with AI noise reduction in 3 mics array built-in microphones to support Advanced Privacy Mode. Features include far-field pickup, dynamic noise reduction through neural network, adaptive beam forming, and pre-defined personal and conference call modes. ● Compatible with Cortana with Voice ● Acer TrueHarmony Technology for lower distortion, wider frequency range, headphone-like audio and powerful sound ● Hi-Res Audio Certification by JAS (Headphone Output setting supported up to 24bit /192KHz)
Storage^{1, 5}	Solid state drive: ● 1 TB, PCIe Gen4, 16 GB/s, NVMe
Webcam¹	UFC with ● Narrow USB FHD camera+IR camera with blue glass ● Compatible with Windows only ● 1920 x 1080 resolution ● 1080p HD video at 60 fps with Temporal Noise Reduction ● Blue Glass lens ● Staggered High Dynamic Range (SHDR) ● Dual Mic (33 mm + 33 mm) ● 88 x 3.2 x 2.6 mm
Wireless and networking¹	WLAN ● Killer Wireless Wi-Fi 6E 1675i ● 802.11 a/b/g/n/ac/ax wireless LAN ● Band: 2.4 GHz, 5 GHz and 6 GHz ● 2x2 MU-MIMO technology ● Support CNVi interface LAN ● Killer™ Ethernet E3100G ● 2.5G Ethernet ● Killer Control Center ● Lag and Latency Reduction™ Technology ● Advanced Stream Detect™2.0 WPAN ● Killer DoubleShot™ Pro enabled ● GameFast™ Technology ● Supports Bluetooth® 5.4 or above ● Supports Bluetooth LE Audio (LC3).
Security	Firmware Trusted Platform Module (TPM) solution BIOS user, supervisor Kensington lock slot
Dimensions and weight^{6, 7}	Dimensions: 356.78 (W) x 275.5 (D) x 12/19.97 (H) mm (14.05 x 10.85 x 0.47/0.79 inches) with RTX 5070 Ti Weight: ● 2.3 kg (5.07 lbs.) with 4-cell battery pack
Power adapter and battery^{8, 9}	Power adapter: ● 3-pin 230 W 5.5 PHY PCR 50% AC adapter Battery: 76 Wh 4-cell Li-ion battery ● For models with OLED Battery life: Up to 5 hours (based on video playback test results)
Input and control	Keyboard: 103(US)/104(UK)-key, FineTip RGB-backlight keyboard with independent standard numeric keypad, international language support Touchpad: Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands ● Microsoft Precision Touchpad certification ● Moisture resistant Control Keys Predator Sense Key Copilot Key
Windows Desktop Apps¹⁰	● Planet9 Stub (For Gaming) ● PredatorSense ● Acer QuickPanel
Warranty	3 years warranty

- Specifications vary depending on model.
- Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment.
- Memory speed may vary, depending on the CPU, chipset or memory fitted.
- All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.
- 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.
- Minor variations in system dimensions are possible due to the manufacturing process.
- Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
- Listed battery life is based on testing using video playback. The test clip loops and continues to run, without interruption or any other inputs, until the battery is drained. Stated battery life is for comparison purpose only. Actual battery life varies by model, configuration, applications, video chip format and features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: 14th Gen Intel® Core™ i9, NVIDIA® GeForce RTX™ 4070, WQXGA, Dual SSD, 64GB of DDR5 memory. Battery life test condition: LCD brightness 150 nits, connected headphones, WLAN off, Bluetooth off and Better Battery Mode on.
- Actual battery life may vary considerably by specifications, depending on product model, configuration, applications, power management settings, operating conditions, and features utilized. Performance variation also arises based on components in use, which includes but is not limited to the processor, RAM capacity, storage, display and resolution, etc.
- Bundled software may vary depending on hardware configuration, OS and regional availability.

Note: This specification is based on Predator PHN16S-71 Specifications [v2-0-2]

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region. As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by Acer's warranty.

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