



## Acer Predator Helios Neo 16 AI PHN16-73 - Intel Core Ultra 7 255HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 5070, 16"WQXGA, Windows 11 Gaming Laptop

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.QX3EK.002

**Product name :** Acer Predator Helios Neo 16 AI PHN16-73 - Intel Core Ultra 7 255HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 5070, 16"WQXGA, Windows 11 Gaming Laptop

- Intel Core Ultra 7 255HX Processor
  - 16GB DDR5 Memory
  - 1TB SSD Storage
  - 16" WQXGA Display
  - NVIDIA GeForce RTX 5070 Graphics Card
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The Predator Helios Neo 16 AI is crafted for game enthusiasts who demand top-tier performance, stunning graphics, and smooth frame rates, all while balancing power and portability. Equipped with an Intel Core Ultra 7 processor, an NVIDIA GeForce RTX 5070 laptop GPU, and a 16" WQXGA display with a 240Hz refresh rate and 1ms response time, it redefines gaming with exceptional performance fueled by AI technology.



Design		Camera	
Product type *	Laptop	Front camera HD type	Full HD
Product colour *	Black	Infrared (IR) camera	✓
Form factor *	Clamshell	<b>Network</b>	
Market positioning	Gaming	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display		Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
Display diagonal *	40.6 cm (16")	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
Display resolution *	2560 x 1600 pixels	Bluetooth	✓
Touchscreen *	✗	Bluetooth version	5.4
HD type	WQXGA	MIMO	✓
Panel type	IPS	MIMO type	Multi User MIMO
LED backlight	✓	Ports & interfaces	
Native aspect ratio	16:10	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Display surface	Matt	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Display brightness	500 cd/m <sup>2</sup>	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
RGB colour space	DCI-P3	Ethernet LAN (RJ-45) ports	1
Colour gamut	100%	HDMI ports quantity *	1
Maximum refresh rate	240 Hz	HDMI version	2.1
Processor		Combo headphone/mic port	✓
Processor manufacturer *	Intel	Keyboard	
Processor family *	Intel Core Ultra 7	Pointing device	Touchpad
Processor model *	255HX	Numeric keypad *	✓
Processor cores	20	Keyboard backlit	✓
Processor threads	20	Keyboard backlit colour	RGB
Processor boost frequency	5.2 GHz		
Processor frequency *	2.4 GHz		
Processor cache	30 MB		
Processor cache type	Smart Cache		

Neural processor unit (NPU)		Keyboard	
Neural processor unit (NPU)	Intel AI Boost	Keyboard backlit zone	4-zone RGB
NPU performance up to	13 TOPs	Copilot key	✓
Memory		Software	
Internal memory *	16 GB	Operating system installed *	Windows 11 Home
Internal memory type	DDR5-SDRAM	Battery	
Storage		Battery technology	Lithium-Ion (Li-Ion)
Total storage capacity *	1 TB	Number of battery cells	4
Storage media *	SSD	Battery capacity *	90 Wh
SSD interface	PCI Express 4.0	Battery life (max)	8 h
NVMe	✓	Power	
SSD form factor	M.2	AC adapter power	230 W
Graphics		Security	
Discrete GPU manufacturer	NVIDIA	Cable lock slot	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5070	Cable lock slot type	Kensington
Discrete graphics card memory	8 GB	Trusted Platform Module (TPM)	✓
Discrete graphics memory type	GDDR7	Password protection	✓
Discrete graphics card *	✓	Password protection type	BIOS, Supervisor, User
NVIDIA G-SYNC	✓	Weight & dimensions	
CUDA	✓	Width	356.8 mm
CUDA cores	4608	Depth	275.5 mm
Audio		Height	23.9 mm
Audio system	DTS:X Ultra	Weight *	2.7 kg
Number of built-in speakers	2	Packaging data	
Built-in microphone	✓	Package width	548 mm
Camera		Package depth	346 mm
Front camera	✓	Package height	80 mm
Front camera resolution	1920 x 1080 pixels	Package weight	4.94 kg
Packaging content			
Mouse included			✗
AC adapter included *			✓



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