



## Acer Predator Helios Neo 16 AI (PHN16-73) Intel Ultra 9, 32GB, 1TB SSD, RTX5070Ti, 16" WQXGA, Windows 11 Gaming Laptop

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.QX2EK.001

**Product name :** Predator Helios Neo 16 AI (PHN16-73) Intel Ultra 9, 32GB, 1TB SSD, RTX5070Ti, 16" WQXGA, Windows 11 Gaming Laptop

- Windows 11 Home
- Intel Core Ultra 9 275HX (36MB Cache)
- 40.6 cm (16") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)
- 32GB (6400MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD

Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS, Intel Graphics, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home

Acer Predator Helios Neo 16 AI (PHN16-73) Intel Ultra 9, 32GB, 1TB SSD, RTX5070Ti, 16" WQXGA, Windows 11 Gaming Laptop. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5070 Ti. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Product type *	Laptop	Discrete graphics memory type	GDDR7
Product colour *	Black	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Market positioning	Gaming	Discrete graphics card *	✓
Display		On-board graphics card family	Intel Graphics
Display diagonal *	40.6 cm (16")	On-board graphics card model *	Intel Graphics
Display resolution *	2560 x 1600 pixels	Audio	
Touchscreen *	✗	Number of built-in speakers	2
HD type	WQXGA	Built-in microphone	✓
Panel type	IPS	Number of microphones	3
Display technology marketing name	ComfyView	Camera	
Native aspect ratio	16:10	Front camera	✓
Display surface	Matt	Front camera resolution	1920 x 1080 pixels
Display brightness	500 cd/m <sup>2</sup>	Front camera HD type	Full HD
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Network	
Maximum refresh rate	240 Hz	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor		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)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 9	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
Processor generation	Intel Core Ultra (Series 2)	Antenna type	2x2
Processor model *	275HX	WLAN controller model	Killer Wi-Fi 6E 1675i
Processor cores	24	WLAN controller manufacturer	Killer
Processor threads	24	Ethernet LAN	✓
Processor boost frequency	5.4 GHz	Ethernet LAN data rates	5000 Mbit/s
Performance cores	8		
Efficient cores	16		

Processor		Network	
Performance-core Max Turbo Frequency	5.4 GHz	Bluetooth	✓
Efficient-core Max Turbo Frequency	4.6 GHz	Bluetooth version	5.4
Performance-core base frequency	2.7 GHz	Ports & interfaces	
Efficient-core base frequency	2.1 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor cache	36 MB	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor base power	55 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Maximum turbo power	160 W	Ethernet LAN (RJ-45) ports	1
Neural processor unit (NPU)		HDMI ports quantity *	1
Neural processor unit (NPU)	Intel AI Boost	Combo headphone/mic port	✓
Sparsity support	✓	Keyboard	
Windows Studio effects support	✓	Pointing device	Touchpad
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Numeric keypad *	✓
Total processor performance up to	36 TOPs	Keyboard backlit	✓
NPU performance up to	13 TOPs	Keyboard backlit colour	RGB
GPU performance up to	8 TOPs	Keyboard backlit zone	4-zone RGB
Memory		Keyboard layout	QWERTY
Internal memory *	32 GB	Copilot key	✓
Internal memory type	DDR5-SDRAM	Software	
Memory clock speed	6400 MHz	Operating system installed *	Windows 11 Home
Memory layout (slots x size)	2 x 16 GB	Battery	
Maximum internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Storage		Battery capacity *	90 Wh
Total storage capacity *	1 TB	Battery life (max)	5 h
Storage media *	SSD	Power	
Total SSDs capacity	1 TB	AC adapter power	330 W
Number of SSDs installed	1	USB Type-C charging port *	✓
SSD capacity	1 TB	Security	
SSD interface	PCI Express 4.0	Cable lock slot	✓
NVMe	✓	Cable lock slot type	Kensington
SSD form factor	M.2	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Weight & dimensions	
Card reader integrated	✓	Width	356.8 mm
Compatible memory cards	MicroSD (TransFlash)	Depth	275.5 mm
Graphics		Height	26.8 mm
Discrete GPU manufacturer	NVIDIA	Weight *	2.7 kg
Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti	Packaging data	
Discrete graphics card memory	12 GB	Package width	548 mm
		Package depth	80 mm
		Package height	346 mm
		Package weight	4.67 kg
		Packaging content	
		AC adapter included *	✓



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Publication date: 02-APR-2025. Prints or copies of Information are only valid on the printed Publication date