



## Acer Predator Helios 18 AI (PH18-73) Intel Ultra 9 275HX, 64GB, 1TB SSD, RTX5090, 18" WQUXGA, Windows 11 Gaming Laptop

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.QVWEK.005

**Product name :** Predator Helios  
18 AI (PH18-73) Intel Ultra 9  
275HX, 64GB, 1TB SSD,  
RTX5090, 18" WQUXGA,  
Windows 11 Gaming Laptop



- Windows 11 Home  
- Intel Core Ultra 9 275HX (36MB Cache)  
- 45.7 cm (18") WQUXGA 3840 x 2400 IPS, NVIDIA GeForce RTX 5090 (24GB GDDR7)  
- 64GB (4000MHz) DDR5-SDRAM (2 x 32) & 1000GB SSD  
Intel Core Ultra 9 275HX (36MB Cache), 64GB DDR5-SDRAM, 1000GB SSD, 45.7 cm (18") WQUXGA 3840 x 2400 IPS, Intel Graphics, NVIDIA GeForce RTX 5090 (24GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home  
Acer Predator Helios 18 AI (PH18-73) Intel Ultra 9 275HX, 64GB, 1TB SSD, RTX5090, 18" WQUXGA, Windows 11 Gaming Laptop. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 45.7 cm (18"), HD type: WQUXGA, Display resolution: 3840 x 2400 pixels. Internal memory: 64 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 5090. 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 *	45.7 cm (18")	On-board graphics card model *	Intel Graphics
Display resolution *	3840 x 2400 pixels	Audio	
Touchscreen *	✗	Number of built-in speakers	6
HD type	WQUXGA	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	1000 cd/m²	Front camera HD type	Full HD
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Network	
Maximum refresh rate	120 Hz	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
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), Wi-Fi 7 (802.11be)
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)	WLAN controller model	Killer Wi-Fi 7 1750x
Processor model *	275HX	WLAN controller manufacturer	Killer
Processor cores	24	Ethernet LAN	✓
Processor threads	24	Ethernet LAN data rates	5000 Mbit/s
Processor boost frequency	5.4 GHz		
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	MIMO type	Multi User MIMO
Efficient-core base frequency	2.1 GHz	Ports & interfaces	
Processor cache	36 MB	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor base power	55 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Maximum turbo power	160 W	USB 3.2 Gen 2x2 Type-C ports quantity	2
Neural processor unit (NPU)		Ethernet LAN (RJ-45) ports	1
Neural processor unit (NPU)	Intel AI Boost	HDMI ports quantity *	1
Sparsity support	✓	HDMI version	2.1
Windows Studio effects support	✓	Combo headphone/mic port	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard	
Total processor performance up to	36 TOPs	Pointing device	Touchpad
NPU performance up to	13 TOPs	Numeric keypad *	✓
GPU performance up to	8 TOPs	Keyboard backlit	✓
Memory		Keyboard backlit colour	RGB
Internal memory *	64 GB	Keyboard backlit zone	Per-key RGB
Internal memory type	DDR5-SDRAM	Keyboard layout	QWERTY
Memory clock speed	4000 MHz	Copilot key	✓
Memory layout (slots x size)	2 x 32 GB	Software	
Maximum internal memory *	192 GB	Operating system installed *	Windows 11 Home
Storage		Battery	
Total storage capacity *	1 TB	Battery technology	Lithium-Ion (Li-Ion)
Storage media *	SSD	Number of battery cells	4
Total SSDs capacity	1 TB	Battery capacity *	99 Wh
Number of SSDs installed	1	Power	
SSD capacity	1 TB	AC adapter power	400 W
SSD interface	PCI Express 5.0	USB Type-C charging port *	✓
NVMe	✓	Security	
SSD form factor	M.2	Cable lock slot	✓
Optical drive type *	✗	Cable lock slot type	Kensington
Card reader integrated	✓	Trusted Platform Module (TPM)	✓
Compatible memory cards	SD	Password protection	✓
Graphics		Password protection type	BIOS, Supervisor, User
Discrete GPU manufacturer	NVIDIA	Weight & dimensions	
Discrete graphics card model *	NVIDIA GeForce RTX 5090	Width	401 mm
Discrete graphics card memory	24 GB	Depth	307.9 mm
		Height	29.6 mm
		Weight *	3.5 kg
		Packaging data	
		Package width	597 mm
		Package depth	79 mm
		Package height	425 mm
		Package weight	6.81 kg
		Packaging content	
		AC adapter included *	✓



4711474480675

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

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