



Acer Predator Helios 16 AI (PH16-73) Intel Ultra 9, 64GB, 1TB SSD, RTX5090, 16" WQXGA, Windows 11 Gaming Laptop

Brand : Acer

Product family: Predator

Product code: NH.QW0EK.001

Product name : Predator Helios
16 AI (PH16-73) Intel Ultra 9,
64GB, 1TB SSD, RTX5090, 16"
WQXGA, Windows 11 Gaming
Laptop



- Windows 11 Home
- Intel Core Ultra 9 275HX (36MB Cache)
- 40.6 cm (16") WQXGA 2560 x 1600 OLED, NVIDIA GeForce RTX 5090 (24GB GDDR7)
- 64GB DDR5-SDRAM (2 x 32) & 1000GB SSD

Intel Core Ultra 9 275HX (36MB Cache), 64GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 OLED, Intel Graphics, NVIDIA GeForce RTX 5090 (24GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home

Acer Predator Helios 16 AI (PH16-73) Intel Ultra 9, 64GB, 1TB SSD, RTX5090, 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: 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	On-board graphics card *	✓
Product colour *	Black	On-board GPU manufacturer	Intel
Form factor *	Clamshell	Discrete graphics card *	✓
Market positioning	Gaming	On-board graphics card family	Intel Graphics
Display		On-board graphics card model *	Intel Graphics
Display diagonal *	40.6 cm (16")	NVIDIA G-SYNC	✓
Display resolution *	2560 x 1600 pixels	Audio	
Touchscreen *	✗	Number of built-in speakers	4
HD type	WQXGA	Built-in microphone	✓
Panel type	OLED	Number of microphones	3
Display technology marketing name	CineCrystal	Camera	
Native aspect ratio	16:10	Front camera	✓
Display surface	Gloss	Front camera resolution	1920 x 1080 pixels
Display brightness	400 cd/m²	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 7 (802.11be)
Processor		Wi-Fi standards	
Processor manufacturer *	Intel	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 family *	Intel Core Ultra 9	Mobile network connection *	
Processor generation	Intel Core Ultra (Series 2)	✗	
Processor model *	275HX	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
Processor cores	24	Antenna type	2x2
Processor threads	24	WLAN controller model	Killer Wi-Fi 7 1750x
Processor boost frequency	5.4 GHz	WLAN controller manufacturer	Killer
Performance cores	8	Ethernet LAN	✓
Efficient cores	16		

Processor		Network	
Performance-core Max Turbo Frequency	5.4 GHz	Ethernet LAN data rates	5000 Mbit/s
Efficient-core Max Turbo Frequency	4.6 GHz	Bluetooth	✓
Performance-core base frequency	2.7 GHz	Bluetooth version	5.4
Efficient-core base frequency	2.1 GHz	MIMO	✓
Processor cache	36 MB	Ports & interfaces	
Processor base power	55 W	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Maximum turbo power	160 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-A 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	✓	Thunderbolt 5 ports quantity	2
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Intel® Thunderbolt 5	✓
Total processor performance up to	36 TOPs	Combo headphone/mic port	✓
NPU performance up to	13 TOPs	Keyboard	
GPU performance up to	8 TOPs	Pointing device	Touchpad
Memory		Numeric keypad *	✓
Internal memory *	64 GB	Keyboard backlit	✓
Internal memory type	DDR5-SDRAM	Keyboard backlit colour	RGB
Memory layout (slots x size)	2 x 32 GB	Keyboard backlit zone	Per-key RGB
Maximum internal memory *	64 GB	Copilot key	✓
Storage		Software	
Total storage capacity *	1 TB	Operating system installed *	Windows 11 Home
Storage media *	SSD	Battery	
Total SSDs capacity	1 TB	Battery technology	Lithium-Ion (Li-Ion)
Number of SSDs installed	1	Number of battery cells	4
SSD capacity	1 TB	Battery capacity *	90 Wh
SSD interface	PCI Express 5.0	Power	
NVMe	✓	AC adapter power	330 W
SSD form factor	M.2	USB Type-C charging port *	✓
Optical drive type *	✗	Security	
Card reader integrated	✓	Cable lock slot	✓
Compatible memory cards	MicroSD (TransFlash)	Cable lock slot type	Kensington
Graphics		Trusted Platform Module (TPM)	✓
Discrete GPU manufacturer	Intel	Password protection	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5090	Password protection type	BIOS, Supervisor, User
Discrete graphics card memory	24 GB	Weight & dimensions	
Discrete graphics memory type	GDDR7	Width	356.8 mm
		Depth	279.6 mm
		Height	27.8 mm
		Weight *	2.65 kg
		Packaging data	
		Package width	551 mm
		Package depth	97 mm
		Package height	392 mm
		Package weight	5.88 kg
		Packaging content	
		AC adapter included *	✓



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