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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

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming

Display

Display diagonal *	45.7 cm (18")
Display resolution *	3840 x 2400 pixels
Touchscreen *	✘
HD type	WQUXGA
Panel type	IPS
Display technology marketing name	ComfyView
Native aspect ratio	16:10
Display surface	Matt
Display brightness	1000 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	120 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor generation	Intel Core Ultra (Series 2)
Processor model *	275HX
Processor cores	24
Processor threads	24
Processor boost frequency	5.4 GHz
Performance cores	8
Efficient cores	16

Graphics

Discrete graphics memory type	GDDR7
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Graphics
On-board graphics card model *	Intel Graphics

Audio

Number of built-in speakers	6
Built-in microphone	✔
Number of microphones	3

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
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)
Mobile network connection *	✘
Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
WLAN controller model	Killer Wi-Fi 7 1750x
WLAN controller manufacturer	Killer
Ethernet LAN	✔
Ethernet LAN data rates	5000 Mbit/s

Processor

Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.6 GHz
Performance-core base frequency	2.7 GHz
Efficient-core base frequency	2.1 GHz
Processor cache	36 MB
Processor base power	55 W
Maximum turbo power	160 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Sparsity support	✔
Windows Studio effects support	✔
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN
Total processor performance up to	36 TOPs
NPU performance up to	13 TOPs
GPU performance up to	8 TOPs

Memory

Internal memory *	64 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4000 MHz
Memory layout (slots x size)	2 x 32 GB
Maximum internal memory *	192 GB

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 5.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 5090
Discrete graphics card memory	24 GB

Network

Bluetooth	✔
Bluetooth version	5.4
MIMO type	Multi User MIMO

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
USB 3.2 Gen 2x2 Type-C ports quantity	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	Per-key RGB
Keyboard layout	QWERTY
Copilot key	✔

Software

Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	99 Wh

Power

AC adapter power	400 W
USB Type-C charging port *	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, Supervisor, User

Weight & dimensions

Width	401 mm
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 *	✔

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