



## Acer Predator Helios Neo 18 PHN18-71 Gaming Laptop - Intel Core i7-14700HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 4070 8G, 18"WQXGA 165Hz, Windows 11, Black

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.QNQEK.002

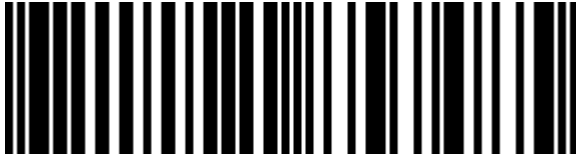
**Product name :** Acer Predator Helios Neo 18 PHN18-71 Gaming Laptop - Intel Core i7-14700HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 4070 8G, 18"WQXGA 165Hz, Windows 11, Black



Acer Predator Helios Neo 18 PHN18-71 Gaming Laptop - Intel Core i7-14700HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 4070 8G, 18"WQXGA 165Hz, Windows 11, Black. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-14700HX, Processor frequency: 5.4 GHz. Display diagonal: 45.7 cm (18"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1.02 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 11 Home. Product colour: Black

Design		Audio	
Product type *	Laptop	Built-in microphone	✓
Product colour *	Black	Number of microphones	3
Form factor *	Clamshell	<b>Camera</b>	
Market positioning	Gaming	Front camera	✓
<b>Display</b>		Front camera resolution (numeric)	2 MP
Display diagonal *	45.7 cm (18")	Front camera resolution	1920 x 1080 pixels
Display resolution *	2560 x 1600 pixels	Front camera HD type	Full HD
Touchscreen *	✗	<b>Network</b>	
HD type	WQXGA	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Panel type	IPS	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)
LED backlight	✓	Mobile network connection *	✗
Native aspect ratio	16:10	Antenna type	2x2
Display brightness	300 cd/m²	WLAN controller model	Killer Wi-Fi 6E 1675i
RGB colour space	DCI-P3	WLAN controller manufacturer	Killer
Colour gamut	100%	Ethernet LAN	✓
Maximum refresh rate	165 Hz	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
<b>Processor</b>		Bluetooth	✓
Processor manufacturer *	Intel	Bluetooth version	5.3
Processor family *	Intel® Core™ i7	Bluetooth Low Energy (BLE)	✓
Processor generation	Intel® Core™ i7 (14th gen)	MIMO	✓
Processor model *	i7-14700HX	MIMO type	Multi User MIMO
Processor cores	20	<b>Ports &amp; interfaces</b>	
Processor boost frequency	5.5 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor frequency *	5.4 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Performance cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Efficient cores	12	Ethernet LAN (RJ-45) ports	1
Performance-core Max Turbo Frequency	5.5 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	3.9 GHz	HDMI version	2.1
Performance-core base frequency	2.1 GHz	Thunderbolt 4 ports quantity	2
Efficient-core base frequency	1.5 GHz	Intel® Thunderbolt 4	✓
Processor cache	33 MB	Combo headphone/mic port	✓
Processor cache type	Smart Cache	USB Type-C DisplayPort Alternate Mode	✓
Processor base power	55 W		
Maximum turbo power	157 W		
<b>Memory</b>			
Internal memory *	16 GB		

Memory		Ports & interfaces	
Internal memory type	DDR5-SDRAM	USB Power Delivery	✓
Memory form factor	SO-DIMM	USB Sleep-and-Charge	✓
Memory slots	2x SO-DIMM	USB Sleep-and-Charge ports	1
Maximum internal memory *	32 GB	Keyboard	
Memory data transfer rate	5600 MT/s	Pointing device	Touchpad
Storage		Keyboard layout	QWERTY
Total storage capacity *	1.02 TB	Keyboard language	UK English
Storage media *	SSD	Numeric keypad *	✓
Total SSDs capacity	1.02 TB	Keyboard backlit	✓
Number of SSDs installed	1	Keyboard backlit colour	RGB
SSD capacity	1.02 TB	Keyboard backlit zone	4-zone RGB
SSD interface	PCI Express 4.0	Full-size keyboard	✓
NVMe	✓	Software	
SSD form factor	M.2	Operating system architecture	64-bit
Optical drive type *	✗	Operating system installed *	Windows 11 Home
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card model *	NVIDIA GeForce RTX 4070	Number of battery cells	4
Discrete graphics card memory	8 GB	Battery capacity *	90 Wh
Discrete graphics memory type	GDDR6	Battery life (max)	6 h
On-board graphics card *	✓	Continuous video playback time	6 h
On-board GPU manufacturer	Intel	Power	
Discrete graphics card *	✓	AC adapter power	330 W
On-board graphics card family	Intel® UHD Graphics	Security	
On-board graphics card model *	Intel® UHD Graphics	Password protection	✓
NVIDIA G-SYNC	✓	Weight & dimensions	
CUDA	✓	Width	404 mm
CUDA cores	4608	Depth	312.1 mm
Audio		Height	27.1 mm
Audio system	DTS:X Ultra	Weight *	3.4 kg
Number of built-in speakers	2	Packaging data	
		Package width	82 mm
		Package depth	599 mm
		Package height	376 mm
		Package weight	5.15 kg



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