**acer**

# Acer Predator Helios Neo 16 AI PHN16-73 - Intel Core Ultra 7 255HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 5070, 16"WQXGA, Windows 11 Gaming Laptop

**Brand :** Acer         **Product family:** Predator         **Product code:** NH.QX3EK.002

**Product name :** Acer Predator Helios Neo 16 AI PHN16-73 - Intel Core Ultra 7 255HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 5070, 16"WQXGA, Windows 11 Gaming Laptop

- Intel Core Ultra 7 255HX Processor
- 16GB DDR5 Memory
- 1TB SSD Storage
- 16" WQXGA Display
- NVIDIA GeForce RTX 5070 Graphics Card

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The Predator Helios Neo 16 AI is crafted for game enthusiasts who demand top-tier performance, stunning graphics, and smooth frame rates, all while balancing power and portability. Equipped with an Intel Core Ultra 7 processor, an NVIDIA GeForce RTX 5070 laptop GPU, and a 16" WQXGA display with a 240Hz refresh rate and 1ms response time, it redefines gaming with exceptional performance fueled by AI technology.

## Design

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

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 2560 x 1600 pixels |
| Touchscreen * | ✗ |
| HD type | WQXGA |
| Panel type | IPS |
| LED backlight | ✔ |
| Native aspect ratio | 16:10 |
| Display surface | Matt |
| Display brightness | 500 cd/m² |
| RGB colour space | DCI-P3 |
| Colour gamut | 100% |
| Maximum refresh rate | 240 Hz |

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel Core Ultra 7 |
| Processor model * | 255HX |
| Processor cores | 20 |
| Processor threads | 20 |
| Processor boost frequency | 5.2 GHz |
| Processor frequency * | 2.4 GHz |
| Processor cache | 30 MB |
| Processor cache type | Smart Cache |

## Camera

| | |
|---|---|
| Front camera HD type | Full HD |
| Infrared (IR) camera | ✔ |

## Network

| | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) |
| 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 band | Tri-band (2.4 GHz / 5 GHz / 6 GHz) |
| Bluetooth | ✔ |
| Bluetooth version | 5.4 |
| MIMO | ✔ |
| 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 2 (3.1 Gen 2) 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 |

## Neural processor unit (NPU)

| | |
|---|---|
| Neural processor unit (NPU) | Intel AI Boost |
| NPU performance up to | 13 TOPs |

## Memory

| | |
|---|---|
| Internal memory * | 16 GB |
| Internal memory type | DDR5-SDRAM |

## Storage

| | |
|---|---|
| Total storage capacity * | 1 TB |
| Storage media * | SSD |
| SSD interface | PCI Express 4.0 |
| NVMe | ✔ |
| SSD form factor | M.2 |

## Graphics

| | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA GeForce RTX 5070 |
| Discrete graphics card memory | 8 GB |
| Discrete graphics memory type | GDDR7 |
| Discrete graphics card * | ✔ |
| NVIDIA G-SYNC | ✔ |
| CUDA | ✔ |
| CUDA cores | 4608 |

## Audio

| | |
|---|---|
| Audio system | DTS:X Ultra |
| Number of built-in speakers | 2 |
| Built-in microphone | ✔ |

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera resolution | 1920 x 1080 pixels |

## Keyboard

| | |
|---|---|
| Keyboard backlit zone | 4-zone RGB |
| Copilot key | ✔ |

## Software

| | |
|---|---|
| Operating system installed * | Windows 11 Home |

## Battery

| | |
|---|---|
| Battery technology | Lithium-Ion (Li-Ion) |
| Number of battery cells | 4 |
| Battery capacity * | 90 Wh |
| Battery life (max) | 8 h |

## Power

| | |
|---|---|
| AC adapter power | 230 W |

## Security

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

## Weight & dimensions

| | |
|---|---|
| Width | 356.8 mm |
| Depth | 275.5 mm |
| Height | 23.9 mm |
| Weight * | 2.7 kg |

## Packaging data

| | |
|---|---|
| Package width | 548 mm |
| Package depth | 346 mm |
| Package height | 80 mm |
| Package weight | 4.94 kg |

## Packaging content

| | |
|---|---|
| Mouse included | ✘ |
| AC adapter included * | ✔ |

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