



## Acer Predator Helios Neo 16 AI PHN16-I71-9915 Gaming Notebook

**Brand :** Acer

**Product family:** Predator

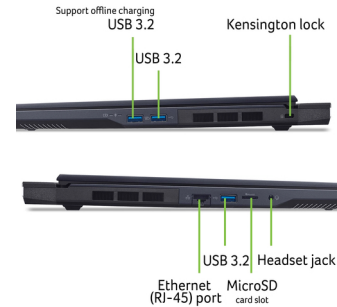
**Product code:** NH.U46EK.001

**Product name :** Helios Neo 16  
AI PHN16-I71-9915 Gaming  
Notebook

- Intel Core Ultra 9 290HX Plus
- NVIDIA RTX 5080
- 16" 240Hz WQXGA display
- 32GB DDR5 RAM
- 1TB SSD

Predator Helios Neo 16 AI (PHN16-I71) gaming laptop - Intel Core Ultra 9 290HX Plus, NVIDIA RTX 5080, 16" 240Hz WQXGA (2560x1600), 32GB DDR5, 1TB SSD

Acer Predator Helios Neo 16 AI PHN16-I71-9915 Gaming Notebook. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 290HX Plus, Processor frequency: 5.5 GHz. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics. Operating system installed: Windows 11 Home. Product colour: Black



| Design                            |                             | Camera                                            |                                                                                                           |
|-----------------------------------|-----------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Colour name                       | Black                       | Front camera HD type                              | Full HD                                                                                                   |
| Product type *                    | Laptop                      | Network                                           |                                                                                                           |
| Product colour *                  | Black                       | Wi-Fi                                             | ✓                                                                                                         |
| Form factor *                     | Clamshell                   | Top Wi-Fi standard *                              | Wi-Fi 6 (802.11ax)                                                                                        |
| Market positioning                | Gaming                      |                                                   | Wi-Fi 6E (802.11ax), Wi-Fi 6 (802.11ax), Wi-Fi 5 (802.11ac), Wi-Fi 4 (802.11n), 802.11g, 802.11b, 802.11a |
| AI-powered                        | ✓                           | Wi-Fi standards                                   |                                                                                                           |
| Country of origin                 | China                       | Mobile network connection *                       | ✗                                                                                                         |
| Display                           |                             | Wi-Fi band                                        | Tri-band (2.4 GHz / 5 GHz / 6 GHz)                                                                        |
| Foldable display                  | ✗                           | Antenna type                                      | 2x2                                                                                                       |
| Display diagonal *                | 40.6 cm (16")               | WLAN controller model                             | Killer Wi-Fi 6E 1675i                                                                                     |
| Display resolution *              | 2560 x 1600 pixels          | WLAN controller manufacturer                      | Intel                                                                                                     |
| Touchscreen *                     | ✗                           | Ethernet LAN                                      | ✓                                                                                                         |
| HD type                           | WQXGA                       | Ethernet LAN data rates                           | 5000 Mbit/s                                                                                               |
| Panel type                        | IPS                         | Bluetooth                                         | ✓                                                                                                         |
| Display technology marketing name | ComfyView                   | Bluetooth version                                 | 5.4                                                                                                       |
| LED backlight                     | ✓                           | MIMO                                              | ✓                                                                                                         |
| Native aspect ratio               | 16:10                       | MIMO type                                         | Multi User MIMO                                                                                           |
| Display surface                   | Matt                        | Ports & interfaces                                |                                                                                                           |
| Anti-microbial screen             | ✗                           | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1                                                                                                         |
| Display brightness                | 500 cd/m²                   | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity   | 2                                                                                                         |
| Maximum display brightness (HDR)  | 500 cd/m²                   | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity   | 2                                                                                                         |
| RGB colour space                  | DCI-P3                      | Ethernet LAN (RJ-45) ports                        | 1                                                                                                         |
| Colour gamut                      | 100%                        | HDMI ports quantity *                             | 1                                                                                                         |
| Display response rise/fall        | 3 ms                        | HDMI version                                      | 2.1                                                                                                       |
| Maximum refresh rate              | 240 Hz                      | Thunderbolt 4 ports quantity                      | 1                                                                                                         |
| Processor                         |                             | Intel® Thunderbolt 4                              | ✓                                                                                                         |
| Processor manufacturer *          | Intel                       |                                                   |                                                                                                           |
| Processor family *                | Intel Core Ultra 9          |                                                   |                                                                                                           |
| Processor generation              | Intel Core Ultra (Series 2) |                                                   |                                                                                                           |
| Processor model *                 | 290HX Plus                  |                                                   |                                                                                                           |

| Processor                            |                         | Ports & interfaces                         |                                                                                                                                               |
|--------------------------------------|-------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Processor cores                      | 24                      | Headphone outputs                          | 1                                                                                                                                             |
| Processor threads                    | 24                      | Microphone in                              | ✓                                                                                                                                             |
| Processor frequency *                | 5.5 GHz                 | Line-in                                    | ✓                                                                                                                                             |
| Performance cores                    | 8                       | Combo headphone/mic port                   | ✓                                                                                                                                             |
| Efficient cores                      | 16                      | HDMI                                       | ✓                                                                                                                                             |
| Performance-core Max Turbo Frequency | 5.5 GHz                 | HDCP                                       | ✓                                                                                                                                             |
| Efficient-core Max Turbo Frequency   | 4.7 GHz                 | USB ports quantity                         | 5                                                                                                                                             |
| Processor cache                      | 32 MB                   | Line-out                                   | ✓                                                                                                                                             |
| L2 cache                             | 40 MB                   | USB Type-C DisplayPort Alternate Mode      | ✓                                                                                                                                             |
| Processor operating modes            | 64-bit                  | USB Sleep-and-Charge                       | ✓                                                                                                                                             |
| Processor base power                 | 55 W                    | USB Sleep-and-Charge ports                 | 1                                                                                                                                             |
| Maximum turbo power                  | 160 W                   |                                            |                                                                                                                                               |
| Neural processor unit (NPU)          |                         | Keyboard                                   |                                                                                                                                               |
| Copilot+ PC                          | ✗                       | Keyboard special features                  | Predator Sense Key                                                                                                                            |
| Neural processor unit (NPU)          | Intel AI Boost          | Pointing device                            | Touchpad                                                                                                                                      |
| Total processor performance up to    | 36 TOPs                 | Numeric keypad *                           | ✓                                                                                                                                             |
| NPU performance up to                | 13 TOPs                 | Keyboard backlit                           | ✓                                                                                                                                             |
| Memory                               |                         | Keyboard backlit colour                    | RGB                                                                                                                                           |
| Internal memory *                    | 32 GB                   | Keyboard language                          | UK English                                                                                                                                    |
| Internal memory type                 | DDR5-SDRAM              | Copilot key                                | ✓                                                                                                                                             |
| Memory clock speed                   | 6400 MHz                |                                            |                                                                                                                                               |
| Maximum internal memory *            | 64 GB                   |                                            |                                                                                                                                               |
| Storage                              |                         | Software                                   |                                                                                                                                               |
| Total storage capacity *             | 1 TB                    | Operating system installed *               | Windows 11 Home                                                                                                                               |
| Storage media *                      | SSD                     | Bundled software                           | Windows Desktop AppsIn-House: Acer AlterView Acer LiveArt Acer QuickPanel Acer VisionArt PredatorSense V5 (NB) Tools: Acer My Key Application |
| Total SSDs capacity                  | 1 TB                    |                                            |                                                                                                                                               |
| Number of SSDs installed             | 1                       |                                            |                                                                                                                                               |
| SSD capacity                         | 1 TB                    |                                            |                                                                                                                                               |
| SSD interface                        | PCI Express 4.0         |                                            |                                                                                                                                               |
| NVMe                                 | ✓                       |                                            |                                                                                                                                               |
| SSD form factor                      | M.2                     |                                            |                                                                                                                                               |
| Optical drive type *                 | ✗                       |                                            |                                                                                                                                               |
| Graphics                             |                         | Battery                                    |                                                                                                                                               |
| Discrete GPU manufacturer            | NVIDIA                  | Battery technology                         | Lithium-Ion (Li-Ion)                                                                                                                          |
| Discrete graphics card model *       | NVIDIA GeForce RTX 5080 | Number of battery cells                    | 4                                                                                                                                             |
| Discrete graphics card memory        | 16 GB                   | Battery capacity *                         | 92 Wh                                                                                                                                         |
| Discrete graphics memory type        | GDDR7                   | Battery life (max)                         | 8 h                                                                                                                                           |
| On-board graphics card *             | ✓                       | Continuous video playback time (max)       | 10 h                                                                                                                                          |
| Discrete graphics card *             | ✓                       |                                            |                                                                                                                                               |
| On-board graphics card model *       | Intel® Graphics         |                                            |                                                                                                                                               |
| On-board graphics card cores         | 4                       |                                            |                                                                                                                                               |
| Audio                                |                         | Power                                      |                                                                                                                                               |
| Audio system                         | DTS:X Ultra             | AC adapter power                           | 330 W                                                                                                                                         |
| Spatial audio                        | ✓                       | USB Type-C charging port *                 | ✓                                                                                                                                             |
| Built-in speaker(s)                  | ✓                       | USB Type-C required charging power (max) * | 100 W                                                                                                                                         |
| Number of built-in speakers          | 2                       | USB Power Delivery (USB PD)                | ✓                                                                                                                                             |
| Built-in microphone                  | ✓                       | USB charging voltage                       | 20 V                                                                                                                                          |
| Number of microphones                | 3                       |                                            |                                                                                                                                               |
| Camera                               |                         | Security                                   |                                                                                                                                               |
| Front camera                         | ✓                       | Fingerprint reader                         | ✗                                                                                                                                             |
| Front camera resolution (numeric)    | 2 MP                    |                                            |                                                                                                                                               |
| Front camera resolution              | 1920 x 1080 pixels      |                                            |                                                                                                                                               |
|                                      |                         | Weight & dimensions                        |                                                                                                                                               |
|                                      |                         | Width                                      | 356.8 mm                                                                                                                                      |
|                                      |                         | Depth                                      | 275.5 mm                                                                                                                                      |
|                                      |                         | Height                                     | 26.8 mm                                                                                                                                       |
|                                      |                         | Weight *                                   | 2.7 kg                                                                                                                                        |
|                                      |                         | Packaging data                             |                                                                                                                                               |
|                                      |                         | Package width                              | 80 mm                                                                                                                                         |
|                                      |                         | Package depth                              | 548 mm                                                                                                                                        |
|                                      |                         | Package height                             | 346 mm                                                                                                                                        |
|                                      |                         | Package weight                             | 4.74 kg                                                                                                                                       |
|                                      |                         | Packaging content                          |                                                                                                                                               |
|                                      |                         | Mouse included                             | ✗                                                                                                                                             |
|                                      |                         | AC adapter included *                      | ✓                                                                                                                                             |

| Packaging content |                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------|
| Keyboard included | ✓                                                                                                     |
| Packaging content | Helios Neo 16 AI PHN16-I71-9915 Gaming Notebook Lithium Ion (Li-Ion) Battery Power Adapter Power Cord |
| Other features    |                                                                                                       |
| Security features | Kensington lock Firmware Trusted Platform Module (TPM) solution                                       |
| Chipset           | Intel®                                                                                                |
| Manufacturer      | Acer, Inc                                                                                             |



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### Catalog Object Cloud



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