

SPECIFICATIONS



Acer Predari Helios 16 AI PH16-73 Series 2 Intel Core Ultra 9 275HX 32GB RAM, 2TB SSD 16 Inch 2.5K QHD+ WQXGA OLED Display Copilot & AI Optimized Abyssal Black Gaming Laptop

Regular Price 705,250
Special Price 660,000

ID: 33.02.002.1111

General

Brand	Acer
Laptop Series	Predator
Model	Acer Predator Helios 16 AI PH16-73
Part No	NH.QW0SI.001

Processor

Processor Brand	Intel
Processor Type.	Core Ultra 9
Generation	Ultra
Processor Model	Core Ultra 9 275HX
Processor Base Frequency	Unmentioned
Efficient-Core Base Frequency	2.10GHz
Processor Max Turbo Frequency	5.40GHz
Performance-Core Max Turbo Frequency	5.40GHz
Efficient-Core Max Turbo Frequency	4.60GHz
Low Power Efficient-Core Max Turbo Frequency	2.70GHz
Processor Core	24
Performance-Cores	8
Efficient-Cores	16
Low Power Efficient-Cores	0
Processor Thread	24
CPU Cache	36MB
NPU	Yes

IDB BHABAN - DHAKA 123/5 BCS Computer City, IDB Bhaban, Dhaka 1207, Tel +88 0960 444 2121 **BANANI - DHAKA** 41 Kamal Ataturk Avenue, Banani, Dhaka 1213, Tel +88 017 55 513 933 **UTTARA - DHAKA** 36 Sonargaon Janapath, Sector 9, Dhaka 1230, Tel +88 017 55 513 930 **MULTIPLAN CENTRE-1, DHAKA** Ground Floor, Shop 141, Multiplan Centre, Dhaka 1205, Tel +88 017 55 513 971 **MULTIPLAN CENTRE-2, DHAKA** Level 4, Shop 401, Multiplan Centre, Dhaka 1205, Tel +88 017 55 513 981 **MULTIPLAN CENTRE-3, DHAKA** Level 4, Shop 430, Multiplan Centre, Dhaka 1205, Tel +88 017 55 554 947 **Shantinagar - DHAKA** Level 4, Shop 441, Eastern Plus, Dhaka 1217, Tel +88 017 55 513 984 **Agrabad - Chattogram** 472 Sheikh Mujib Road, Chowmuhani, Chattogram, Tel +88 017 55 554 930 **GEC Circle - Chattogram** 428 Yunusco City Center, Chattogram, Tel +88 017 55 513 953 **RAJSHAHI Jamal Super Market** 96 Saheb Bazar, Tel +88 017 55 513 961 **Bogura** 845/936 College Road, Kalitola, Tel +88 017 55 513 948 **Khulna Naushin Tower** 11 KDA Avenue, Tel +88 017 55 554 923 **RANGPUR** 624 Asha Centre, GL Roy Road, Tel +88 017 555 13 941 **Barishal** 125 Sadar Road, Kakolimor, Tel +88 017 55 513 945 **MYMENSINGH** 11 C.K Ghosh Road, Tel +88 017 55 513 954

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Neural Processing Unit (NPU)	Intel AI Boost
NPU TOPS	13

Memory

RAM	32GB
Installed RAM Details	1 x 32GB
RAM Type	DDR5
RAM Bus	6400 MHz
Total RAM Slot	2
Empty/Expansion RAM Slot	1
Max. RAM Support	64GB

Storage

Storage	2TB SSD
Installed HDD Type	No HDD
HDD RPM	No HDD
HDD Expansion Slot	Unmentioned
Installed SSD Type	NVMe PCIe
Installed SSD Generation	Gen 5
M.2/SSD Expansion Slot	Unmentioned
Storage Upgrade	Unmentioned

Graphics

Graphics Chipset	NVIDIA GeForce RTX 5090 Graphics
Graphics Memory Accessibility	Dedicated
Graphics Memory	24GB

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Graphics Memory Type GDDR7

Display

Display Size (Inch)	16
Display Type	2.5K QHD+ WQXGA Display
Panel Type	OLED
Display Resolution	2560x1600
Touch Screen	No
Display Refresh Rate	240 Hz
Brightness	400nits
Display Features	Acer CineCrystal, 16:10 aspect ratio, color gamut DCI-P3 100%(Typical value), certified by True Black HDR 500 (HDR 500, brightness reach 500 nits), Nvidia Advanced Optimus capable. Wide viewing angle up to 170 degrees. Mercury free, environment friendly.
Secondary Screen Size	No Secondary Screen
Secondary Screen Technology	No Secondary Screen
Secondary Screen Resolution	No Secondary Screen

Ports & Slots

Optical Drive	No
Multimedia Card Slot	Yes
Supported Multimedia Card	MicroSD
USB 2 Port	No
USB 3 Port	1 x USB 3.2 Gen 1 Type-A, 1 x USB 3.2 Gen 2 Type-A with power-off charging, 1 x USB 3.2 Gen 2 Type-A.
USB C / Thunderbolt Port	2 x USB Type-C (Thunderbolt 5)
HDMI Port	1
Micro HDMI Port	No
Mini HDMI Port	No

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Display Port	No
Mini DP Port	No
VGA/D-Sub	No
Headphone Port	Combo
Microphone Port	Combo
Security Lock Slot	Kensington Lock Slot

Network & Connectivity

LAN	Yes
WiFi	Wi-Fi 7, 802.11 a/b/g/n/ac/ax/be, Band: 2.4 GHz ,5 GHz, and 6 GHz, 2x2 MIMO Technology.
Bluetooth	Bluetooth 5.4

Audio & Camera

Audio Properties	Quad Speakers output with embedded smart amplifier enhancement with Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound. Acer Purified Voice technology with AI noise reduction in 3 mics array built-in microphones to support Advanced Privacy Mode. Features include far-field pickup, dynamic noise reduction through neural network, adaptive beam forming, and pre-defined personal and conference call modes.
Speaker	Yes
Microphone.	Yes
WebCam	FHD WebCam

Keyboard

Keyboard Layout	FineTip RGB mini-LED Per-Key backlight keyboard with international language support.
Keyboard Back-lit	Yes
RGB Keyboard	Yes
Num Key pad	Yes
Pointing Device	Touchpad

Security

Finger Print Sensor	No
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Security Chip	Firmware Trusted Platform Module (TPM)
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Software

Operating System	Win-11 Home
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Licensed Application	No
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Physical Description

Body Material	Metal (Cover)
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Device Lighting	RGB
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Color	Abyssal Black
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Dimensions	356.78 x 279.55 x 16.26 / 27.75mm
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Weight (Kg)	2.65 kg (with 4-cell battery pack)
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Power

Battery	4 Cell
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Battery Capacity	90Wh
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Battery Type	Li-ion Battery
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Backup Time	Up to 4 Hrs.
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Power Adapter	330W
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Adapter Type	3-Pin 330W 5.5 PHY PCR 50% AC Adapter
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Warranty

Warranty Details	2 Year (1 Year Traveles) (1 year for Battery and Adapter)
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Warranty Claim

Duration (Approximate)	Estimated Warranty Claim Duration 20 Days. It may take additional time up to 40 days
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Best For	Gaming, Creative Design Works, Browsing, Video Editing, Office Work , Movies Etc.
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Specialty

Active-forced vibration cancellation dual speaker module design to enhance speaker performance and reduce system resonance. DTS X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes. Supported in Windows Spatial Sound for PC Gaming with DTS Sound Unbound license integrated. Immersive audio rendering over headphones and internal speakers. High SNR DAC with 2.1 Vrms out capability and can driver high impedance headphone (up to 600 ohm). Hi-Res Audio Certification by JAS (Headphone Output setting supported up to 24bit /192KHz). BIOS user, supervisor, HDD passwords. Control Keys: Mode Key, Predator Sense Key, Copilot Key.

Others

Storage: 1 x 1TB PCIe Gen5 SSD, 1 x 1TB PCIe Gen4 16 GB/S NVMeSSD. Webcam: UFC with Narrow USB FHD camera+IR camera with blue glass. Compatible with Windows only. 1920 x 1080 resolution. 1080p HD video at 60 fps with Temporal Noise Reduction. Blue glass lens. Staggered High Dynamic Range (SHDR). Dual Mic (33 mm + 33 mm). 88 x 3.2 x 2.6 mm. WPAN: Support Bluetooth 5.4 or above, Support Bluetooth LE Audio (LC3). LAN: Killer Ethernet E5000B, 5G Ethernet, Killer Control Center, Lag and Latency Reduction Technology, Advanced Stream Detect 2.0, Killer DoubleShot Pro enabled, GameFast Technology. Touchpad: Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands. Corning Gorilla Glass. Copilot & AI Optimized.

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