



Predator PHN18-72 Specifications (v5-0-2)		
Category	Description	Footnotes
Operating system 1	Windows 11 Home	
CPU and chipset 1	Intel® Core™ Ultra 9 processor 275HX (36 MB Smart Cache, 2.7 GHz P-core base core frequency with Intel® Turbo Boost Max Technology 3.0 up to 5.4 GHz, Intel® AI Boost up to 13 TOPS, and overclocking capable), supporting hybrid core architecture with Performance-core and Efficient-core Intel® Core™ Ultra 7 processor 255HX (30 MB Smart Cache, 2.4 GHz P-core base core frequency with Intel® Turbo Boost Max Technology 3.0 up to 5.2 GHz, Intel® AI Boost up to 13 TOPS, and overclocking capable), supporting hybrid core architecture with Performance-core and Efficient-core	
Memory 1, 2, 3	Dual-channel DDR5 SDRAM support Up to 64 GB of DDR5 system memory using two soDIMM modules Memory Frequency : Up to 6400 MT/s	
Display	18.0" display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, high-brightness (SDR mode 600 nits / HDR mode 1000 nits), high color gamut (DCI-P3 100%), Acer ComfyView™ LED-backlit TFT LCD, intergrated Mini LED technology. Supporting frame rate 250Hz, GTG 3ms by Overdrive, Nvidia Advanced Optimus capable and HDR 1000. 16:10 aspect ratio Wide viewing angle up to 170 degrees Mercury free, environment friendly 18.0" display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, high-brightness (500 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 240 Hz, Grey to Grey 3 ms by Overdrive, Nvidia Advanced Optimus capable. 16:10 aspect ratio, DCI-P3 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly 18.0" display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz, Grey to Grey 3 ms by Overdrive, Nvidia Advanced Optimus capable. 16:10 aspect ratio, DCI-P3 100% Wide viewing angle up to 170 degrees Ultra-slim design	4 4 4

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		Mercury free, environment friendly
Graphics	1	NVIDIA® GeForce RTX™ 5070 Ti with 12 GB of dedicated GDDR7 VRAM, supporting 5888 NVIDIA® CUDA® Cores. • AI TOPs: 992 • GPU subsystem power(W): 60 - 115W • Boost Clock(GHz):1447 - 2220MHz • VRAM: 12GB • Memory interface Width:192-bit • NVIDIA Architecture:Blackwell • Ray Tracing Cores: Fourth Generation • Tensor Cores: Fifth Generation • NVIDIA DLSS: DLSS4 • NVIDIA Reflex: Reflex 2 • NVIDIA Broadcast • PCIE Express Gen5 • Resizable Bar • NVIDIA App • NVIDIA Ansel • NVIDIA FreeStyle • NVIDIA ShadowPlay • NVIDIA Highlights • NVIDIA G-sync® • Game Ready Drivers • NVIDIA Studio Drivers • NVIDIA Omniverse • RTX Remix • Microsoft DirectX® 12 Ultimate • NVIDIA GPU Boost™ • Vulkan RT API, OpenGL 4.6 • Support HDMI(2) • Support DisplayPort(3) • NVIDIA Encoder: 1xNinth Generation • NVIDIA Decoder: 1xSixth Generation • CUDA Capability: 12.8 NVIDIA® GeForce RTX™ 5070 with 8 GB of dedicated GDDR7 VRAM, supporting 4608 NVIDIA® CUDA® Cores. • AI TOPs: 798 • GPU subsystem power(W): 50 - 100W • Boost Clock(GHz):1425 - 2347Mhz • VRAM: 8GB • Memory interface Width:128-bit • NVIDIA Architecture:Blackwell • Ray Tracing Cores: Fourth Generation • Tensor Cores: Fifth Generation

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	• NVIDIA DLSS: DLSS4 • NVIDIA Reflex: Reflex 2 • NVIDIA Broadcast • PCIe Express Gen5 • Resizable Bar • NVIDIA App • NVIDIA Ansel • NVIDIA FreeStyle • NVIDIA ShadowPlay • NVIDIA Highlights • NVIDIA G-sync® • Game Ready Drivers • NVIDIA Studio Drivers • NVIDIA Omniverse • RTX Remix • Microsoft DirectX® 12 Ultimate • NVIDIA GPU Boost™ • Vulkan RT API, OpenGL 4.6 • Support HDMI(2) • Support DisplayPort(3) • NVIDIA Encoder: 1x Ninth Generation • NVIDIA Decoder: 1x Sixth Generation • CUDA Capability: 12.8	
Audio	• DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes via smart amplifier • 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) • 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. • Compatible with Cortana with Voice • Acer TrueHarmony Technology for lower distortion, wider frequency range, headphone-like audio and powerful sound • Hi-Res Audio Certification by JAS (Headphone Output setting supported up to 24bit /192KHz)	
Storage	Solid state drive • 512 GB / 1 TB / 2 TB, PCIe Gen4, 16 Gb/s, NVMe	1, 5
Webcam 1	Video conferencing UFC with	

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		• 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
Wireless and networking	1	WLAN • Killer™ Wireless Wi-Fi 6E 1675i • 802.11 a/b/g/n/ac/ax wireless LAN • Band: 2.4 GHz, 5 GHz and 6 GHz • 2x2 MU-MIMO technology • Support CNVi interface LAN • Killer™ Ethernet E3100G • 2.5G Ethernet • Killer Control Center • Lag and Latency Reduction™ Technology • Advanced Stream Detect™ 2.0 • Killer DoubleShot™ Pro enabled • GameFast™ Technology WPAN Supports Bluetooth® 5.4 or above Supports Bluetooth LE Audio (LC3).
Privacy control	1	BIOS user, supervisor
Security		Firmware Trusted Platform Module (TPM) solution Kensington lock
Dimensions and weight	6, 7	Dimensions • 400.96 (W) x 307.9 (D) x 14.9/28 (H) mm (15.79 x 12.12 x 0.59/1.1 inches) with RTX 5070 Ti • 400.96 (W) x 307.9 (D) x 14.9/25.2 (H) mm (15.79 x 12.12 x 0.59/0.99 inches) with RTX 5070/RTX5060 Weight • 3.3 kg (7.28 lbs.) with 4-cell battery pack
Power adapter and battery	8	Power adapter 3-pin 330 W 5.5 PHY PCR 50% AC adapter • 185.0 (W) x 85.0 (D) x 31.0 (H) mm (7.28 x 3.35 x 1.22 inches) • 19.5 V / 16.9 A as output power • 900 g ± 10%, with 180 cm DC cable • Black color with Acer logo • Brick - type AC pins 3-pin 230 W 5.5 PHY PCR 50% AC adapter • 157.0 (W) x 85.5 (D) x 25.4 (H) mm (6.18 x 3.37 x 1.00 inches)

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	• 19.5 V / 11.8 A as output power • 640 g ± 10%, with 180 cm DC cable • Black color with Acer logo • Brick - type AC pins Battery • 90 Wh 4-cell Li-ion battery • For models with WQXGA Panel Battery life: Up to 7 hours (based on video playback test results)	9
Input and control	Keyboard 103(US)-/104(UK)-key, FineTip RGB-backlight keyboard with independent standard numeric keypad, international language support • Key-to-key area : 356.35mm (width) * 108.15mm (length) • Keyboard travel distance 2.0mm for gamer optimal typing feel • Microsoft Copilot key design • Individual key of PredatorSense app enabling • Indicators of CapsLock and Microphone mute toggle indicators TouchPad Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands • Microsoft Precision Touchpad certification • Moisture resistant Control Keys Predator Sense Key Copilot Key	
Input and output	USB Type-C USB Type-C™ port supporting: • USB 3.2 Gen 2 (up to 10 Gbps) • DisplayPort over USB-C via iGPU • Thunderbolt™ 4 • USB charging 5 V; 3 A • DC-in port 20 V; 90 or 100 W USB Type-C™ port, supporting: • USB 3.2 Gen 2 (up to 10 Gbps) • DisplayPort over USB-C via dGPU • USB charging 5 V; 3 A • DC-in port 20 V; 90 or 100 W USB Standard A Three USB Standard-A ports, supporting: • One port for USB 3.2 Gen 1 • One port for USB 3.2 Gen 2 • One port for USB 3.2 Gen 2 featuring power off USB charging HDMI® 2.1 port with HDCP support Ethernet (RJ-45) port	

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	microSD card (SDXC compatible) DC-in jack for AC adapter 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone	
Windows Desktop Apps	10 Games • Planet9 Stub (For Gaming) In-House • Acer QuickPanel • PredatorSense V5 (NB)	
Warranty	One-year International Travelers Warranty (ITW)	
1. Specifications vary depending on model. 2. Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment. 3. Memory speed may vary, depending on the CPU, chipset or memory fitted. 4. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products. 5. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space. 6. Minor variations in system dimensions are possible due to the manufacturing process. 7. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options. 8. Listed battery life is based on testing using video playback. The test clip loops and continues to run, without interruption or any other inputs, until the battery is drained. Stated battery life is for comparison purpose only. Actual battery life varies by model, configuration, applications, video chip format and features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: 14th Gen Intel® Core™ i9, NVIDIA® GeForce RTX™ 4070, WQXGA, Dual SSD, 32GB of DDR5 memory. Battery life test condition: LCD brightness 150 nits, connected headphones, WLAN off, Bluetooth off and Better Battery Mode on. 9. <i>Actual battery life may vary considerably by specifications, depending on product model, configuration, applications, power management settings, operating conditions, and features utilized. Performance variation also arises based on components in use, which includes but is not limited to the processor, RAM capacity, storage, display and resolution, etc.</i> 10. Bundled software may vary depending on hardware configuration, OS and regional availability. In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region. As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by Acer's warranty. © 2025. All rights reserved. Microsoft and Windows are registered trademarks of Microsoft Corporation.		

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COMBO
AUDIO JACK



Appendix

v2-0-1 (Ver. 2)

Input and control

v3-0-1 (Ver. 3)

Input and control

v4-0-1 (Ver. 4)

Graphics

v5-0-2 (Ver. 5)

No changes found!