



Predator PH18-72 Specifications (v1-0-1)			
Category		Description	Footnotes
Operating system	1	Windows 11 Home	
CPU and chipset	1	Intel® Core™ i9-14900HX processor (36 MB Smart Cache, 2.2 GHz Performance-core with Intel® Turbo Boost Max Technology 3.0 up to 5.7 GHz, overclock capable), supporting hybrid core architecture with Performance-core and Efficient-core	
Memory	1, 2, 3	Dual-channel DDR5 SDRAM support <ul style="list-style-type: none"> Up to 32 GB of DDR5 system memory Memory Frequency : Up to 5600 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	4
		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	4
Graphics	1	NVIDIA® GeForce RTX™ 4090 with 16 GB of dedicated GDDR6 VRAM, supporting 9728 NVIDIA® CUDA® Cores. <ul style="list-style-type: none"> With 5th gen MAXQ technology design 1455 - 2040 MHz Boost Clock Third Gen Ray Tracing Cores Fouth Gen Tensor Cores Ada Lovelace NVIDIA Architecture Microsoft DirectX® 12 Ultimate. NVIDIA DLSS 3.0 NVIDIA Reflex NVIDIA Broadcast PCI Express Gen 4 NVIDIA Resizable BAR 	

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- NVIDIA GeForce Experience™
- NVIDIA Ansel
- NVIDIA FreeStyle
- NVIDIA ShadowPlay®
- NVIDIA Highlights
- NVIDIA G-SYNC®
- NVIDIA Game Ready Drivers
- NVIDIA Studio Drivers.
- NVIDIA Omniverse
- NVIDIA GPU Boost™
- Vulkan RT API, OpenGL 4.6
- HDMI
- DisplayPort
- NVIDIA Dynamic Boost 2.0
- NVIDIA Whisper Mode 2.0
- NVIDIA Advanced Optimus
- NVIDIA Battery Boost
- NVIDIA Rapid Core Scaling
- NVIDIA CPU Optimizer

NVIDIA® GeForce RTX™ 4080 with 12 GB of dedicated GDDR6 VRAM, supporting 7424 NVIDIA® CUDA® Cores.

- With 5th gen MAXQ technology design
- 1350 - 2280 MHz Boost Clock
- Third Gen Ray Tracing Cores
- Fourth Gen Tensor Cores
- Ada Lovelace NVIDIA Architecture
- Microsoft DirectX® 12 Ultimate.
- NVIDIA DLSS 3.0
- NVIDIA Reflex
- NVIDIA Broadcast
- PCI Express Gen 4
- NVIDIAResizable BAR
- NVIDIA GeForce Experience™
- NVIDIA Ansel
- NVIDIA FreeStyle
- NVIDIA ShadowPlay®
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- HDMI

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		<ul style="list-style-type: none"> • DisplayPort • NVIDIA Dynamic Boost 2.0 • NVIDIA Whisper Mode 2.0 • NVIDIA Advanced Optimus • NVIDIA Battery Boost • NVIDIA Rapid Core Scaling • NVIDIA CPU Optimizer
Audio		<ul style="list-style-type: none"> • 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 dual built-in microphones. Features include far-field pickup, dynamic noise reduction through neural network, adaptive beam forming, and pre-defined personal and conference call modes. • Support Advanced Privacy Mode with 3rd Mic Integrated • Compatible with Cortana with Voice • Acer TrueHarmony Technology for lower distortion, wider frequency range, headphone-like audio and powerful sound
Storage		<p>Solid state drive</p> <ul style="list-style-type: none"> • 512 GB / 1 TB / 2 TB, PCIe Gen4, 16 Gb/s, NVMe • 1 TB / 2 TB, NVMe, RAID 0 SSD • 2 TB / 4 TB, NVMe, RAID 0 SSD
Webcam	1	<p>Video conferencing</p> <p>UFC with</p> <ul style="list-style-type: none"> • Narrow USB FHD camera with blue glass • Compatible with Windows • 1920 x 1080 resolution • 1080p HD video at 60 fps with Temporal Noise Reduction • Dual Mic (33 mm + 33 mm) • 86 x 3.2 x 2.55 mm
Wireless and networking	1	<p>WLAN</p> <ul style="list-style-type: none"> • Killer Wi-Fi 7 Wireless LAN • 802.11 a/b/g/n/ac/ax/be • Band: 2.4 GHz, 5 GHz, and 6 GHz • 2x2 MIMO technology <p>LAN</p> <ul style="list-style-type: none"> • Killer™ Ethernet E3100G • 2.5G Ethernet • Killer Control Center • Lag and Latency Reduction™ Technology

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	<ul style="list-style-type: none"> • Advanced Stream Detect™ 2.0 • Killer DoubleShot™ Pro enabled • GameFast™ Technology <p>WPAN Supports Bluetooth LE Audio (LC3). Supports Bluetooth® 5.3 or above</p>	
Security	Firmware Trusted Platform Module (TPM) solution BIOS user, supervisor passwords, Kensington lock slot	
Dimensions and weight 6, 7	<p>Dimensions</p> <ul style="list-style-type: none"> • 404 (W) x 311.6 (D) x 26.9/28.9 (H) mm (15.91 x 12.27 x 1.06/1.14 inches) with Metal A Cover <p>Weight</p> <ul style="list-style-type: none"> • 3.25 kg (7.17 lbs.) with 4-cell battery pack, miniLED display 	
Power adapter and battery	<p>Battery</p> <ul style="list-style-type: none"> • 90 Wh 4-cell Li-ion battery • For models with WQXGA Panel <p>Battery life up to 5 hours</p> <p>Power adapter</p> <p>3-pin 330 W 5.5 PHY AC adapter</p> <ul style="list-style-type: none"> • 185.0 (W) x 85.0 (D) x 36.0 (H) mm (7.28 x 3.35 x 1.42 inches) • 1050 g (2.31 lbs.) with 180 cm DC cable • 180.0 (W) x 82.0 (D) x 38.5 (H) mm (7.09 x 3.23 x 1.52 inches) • 1233 g (2.70 lbs.) with 180 cm DC cable 	8
Input and control	<p>Keyboard</p> <p>103(US)-/104(UK)-key, FineTip RGB Per-Key backlight keyboard with international language support (XG05P_P30BPK)</p> <ul style="list-style-type: none"> • Backlit chiclet keyboard with individual LED(s) under each keycap • 100% Anti-ghosting • Keyboard travel distance 1.8mm for gamer optimal typing feel • Switchable Mag_key 3.0 • Interactive Lightening • Key-to-key area : 356.35mm (width) * 108.15mm (length) <p>TouchPad</p> <p>Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands</p> <ul style="list-style-type: none"> • Microsoft Precision Touchpad certification • Moisture resistant • Corning® Gorilla® Glass <p>Control Keys</p> <p>Mode Key</p>	
Input and output	<p>USB Type-C</p> <p>Two USB Type-C™ ports</p>	

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		<p>USB Type-C™ port, supporting:</p> <ul style="list-style-type: none"> • USB 3.2 Gen 2 (up to 10 Gbps) • DisplayPort over USB-C • Thunderbolt™ 4 • USB charging 5 V; 3 A • DC-in port 20 V; 65 W <p>USB Standard A</p> <p>Three USB Standard-A ports, supporting:</p> <ul style="list-style-type: none"> • 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 <p>HDMI® 2.1 port with HDCP support</p> <p>microSD™ Card reader</p> <p>3.5 mm headphone/speaker jack, supporting headsets with built-in microphone</p> <p>Ethernet (RJ-45) port</p> <p>DC-in jack for AC adapter</p> <p>(Notes: Notes: USB Type-C port (DC-in port 20 V; 65 W):</p> <ol style="list-style-type: none"> 1. Type-C 65W charging can achieve minimum usage. 2. Charging slowly is an expected behavior. 3. Not claim Performance and Gaming Experience.))
Windows Desktop Apps	9	<p>Games</p> <ul style="list-style-type: none"> • Planet9 Stub (For Gaming) <p>In-House</p> <ul style="list-style-type: none"> • Acer Product Registration • Acer QuickPanel • PredatorSense V5 (NB)
Options and accessories		<p>Accessory</p> <p>Predator MagKey 3.0 Eight-in-One Box</p> <ul style="list-style-type: none"> • One Set of MagClick, (Swappable Keycaps, 4pcs/set) • One Set of MagSpeed (Swappable Keycaps, 4pcs/set) • One Key-puller • One Bulk Pack <p>Thermal Deco</p>
Warranty		One-year International Travelers Warranty (ITW)
<ol style="list-style-type: none"> 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. 		

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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. *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.*
9. 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.

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PurifiedVoice with AI Noise Reduction

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