Predator PH16-71 Specifications (v1-0-1)

Category		Description	Footnotes
Operating system	1	Windows 11 Home	
CPU and chipset	1	**Intel® Core™ i9-13900HX** processor (36 MB Smart Cache, 2.2 GHz Performance-core with Intel® Turbo Boost Max Technology 3.0 up to 5.4 GHz, overclock capable), supporting hybrid core architecture with Performance-core and Efficient-core **Intel® Core™ i7-13700HX** processor (30 MB Smart Cache, 2.1 GHz Performance-core with Intel® Turbo Boost Max Technology 3.0 up to 5.0 GHz, overclock capable), supporting hybrid core architecture with Performance-core and Efficient-core Mobile Intel® HM770 PCH Chipset	
Memory	1, 2, 3	Dual-channel DDR5 SDRAM support • Up to 32 GB of DDR5 system memory Memory Frequency : Up to 4800 MT/s	
Display		16.0" 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 and HDR 1000. 16:10 aspect ratio Wide viewing angle up to 170 degrees Mercury free, environment friendly	4
		16.0" display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, high-brightness (500 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 240 Hz 16:10 aspect ratio, DCI-P3 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
		16.0" display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, high-brightness (500 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz 16:10 aspect ratio, sRGB 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
Graphics	1	NVIDIA® GeForce RTX™ 4080 with 12 GB of dedicated GDDR6 VRAM **NVIDIA® GeForce RTX™ 4070** with 8GB of dedicated GDDR6 VRAM,	

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	NVIDIA® GeForce RTX™ 4060 with 8GB of dedicated GDDR6 VRAM,	
Audio	• DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes by smart amplifier • Supported in Windows Spatial Sound for PC Gaming with DTS license integrated • Immersive audio rendering over headphones and internal speakers • 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. • Compatible with Cortana with Voice • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound	
Storage	**Solid state drive** • 512 GB / 1 TB / 2 TB, PCIe Gen4, 16 Gb/s, NVMe • 1 TB / 2 TB, NVMe, RAID 0 SSD	1, 5
Webcam 1	**Video conferencing** UFC with • 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	**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 Bluetooth® 5.2 and later • Support CNVi interface **LAN** • Killer™ Ethernet E2600 • 10/100/1000 Mbps • Hibernation mode support • Wake On Lan support • IPv4 and IPv6 support	
Security	Firmware Trusted Platform Module (TPM) solution BIOS user, supervisor passwords, Kensington lock slot	
Dimensions and weight 6, 7	**Dimensions** • 357.78 (W) x 278.74 (D) x 24.90/26.90 (H) mm (14.09 x 10.97 x 0.98/1.06 inches) with Metal A Cover **Weight**	

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	2.6 kg (5.73 lbs.) with 4-cell battery pack 2.7 kg (5.95 lbs.) with 4-cell battery pack, miniLED display	
Power adapter and battery 8	**Power adapter** 3-pin 330 W 5.5 PHY AC adapter 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 **Battery** 90 Wh 4-cell Li-ion battery (for models with WQXGA Panel) Battery life: Up to 4 hours (based on video playback test results)	9
Input and control	**TouchPad** Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands - Microsoft Precision Touchpad certification - Moisture resistant - Corning® Gorilla® Glass **Keyboard** 103-/104-/107-key FineTip RGB Per-Key backlit keyboard, individual mini LED(s) under each keycap with independent standard numeric keypad, international language support **Control Keys** Mode Key	
Input and output	**USB Type-C** Two USB Type-C™ ports USB Type-C™ port supporting: - 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 **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 Ethernet (RJ-45) port HDMI® 2.1 port with HDCP support 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone microSD™ Card reader	

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	DC-in jack for AC adapter (Notes: USB Type-C (DC-in port 20V; 65W): 1. Charging slowly is an expected behavior. 2. Not claim Performance and Gaming Experience.)	
Windows Desktop Apps [10]	**Games** • Planet9 Stub (For Gaming) **In-House** • Acer Care Center • Acer Product Registration • PredatorSense • Quick Access **Tools** • Amazon Alexa	
Options and accessories	**Accessory** Thermal Deco	
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: 13th Gen Intel® Core™ i9, NVIDIA® GeForce RTX™ 4080, 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. *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.*
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.

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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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