



# A FORCE OF NATURE LIES WITHIN



## PREDATOR HELIOS 500

with 5<sup>th</sup> Gen AeroBlade™ 3D Cooling

+10% Airflow<sup>3</sup>

UP TO

**11<sup>TH</sup> GEN INTEL® CORE™ i9 PROCESSOR<sup>1</sup>**

WITH 5.0 GHZ<sup>1,2</sup> TURBO 8C/16T WITH PCIE GEN 4 SUPPORT

UP TO

**NVIDIA® GEFORCE RTX™ 3080 LAPTOP GPU<sup>1</sup>**

**17.3" 4K UHD (3840 X 2160) MINI LED<sup>1</sup>, 120HZ REFRESH**

**VORTEX FLOW AND POWERGEM™.1  
ADVANCED COOLING**

**IT LIES WITHIN. POWERED BY INTEL®.  
Intel® Core™ i9 Processor**

<sup>1</sup>Specifications may vary depending on model and/or region. All models subject to availability.  
<sup>2</sup>Includes the effect of Intel® Thermal Velocity Boost (Intel® TVB). Frequency gain and duration may vary depending on workload and other conditions.  
<sup>3</sup>Compared with 2020 4<sup>th</sup> Gen AeroBlade™ 3D Fan

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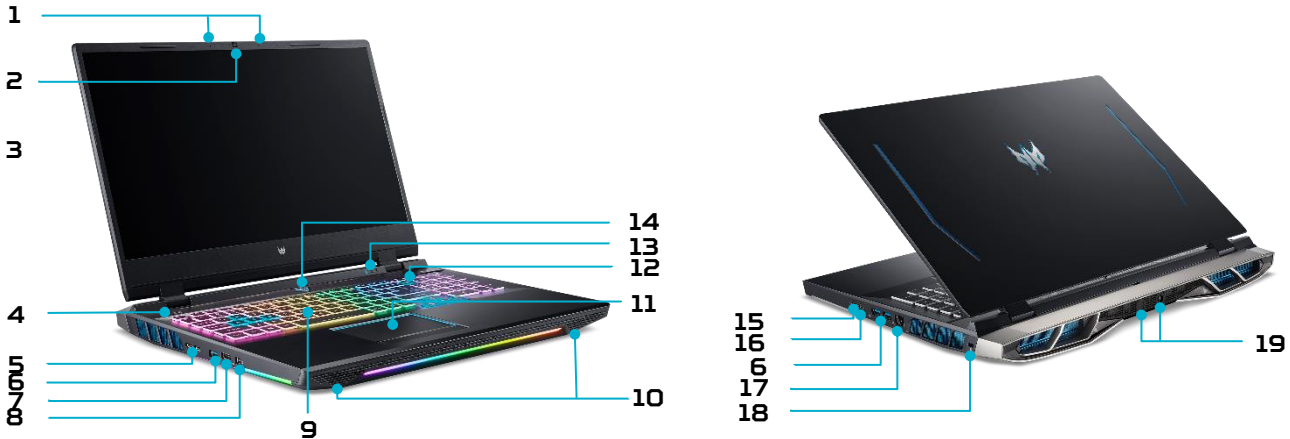
CORE

i9

# SPECIFICATIONS

# PREDATOR HELIOS 500

# PH517-52



<b>Product views</b>	<ol style="list-style-type: none"> <li>Microphones</li> <li>Webcam</li> <li>17.3" LCD display</li> <li>TURBO key</li> <li>Two USB Type-C™ ports (Thunderbolt™ 4)</li> <li>Three USB 3.2 Gen 2 ports with power-off charging</li> <li>HDMI 2.1 port</li> </ol>	<ol style="list-style-type: none"> <li>Mini DisplayPort™ 1.4</li> <li>Keyboard</li> <li>Speakers</li> <li>Touchpad</li> <li>PredatorSense key</li> <li>Hard drive indicator / Battery indicator / Power indicator</li> </ol>	<ol style="list-style-type: none"> <li>Power button</li> <li>Headphone/speaker jack</li> <li>Mic-in jack</li> <li>Ethernet (RJ-45) port</li> <li>Kensington lock slot</li> <li>Power connector (RTX 3080 sku: Dual DC-in ports / RTX 3070 sku: Single DC-in port)</li> </ol>
<b>Operating system<sup>1, 2</sup></b>	Windows 10 Home 64-bit		
<b>CPU and chipset<sup>1</sup></b>	Intel® Core™ i9-11980HK processor	Intel® Core™ i7-11800H processor	Mobile Intel® HMS70 PCH Chipset
<b>Memory<sup>1, 3, 4, 5</sup></b>	Dual-channel DDR4 SDRAM support: ● Up to 32 GB of DDR4 system memory, upgradable to 64 GB using two soDIMM modules		
<b>Display<sup>6</sup></b>	17.3" display with IPS (In-Plane Switching) technology, Ultra HD 3840 x 2160, high-brightness (SDR mode 480 nits / HDR mode 1000 nits), high color gamut (DCI-P3 100%), Acer ComfyView™ LED-backlit TFT LCD, integrated Mini LED technology. Supporting frame rate 120Hz and HDR 1000. ● 16:9 aspect ratio ● Wide viewing angle up to 170 degrees ● Mercury free, environment friendly	17.3" display with IPS (In-Plane Switching) technology, QHD 2560 x 1440, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz, 3 ms Overdrive ● 16:9 aspect ratio, DCI-P3 100% ● Wide viewing angle up to 170 degrees ● Ultra-slim design ● Mercury free, environment friendly	17.3" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 360 Hz, 3 ms Overdrive ● 16:9 aspect ratio, sRGB 100% ● Wide viewing angle up to 170 degrees ● Ultra-slim design ● Mercury free, environment friendly
<b>Graphics<sup>1, 7</sup></b>	● NVIDIA® GeForce® RTX™ 3080 with 8 GB or 16 GB of dedicated GDDR6 VRAM ● NVIDIA® GeForce® RTX™ 3070 with 8 GB of dedicated GDDR6 VRAM		
<b>Audio</b>	<ul style="list-style-type: none"> <li>DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes by smart amplifier</li> <li>Supported in Windows Spatial Sound for PC Gaming with DTS license integrated</li> <li>Immersive audio rendering over headphones and internal speakers</li> <li>Acer Purified.Voice technology with two built-in microphones. Features include far-field pickup, keystroke suppression, voice tracking, adaptive beam forming, voice recognition enhancement, three pre-defined modes: voice recognition, personal call, conference call</li> </ul>	<ul style="list-style-type: none"> <li>Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound</li> <li>Compatible with Cortana with Voice</li> <li>True 5.1 Channel Surround Sound with Subwoofer build in</li> </ul>	
<b>Storage<sup>1, 8</sup></b>	<b>Solid state drive:</b> ● 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe ● 1 TB / 2 TB, NVMe, RAID 0 SSD	<b>Hard disk drive</b> ● 1 TB 2.5-inch 7200 RPM ● 1 TB / 2 TB 2.5-inch 5400 RPM	
<b>Webcam<sup>1</sup></b>	<ul style="list-style-type: none"> <li>UFC with</li> <li>T-Type USB FHD camera</li> <li>Compatible with Windows</li> </ul>	<ul style="list-style-type: none"> <li>1920 x 1080 resolution</li> <li>1080p HD video at 60 fps with Temporal Noise Reduction</li> </ul>	<ul style="list-style-type: none"> <li>Dual Mic (33 mm x 33 mm)</li> <li>78 x 3.2 (5.2) x 3 mm</li> </ul>
<b>Wireless and networking<sup>1</sup></b>	<b>LAN:</b> <ul style="list-style-type: none"> <li>Killer™ Ethernet E3100G</li> <li>2.5G Ethernet</li> <li>Killer Control Center</li> <li>Lag and Latency Reduction™ Technology</li> <li>Advanced Stream Detect™ 2.0</li> <li>Killer DoubleShot™ Pro enabled</li> <li>GameFast™ Technology</li> </ul> <b>WLAN:</b> <ul style="list-style-type: none"> <li>Killer™ Wi-Fi 6 AX 1650i</li> <li>802.11 a/b/g/n/ac/ax wireless LAN</li> <li>Dual Band (2.4 GHz and 5 GHz)</li> <li>2x2 MU-MIMO technology</li> <li>Support Bluetooth® 5.1</li> </ul>	<b>WWAN:</b> <ul style="list-style-type: none"> <li>5G NR Sub6: n1/n2/n3/n5/n7/n8/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79</li> <li>LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71</li> <li>LTE TDD: B34/B39/B39/B40/B41/B42/B43/B46/B48</li> <li>WCDMA/HSPA+: B1/B2/B4/B5/B8</li> <li>SA 5G/NR Sub6: Maximum download 4.67 Gbps, upload 1.25 Gbps</li> <li>NSA 5G/NR Sub6: Maximum download 3.74 Gbps, upload 700 Mbps</li> <li>LTE: Maximum download 1.6 Gbps, upload 150 Mbps</li> <li>UMTS: Maximum download 384 Kbps, upload 384 Kbps</li> <li>DC-HSPA+: Maximum download 42 Mbps, upload 11.5 Mbps</li> <li>Support Text Message (SMS)</li> <li>Support eSIM</li> </ul>	
<b>Security</b>	Firmware Trusted Platform Module (TPM) solution	BIOS user, supervisor, HDD passwords	Kensington lock slot
<b>Dimensions and weight<sup>9, 10</sup></b>	<b>Dimensions:</b> 400 (W) x 319.2 (D) x 35.3 (H) mm (15.75 x 12.57 x 1.39 inches) <b>Weight:</b> 3.9 kg (8.6 lbs.) with 4-cell battery pack		
<b>Power adapter and battery<sup>11</sup></b>	<b>Power adapter:</b> ● 3-pin 330 W 5.5 PHY AC adapter	<b>Battery:</b> 74 Wh 4-cell Li-ion battery Up to 4 hours (based on MobileMark® 2014 test results)	
<b>Input and control</b>	<b>Keyboard:</b> 103-/104-/107-key FineTip RGB Per-Key backlit keyboard, individually Linear Switch MagForce replaceable keys in WASD with independent standard numeric keypad, international language support <b>Touchpad:</b> Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands <ul style="list-style-type: none"> <li>Microsoft Precision Touchpad certification</li> <li>Moisture resistant</li> </ul> <b>Control Keys</b> Turbo Key <ul style="list-style-type: none"> <li>Planet9</li> <li>PredatorSense</li> </ul>		
<b>Windows Desktop Apps<sup>12</sup></b>	<ul style="list-style-type: none"> <li>Acer Care Center</li> <li>Acer Product Registration</li> </ul>		
<b>Warranty</b>	One-year International Travelers Warranty (ITW)		
1.	Specifications vary depending on model.	8.	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.
2.	64-bit software is required to enjoy the advantages of 64-bit processing.	9.	Minor variations in system dimensions are possible due to the manufacturing process.
3.	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.	10.	Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
4.	Memory speed may vary, depending on the CPU, chipset or memory fitted.	11.	Listed battery life is based on MobileMark 2014® productivity mode testing with wireless on. Details of MobileMark 2014 testing are available at www.bapco.com. Battery life rating is for comparison purposes only. Actual battery life varies by model, configuration, application, power management settings, operating conditions, and features used. A battery's maximum capacity decreases with time and use.
5.	A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.	12.	Bundled software may vary depending on hardware configuration, OS and regional availability.
6.	All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.		
7.	Not all features indicated are supported on all SKUs		

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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## About Acer

Founded in 1976, Acer is one of the world's top ICT companies with a presence in more than 160 countries. As Acer evolves with the industry and changing lifestyles, it is focused on enabling a world where hardware, software and services will fuse with one another, creating ecosystems and opening up new possibilities for consumers and businesses alike. Acer's 7,500 employees are dedicated to the research, design, marketing, sale, and support of products and solutions that break barriers between people and technology. Please visit [www.acer.com](http://www.acer.com) for more information.