PREDATOR Helios 300

PH315-52

Windows 10

intel CORE i7 9th Gen

intel CORE i5 9th Gen

NVIDIA Overclockable GeForce RTX™ 2060

NVIDIA Overclockable GeForce GTX 1660Ti

144Hz 3ms High Refresh Display with Overdrive

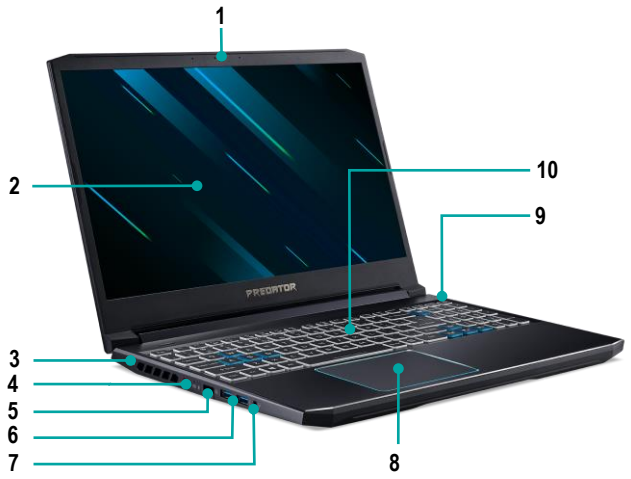
4th Gen AeroBlade™ 3D Technology

HDD +SSD Dual SSD + One HDD

Killer DoubleShot™ Pro

4 Zone RGB Keyboard

SPECIFICATIONS — **PREDATOR** HELIOS 300 — PH315-52



Product views	**1.** Webcam and microphones **2.** 15.6" LCD display **3.** Kensington lock slot **4.** Power connector (DC-in)	**5.** Ethernet (RJ-45) port **6.** Two USB 3.1 Gen 1 ports **7.** Headset/speaker jack **8.** Touchpad	**9.** Power button **10.** Backlit keyboard **11.** USB Type-C™ port (USB 3.1 Gen 1)	**12.** USB 3.1 Gen 2 port with power-off charging **13.** Mini DisplayPort™ **14.** HDMI® port
Operating system[1, 2]	Windows 10 Home 64-bit			
CPU and chipset[1]	**Intel® Core™ i7-9750H** processor **Intel® Core™ i5-9300H** processor **Intel® Core™ i7-8750H** processor		**Intel® Core™ i5-8300H** processor **Intel® HM370** Mobile PCH chipset	
Memory[1, 3, 4, 5]	Dual-channel DDR4 SDRAM support: • Up to 16 GB of DDR4 system memory, upgradable to 32 GB using two soDIMM modules			
Display[6]	15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 144 Hz, 3 ms Overdrive • 16:9 aspect ratio, NTSC 72% • Wide viewing angle up to 170 degrees • Ultra-slim design • Mercury free, environment friendly	15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD • 16:9 aspect ratio, NTSC 72% • Wide viewing angle up to 170 degrees • Slim and narrow border design • Mercury free, environment friendly	15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, Acer ComfyView™ LED-backlit TFT LCD • 16:9 aspect ratio • Wide viewing angle up to 170 degrees • Ultra-slim design • Mercury free, environment friendly	
Graphics[1,]	**NVIDIA® GeForce RTX™ 2060** with 6 GB of dedicated GDDR6 VRAM		**NVIDIA® GeForce® GTX 1660 Ti** with 6 GB of dedicated GDDR6 VRAM	
Audio	• Waves MaxxAudio® sound technology • Acer Purified.Voice technology with two built-in microphones • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound		• Compatible with Cortana with Voice • Certified for Skype for Business • Two built-in stereo speakers	
Storage[1, 7]	**Solid state drive:** • 256 GB / 512 GB / 1 TB / 2 TB, 2D NVMe, RAID 0 SSD • 128 GB / 256 GB / 512 GB / 1 TB, PCIe Gen 3, 8 Gb/s up to 4 lanes, NVMe		**Hard disk drive:** • Optional 2nd HDD: 1 / 2 TB, 2.5-inch 5400 RPM or 1 TB, 2.5-inch 7200 RPM	
Webcam[1]	HD webcam with 1280 x 720 resolution, 720p HD audio/video recording and Super high dynamic range imaging (SHDR)			
Wireless and networking[1]	**WLAN:** • Killer Wi-Fi 6 AX1650 • 802.11 a/b/g/n+acR2+ax (Pre-Standard) wireless LANDual Band (2.4 GHz and 5 GHz) • 2x2 MU-MIMO technology • Support Bluetooth® 5.0	**WLAN:** • Killer™ Wireless-AC 1550 / 1550i • 802.11a/b/g/n/ac wireless LAN • Dual Band (2.4 GHz and 5 GHz) • 2x2 MU-MIMO technology Support Bluetooth® 5.0	**LAN:** • Killer™ Ethernet E2500 • Gigabit Ethernet • Wake-on-LAN ready	
Privacy control[1]	BIOS user, supervisor, HDD passwords Kensington lock slot			
Dimensions and weight[8, 9]	**Dimensions:** 361.4 (W) x 254.15 (D) x 22.9 (H) mm (14.23 x 10.01 x 0.9 inches) **Weight:** • 2.4 kg (5.29 lbs.) with 4-cell battery pack, one hard drive and one SSD • 2.3 kg (5.07 lbs.) with 4-cell battery pack, one SSD			
Power adapter and battery[10]	**Power adapter:** 3-pin 180 W AC adapter **Battery:** 58.7 Wh 3815 mAh 15.4 V 4-cell Li-ion battery pack Battery life up to 6 hours			
Input and control	**Control Keys:** Turbo key **Keyboard:** 103-/104-/107-key FineTip RGB-backlit keyboard with independent standard numeric keypad, international language support		**Touchpad:** Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands • Microsoft Precision Touchpad certification • Moisture resistant	
Windows Desktop Apps[11]	• PredatorSense • Acer Product Registration		• Acer Collection Quick Access	
Warranty	One-year International Travelers Warranty (ITW)			

1. Specifications vary depending on model.
2. 64-bit software is required to enjoy the advantages of 64-bit processing.
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.
4. Memory speed may vary, depending on the CPU, chipset or memory fitted.
5. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.
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. 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.
8. Minor variations in system dimensions are possible due to the manufacturing process.
9. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
10. 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.
11. 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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