PREDATOR

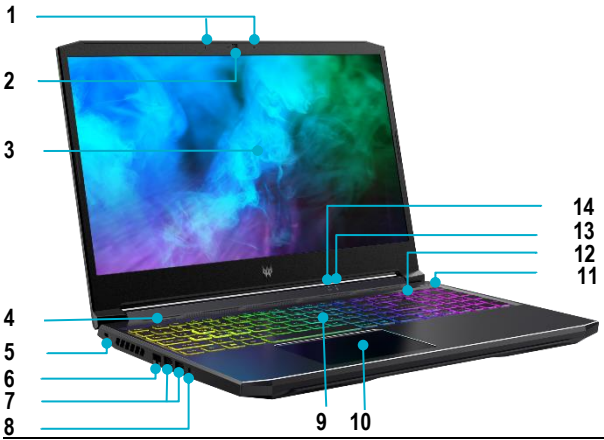
PREDATOR HELIOS 300

Windows 11
Windows 10

intel CORE i9
intel CORE i7
intel CORE i5

- AeroBlade™ 3D Fan & CoolBoost™ Technology
- Killer DoubleShot™ Pro
- PredatorSense™ Utility APP
- 4 Zone RGB Keyboard
- Available Slots for 2X SSD + 1 HDD
- HDMI 2.1

SPECIFICATIONS PREDATOR HELIOS 300 PH315-54



Product views

1. Microphones
2. Webcam
3. 15.6" LCD display
4. TURBO key
5. Kensington lock slot
6. Ethernet (RJ-45) port
7. USB 3.2 Gen 1 ports
8. Headset/speaker jack
9. Keyboard
10. Touchpad
11. Power button
12. PredatorSense key
13. Power indicator
14. Battery indicator
15. USB Type-C™ port (Thunderbolt™ 4)
16. USB 3.2 Gen 2 port with power-off charging
17. HDMI® 2.1 port
18. Mini DisplayPort™
19. Power connector (DC-in)

Operating system[1, 2]

Windows 11 Home

Windows 10 Home 64-bit

CPU and chipset[1]

Intel® Core™ i9-11900H processor

Intel® Core™ i7-11800H processor

Intel® Core™ i5-11400H processor

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

Memory Frequency : Up to 3200 MT/s
(Notes: According to Intel POR, 3200Mhz is supported on TGL platform)

Display[6]

15.6" 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

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 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

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, Acer ComfyView™ LED-backlit TFT LCD

- 16:9 aspect ratio, supporting 144 Hz refresh rate
- Wide viewing angle up to 170 degrees
- Ultra-slim design
- Mercury free, environment friendly

Graphics[1, 7]

- **NVIDIA® GeForce RTX™ 3070** with 8 GB of dedicated GDDR6 VRAM(Boost Clock:1390Mhz, Maximum Graphics Power(W):110W)
- **NVIDIA® GeForce RTX™ 3060** with 6 GB of dedicated GDDR6 VRAM(Boost Clock:1525Mhz, Maximum Graphics Power(W):105W)
- **NVIDIA® GeForce RTX™ 3050 Ti**

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 dual built-in microphones. Features include far-field pickup, keystroke suppression, 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[4, 8]

Solid state drive:

- 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe
- 512 GB / 1 TB / 2 TB, NVMe, RAID 0 SSD

Hard disk drive

- 1 TB 2.5-inch 7200 RPM
- 1 TB / 2 TB 2.5-inch 5400 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 AX 1650i
- 802.11 a/b/g/n+acR2+ax wireless LAN
- Dual Band (2.4 GHz and 5 GHz)
- 2x2 MU-MIMO technology
- Support Bluetooth® 5.1

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, HDD passwords
Kensington lock slot

Dimensions and weight[9, 10]

Dimensions: 363 (W) x 255 (D) x 22.9 (H) mm (14.29 x 10.04 x 0.9 inches)
Weight: 2.3 kg (5.07 lbs.) with 4-cell battery pack, Full HD display

Power adapter and battery[11, 12]

Power adapter:

- 3-pin 230 W 5.5 PHY AC adapter
- 3-pin 180 W AC adapter

Battery: 59 Wh 4-cell Li-ion battery
Battery life up to 6 hours (based on video playback test results)

Input and control

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

Control Keys
Turbo Key

Windows Desktop Apps[13]

- Planet9
- PredatorSense
- Acer Care Center
- Acer Product Registration

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 memoryused 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. Not all features indicated are supported on all SKUs
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.
9. Minor variations in system dimensions are possible due to the manufacturing process.
10. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
11. 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: 11th Gen Intel® Core™ i7, NVIDIA® GeForce RTX™ 3070, FHD, HDD + SSD, 8GB of DDR4 memory. Battery life test condition: LCD brightness 150 nits, connected headphones, WLAN off, Bluetooth off and Better Battery Mode on.
12. 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.
13. 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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