

# acer



## NITRO 5



90W battery



NitroSense



Killer  
DoubleShot  
™ Pro



Double Fan  
Quad Exhaust  
Port



Full-Function  
Thunderbolt 4



HDMI port

# SPECIFICATIONS

# NITRO 5



<b>Product views</b>	1. Microphones 2. Webcam 3. Kensington lock slot 4. Ethernet (RJ-45) port 5. USB 3.2 Gen 1 port 6. Headset/speaker jack	7. Keyboard 8. Touchpad 9. Power button 10. 17.3" LCD display 11. Battery indicator 12. Power indicator	13. USB 3.2 Gen 2 port with power-off charging 14. USB 3.2 Gen 2 port 15. Power connector (DC-in) 16. USB Type-C™ port (USB 3.2 Gen 2) (Thunderbolt™ 4) 17. HDMI® port
<b>Operating system<sup>1</sup></b>	Windows 11 Home		
<b>CPU and chipset<sup>1</sup></b>	Intel® Core™ i7-12700H processor		Intel® Core™ i5-12500H processor
<b>Memory<sup>1, 2, 3, 4</sup></b>	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)		
<b>Display<sup>5</sup></b>	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 165 Hz, 3 ms Overdrive ● 16:9 aspect ratio, sRGB 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 144 Hz and 3 ms Overdrive ● 16:9 aspect ratio, NTSC 72% ● Wide viewing angle up to 170 degrees ● Ultra-slim design ● Mercury free, environment friendly
<b>Graphics<sup>1, 6</sup></b>	NVIDIA® GeForce® RTX™ 3070 Ti with 8 GB of dedicated GDDR6 VRAM NVIDIA® GeForce® RTX™ 3070 with 8 GB of dedicated GDDR6 VRAM NVIDIA® GeForce® RTX™ 3060 with 6 GB of dedicated GDDR6 VRAM		NVIDIA® GeForce® RTX™ 3050 Ti NVIDIA® GeForce RTX™ 3050
<b>Audio</b>	● 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 ● Compatible with Cortana with Voice ● Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound		
<b>Storage<sup>1, 7</sup></b>	<b>Solid state drive</b> ● 512 GB / 1 TB / 2 TB, NVMe, RAID 0 SSD ● 256 GB / 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe		
<b>Webcam<sup>1</sup></b>	<b>Video conferencing : UFC with</b> ● Narrow USB HD camera ● Compatible with Windows ● 1280 x 720 resolution	● 720p HD video at 30 fps with Temporal Noise Reduction ● Blue Glass lens ● Dual Mic (33 mm + 33 mm) ● 86 x 3.2 x 2.6 mm	
<b>Wireless and networking<sup>1</sup></b>	<b>WLAN</b> ● Killer™ Wi-Fi 6 AX 1650i ● 802.11 a/b/g/n/ac/ax wireless LAN ● Dual Band (2.4 GHz and 5 GHz) ● 2x2 MU-MIMO technology ● Supports Bluetooth® 5.1	<b>LAN</b> ● Killer™ Ethernet E2600 ● 10/100/1000 Mbps ● Hibernation mode support ● Wake On Lan support ● IPv4 and IPv6 support	
<b>Security</b>	● Firmware Trusted Platform Module (TPM) solution ● BIOS user, supervisor passwords ● Kensington lock slot		
<b>Dimensions and weight<sup>8, 9</sup></b>	<b>Dimensions:</b> ● 400.5 (W) x 294.48 (D) x 27.85/28.6 (H) mm (15.77 x 11.59 x 1.1/1.13inches) with Plastic A Cover	<b>Weight:</b> ● 3 kg (6.61 lbs.) with 4-cell battery pack	
<b>Power adapter and battery<sup>10</sup></b>	<b>Power adapter:</b> ● 3-pin 330 W 5.5 PHY AC adapter ● 3-pin 280 W 5.5 PHY AC adapter ● 3-pin 230 W 5.5 PHY AC adapter ● 3-pin 180 W AC adapter	<b>Battery:</b> ● 90 Wh 4-cell Li-ion battery	
<b>Input and control</b>	<b>Keyboard:</b> 103-/104-/107-key FineTip RGB-backlit keyboard with independent standard numeric keypad, international language support 103-/104-/107-key FineTip backlit keyboard with independent standard numeric keypad, international language support and power button <b>Touchpad:</b> Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands ● Microsoft Precision Touchpad certification ● Moisture resistant		
<b>Windows Desktop Apps<sup>11</sup></b>	<b>In-House</b> ● Acer Care Center ● Acer Configuration Manager	● Acer Product Registration ● NitroSense ● Quick Access	
<b>Warranty</b>	One-year International Travelers Warranty (ITW)		
1.	Specifications vary depending on model.	8.	Minor variations in system dimensions are possible due to the manufacturing process.
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.	9.	Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
3.	Memory speed may vary, depending on the CPU, chipset or memory fitted.	10.	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.
4.	A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.	11.	Bundled software may vary depending on hardware configuration, OS and regional availability.
5.	All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.		
6.	Not all features indicated are supported on all SKUs.		
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.		

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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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.