



Nitro AN17-51 Specifications (v9-0-9)			
Category		Description	Footnotes
Operating system	1	Windows 11 Home	
CPU and chipset	1	<p><b>Intel® Core™ i7-13700H</b> processor (24 MB Smart Cache, 2.4 GHz Performance-core with Intel® Turbo Boost Max Technology 3.0 up to 5.0 GHz), supporting hybrid core architecture with Performance-core and Efficient-core</p> <p><b>Intel® Core™ i5-13500H</b> processor (18 MB Smart Cache, 2.6 GHz Performance-core with Intel® Turbo Boost Technology 2.0 up to 4.7 GHz), supporting hybrid core architecture with Performance-core and Efficient-core</p>	
Memory	1, 2, 3	<p>Dual-channel DDR5 SDRAM support</p> <ul style="list-style-type: none"> <li>Up to 32 GB of DDR5 system memory</li> </ul> <p>Memory Frequency : Up to 4800 MT/s</p>	
Display		<p>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, Grey to Grey 3 ms by Overdrive, Nvidia Advanced Optimus capable.</p> <p>16:9 aspect ratio, DCI-P3 100%</p> <p>Wide viewing angle up to 170 degrees</p> <p>Ultra-slim design</p> <p>Mercury free, environment friendly</p>	4
		<p>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, and G-Sync function.</p> <p>16:9 aspect ratio, sRGB 100%</p> <p>Wide viewing angle up to 170 degrees</p> <p>Ultra-slim design</p> <p>Mercury free, environment friendly</p>	4
		<p>17.3" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, Acer ComfyView™ LED-backlit TFT LCD</p> <p>16:9 aspect ratio, supporting 144 Hz refresh rate</p> <p>Wide viewing angle up to 170 degrees</p> <p>Ultra-slim design</p> <p>Mercury free, environment friendly</p>	4
Graphics	1	<p><b>NVIDIA® GeForce RTX™ 4060</b> with 8GB of dedicated GDDR6 VRAM,</p> <p><b>NVIDIA® GeForce RTX™ 4050</b> with 6GB of dedicated GDDR6 VRAM,</p> <p><b>NVIDIA® GeForce® RTX™ 3050</b> with 6 GB of dedicated GDDR6 VRAM</p>	

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<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>• High SNR DAC with 2.1 Vrms out capability and can driver high impedance headphone (up to 600 ohm)</li> <li>• 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.</li> <li>• Compatible with Cortana with Voice</li> <li>• Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound</li> </ul>
<b>Storage</b>		<b>Solid state drive</b> <ul style="list-style-type: none"> <li>• 1 TB / 2 TB, NVMe, RAID 0 SSD</li> <li>• 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe</li> </ul>
<b>Webcam</b>	1	<b>Video conferencing</b> UFC with <ul style="list-style-type: none"> <li>• Narrow USB HD camera</li> <li>• Compatible with Windows</li> <li>• 1280 x 720 resolution</li> <li>• 720p HD video at 30 fps with Temporal Noise Reduction</li> <li>• Blue Glass lens</li> <li>• Dual Mic (33 mm + 33 mm)</li> <li>• 86 x 3.2 x 2.6 mm</li> </ul>
<b>Wireless and networking</b>	1	<b>WLAN</b> <ul style="list-style-type: none"> <li>• Killer™ Wi-Fi 6 AX 1650i</li> <li>• 802.11 a/b/g/n+acR2+ax wireless LAN</li> <li>• Dual Band (2.4 GHz and 5 GHz)</li> <li>• 2x2 MU-MIMO technology</li> <li>• Supports Bluetooth® 5.1 or above</li> </ul> <b>LAN</b> <ul style="list-style-type: none"> <li>• Killer™ Ethernet E2600</li> <li>• 10/100/1000 Mbps</li> <li>• Hibernation mode support</li> <li>• Wake On Lan support</li> <li>• IPv4 and IPv6 support</li> </ul>
<b>Privacy control</b>	1	BIOS user, supervisor
<b>Security</b>		Firmware Trusted Platform Module (TPM) solution Kensington lock
<b>Dimensions and weight</b>	6, 7	<b>Dimensions</b> <ul style="list-style-type: none"> <li>• 400.2 (W) x 293.25 (D) x 27.9/28.9 (H) mm (15.76 x 11.55 x 1.1/1.14 inches)</li> </ul>

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		<p><b>Weight</b></p> <ul style="list-style-type: none"> <li>• 3.0 kg (6.61 lbs.) with 4-cell battery pack, solid state drive</li> </ul>
<b>Power adapter and battery</b>	8	<p><b>Power adapter</b></p> <p>3-pin 330 W 5.5 PHY AC adapter</p> <ul style="list-style-type: none"> <li>• 185.0 (W) x 85.0 (D) x 36.0 (H) mm (7.28 x 3.35 x 1.42 inches)</li> <li>• 1050 g (2.31 lbs.) with 180 cm DC cable</li> <li>• 180.0 (W) x 82.0 (D) x 38.5 (H) mm (7.09 x 3.23 x 1.52 inches)</li> <li>• 1233 g (2.70 lbs.) with 180 cm DC cable</li> </ul> <p>3-pin 230 W 5.5 PHY AC adapter</p> <ul style="list-style-type: none"> <li>• 155 (W) x 75 (D) x 30 (H) mm (6.10 x 2.95 x 1.18 inches)</li> <li>• 700 g (1.52 lbs) with 180 cm DC cables</li> </ul> <p><b>Battery</b></p> <ul style="list-style-type: none"> <li>• 90 Wh 4-cell Li-ion battery</li> </ul> <p>(for models with QHD + SSD)</p> <p>Battery life:</p> <p>Up to 7 hours (based on video playback test results)</p> <ul style="list-style-type: none"> <li>• 57 Wh 4-cell Li-ion battery</li> </ul> <p>(for models with QHD + SSD)</p> <p>Battery life:</p> <p>Up to 5 hours (based on video playback test results)</p> <p>(Notes: RTX3050 SKU with battery 57Wh.  RTX4050/4060 SKU with battery 90Wh.  RTX3050/4050 SKU with 230W adapter.  RTX4060 SKU with 330W adapter.)</p>
<b>Input and control</b>		<p><b>Keyboard</b></p> <p>103-/104-/107-key FineTip RGB-backlit keyboard with independent standard numeric keypad, international language support</p> <p><b>TouchPad</b></p> <p>Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands</p> <ul style="list-style-type: none"> <li>• Microsoft Precision Touchpad certification</li> <li>• Moisture resistant</li> </ul> <p><b>Control Keys</b></p> <p>Mode Key</p>
<b>Input and output</b>		<p><b>USB Type-C</b></p> <p>USB Type-C™ port supporting:</p> <ul style="list-style-type: none"> <li>• USB 3.2 Gen 2x2 (up to 20 Gbps)</li> <li>• DisplayPort over USB-C</li> <li>• Thunderbolt™ 4</li> <li>• USB charging 5 V; 3 A</li> <li>• DC-in port 20 V; 65 W</li> </ul> <p>USB Type-C™ port, supporting:</p> <ul style="list-style-type: none"> <li>• USB 3.2 Gen 2 (up to 10 Gbps)</li> <li>• DisplayPort over USB-C</li> </ul>

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	<ul style="list-style-type: none"> <li>• USB charging 5 V; 3 A</li> <li>• DC-in port 20 V; 65 W</li> </ul> <p><b>USB Standard A</b></p> <p>Three USB Standard-A ports, supporting:</p> <ul style="list-style-type: none"> <li>• One port for USB 3.2 Gen 1</li> <li>• One port for USB 3.2 Gen 2</li> <li>• One port for USB 3.2 Gen 2 featuring power off USB charging</li> </ul> <p>HDMI<sup>®</sup> 2.1 port with HDCP support</p> <p>Ethernet (RJ-45) port</p> <p>microSD<sup>™</sup> Card reader</p> <p>3.5 mm headphone/speaker jack, supporting headsets with built-in microphone</p> <p>DC-in jack for AC adapter</p> <p>(Notes: USB Type-C (DC-in port 20V; 65W):</p> <ol style="list-style-type: none"> <li>1. TypeC 65W charging can achieve minimum usage.</li> <li>2. Charging slowly is an expected behavior.</li> <li>3. Not claim Performance and Gaming Experience.)</li> </ol> <p>1x USB Type-C (USB3.2 / DP / PD / Gsync) is supported G-sync output.</p> <p>1x Thunderbolt port (USB3.2 / DP / PD / Thunderbolt) is not support G-sync output.)</p>	
<p><b>Software</b></p> <p>10</p>	<p><b>Games</b></p> <ul style="list-style-type: none"> <li>• Planet9 Stub (For Gaming)</li> </ul> <p><b>In-House</b></p> <ul style="list-style-type: none"> <li>• Acer Care Center</li> <li>• Acer Product Registration</li> <li>• NitroSense</li> <li>• Quick Access</li> </ul>	
<p><b>Warranty</b></p>	<p>One-year International Travelers Warranty (ITW)</p>	
<ol style="list-style-type: none"> <li>1. Specifications vary depending on model.</li> <li>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.</li> <li>3. Memory speed may vary, depending on the CPU, chipset or memory fitted.</li> <li>4. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.</li> <li>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.</li> <li>6. Minor variations in system dimensions are possible due to the manufacturing process.</li> <li>7. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.</li> <li>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</li> </ol>		

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features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: 13th Gen Intel® Core™ i7, NVIDIA® GeForce RTX™ 4060, QHD, 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.

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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# Appendix

## v9-0-9 (Ver. 2)

Wireless and networking

Software

Security

Input and output (Notes Changed)

Power adapter and battery and Battery's footnote