



Nitro ANV17-I31 Specifications (v3-0-3)		
Category	Description	Footnotes
Operating system 1	Windows 11 Home	
CPU and chipset 1	Intel® Core™ 9 processor 270H (24 MB Smart Cache, 2.7 GHz Compute Base Core Frequency with Intel® Turbo Boost Max Technology 3.0 up to 5.8 GHz), supporting hybrid core architecture with Performance-core and Efficient-core Intel® Core™ 7 processor 240H (24 MB Smart Cache, 2.5 GHz Compute Base Core Frequency with Intel® Turbo Boost Max Technology 3.0 up to 5.2 GHz), supporting hybrid core architecture with Performance-core and Efficient-core Intel® Core™ 5 processor 210H (12 MB Smart Cache, 2.2 GHz Compute Base Core Frequency with Intel® Turbo Boost Technology 2.0 up to 4.8 GHz), supporting hybrid core architecture with Performance-core and Efficient-core	
Memory 1, 2, 3	Dual-channel DDR5 SDRAM support Up to 16 GB of DDR5 system memory, upgradable to 32 GB using two soDIMM modules Memory Frequency : Up to 5600 MT/s (Notes: (Notes: 1. Only Processor SKU Core 9/7 can reach memory speed 5600 MT/s ; Processor SKU Core 5 memory speed is 5200 MT/s)	
Display	17.3" 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	4
Graphics 1	NVIDIA® GeForce RTX™ 5070 with 8 GB of dedicated GDDR7 VRAM, supporting 4608 NVIDIA® CUDA® Cores. - AI TOPs: 798 - GPU subsystem power(W): 50 - 100W - Boost Clock(GHz):1425 - 2347Mhz - VRAM: 8GB - Memory interface Width:128-bit - NVIDIA Architecture:Blackwell - Ray Tracing Cores: Fourth Generation - Tensor Cores: Fifth Generation - NVIDIA DLSS: DLSS4 - NVIDIA Reflex: Reflex 2	

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	• NVIDIA Broadcast • PCIE Express Gen5 • Resizable Bar • NVIDIA App • NVIDIA Ansel • NVIDIA FreeStyle • NVIDIA ShadowPlay • NVIDIA Highlights • NVIDIA G-sync® • Game Ready Drivers • NVIDIA Studio Drivers • NVIDIA Omniverse • RTX Remix • Microsoft DirectX® 12 Ultimate • NVIDIA GPU Boost™ • Vulkan RT API, OpenGL 4.6 • Support HDMI(2) • Support DisplayPort(3) • NVIDIA Encoder: 1x Ninth Generation • NVIDIA Decoder: 1x Sixth Generation • CUDA Capability: 12.8 NVIDIA® GeForce RTX™ 5060 with 8 GB of dedicated GDDR7 VRAM, supporting 3328 NVIDIA® CUDA® Cores. • AI TOPs: 572 • GPU subsystem power(W): 45 - 100W • Boost Clock(GHz):1455 - 2497Mhz • VRAM: 8GB • Memory interface Width:128-bit • NVIDIA Architecture:Blackwell • Ray Tracing Cores: Fourth Generation • Tensor Cores: Fifth Generation • NVIDIA DLSS: DLSS4 • NVIDIA Reflex: Reflex 2 • NVIDIA Broadcast • PCIE Express Gen5 • Resizable Bar • NVIDIA App • NVIDIA Ansel • NVIDIA FreeStyle • NVIDIA ShadowPlay • NVIDIA Highlights • NVIDIA G-sync® • Game Ready Drivers • NVIDIA Studio Drivers	

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- NVIDIA Omniverse
- RTX Remix
- Microsoft DirectX® 12 Ultimate
- NVIDIA GPU Boost™
- Vulkan RT API, OpenGL 4.6
- Support HDMI(2)
- Support DisplayPort(3)
- NVIDIA Encoder: 1x Ninth Generation
- NVIDIA Decoder: 1x Sixth Generation
- CUDA Capability: 12.8

NVIDIA® GeForce RTX™ 5050 with 8 GB of dedicated GDDR7 VRAM, supporting 2560 NVIDIA® CUDA® Cores.

- AI TOPs: 440
- GPU subsystem power(W): 35 - 100W
- Boost Clock(GHz):1455 - 2497Mhz
- VRAM: 8GB
- Memory interface Width:128-bit
- NVIDIA Architecture:Blackwell
- Ray Tracing Cores: Fourth Generation
- Tensor Cores: Fifth Generation
- NVIDIA DLSS: DLSS4
- NVIDIA Reflex: Reflex 2
- NVIDIA Broadcast
- PCIE Express Gen5
- Resizable Bar
- NVIDIA App
- NVIDIA Ansel
- NVIDIA FreeStyle
- NVIDIA ShadowPlay
- NVIDIA Highlights
- NVIDIA G-sync®
- Game Ready Drivers
- NVIDIA Studio Drivers
- NVIDIA Omniverse
- RTX Remix
- Microsoft DirectX® 12 Ultimate
- NVIDIA GPU Boost™
- Vulkan RT API, OpenGL 4.6
- Support HDMI(2)
- Support DisplayPort(3)
- NVIDIA Encoder: 1x Ninth Generation
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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 • High SNR DAC with 2.1 Vrms out capability and can driver high impedance headphone (up to 600 ohm) • 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. • Compatible with Cortana with Voice • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound • Hi-Res Audio Certification by JAS (Headphone Output setting supported up to 24bit /192KHz)	
Storage	Solid state drive • 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe	1, 5
Webcam 1	Video conferencing UFC with • USB FHD Camera • Compatible with Chromebook only • 1920 x 1080 resolution • 1080p video with Temporal Noise Reduction • 86 x 3.2 (4.2) x 3 mm • Blue glass lens • Dual Mic (33 mm + 33 mm)	
Wireless and networking 1	LAN • Killer™ Ethernet E2600 • 10/100/1000 Mbps • Hibernation mode support • Wake On Lan support • IPv4 and IPv6 support WLAN • Wi-Fi 6 Wireless LAN • 802.11a/b/g/n/ac+ax • Dual Band (2.4 GHz and 5 GHz) • 2x2 MU-MIMO technology WPAN Supports Bluetooth® 5.4 or above	
Security	Firmware Trusted Platform Module (TPM) solution BIOS user, supervisor passwords, Kensington lock slot	1
Color options		

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Dimensions and weight	6, 7	Dimensions • 400.36 (W) x 258.13 (D) x 23.5/14.34 (H) mm (15.76 x 10.16 x 0.93/0.56 inches) with Plastic A Cover Weight • 2.5 kg (5.51 lbs.) with 4-cell battery pack, Full HD display
Power adapter and battery	8, 9	Power adapter 3-pin 135 W 5.5 PHY PCR 50% AC adapter • 19.5 V / 6.92 A as output power • 138.0 (W) x 68.5 (D) x 24.5 (H) mm • 340 g ± 10%, with 180 cm DC cable • Black color with Acer logo • Brick - type AC pins Battery • 76 Wh 4-cell Li-ion battery • For models with Full HD Panel + SSD Battery life: Up to 4 hours (based on MobileMark® 2030 test results) Up to 8 hours (based on video playback test results) Up to 6 hours (based on web browsing test results) (Notes: GN22 SKU support 76Wh battery : Video playback : Core C9-270H+ RTX 5070+2TB SSD+ MEM 16GBx2(DDR5) + 144Hz NTSC45% FHD : 8HR Web browsing : Core C7-270H+ RTX 5070+2TB SSD+ MEM 16GBx2(DDR5) + 144Hz NTSC45% FHD : 6HR)
Input and control		TouchPad Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands • Microsoft Precision Touchpad certification • Moisture resistant Keyboard Acer RGB-backlit keyboard (US 99-key / UK 100-key) with international language support, dedicated NitroSense and Copilot keys, plus Caps Lock and F4/microphone-mute indicators. Control Keys Nitro Sense Key Programmable key – my key Copilot Key
Input and output		USB Type-C USB Type-C™ port supporting: • USB 3.2 Gen 1 (up to 5 Gbps) • DisplayPort 1.4 over USB-C via dGPU • Thunderbolt™ 4 • USB charging 5 V; 3 A • DC-in port 20 V; 65 or 100 W

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		USB Standard A Three USB Standard-A ports, supporting: • One port for USB 3.2 Gen 1 featuring power off USB charging • Two ports for USB 3.2 Gen 1 HDMI® 2.1 port with HDCP support 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone Ethernet (RJ-45) port DC-in jack for AC adapter (Notes: (Notes: (Notes: (Notes: USB Type-C port (DC-in port 20 V; 65W): 1. Type-C 65W charging can achieve minimum usage. 2. Charging slowly is an expected behavior. 3. Not claim Performance and Gaming Experience.) 4. Not claim extend Dock/2K4K Monitor) 5. Need to charge with the standard DC-IN AC adapter for 0% battery capacity)))
Windows Desktop Apps	11	In-House • Acer ORD Service • Acer QuickPanel • NitroSense V5 (NB) Tools • Acer My Key Application
Warranty		One-year International Travelers Warranty (ITW)
1. Specifications vary depending on model. 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. 3. Memory speed may vary, depending on the CPU, chipset or memory fitted. 4. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products. 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. 6. Minor variations in system dimensions are possible due to the manufacturing process. 7. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options. 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 features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: 14th Gen Intel® Core™ i9, NVIDIA® GeForce RTX™ 5070, FHD, 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.		

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9. Listed battery life is based on testing using Web browsing. The test clip loops the loading of 50 selected websites using Microsoft Edge every 30 seconds, 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: 14th Gen Intel® Core™ i9, NVIDIA® GeForce RTX™ 5070, FHD, Dual SSD, 32GB of DDR5 memory. Battery life test condition: 100 nits LCD brightness, 50% speaker volume, WLAN on, Bluetooth on, no WW direct Internet connection.
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.*
11. Bundled software may vary depending on hardware configuration, OS and regional availability.

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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

v2-0-2 (Ver. 2)

Power adapter and battery and Battery's footnote (Notes Changed)

Input and output (Notes Changed)

v3-0-3 (Ver. 3)

Power adapter and battery (Notes Changed)