



| Nitro ANV16-71 Specifications (v5-0-3) | | | |
|--|---------|---|-----------|
| Category | | Description | Footnotes |
| Operating system | 1 | Windows 11 Home | |
| CPU and chipset | 1 | <p>Intel® Core™ i7-14650HX processor (30 MB Smart Cache, 2.2 GHz Performance-core with Intel® Thermal Velocity Boost up to 5.2 GHz, overclock capable), supporting hybrid core architecture with Performance-core and Efficient-core</p> <p>Intel® Core™ i5-14450HX processor (20 MB Smart Cache, 2.4 GHz Performance-core with Intel® Turbo Boost Technology 2.0 up to 4.8 GHz, overclock capable), 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"> Up to 32 GB of DDR5 system memory <p>Dual-channel DDR5 SDRAM support</p> <ul style="list-style-type: none"> Up to 16 GB of DDR5 system memory <p>Memory Frequency : Up to 5600 MT/s</p> | |
| Display | | <p>16.0" Display with IPS (In-Plane Switching) technology, WQXGA 2560 x 1600, High-brightness Acer ComfyView™ LED-backlit TFT LCD, supports up to 180 Hz, 3 ms (GTG) via LCD Overdrive. 16:10 Aspect Ratio, sRGB 100%(Typical value) Wide Viewing Angle up to 170 Degrees Ultra-slim Design Mercury-free, Environmentally Friendly</p> | 4 |
| | | <p>16.0" display with IPS (In-Plane Switching) technology, WUXGA 1920 x 1200, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz. 16:10 aspect ratio, sRGB 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly</p> | 4 |
| | | <p>16.0" display with IPS (In-Plane Switching) technology, WUXGA 1920 x 1200, Acer ComfyView™ LED-backlit TFT LCD, supporting high frame rate 165 Hz 16:10 aspect ratio, color gamut NTSC 45% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly</p> | 4 |
| Graphics | 1 | NVIDIA® GeForce RTX™ 4060 with 8 GB of dedicated GDDR6 VRAM, supporting 3072 NVIDIA® CUDA® Cores. | |

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- With 5th gen MAXQ technology design
- 1470 - 2370 MHz Boost Clock
- Third Gen Ray Tracing Cores
- Fourth Gen Tensor Cores
- Ada Lovelace NVIDIA® Architecture
- Microsoft DirectX® 12 Ultimate.
- NVIDIA® DLSS 3.5
- NVIDIA® Reflex
- NVIDIA® Broadcast
- PCI Express Gen 4
- NVIDIA® Resizable BAR
- NVIDIA® GeForce Experience™
- NVIDIA® Ansel
- NVIDIA® FreeStyle
- NVIDIA® ShadowPlay®
- NVIDIA® Highlights
- NVIDIA® G-SYNC®
- NVIDIA® Game Ready Drivers
- NVIDIA® Studio Drivers.
- NVIDIA® Omniverse
- NVIDIA® GPU Boost™
- Vulkan RT API, OpenGL 4.6
- HDMI
- DisplayPort
- NVIDIA® Dynamic Boost 2.0
- NVIDIA® Whisper Mode 2.0
- NVIDIA® Advanced Optimus
- NVIDIA® Battery Boost
- NVIDIA® Rapid Core Scaling
- NVIDIA® CPU Optimizer

NVIDIA® GeForce RTX™ 4050 with 6 GB of dedicated GDDR6 VRAM, supporting 2560 NVIDIA® CUDA® Cores.

- With 5th gen MAXQ technology design
- 1605 - 2370 MHz Boost Clock
- Third Gen Ray Tracing Cores
- Fourth Gen Tensor Cores
- Ada Lovelace NVIDIA® Architecture
- Microsoft DirectX® 12 Ultimate.
- NVIDIA® DLSS 3.5
- NVIDIA® Reflex

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- NVIDIA® Broadcast
- PCI Express Gen 4
- NVIDIA® Resizable BAR
- NVIDIA® GeForce Experience™
- NVIDIA® Ansel
- NVIDIA® FreeStyle
- NVIDIA® ShadowPlay®
- NVIDIA® Highlights
- NVIDIA® G-SYNC®
- NVIDIA® Game Ready Drivers
- NVIDIA® Studio Drivers.
- NVIDIA® Omniverse
- NVIDIA® GPU Boost™
- Vulkan RT API, OpenGL 4.6
- HDMI
- DisplayPort
- NVIDIA® Dynamic Boost 2.0
- NVIDIA® Whisper Mode 2.0
- NVIDIA® Advanced Optimus
- NVIDIA® Battery Boost
- NVIDIA® Rapid Core Scaling
- NVIDIA® CPU Optimizer

NVIDIA® GeForce® RTX™ 3050 with 6 GB of dedicated GDDR6 VRAM, supporting 2560 NVIDIA® CUDA® Cores.

- 990 - 1740 MHz Boost Clock
- Second Gen Ray Tracing Cores
- Third Gen Tensor Cores
- Ampere NVIDIA Architecture
- Microsoft DirectX® 12 Ultimate.
- NVIDIA DLSS 2.0
- NVIDIA Reflex
- NVIDIA Broadcast
- PCI Express Gen 4
- NVIDIA Resizable BAR
- NVIDIA GeForce Experience™
- NVIDIA Ansel
- NVIDIA FreeStyle
- NVIDIA ShadowPlay®
- NVIDIA Highlights
- NVIDIA G-SYNC®
- NVIDIA Game Ready Drivers

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|---|---|------|
| | <ul style="list-style-type: none"> • NVIDIA Studio Drivers. • NVIDIA Omniverse • NVIDIA GPU Boost™ • Vulkan RT API, OpenGL 4.6 • HDMI • DisplayPort • NVIDIA Dynamic Boost 2.0 • NVIDIA Whisper Mode 2.0 • NVIDIA Advanced Optimus • NVIDIA Battery Boost • NVIDIA Rapid Core Scaling • NVIDIA CPU Optimizer | |
| Audio | <ul style="list-style-type: none"> • DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes via smart amplifier • Supported in Windows Spatial Sound for PC Gaming with DTS Sound Unbound 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 3 mics array built-in microphones to support Advanced Privacy Mode. 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 | |
| Storage | Solid state drive <ul style="list-style-type: none"> • 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe • 1 TB / 2 TB, NVMe, RAID 0 SSD | 1, 5 |
| Webcam 1 | Video conferencing UFC with <ul style="list-style-type: none"> • T-Type HD camera • Compatible with Windows only • 1280 x 720 resolution • 720p HD video at 30 fps with Temporal Noise Reduction • Blue Glass lens • Dual Mic (33 mm + 33 mm) • 78 x 3.2 (5.2) x 3 mm | |
| Wireless and networking 1 | WLAN <ul style="list-style-type: none"> • Intel® Wireless Wi-Fi 6 AX201 • 802.11a/b/g/n/acR2+ax wireless LAN • Dual Band (2.4 GHz and 5 GHz) • 2x2 MU-MIMO technology | |

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| | <ul style="list-style-type: none"> • Supports Bluetooth® 5.1 or above • Wi-Fi CNVi Interface <p>LAN</p> <ul style="list-style-type: none"> • Killer™ Ethernet E2600 • 10/100/1000 Mbps • Hibernation mode support • Wake On Lan support • IPv4 and IPv6 support <p>WPAN</p> <p>Supports Bluetooth® 5.1 or above</p> | |
| Security | MSFT Pluton Security Processor as Firmware TPM solution BIOS user, supervisor passwords, Kensington lock slot | |
| Dimensions and weight 6, 7 | <p>Dimensions</p> <ul style="list-style-type: none"> • 361.24 (W) x 278.4 (D) x 24.74/25.46 (H) mm (14.22 x 10.96 x 0.97/1 inches) with Plastic A Cover <p>Weight</p> <ul style="list-style-type: none"> • 2.5 kg (5.51 lbs.) with 4-cell battery pack, WQXGA display | |
| Power adapter and battery | <p>Power adapter</p> <p>3-pin 135 W 5.5 PHY SLIM PCR 50% AC adapter</p> <ul style="list-style-type: none"> • 138 (W) x 68.5 (D) x 24.5 (H) mm (5.43 x 2.70 x 0.96 inches) • 19.5 V as output voltage • 397 g ± 7% with 180 cm DC cable <p>Battery</p> <ul style="list-style-type: none"> • 57 Wh 4-cell Li-ion battery • For models with WQXGA Panel <p>Battery life: Up to 5 hours (based on video playback test results) Up to 5 hours (based on web browsing test results)</p> <p>(Notes: (Notes: Notes: 57W Battery for GN21-X4 SKU Video Playback: i7+GN21-X4 + WQXGA 180Hz+ DDR5 32GB MEM+ RAID0 2TB = 5hr Video Playback: i5+GN21-X4 + WQXGA 165Hz+ DDR5 32GB MEM+ RAID0 2TB = 6hr Web Browsing : i7+GN21-X4 + WQXGA 180Hz+ DDR5 32GB MEM +RAID0 2TB = 5.5hr Web Browsing : i5+GN21-X4 + WQXGA 165Hz+ DDR5 32GB MEM +RAID0 2TB = 6hr)</p> | 8, 9, 10 |
| Input and control | <p>Keyboard</p> <p>103-/104-/107-key FineTip Amber-backlit keyboard with independent standard numeric keypad, international language support</p> <p><> NitroSense Key <> Copilot Key</p> | |

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| | | <p>TouchPad Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands</p> <ul style="list-style-type: none"> • Microsoft Precision Touchpad certification • Moisture resistant <p>Control Keys Nitro Sense Key Copilot Key Mode Key</p> |
| Input and output | | <p>USB Type-C USB Type-C™ port supporting:</p> <ul style="list-style-type: none"> • USB 3.2 Gen 2 (up to 10 Gbps) • DisplayPort over USB-C • Thunderbolt™ 4 • USB charging 5 V; 3 A • DC-in port 20 V; 65 W <p>USB Standard A Two USB Standard-A ports, supporting:</p> <ul style="list-style-type: none"> • One port for USB 3.2 Gen 1 • One port for USB 3.2 Gen 2 featuring power off USB charging <p>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</p> |
| Windows Desktop Apps | 11 | <p>Games</p> <ul style="list-style-type: none"> • Planet9 Stub (For Gaming) <p>In-House</p> <ul style="list-style-type: none"> • Acer Product Registration • Acer QuickPanel • NitroSense V5 (NB) |
| Warranty | | One-year International Travelers Warranty (ITW) |
| <ol style="list-style-type: none"> 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. | | |

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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™ i7, NVIDIA® GeForce RTX™ 4060, WQXGA, SSD only, 32GB of DDR5 memory. Battery life test condition: LCD brightness 150 nits, connected headphones, WLAN off, Bluetooth off and Better Battery Mode on.
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™ i7, NVIDIA® GeForce RTX™ 4060, WQXGA, SSD only, 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.

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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PurifiedVoice with AI Noise Reduction



SSD fast Data Access



TPM



100% FineTip Keyboard



NUMERIC KEYPAD



COMBO AUDIO JACK



Appendix

v2-0-1 (Ver. 2)

Display

v3-0-2 (Ver. 3)

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

v4-0-3 (Ver. 4)

Power adapter and battery (Notes Changed)

v5-0-3 (Ver. 5)

Display