Buyers Guide │ C1 2022

Acer® Nitro 50 Desktop

N50-640-UR11

Model	Acer® Nitro 50 N50-640-UR11 Desktop
MSRP	$879.99
On-Shelf Date	April 1, 2022

NITRO 50
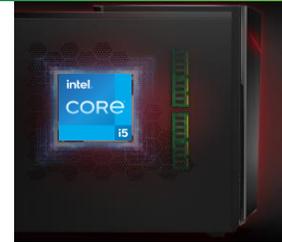## IT LIES WITHIN. POWERED BY INTEL®

Windows 11

It Lies Within

The fiery-accented, black metal Nitro 50 gaming PC is all the fuel you need for those high frame, lag-free game sessions. Go on and switch settings to ultra with an injection of the latest 12th Gen Intel Core™ i5 Processor and GeForce GTX™ 1650 graphics. Next, toss in its advanced cooling, stellar audio capabilities, and high speed connectivity and you quickly see why the Nitro 50 delivers a knockout blow to the competition!

High Level Specifications

- 12th Generation Intel® Core™ i5-12400F 6-Core Processor (Up to 4.4GHz)
- NVIDIA® GeForce® GTX 1650 Graphics with 4GB GDDR5
- 8GB DDR4 3200MHz Memory
- 512GB M.2 2280 PCIe SSD
- DTS: X® Ultra
- Intel® Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax supporting dual-stream 2.4GHz, 5GHz and 6GHz bands featuring 2x2 MU-MIMO technology
- Realtek® 8118AS Dragon 10/100/1000 Gigabit Ethernet LAN (RJ-45 Port)
- Bluetooth 5.2
- 1 - USB 3.2 Type C Gen 2x2 port (up to 20 Gbps) (Front)
- 1 - USB 3.2 Gen 2 Port (Front)
- 2 - USB 3.2 Gen 1 Ports (Rear)
- 4 - USB 2.0 Ports (Rear)
- 1 - HDMI 2.0 Port & 1 - DVI Port
- Windows 11 Home

What's in the Box

- Desktop
- USB Keyboard
- USB Mouse
- Power Cord

Key Features

Web Description

Acer Nitro 50 N50-640-UR11 Desktop, 12th Gen Intel Core i5-12400F, GeForce GTX 1650 Graphics, 8GB DDR4 3200MHZ Memory, 512 GB M.2 2280 PCIe SSD, DTS: X Ultra, Intel Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax, USB Keyboard and Mouse, Windows 11 Home

Features

Built to Conquer

The fiery-accented, black metal Nitro 50 gaming PC sets the mood for an intense journey into the realm of gaming. The expertly crafted 18 liter chassis fits neatly on your desk or on the floor.

Process a New Reality

The latest 12th Gen Core i5 processor from Intel® delivers unmatched speed and intelligence, enabling impressive gaming, productivity and creating experiences with faster Wi-Fi 6E connectivity. When you're challenging your buddies in the latest battle, you'll be confident knowing you've got the power of an 12th Generation Intel® Core™ processor.

Game Ready!

Leap into Full HD action with NVIDIA's GeForce GTX 1650 Graphics with 4GB of GDDR5 Video Memory. Discover unprecedented performance and experience the latest titles in their full glory— powered by NVIDIA Turing™ architecture.

Stay Connected

High-speed Intel® Wi-Fi 6E AX211 (Gig+) and Realtek Dragon LAN work hard to keep our pings low and joys high. Connect, zip through your transfer, done! Easy access front I/O ports including USB 3.2 Gen 2 and USB 3.2 Type C Gen 2x2 providing ultra-fast data transfers and quick device charging in a port that is one-third the size of a current USB Port and reversible - no need to worry about plugging it in upside down.

Dive Into DTS: X® Ultra

Turn any pair of headphones or speakers into a high-end 360° surround sound system – enabling you to experience your favorite movies, music and games with real-world spatial sound.

A Sense of Control

NitroSense is the ultimate tool to control and customize your gaming experience from one place. Exercise control over every aspect of your gaming PC. Monitor fan speed and adjust in real time by setting fans to automatic, customizing their speed or setting them to max when the heat is on.

Acer® Nitro 50 N50-640-UR11 Desktop
Detailed Product Specifications

Processor

12th Generation Intel® Core™ i5-12400F 6-Core Processor 2.5GHz
with Single P-Core Turbo Frequency[1] of up to 4.4GHz (18MB Smart Cache)

Memory

8GB DDR4 3200MHz Memory[2]
(1 x 8GB), Maximum 32GB
2 DDR4 Slots (Total) | 1 DDR4 Slot (Available)

Video

NVIDIA® GeForce® GTX 1650 Graphics with 4GB GDDR5 Video Memory

Audio

DTS: X® Ultra

Hard Drive

512GB M.2 2280 PCIe SSD[5]

Optical Drive

N/A

Digital Media Card Reader

N/A

Communications

Intel® Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax supporting dual-stream 2.4GHz, 5GHz and 6GHz bands featuring 2x2 MU-MIMO technology
Realtek® 8118AS Dragon 10/100/1000 Gigabit Ethernet LAN (RJ-45 Port)
Bluetooth® 5.2

Input Devices

USB Keyboard and Optical Mouse

Interfaces

1 - USB 3.2 Type C Gen 2x2 port (up to 20 Gbps) (Front)
1 - USB 3.2 Gen 2 Port (Front)
2 - USB 3.2 Gen 1 Ports (Rear)
4 - USB 2.0 Ports (Rear)
1 - HDMI™ 2.0 Port
1 - DVI Port
2 - Audio Ports (Front)
3 - Audio Ports (Rear)
1 - Ethernet RJ-45 Port

Expansion Slots

Total	Available
1 - PCI-E x16	0 - PCI-E x16
1 - PCI-E x1	1 - PCI-E x1
3 - M.2	1- M.2

Expansion Bays

Total	Available
2 - 3.5" HDD	2 - 3.5" HDD

Power Supply

500W

Dimensions (System)

15.43 (H) x 15.2 (D) x 6.89 (W) inches
392 (H) x 386 (D) x 175 (W) mm

Dimensions (Box)

19.29 (L) x 9.41 (W) x 20.31 (H) inches
490 (L) x 239 (W) x 516 (H) mm

Weights

Approximately 16.58 lbs. | 7.52 kg (system unit only)
Approximately 22.2 lbs. | 10.07 kg (box)

Pallet Quantity

40 units per pallet

Limited Warranty

1 Year Parts and Labor Limited Warranty with Toll-Free Tech Support[3]

UPC

195133147675

Part Number

DG.E30AA.001

Software

Windows 11 Home

Microsoft® Office Trial[6]
Anti-Virus Software Trial[4]
Acer Care Center

(1) Overall system performance is based on several PC attributes. GHZ, processor clock speed, is one of the attributes. Efficient-core frequencies are lower to optimize power usage. The frequency cores and core types varies by workload, power consumption and other factors.

(2) Shared system memory may be allocated to support integrated graphics depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by the amount of shared system memory utilized by the graphics solution and resources required by the operating environment.

(3) For a free copy of the standard limited warranty end-users should see a reseller where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503. TFT displays commonly exhibit a small number of discolored dots, so-called "nonconforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect and, as such, is not covered by the limited warranty or by the upgrade programs. For International travelers warranty Valid only in countries where Acer has an authorized repair facility. For a list of those countries go to http://global.acer.com/support/itw.htm. or call 800-816-2237. Services and response times may vary in countries outside the U.S. and Canada

(4) Internet access required. 30-day trial.

(5) 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer eRecovery Management utilizes up to 8 GB (10 GB with Microsoft® Office Starter 2010 Trial) of the stated hard disk capacity as dedicated backup space.

(6) Microsoft Office Trial included. After or during the 30-day trial, purchase an Office Product Key to activate one of the following Office suites preloaded on this PC: Office Home and Student, Office Home and Business , Office Professional.

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Acer® Nitro Monitor

VG270 S3biip

1920 X1080 FHD

AMD FreeSync Premium

180Hz

0.5 ms Up to
Response Time

Model	Acer Nitro VG270 S3biip 27-inch Full HD Gaming Monitor
MSRP	$249.99
On-Shelf Date	May 22, 2023

High Level Specifications

- 27" Full HD (1920 x 1080) Widescreen VA Monitor
- AMD FreeSync Premium Technology
- ZeroFrame Design
- **Response Time:** 1ms (G to G) - Up to 0.5ms (G to G)
- **Panel Type:** VA
- **Refresh Rate:** 180Hz
- Acer VisionCare Technologies
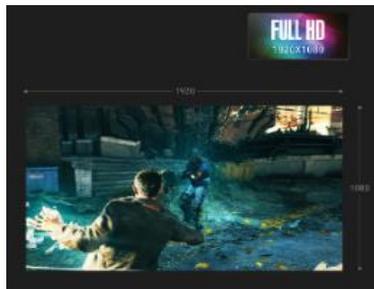- **Ports:** 1 x Display Port and 2 x HDMI 2.0 Ports

What's in the Box

- Display
- Stand
- Power Cord
- HDMI Cable

Key Features

Web Description

Acer Nitro VG270 S3biip 27" Gaming Full HD (1920 x 1080) Gaming Monitor with AMD FreeSync Premium Technology, 180Hz Refresh Rate and Up to 0.5ms (G to G) (Display Port & 2 x HDMI 2.0 Ports)

Nitro VG270
THE GATE OF SMOOTH GAMING

The Gate of Smooth Gaming

In competitive gaming, every frame matters. Introducing Acer's VG270 gaming monitor - the Full HD resolution monitor that can keep up with your game play. Through AMD FreeSync Premium technology, the game's frame rate is determined by your graphics card, not the fixed refresh rate of the monitor, giving you a serious competitive edge. Plus, users can enjoy comfortable viewing experience while gaming via flicker-less, low dimming and ComfyView display. The design saves space on your desk and lets you place multiple monitors side by side to build a seamless big-screen display.

Features

Quality Visuals

The VG270 27" monitor with 1920 x 1080 Full HD resolution in a 16:9 aspect ratio presents stunning, high quality images with excellent detail. The zero-frame design does away with the thick frames found on conventional monitors freeing up precious screen space so you have more to look at from edge to edge.

AMD FreeSync Premium Technology

Say "goodbye" to stuttering and tearing. With AMD FreeSync Premium, the monitor's frames are synced with the graphics card's frames, which eliminates screen tearing and provide the smoothest gaming experience.

ZeroFrame Design

With a Nitro VG270 monitor, you'll want to see as much of the display as possible. Get more monitor real estate with the near bezel-less design, allowing you to see more and do more. The ZeroFrame design lets you place multiple monitors next to each other for a seamless, almost uninterrupted view.

Quick Refresh Rate

The 180Hz refresh rate speeds up the frames per second to deliver an ultra-smooth 2D motion scenes. With a rapid refresh rate of 180Hz, Acer Monitors shorten the time it takes for frame rendering, lower input lag and provide gamers an excellent in-game experience.

Responsive

Up to 0.5ms GTG (Gray to Gray) response time enhanced gamers' in-game experience. No matter the fast-moving action or any dramatic transitions will be all rendered smoothly without the annoying effects of smearing or ghosting.

Game View Technology

Acer Game Mode has eight pre-set display modes to optimize the visuals for different types of content: Action, Racing, Sport, User, Standard, ECO, Graphic and Movie. This unique feature can be easily accessed through a hotkey or the On Screen Display (OSD) settings menu.

Viewable Area
27" Display
16:9 Aspect Ratio

Panel Type
VA

Resolutions
1920 x 1080 (native and maximum)

Refresh Rate
180Hz

Pixel Pitch
0.311mm

Brightness
250 cd/m^2

Contrast Ratio
100 Million:1 MAX (ACM)

Screen Treatment
Antiglare

Response Time
1ms (G to G) – Up to 0.5ms (G to G)

Colors
16.7 million

Viewing Angles
178° Left/Right, 178° Up/Down

User Controls
Power On/Off Button

Signal Inputs
1 x Display Port 1.2
2 x HDMI 2.0

Speakers
NA

Electrical Requirements
Normal Operation: <42Watts
Off (power-save): <1 Watts
100 - 240 VAC, 50/60 Hz

Agency Certifications
UL, cUL, FCC Class B, CE, TUV/GS, VCCI, RoHS, MPRII

Display Stand
Included
    Ergonomic Tilt: –5° to 20°

Mount
VESA mounting compliant (100 x 100mm)

Limited Warranty
3 year parts and labor[1]

Dimensions (Display with Stand)
24.2" (W) x 18.0" (H) x 9.44" (D)
614.7mm (W) x 457.1mm (H) x 239.7mm (D)

Dimensions (Box)
26.77" (W) x 18.35" (H) x 5.71" (D)
680mm (W) x 466mm (H) x 145mm (D)

Weights
8.6 lbs. | 3.9 kg. Display
16.42 lbs. | 7.45 kg. Box

Pallet Quantity
43 units / pallet

Model Number
VG270 S3biip

UPC
195133181990

Part Number
UM.HV0AA.301

Product specifications subject to change without notice

Actual product may vary from image shown

[1] For a free copy of the standard limited warranty end-users should see a reseller where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503.

Buyers Guide | Holiday 2022

Acer® Nitro Accessory

Nitro Gaming Headset II

Model	Nitro Gaming Headset II
MSRP	$39.99
On-Shelf Date	December 19, 2022

Nitro Gaming Headset II

Take Control of In-Game Audio

The first and the last headset you'll ever need – both online and off. Talk to your teammates and opponents in the game with the omni-directional microphone, and take full control of your audio with the in-line control box — letting you control your music and volume without missing a beat. Suit up, soldier. Victory awaits.

Features

OMNI-DIRECTIONAL MICROPHONE
Cooperate with teammates and gain a competitive advantage in the game via the omni-directional microphone.

CLEAR, CRISP AUDIO
Hear every sound in the game and enjoy music in crystal clear detail with high-sensitivity audio.

RGB LIGHTS, OVER-EAR DESIGN
The over-ear design creates an immersive audio experience while gaming or listening to music, while the RGB lights bring the headphones alive.

High Level Specifications

- **Driver Diameter:** 50mm
- **Driver Material:** Neodymium
- **Frequency Response:** 100Hz-10KHz
- **Impedance:** 21 ohm (+/- 15%)
- **Sensitivity:** 115dB (+/- 3dB at 1KHz)
- **Microphone**: Retractable Omni-directional Noise-Canceling Microphone with On-Cable Controls
- **Microphone Sensitivity**: -42dB (±3dB)
- **Microphone Frequency Response:** 100Hz-10KHz
- **Plug Type:** 3.5mm & USB
- **Cable Length:** Braided Round Cable at 6.89 feet

What's in the Box
Nitro Gaming Headset II, Warranty Booklet & Quick Start Guide

Web Description
Nitro Gaming Headset II

Dimensions (Product)
8.23" x 3.74" x 7.08"
210mm x 95mm x 180mm

Dimensions (Retail Box)
8.23" (L) x 4.13" (W) x 9.06" (H)
210mm (L) x 105mm (W) x 230mm (H)

Retail Box Weight
Approximately 1.45 lbs │ 658 g

Dimensions (Carton)
21.45" (L) x 17.13" (W) x 18.7" (H)
545mm (L) x 435mm (W) x 475mm (H)

Carton Weight
Approximately 30.86 lbs │ 14 kg

Units Per Carton
20 Units per Carton

UPC
195133169073

GTIN
30195133169074

Part Number
GP.HDS11.01I

Limited Warranty
1 year parts and labor limited warranty[1]