

Acer Nitro 5 (2021) Detailed Review: A completely new design

Acer Nitro is a mid-range gaming laptop line that is always appreciated by users for many bright advantages. And in this version of Acer Nitro 5 (2021), we have seen the tremendous improvement that Acer has brought on the laptop. Let me evaluate details Acer Nitro 5 (2021).

Let me evaluate details Acer Nitro 5 (2021) right in any article.

1. Acer completely changed the design of the Acer Nitro 5 (2021)

Acer Nitro 5 Series is one of the line of gaming laptop that is very interested in the market today, not only because of its easily accessible price, but also with an attractive configuration in the segment. But for over a year we have yet to see a design innovation, although the company has released many different configurations in the past.

And it seems that Acer has heard through the hearts of users, thereby releasing a completely new version of Acer Nitro 5 (2021) with a much more beautiful design style.



Specifically, on the back, Acer Nitro 5 (2021) owns deeper pattern lines and more sophisticated cut. You can easily see that the back of the device has 2 symmetrical gaming lines, just looking at you can see the power and charisma of a gaming laptop. And undeniably, this line is powerful but with a little bit of sophistication and elegance.



The new lines create a highlight when everyone is looking to love.



In this version of Acer Nitro 5 (2021), the edges are still beveled to create the highlight of the gaming line and use the main color tone of red and black. But unlike previous generations, the red color on this new version is somewhat lighter, but I like this color better than the prominent tone of last year's versions.



Talking about the grip, I feel this Acer Nitro 5 (2021) version is lighter and thinner than the previous generation. With the advantage of having a shell made of plastic, the Acer Nitro 5 (2021) has reduced the weight a lot compared to a laptop with a metal case and this material also helps to dissipate heat better.



In terms of connectivity, Acer understands that not everyone who buys a gaming laptop spends most of their time playing games. With such a powerful configuration, we can also use it for many other factors, such as: Multitasking, doing graphics, design, .. so the company has integrated many connection ports in left and right edges. Specifically, on the left side, the machine has a lock port, LAN, 2 USB ports and 1 3.5mm audio jack. Meanwhile, on the right edge, the machine has HDMI, USB and USB Type-C ports. You ask where the source port is? The power port is on the back of you key.



Left edge of Acer Nitro 5 (2021).



Right edge of the Acer Nitro 5 (2021).

Oh forget, one of the factors that makes me love the Acer Nitro 5 Series is the backlight. With the Nitro Sense button located right on the keyboard, you can turn on and adjust the backlight and customize it to your liking. I like the continuous color transition, so I chose the Wave feature in Dynamic mode, so the rainbow color version will run automatically from left to right (or vice versa) very impressive.



Backlight is the highlight on the Acer Nitro 5 (2021).

By the way, I will always talk about the operating experience using the Acer Nitro 5 (2021) keyboard. Personally, the keyboard quality has not changed too much compared to previous generation products and the operating experience is also quite ok. Besides the keyboard with good bounce and response, the touchpad is also very smooth. However, my need to use a separate mouse is quite a lot, so I rarely use the laptop's touchpad.



The keyboard and touchpad of the Acer Nitro 5 2021.

2. Performance Acer Nitro 5 (2021) is much improved over the previous generation

Immediately after the design review, we will talk about the internal performance of the Acer Nitro 5 (2021). This is a gaming laptop and what's the attractive performance inside? Let me take a quick look at the hardware parameters of 'her brother' for you to see:

1. CPU: AMD Ryzen 5 5600H.
2. RAM: 8 GB DDR4 (2 slots).
3. Hard drive: 512 GB SSD and memory expansion support.
4. GTX 1650 4 GB discrete graphics.



Hardware configuration of Acer Nitro 5 (2021).

There are too many factors I want to talk about in the performance section. To make it easier for you to imagine, I immediately experienced the League of Legends game and you can watch it right in the cut video below. With AMD Ryzen 5 5600H CPU, I confidently push the graphics up very high to experience. The results showed that FPS ranged from 85-93 when I was fighting games and screen recording. Without recording, the FPS will range from 112-140 FPS (very high graphics) and FPS from 177-193 (high graphics).

A powerful CPU is not enough because for stable FPS and smooth frames, Acer has equipped the Acer Nitro 5 (2021) a GTX 1650 discrete graphics card and a screen refresh rate of up to 144 Hz. The harmonious combination of each element from the screen, CPU, GPU, . has shown that the company pays attention to the smallest details to provide a stable overall experience.



And with such powerful performance, I did not pass up the opportunity to experience and use graphics on the Acer Nitro 5 (2021). With Photoshop, Lightroom or Premiere applications, the laptop can be handled neatly and I can quickly edit images and videos to keep up with the deadlines of the work. Even the laptop also allows me to open many heavy tasks at the same time and use for many hours in a stable state.



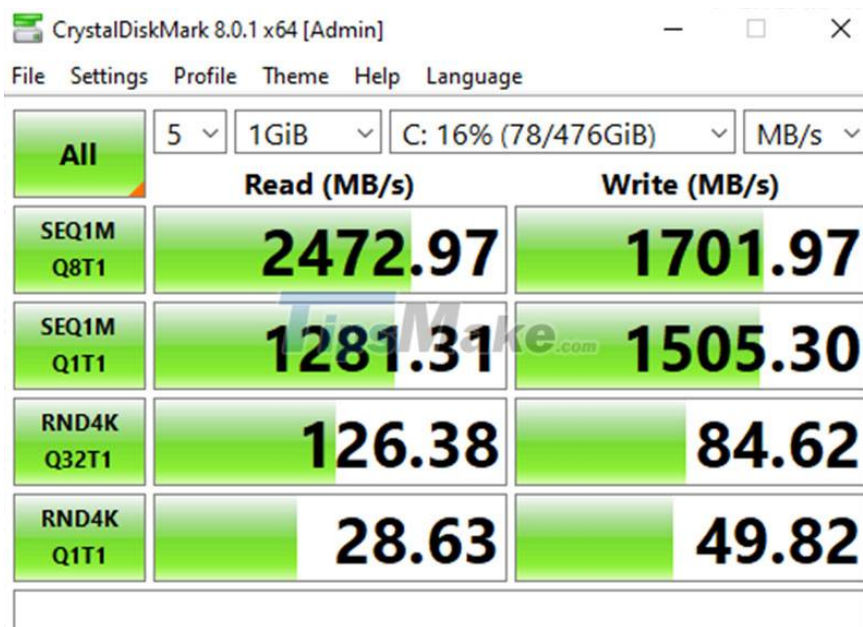
Those are my practical experiences and to give you a better overview, I used Geekbench 5 to measure the CPU and performance of the Acer Nitro 5 (2021). The results are as follows:

1. Single core 1,091 points, multi-core 3,779 points.
2. The performance of the Acer Nitro 5 (2021) reached 38,873 points.



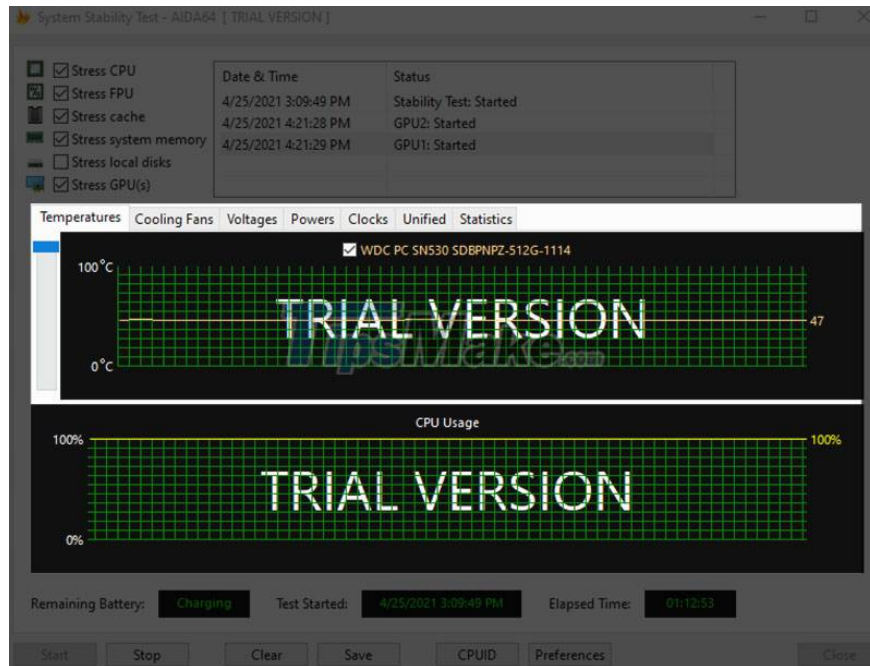
Besides, I used Crystal Diskmark to measure the read and write speed of the 512 GB SSD hard drive. The results I obtained are:

1. Read speed: 2,472 MB / s.
2. Write speed: 1,701 MB / s.



3. Is the heat dissipation capacity of the Acer Nitro 5 (2021) effective?

One of the factors directly affecting the performance of the Acer Nitro 5 (2021) is the heat dissipation. So you guess whether the heat dissipation of this laptop is effective or not? Personally, when using the device for the past week, I found that, Acer Nitro 5 (2021) offers much improved heat dissipation and does not overheat during the experience.



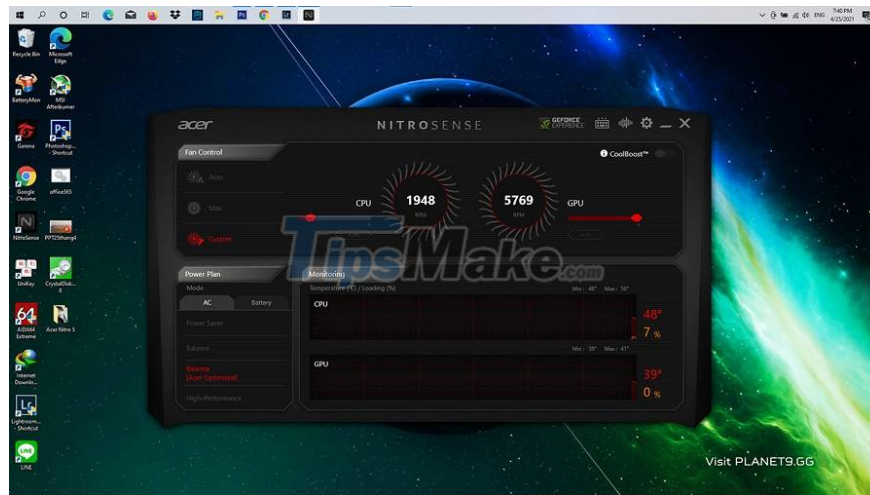
More specifically, I used AIDA64 to measure the laptop's heat dissipation, the CPU temperature was about 47 degrees Celsius when using Chrome and Photoshop. If I play League of Legends and do graphics, the temperature will rise to 74 degrees Celsius. I appreciate 3 things about the heat sink: Firstly, the location of the heat sink, the experience of using, and the ability to control the heat. degree.

Acer has been too delicate when equipping the Acer Nitro 5 (2021) up to 4 heat slots and helping the CPU, GPU operate at high performance for a long time.



Secondly, when the machine temperature heats up, we can try to touch the armrest test on the armrest. Unexpectedly, the palm rest does not get hot and does not affect daily use.

Finally, you can tune the internal heatsink to cool down the CPU and GPU. Nitro Sense is probably too familiar when it can be activated with the physical button and allows the user to adjust the cooling fan appropriately. This not only helps you to control the temperature but also gives you peace of mind about the longevity of the device when used for a long time.



4. 144 Hz screen is the highlight of the Acer Nitro 5 (2021)

As for the screen, the Acer Nitro 5 (2021) owns a 15.6-inch screen, Full HD resolution that brings clear enough images and a good experience in the price range. At the same time, Acer also subtly optimizes the edges around the screen to increase both work and entertainment experiences.



One of the points that we cannot ignore is that the Acer Nitro 5 (2021) possesses a refresh rate of up to 144 Hz, providing a smooth gaming experience like I just mentioned above. Thanks to its high refresh rate and high touch sampling rates, it delivers smooth frames when playing games and watching movies.

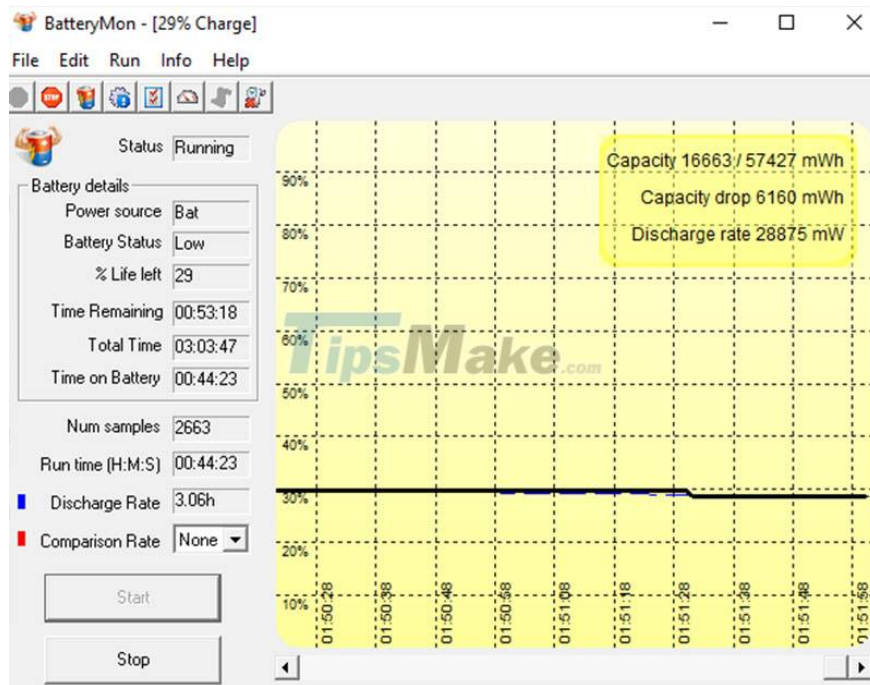


And finally, the laptop is equipped with an IPS LCD panel for wide viewing angles and high brightness, suitable for you or working outdoors. In this price range we can't demand a beautiful and vivid AMOLED panel.



5. What about the battery life of the Acer Nitro 5 (2021)?

The last part I talk about in this article is battery life. When using BatteryMon software, I have measured the battery life of Acer Nitro 5 (2021) reached more than 3 hours (measured in about 45 minutes).



And to measure the above results, I played League of Legends, opened the AIDA64 app to measure the temperature and used about 4-5 Chrome tabs to listen to music and work. Personally, I think these results have been very good since the Acer Nitro 5 (2021) is a gaming laptop that uses the charger to switch to Performance mode and focuses on performance over battery life.

Conclude

And those are my experiences of the Acer Nitro 5 (2021). Personally, I appreciate it when this product has got improvements in appearance and performance. However, the laptop still has some weaknesses but not too significant and affects the user experience.

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