

Powerful Lenovo Y550P

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Owning a remarkable hardware power, Lenovo's laptop is truly a dream for many users .

IdeaPad Y550P is Lenovo's first laptop to have an Intel Core i7 processor introduced last year. At the time of launch, at the end of last year, the Y550p is the world's most powerful laptop with quad-core Intel Core i7-720QM processor and 1 GB of super-powerful discrete Nvidia GeForce GT 240M graphics card next to DDR3 RAM. 4 GB, 500 GB HDD. In addition, the device is also equipped with a Blu-ray reader and feature to get rid of the face.



The spacious keyboard is comfortable to use. *Photo: SoHua .*

The surface of the Y550P is decorated with honeycomb-shaped patterns and curved down to four sides with orange borders around it. The manufacturer's Lenovo logo is embossed with metal on the top left. Y550P is quite bulky with dimensions of 8.6 x 25.4 x 3.8 cm and weighs 2.7 kg (when installing 6-cell battery included). In general, considering the overall design of the machine is not really "worthy" of the configuration and the price to own it.

Lenovo's new model has quite a number of connection ports and is reasonably distributed to all four sides of the machine. The front includes signal lights, infrared sensors to receive control signals, switch on / off network usage mode, headphone jack, microphone and memory card reader. The right side includes 2 USB 2.0 ports, TV

antenna signal receiver, Blu-ray optical drive and power jack. The left edge includes VGA, HDMI, eSATA / USB, LAN, 34mm Express Card slot and Kensington lock.



Touchpad is sensitive and accurate while 2 mouse keys are offensive with users. *Photo: SoHoo* .

Machine keyboard with large keys area and a good spaced way to create comfort for users, but the keyboard is only made of plastic has slightly reduced the "value" of the machine. The Y550P is also equipped with a multi-touch touchpad with a grid-shaped shelf, so it is not sticky and sweaty when used. Through testing, this touchpad also impressed quite well when using sensitivity and accuracy. However, the two keys of the touchpad can be considered a major failure of the manufacturer when used with a very loose feel, great depth and bounce very slowly causing discomfort to the user.

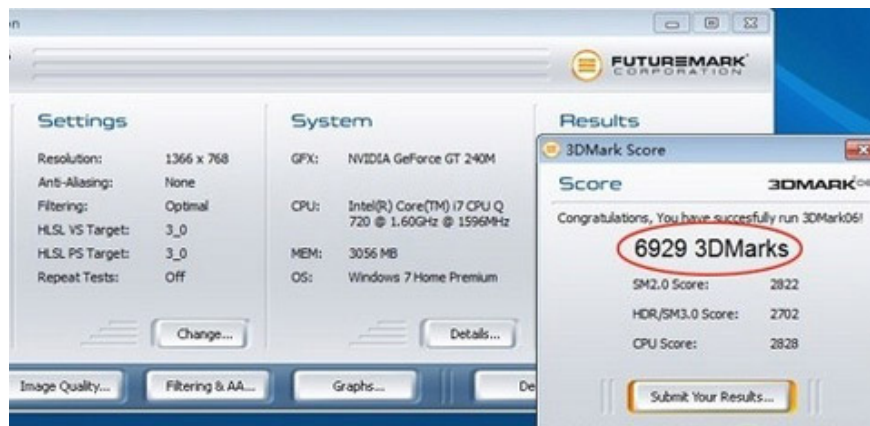
The Y550P's speaker system is also well-equipped with two speakers on each side and a subwoofer on the bottom. Through listening, the Dolby Home Theater speakers offer good quality at high volume, reverberation and bass are also acceptable.



Y550P is equipped with an extra subwoofer for better bass. *Photo: SoHua .*

The Y550P has a 16.6-inch wide 16.6-inch LED backlight display with a bright 1366×768 pixel resolution that displays well and in true color. The machine has a good viewing angle, when tilted about 45 degrees compared to the line of sight can still monitor the screen with relatively accurate colors.

This model is also quite interesting to integrate the ability to watch TV through signals from an antenna attached to the machine or from cable TV. However, through testing, while the machine displayed a sharp wave channel when using cable TV, this system was not catching up well with the accompanying antenna, in Thai Think area, only the Hanoi channel with the signal could be captured. Very weak effect.



The device achieved 6,929 points when tested with the 3DMark06 program. *Photo: Zol .*

It owns an Intel Core i7-72QM 1.6 GHz, 1,333MHz processor, 6 MB L2 Cache, 4GB DDR3 DRAM and 1 GB discrete Nvidia GeForce GT 240M graphics card. Perhaps with this configuration will not surprise many people on the graphics processing power it brings.

When scored by Windows Experience Index system on Windows 7 Home Premium Edition operating system (installed with the machine), Y550P achieved 5.8 points. This is a "superfluous" point for smooth running of the Aero Peak graphics interface with all the highest settings and smooth HD video playback.

Meanwhile, if using the 3DMark06 graphics program to measure the graphics power of this machine, the result is also commensurate with its own configuration, 6,929 points, but not much higher than the model. Lenovo Y450A with 6,540 points using the same graphics card but with a lower memory of 512MB (data according to Zol). Also according to Zol, if using 3DMark Vantage program at Entry, E level, the Y550P will achieve the total of E11286. In which GPU reached 11,814 points, CPU reached 9,952 points.



Graphics Card		Sensors	Validation		
Name	NVIDIA GeForce GT 240M				
GPU	GT216	Revision		A2	
Technology	40 nm	Die Size		100 mm²	
Release Date	Oct 12, 2009	Transistors		486M	
BIOS Version	Unknown				
Device ID	10DE - 0A34	Subvendor		Lenovo (17AA)	
ROPs	8	Bus Interface		PCI-E 2.0 x16 @ x16 2.0	
Shaders	48 Unified	DirectX Support		10.1 / SM4.1	
Pixel Fillrate	4.4 GPixel/s	Texture Fillrate		8.8 GTexel/s	
Memory Type	DDR3	Bus Width		128 Bit	
Memory Size	1024 MB	Bandwidth	25.3 GB/s		
Driver Version	nvlddmkm 8.15.11.8647 (ForceWare 186.47) / Win7				
GPU Clock	550 MHz	Memory	790 MHz	Shader	1210 MHz
Default Clock	550 MHz	Memory	790 MHz	Shader	1210 MHz
NVIDIA SLI	Disabled				

Graphics card parameters of the machine. *Screen shot* .

Test playing heavy graphics games, Y550P also handled quite smoothly. Gaming can Need For Speed: Shift with the highest settings at an average speed of 32 frames per second, Resident Evil 5 game (setting level 2 x AA High Definitio) at an average speed of 29 frames every second and Street Fighter 4 game (setting level 2 x AA High Definitio) averages 45 frames per second.

In the continuous gaming test, the device was not too hot, the area on the left, the middle part of the touchpad and right on the touchpad felt the highest temperature, however, overall compared to the configuration and performance of the device. The heat level of this machine shows that the heat dissipation is good.



Game Need For Speed: Shift at 32 frames per second. *Photo: Zol .*

With the "terrible" configuration but only the 6-cell battery included, the battery life of Y550P is acceptable with about 2 hours and 30 minutes of normal use like listening to music, surfing the web and nearly 2 hours of playing games continuity.

Y550 is a machine that is worth using with a "terrible" configuration and good machine performance, but that is if the user is not interested in the price and "equally" of it is \$ 1,800 (about 35 million copper) in Vietnam.

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