

Instructions for checking the temperature of CPU, VGA, hard drive of computer, laptop

Measuring the computer's CPU, hard drive or VGA card temperature will help users know the operating status of the device, thereby limiting the situation of hot, freezing, auto-reset.

When using computers, all components produce a certain amount of heat. If the time to use the computer and laptop lasts, the temperature will not stop increasing. Leaving the temperature too high will also lead to some conditions such as slow machine, error screen, automatic restart. Especially high temperatures will affect CPU life and other parts in the machine. Therefore, it is necessary to measure the temperature of CPU, hard drive and VGA card on the computer and laptop.

In the article below, we will guide you how to check the temperature of CPU, hard drive, video card on the computer with the software HWMonitor completely free. HWMonitor has a very simple way of using, but extremely light capacity does not take up too much computer resources.

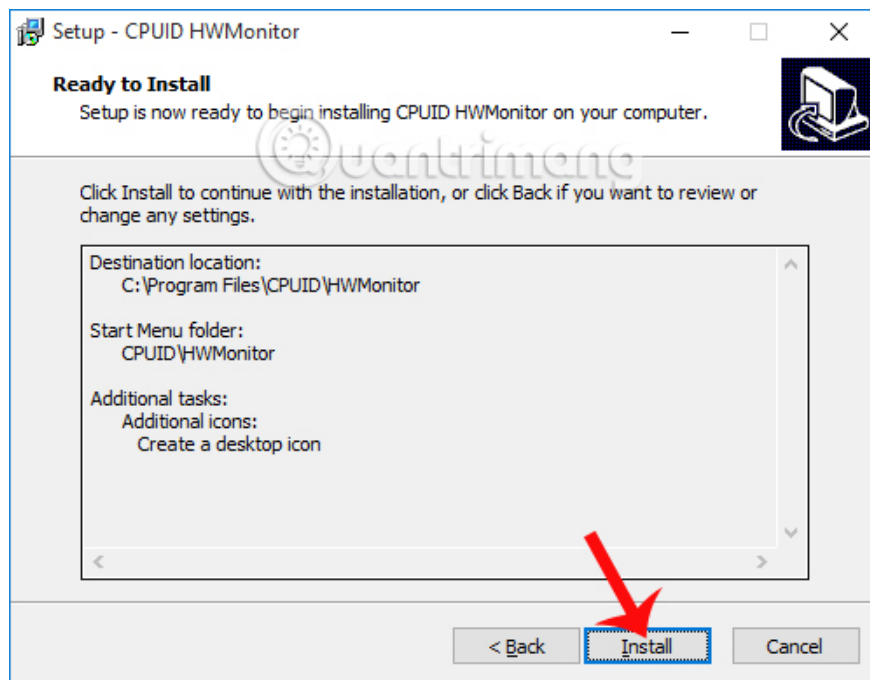
1. Measure CPU temperature with HWMonitor:

First, download the HWMonitor software according to the link below:

1. Download the HWMonitor software for free

Step 1:

Next, we click on the exe download file to launch the HWMonitor program. The installation is very simple because the software does not have many options, as well as the accompanying programs. You just need to click **Next . Install** to install is done.



Step 2:

When you click on the HWMonitor icon, the program interface will look like the image below.

To check the **CPU temperature**, go to the Temperatures section with 2 items Core # 1 and Core # 2. According to the picture, the current CPU temperature of the laptop is about 50 degrees.

| Sensor | Value | Min | Max |
|---------------------|----------------|----------------|----------------|
| DESKTOP-JDFL247 | | | |
| Intel Core i3 5005U | | | |
| Voltages | | | |
| VID | 0.797 V | 0.663 V | 0.797 V |
| IA Offset | +0.000 V | +0.000 V | +0.000 V |
| GT Offset | +0.000 V | +0.000 V | +0.000 V |
| LLC/Ring Offset | +0.000 V | +0.000 V | +0.000 V |
| System Agent Offset | +0.000 V | +0.000 V | +0.000 V |
| Temperatures | | | |
| Core #0 | 44 °C (111 °F) | 44 °C (111 °F) | 54 °C (129 °F) |
| Core #1 | 48 °C (118 °F) | 44 °C (111 °F) | 54 °C (129 °F) |
| Package | 46 °C (114 °F) | 46 °C (114 °F) | 54 °C (129 °F) |
| Powers | | | |
| Package | 2.35 W | 2.21 W | 9.46 W |
| IA Cores | 0.62 W | 0.51 W | 6.42 W |
| GT | 0.01 W | 0.00 W | 1.12 W |
| Uncore | 1.71 W | 1.67 W | 2.28 W |
| DRAM | 0.42 W | 0.41 W | 1.09 W |
| Clocks | | | |
| Core #0 | 1995 MHz | 798 MHz | 1995 MHz |
| Core #1 | 898 MHz | 798 MHz | 1995 MHz |
| Utilization | | | |
| HC | 18 % | 0 % | 28 % |

Step 3:

To check the **hard drive temperature** , find the Temperatures item as shown below. As shown in the figure, the hard drive temperature is 36 degrees.

The screenshot shows the CPUID HWMonitor application window. The title bar reads 'CPUID HWMonitor' and the menu bar includes 'File', 'View', 'Tools', and 'Help'. The main window displays a tree view of sensors on the left and a corresponding data table on the right. A red box highlights the 'Temperatures' folder under the 'ST500LT012-1DG142' drive. The data table has columns for 'Sensor', 'Value', 'Min', and 'Max'.

| Sensor | Value | Min | Max |
|---------------------------|---------------|---------------|---------------|
| CPU #0 | 6 % | 0 % | 62 % |
| CPU #2 | 3 % | 0 % | 71 % |
| CPU #1 | 4 % | 0 % | 68 % |
| CPU #3 | 4 % | 0 % | 71 % |
| ST500LT012-1DG142 | | | |
| Temperatures | | | |
| Assembly | 36 °C (96 °F) | 36 °C (96 °F) | 37 °C (98 °F) |
| Air Flow | 36 °C (96 °F) | 36 °C (96 °F) | 37 °C (98 °F) |
| Utilization | | | |
| Space (c:) | 21 % | 21 % | 21 % |
| Space (d:) | 4 % | 4 % | 4 % |
| Intel(R) HD Graphics 5500 | | | |
| Clocks | | | |
| Graphics | 848 MHz | 499 MHz | 850 MHz |
| AL15A32 | | | |
| Voltages | | | |
| Current Voltage | 17.382 V | 17.343 V | 17.388 V |
| Capacities | | | |
| Designed Capacity | 37000 mWh | 37000 mWh | 37000 mWh |
| Full Charge Capacity | 33256 mWh | 33256 mWh | 33256 mWh |
| Current Capacity | 33256 mWh | 31568 mWh | 33256 mWh |
| Levels | | | |
| Wear Level | 11 % | 11 % | 11 % |

2. Notes on CPU temperature and hard drive:

As said when the computer temperature is too high, it will affect the performance of the device, CPU as well as the components in the machine. So how much is the "ideal" temperature for the device to operate stably? Depending on the device, the thermodynamically safe operation of the computer is different, but you can refer to the appropriate temperature as follows.

With the CPU , the most suitable operating temperature is within **50 degrees** . The case below 70 degrees is in the temporary stable level. However, when you measure the CPU temperature above 70 degrees, we need to check the computer, apply heat sink glue, or use a cooling fan, . Read more about some of the cooling methods in the computer. 5 ways to cool the laptop simple and effective.

Hard drive temperature will be **below 50 degrees** . And the **video card** will be in the range of **70-80 degrees** .

Above is how to measure the temperature of CPU, VGA and computer hard drive, laptop using HWMonitor tool. Through this software you will check the current temperature of the CPU, hard drive, . so that there are timely remedies if the computer falls into a state of overheating.

Refer to the following articles:

1. 2 simple ways to update VGA driver for computer monitor, laptop
1. How to automatically update drivers on Windows using SnailDriver
1. 5 basic ways to update, update drivers for computers

I wish you all success!

You finished reading the article "**Instructions for checking the temperature of CPU, VGA, hard drive of computer, laptop**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.
