

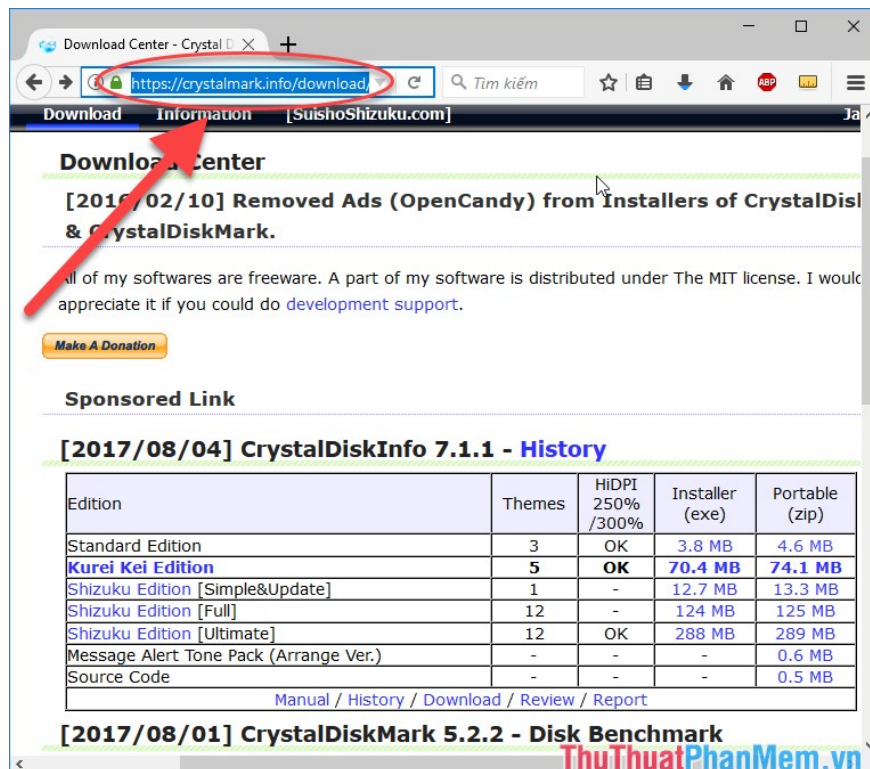
# CrystalDiskInfo - Software to check information on the health of your hard drive

The following article introduces the CrystalDiskInfo software to help you check the information and health of the hard drive.

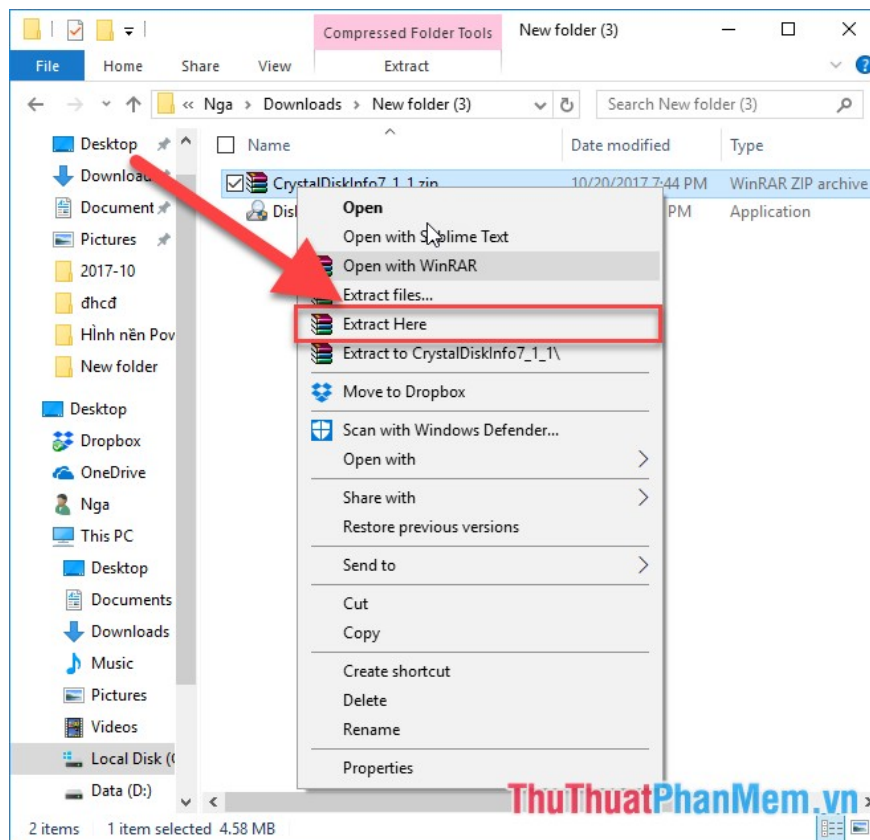
Hard drive is a place to store all your important data during the cleaning process, so you should check the health of your hard drive to avoid unfortunate circumstances and take measures to replace. Replace or backup data when hard drive fails. The following article introduces the CrystalDiskInfo software to help you check the information and health of the hard drive.

**Step 1:** Access the link to download the software: <https://crystalmark.info/download/index-e.html>

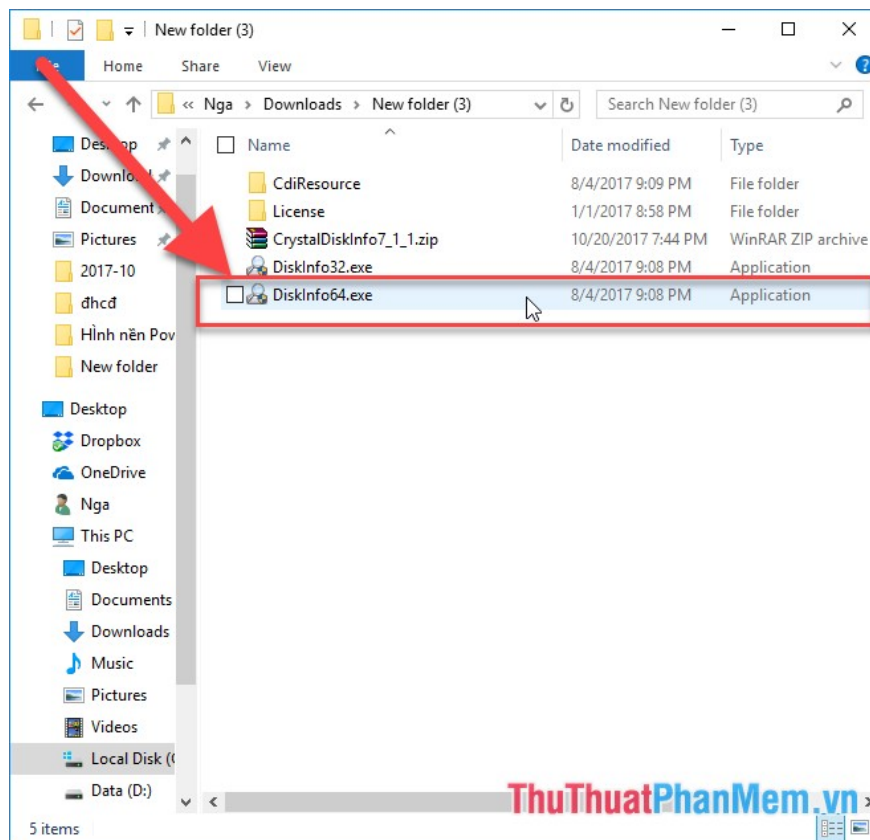
You can choose the Portable version to be able to use always without installation.



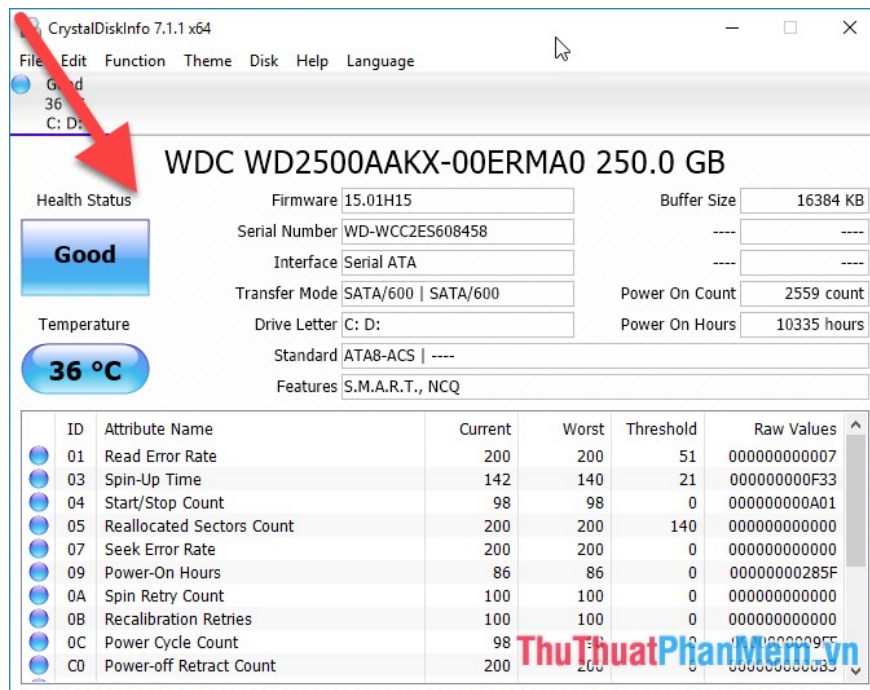
**Step 2:** Right-click the downloaded file and select **Extract Here:**



**Step 3:** Select the version appropriate for the operating system on your computer. For example, my computer 64-bit version should choose DiskInfo64.exe file



**Step 4:** Implement **Open DiskInfo64.exe** **CrystalDiskInfo** interface appears showing the current hard drive status on the computer:



- Parameters on **CrystalDiskInfo**:

+ The health status is shown in the **Health Status** section , when running the drive software on your computer, you may encounter one of the following notifications:

1. **Health Status = Good** (green background) -> the hard drive is working well.
2. **Health Status = Caution** (yellow background) -> The problematic hard drive is in a warning state, you should check the hard drive again.
3. **Health Status = Bad** (red background) -> the hard drive is almost broken, maybe the reader is worn out, the disc is heavily scratched or many sectors are corrupted, in this case you need an urgent backup of your data.
4. **Health Status = Gray** (gray background) -> the software does not identify the condition or cause of damage on the hard drive.

+ The temperature on the hard drive is shown in the item **Temperature**: If the temperature on the hard drive is below 49 degrees C -> is the normal temperature. If the temperature is between 50 and 55 degrees Celsius, you need to install additional cooling radiator for the hard drive. If the temperature is greater than 55 degrees C -> your hard drive has a problem you need to check and find solutions.

+ **Firmware** section shows the version of the hard drive control software.

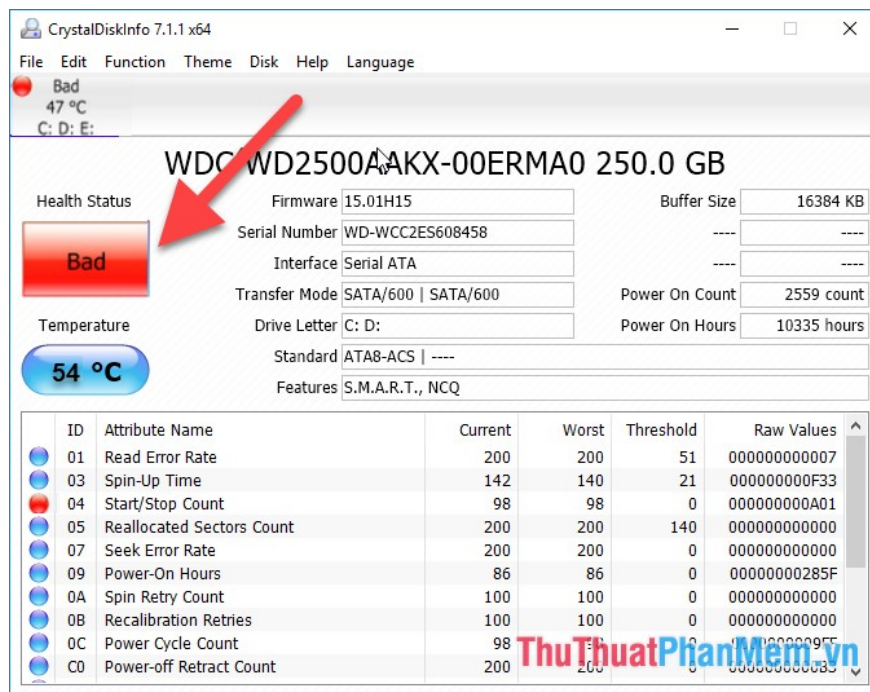
+ **Size Buffer Size** indicates the size of the buffer memory of the hard drive.

- **Caution** Notice -> Warning hard drive light error, should take measures to back up data regularly.

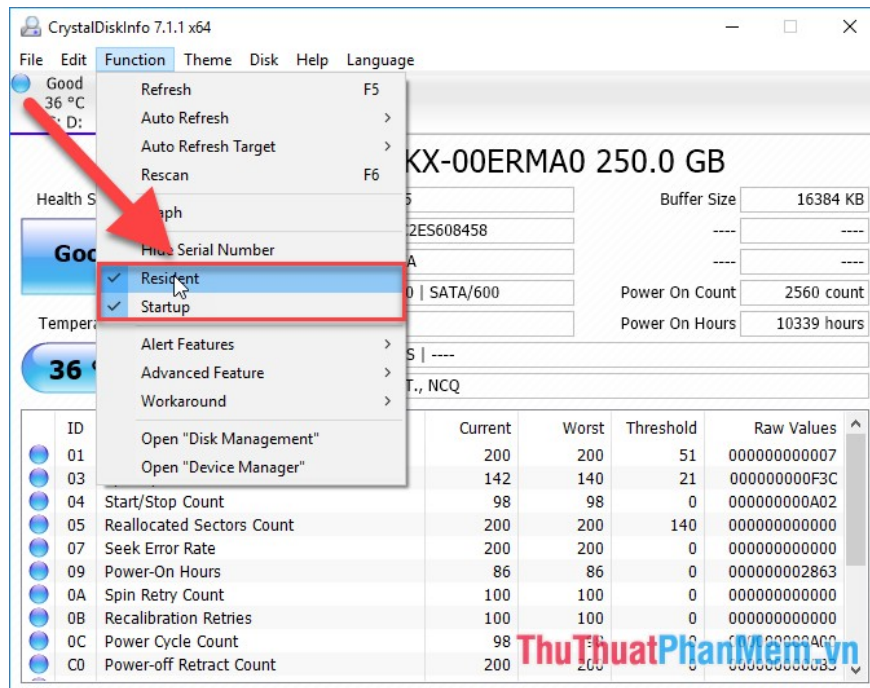
The screenshot shows the CrystalDiskInfo 7.1.1 x64 interface. At the top, there is a warning icon and the text 'Cảnh báo 42 °C C: D:'. The main display area shows the drive model 'WD2500AAKX-00ERMA0 250.0 GB' and a 'Health Status' of 'Caution' (yellow background). A red arrow points to this status. Below the status, the temperature is shown as '42 °C'. The drive's serial number is 'WD-WCC2E5608458' and the interface is 'Serial ATA'. The transfer mode is 'SATA/600 | SATA/600'. The power on count is '2559 count' and the power on hours are '10335 hours'. The standard is 'ATA8-ACS | ----' and the features are 'S.M.A.R.T., NCQ'. At the bottom, there is a table of SMART attributes.

ID	Attribute Name	Current	Worst	Threshold	Raw Values
01	Read Error Rate	200	200	51	000000000007
03	Spin-Up Time	142	140	21	000000000F33
04	Start/Stop Count	98	98	0	000000000A01
05	Reallocated Sectors Count	200	200	140	000000000000
07	Seek Error Rate	200	200	0	000000000000
09	Power-On Hours	86	86	0	00000000285F
0A	Spin Retry Count	100	100	0	000000000000
0B	Recalibration Retries	100	100	0	000000000000
0C	Power Cycle Count	98	98	0	00000000099F
0D	Power-off Retract Count	200	200	0	000000000033

- **Bad Message** -> Hard drive has a bad error, data may be lost, it needs to be replaced immediately.



So with just a few simple steps, you can check the health of your hard drive on your computer. However, you may not always be able to check the status of your hard drive. To avoid high risks, to avoid data loss, you should install **CrystalDiskInfo** to run on your computer by default. When there is any problem **CrystalDiskInfo** automatically notifies you. To do that, go to the **Function** -> tab and select the **Resident** and **Startup** items to start with Windows.



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