

MZUMBE UNIVERSITY



**FACULTY OF SCIENCE AND TECHNOLOGY
(FST)**

TITTLE

MAINTAINING COMPUTER BRIGHTNESS

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1. INTRODUCTION

This study deals with computer brightness problem and Bluetooth connection failure that in our group we have passed through to make sure computer problem solved since we know that computer brightness determine how bright or dark image appear to the screen.

During the process we found that computer brightness not adjustable at all we have used keyboard function key and manager of computer window but there were no changes. according to our finding we found that computer brightness problem may occur in different context like

- a) brightness not adjustable,
- b) decrease brightness
- C) uneven brightness
- d) brightness fluctuations

These problems can be due hardware or software issues.

The purpose of this study is to analyze how we have solved the problem software related to brightness in how it occurs and how to fix them to make sure computer is working properly .

This report has organization of ideas By checking through three ways of solving where by after the first failed we went to the next those are

- a) brightness adjustment through keyboard function
- b) setting through window manager
- c) driver update

We used the possible solution sequentially step by step followed with pictures illustrating those steps.

2. COMPUTER BRIGHTNESS

Computer brightness refers to the intensity of the light emitted by the screen of a computer or electronic device. brightness provide a comfortable viewing experience when it has good setting other wise lead to uncomfortable viewing

2.1. IDENTIFYING COMPUTER BRIGHTNESS PROBLEMS AND COMPUTER SPECIFICATIONS

In our case study we had computer with the following specifications.....

We identified that the computer brightness can not adjustable and Bluetooth can't connect to the pairing device we tried to increase and decrease the brightness this attempt failed even connecting Bluetooth to pairing device .so we discussed for what is going to be the possible causes of those situation

2.2 POSSIBLE CAUSES OF COMPUTER BRIGHTNESS NOT ADJUSTABLE

According to those problems we found that those problem can be caused by the following causes

i.Outdated drivers

Outdated graphics drivers or Windows updates can sometimes cause conflicts that prevent brightness controls from working properly where by drivers fail to connect hardware and software for proper function of the brightness control.

ii. Display settings

Incorrect display settings could be causing the screen to appear dim or too bright. Adjusting the brightness settings in the control panel or display settings menu could resolve the issue.

iii.Hardware limitations

In some rare cases, the issue might lie with the physical display itself. If your computer has taken a tumble or is simply nearing the end of its lifespan, the display hardware responsible for brightness adjustment might be malfunctioning.

3.MAINTAINING COMPUTER BRIGHTNESS

Maintaining computer brightness is all about to make sure that computer brightness is working properly because without working properly can cause eye problems making it hard to work or enjoy the content.

In our case study we found some solution on how to solve the problem of brightness not adjustable preventing you from being stuck in a perpetual state of dimness or blinding light

3.1 POSSIBLE SOLUTION FOR COMPUTER BRIGHTNESS NOT ADJUSTABLE

i. Use keyboard function for adjustment: may laptops have dedicated keys combinations to adjust a computer brightness. example of shortcut keys combined to adjust a computer brightness in Lenovo laptop are

1. Fn + f6: Increase brightness
2. Fn + f5: Decrease brightness

ii. Adjust settings through file manager: Go to your computer display setting to manually adjust brightness.

iii. Driver update

updating your drivers or checking for system update may help resolve the issue.

4 .SOLUTION RESULTS

According to the problem we had about computer Brightness not adjustable we went through those possible solution above to test each for solving the problem and the following are the result we obtained trough those solution step by step together with it's picture to illustrate the way to fix brightness not adjustable to our computer

4.1 KEYBOARD FUNCTION FOR ADJUSTMENT

Description

On laptop most keyboards, there are function keys with brightness adjustment icons that look like a sun with a positive or negative symbol next to it. The positive will make it brighter while the negative will make it dim. The function keys are at the top of the keyboard and labeled F and a number from one to 12. The following is about how we did through keyboard function for adjustment

We Used a shortcut key as follows

Press Fn + Home (increase brightness)/End (decrease brightness).

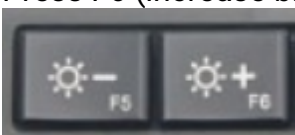


Fn Key



Or

Press F6 (increase brightness)/F5 (decrease brightness).



The **Brightness** bar appeared as shown below:

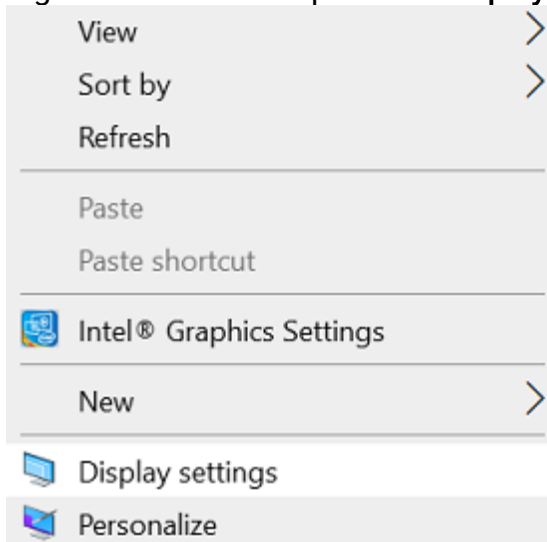


We went through this solution but the problem was there the brightness didn't adjustable so we recorded the result and we went to another solution below to make sure the problem solved

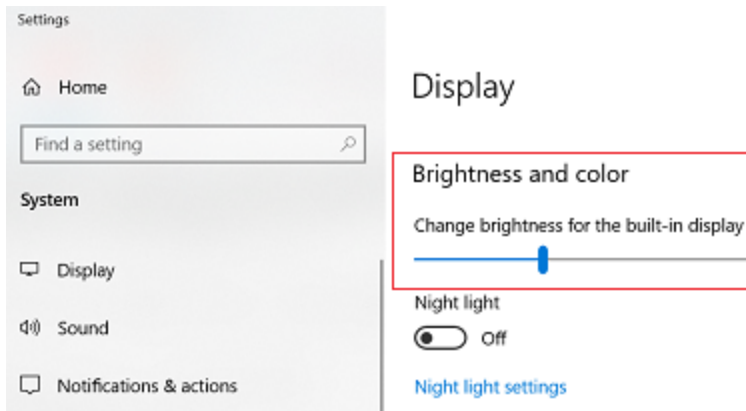
4.2 ADJUSTMENT THROUGH FILE MANAGER

Change Settings in Windows

Right-click the desktop. Select **Display settings**.



Use the slider to adjust the brightness.



The brightness slider appears in action center in windows 10 . To find the brightness slider in earlier version of windows 10, We selected **setting>system>Display>** and then we move the **change brightness** slider to adjust the brightness.

Also the solution failed to solve the problem we decided to use another solution to check if the problem solved

4.3 DRIVER UPDATE

We found that maybe driver are outdated hence fails to communicate Hardware components like your graphics card, rely on software called drivers to communicate with computer's operating system.

There are two main ways to update drivers on your computer:

1. Using Windows Update

driver updates alongside regular system updates. Here's how we did it step by step

- i. Click on the Start menu and search for "Update."
- ii. Click on "Windows Update" or "Check for updates"
- iii. Click on "Check for updates"

We waited for Windows to scan for updates.

If driver updates are available, they will be listed under "Optional updates." You can choose to install all optional updates or just the driver updates we opted to install all drivers

Click "Download and install" to download and install the updates.
restarted once the updates were installed.

Result: after the window update the problem still existed

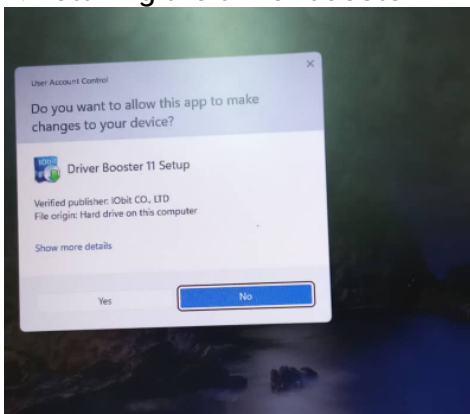
2. Updating Driver using software:

We found that there are many software for updating Driver but we suggested to use the software called **Driver booster**.

Driver booster works online for downloading current driver so we connected our internet for working with Driver booster. Here is how we went through using the software to update driver step by step.

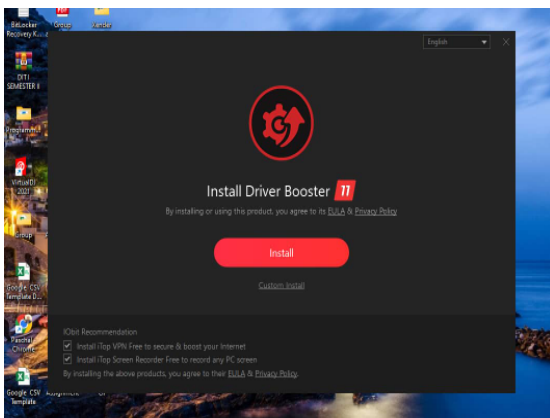
i. downloading the driver booster through the link

ii. installing the driver booster

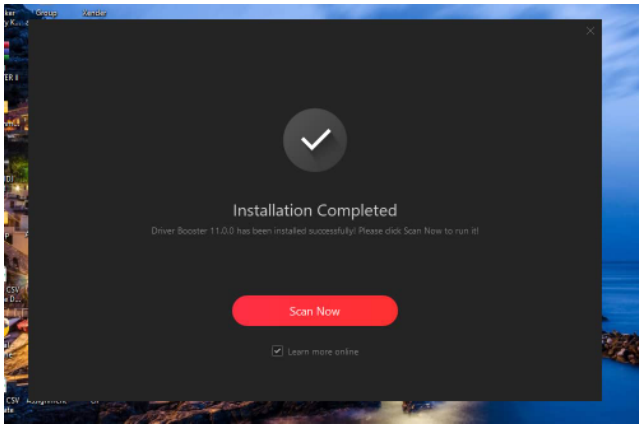


We opted yes for the installation

Then click install

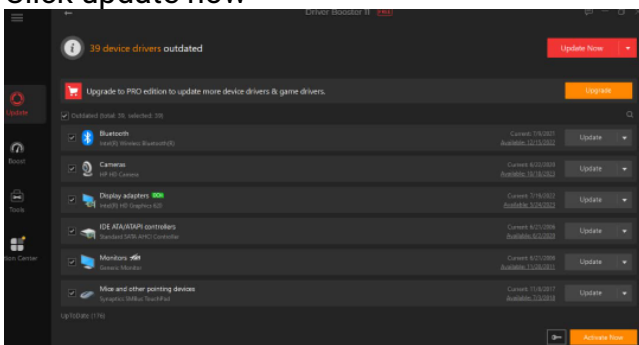


After completing appeared this window
With the message installation completed

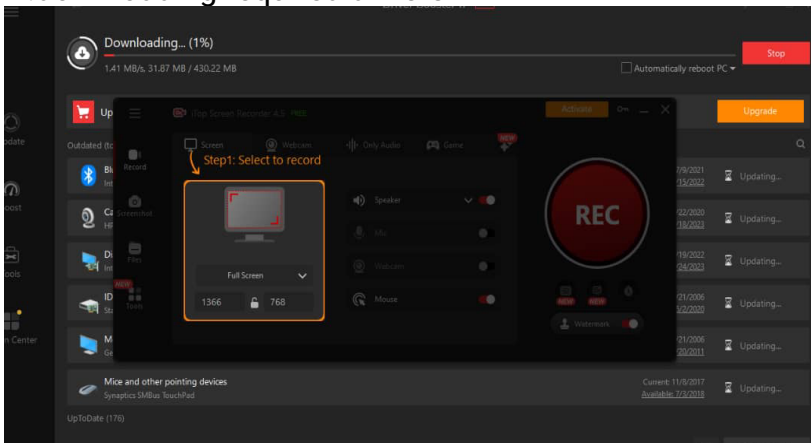


After driver booster to be installed now it check for required drivers

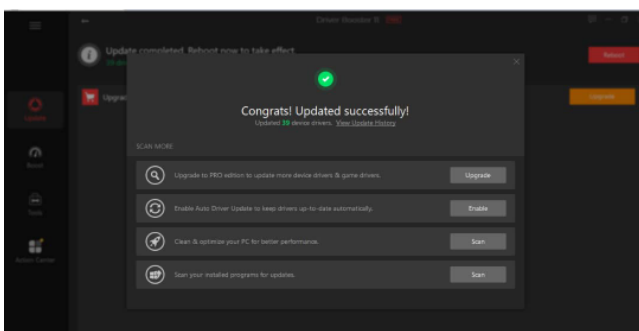
iii. updating driver
Click update now



iv. downloading required drivers



After downloading the driver we had this window that tells update successful



Then we restarted the computer

result: The problem of brightness not adjustable and Bluetooth connection failure now are solve completely so as we can increase or decrease the brightness and connect Bluetooth easily

5. SUMMARY

In general we noted that **Computer brightness** refers to the intensity of the light emitted by the screen of a computer or electronic device.

According to our case study we had Computer with the problem of not adjustable brightness and failed Bluetooth connection We determined that this problem can be caused by may fanctor but mainly are outdated driver, display setting and hardware limitation.

We went through finding the possible solution that could fix the problem we had three main solution those are keyboard function key for adjustment,windows update and updating using software tools.we checked each solution but updation using software tool called Driver booster was the best and the only way that solved the problem in our device.