



## RPM LED PROFILES Instructions

Daniel Newman Racing is where cutting edge technology meets the thrill of online racing. We specialise in crafting some of the most advanced SimHub compatible LED profiles designed to elevate your Sim Racing performance to new heights. Whether you're a seasoned pro, or just starting out, our products are meticulously engineered to immerse you in the heart pounding action of the track.

DNR profiles are built to be different, and used by those serious about winning. The purpose is to make you fast and give you what's important, when, it's most important. Not only used by Sim Racers worldwide, but also trusted by real life Formula One race winners, IndyCar champions, Daytona 24 winners and a plethora of industry leading manufacturers.

The below tutorial will explain the DNR RPM LED profiles installation and customisation options.

In order to use the Daniel Newman Racing RPM LED profiles you will need to ensure you have SimHub installed and the latest version installed.

You can download SimHub here - <https://www.simhubdash.com/>

In addition to installing SimHub, you will need to ensure you have a set of SimHub compatible DDU/RPM device.

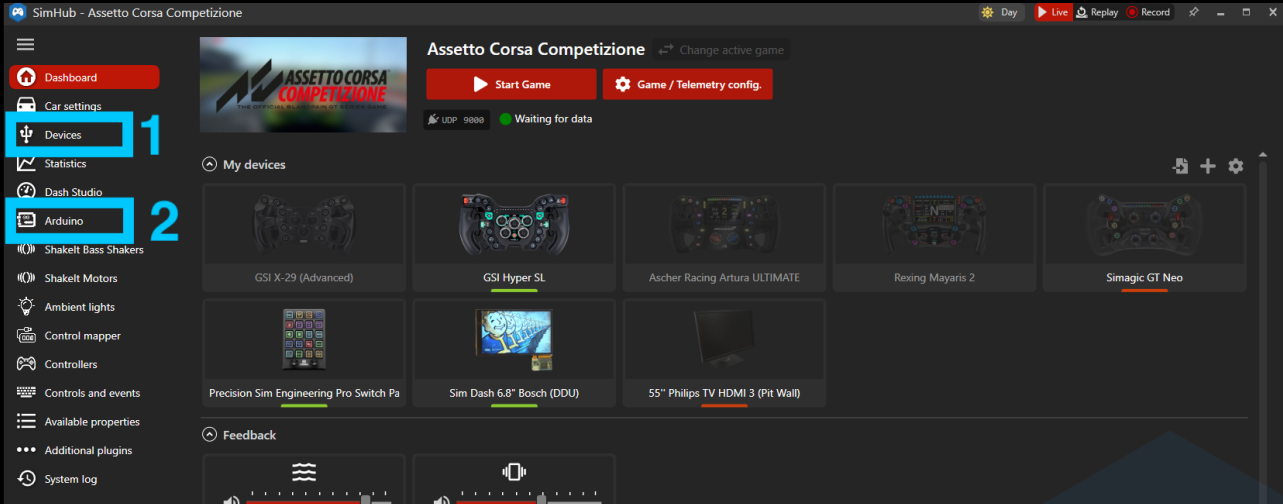
A wide range of RPM LED options are available on the website to suit many layouts including:

3/10/3 - 3/11/3 - 3/12/3 - 3/13/3 - 3/14/3 - 3/15/3 - 3/16/3  
4/10/4 - 4/11/4 - 4/12/4 - 4/13/4 - 4/14/3 - 4/15/4 - 4/16/4  
5/10/5 - 5/11/5 - 5/12/5 - 5/13/5 - 5/14/5 - 5/15/5 - 5/16/5

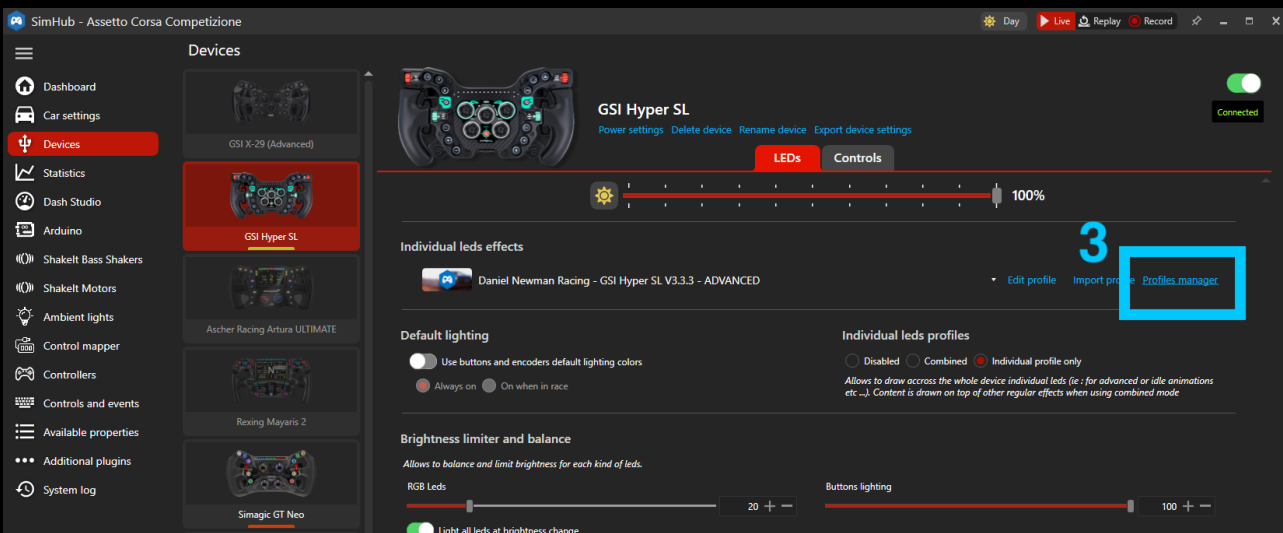
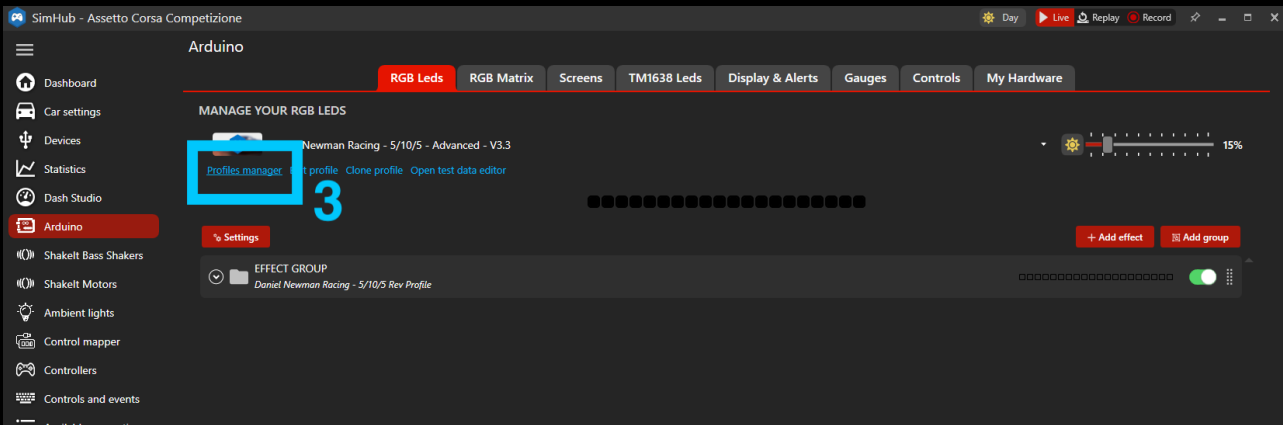
0/16/0 - 5/20/5 - 6/21/6 - 9/3/10/3/9 - 3/10/3/9/9 - 4/3/14/3/4 - 4/3/12/3/4 - 4/3/12/3/4 -  
2/5/14/5/2

## Step 1 - Install the Profile

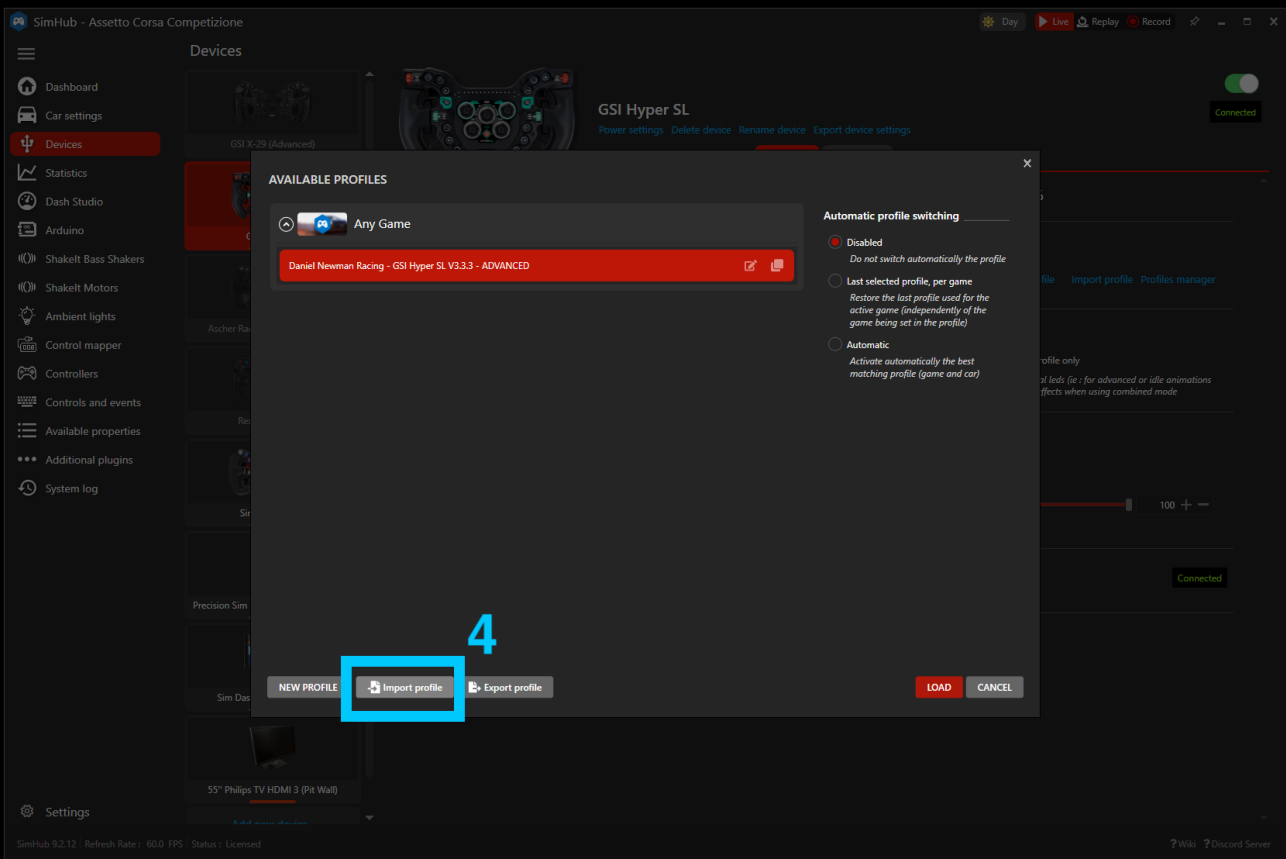
First you need to open SimHub and navigate to EITHER the Devices page (1) OR the Arduino page (2). This will depend on whether you are adding an LED profile to a SimHub recognised device OR to an Arduino DIY type device. SimHub does not list all manufacturers are supported devices, so be sure to check which open you need.



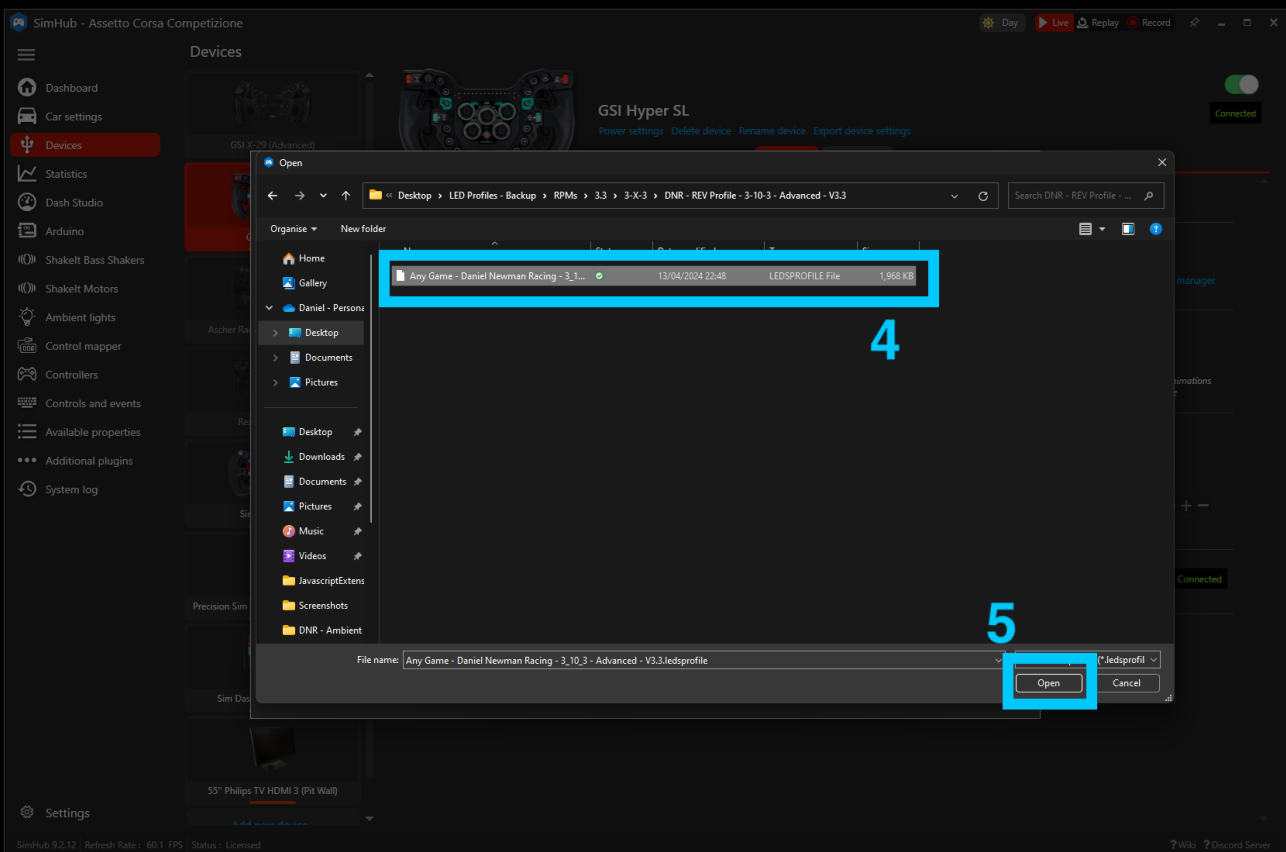
You'll then need to select profile manager (3) on either page to open the import window.



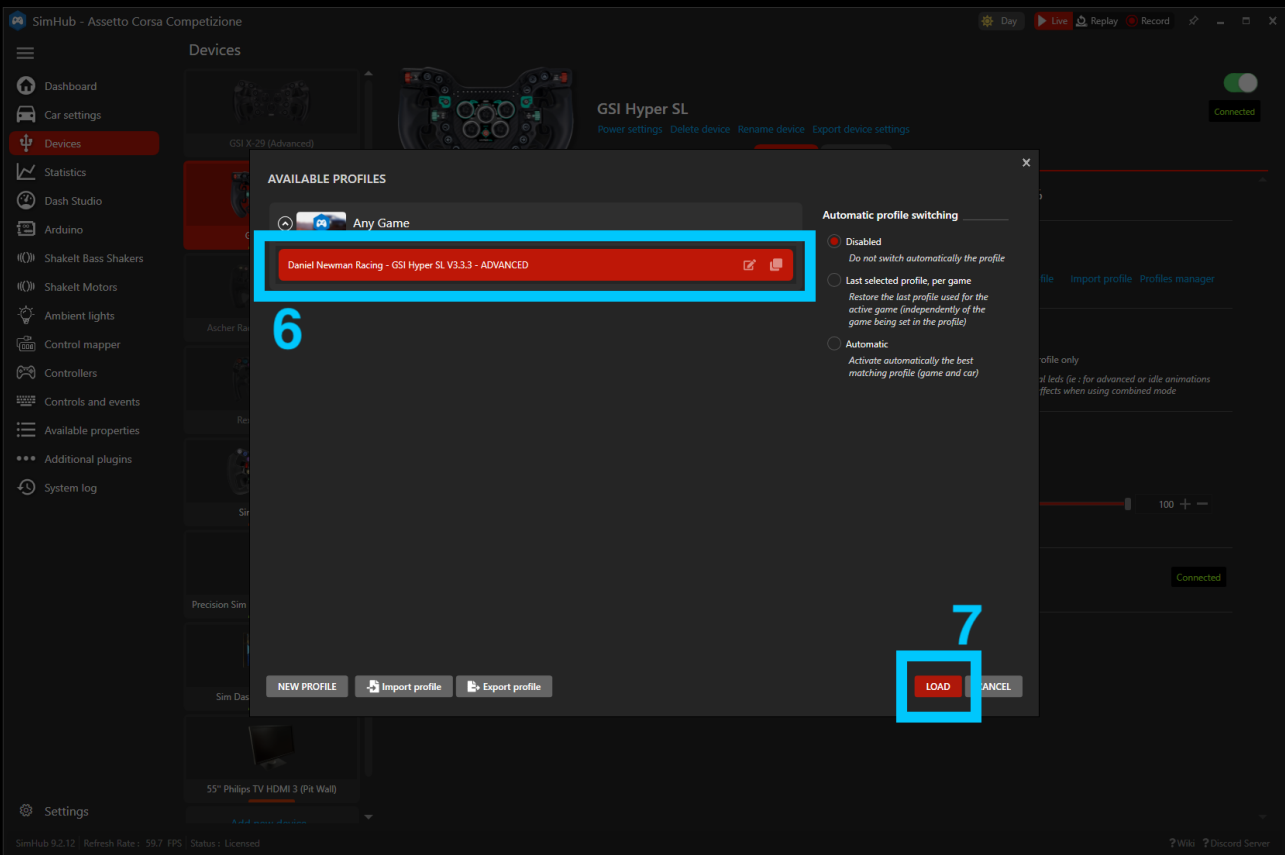
After pressing profiles manager, you will see the screen below, where you can now press 'Import profile' (4).



You now need to navigate your file explorer to the location of the saved profile, select it as shown in number (4), and then press open as per number (5).



Lastly, select the profile in number (6) ensuring you select the correctly named profile, and then press load as per option (7).



The LED Profile is now installed on your DDU / Wheel / RPM telemetry device. The profile has a series of default options loaded within it, but if you wish to customise these to your own preference and taste, please move onto Step 2 below.

## Step 2 - Customise Your Preferences.

The Daniel Newman Racing website (<https://www.danielnewmanracing.com>) provides an easy to use and automated configurator tool to allow you to customise your profiles. Once the tool has been used a JSON file (the settings file) is generated and used to tell SimHub which preferences you wish to follow. As the Daniel Newman Racing library is large, the JSON file will adjust the preferences of all your DNR profiles, so ensure when making changes, you do them with all devices in mind.

In this section we will skip to the relevant configurator options for this profile (RPM LEDs) and describe what each of the options does.

### Specific RPMs ON (Default / Off

This setting allows you to activate car specific and game matched values for games that support it. In the FREE profiles only iRacing is included (courtesy of Yoep De Lig). In the premium member only profiles Assetto Corsa Competizione and Le Mans Ultimate is also included.

Car specific and game matched RPMs mean that, the LED lights of your device will mirror what is shown on screen, both in colour, amount and timing. This is the most optimal and accurate data available. Where this data is not available, generic data will be used instead. If you turn this setting off Generic RPMs will be used instead.

Specific Rpms

ON

OFF

The setting will allow you to turn ON/OFF car specific and game matched RPMs. If you turn car specific RPMs OFF, your RPMs will default to the generic style chosen in the setting below. Free version includes iRacing RPMs ONLY, paid Members version includes iRacing, Assetto Corsa Competizione and Le Mans Ultimate RPMS.

### Generic RPMs Style Left to Right (Default) / Meet In the Middle / F1 Style

This setting allows you to select the style of generic RPMs that are used when the car specific data in the previous option is not used.

Generic Rpms Style

Left to Right

The setting will select the style of generic RPMS used for all SIMs (including iRacing, Assetto Corsa Competizione and Le Mans Ultimate when the above car specific setting is turned off).

## Generic RPMs Colour

Daniel Newman Racing / Lovely Dashboard (Default) / Red / Blue / Green / Yellow / Orange / Purple / Pink / White / Arctic / Sunset / Rainbow / Citrus / Tokyo / Gulf Oil Theme

This setting allows you to select the colour of the generic RPMs that are used when the generic profile is selected. 16 colour options exist to allow you to match your RPMs to your taste, pairing with the theming of your rig, or integrating the colours with other SimHub compatible devices running DNR LED profiles (Wheels for instance).

Generic Rpm Colour

Lovely Dashboard RPMs Theme (Default) 

The setting will enable you to match your RPMs LED colours (when using the generic option above) to your wheel and/or button box colour theme. By default, Lovely Dashboard Theme is selected, which provides a colour scheme that pairs with the Lovely Dashboard and delivers a realistic colour option similar to the real world.

## Flags

ON (Default) / OFF

This setting allows you to turn ON/OFF in game Flag animations on your DDU/Wheel on the telemetry/RPM lights.

Flags

ON

OFF

Turn ON/OFF Flag animations.

## Spotters

ON (Default) / OFF

This setting allows you to turn ON/OFF in game Spotter animations telling you whether there are cars to your left or your right on your DDU/Wheel on the telemetry/RPM lights.

Spotter

ON

OFF

Turn ON/OFF left and right proximity spotter animations.

## Pit Lane Indicators

ON (Default) / OFF

This setting allows you to turn ON/OFF a flashing animation telling you that you are in the pit lane with (blue) or without (red) your speed limiter activated.

Pitlane Indicator

ON

OFF

Turn ON/OFF an animation showing when you are within the Pitlane.

### Pit Lane Alerts ON (Default) / OFF

This setting allows you to turn ON/OFF a flashing animation telling you that you are in the pit lane and need to activate (red) or deactivate as you have closed the line (green) your speed limiter.

Pit Lane Alerts  ON  OFF

Turn ON/OFF an animation telling you when to activate or deactivate the speed limiter.

### Pit Lane Speeding ON (Default) / OFF

This setting allows you to turn ON/OFF a flashing red animation telling you that you are in the pit lane you are exceeding the tracks speed limit.

Pit Lane Speeding  ON  OFF

Turn ON/OFF an animation showing when you are exceeding the Pitlane speed limit.

### Speed Limiter ON (Default) / OFF

This setting allows you to turn ON/OFF the traditional blue and white Speed/Pit Limiter animation.

Speed Limiter  ON  OFF

Turn ON/OFF an animation showing when the cars speed limit is activated.

### Engine Start ON (Default) / OFF

This setting allows you to turn ON/OFF a white 'needle sweep' effect that signals an engine start.

Engine Start  ON  OFF

Turn ON/OFF an animation when the cars engine is started.

### Low Fuel ON (Default) / OFF

This setting allows you to turn ON/OFF an animation highlighting that your fuel level is low and likely to run out if you do not pit soon.

Low Fuel  ON  OFF

Turn ON/OFF an animation that tells you when fuel is low.

### TC Active ON (Default) / OFF

This setting allows you to turn ON/OFF an indicator flashing when your cars TC status is active. For iRacing this required the dhal plug in as TC telemetry is not output by the game.

TC Active

ON

OFF

Turn ON/OFF an animation that tells you when the cars TC is on and active.

### ABS Active ON (Default) / OFF

This setting allows you to turn ON/OFF an indicator flashing when your cars ABS status is active.

ABS Active

ON

OFF

Turn ON/OFF an animation that tells you when the cars ABS is on and active.

### Headlight Flash ON (Default) / OFF

This setting allows you to turn ON/OFF an headlight flash animation when your cars headlights are flashed.

Headlight Flash

ON

OFF

Turn ON/OFF an animation for when your headlights flash.

### SC Delta ON (Default) / OFF

This setting allows you to turn ON/OFF an animation for F1 games for when the Safety Car is out and your delta is positive or negative.

SC Delta

ON

OFF

Turns ON/OFF an animation that tells you within F1 if your SC delta is positive or negative.

### Brake ON (Default) / OFF

This setting allows you to turn ON/OFF an innovative feature where as the brakes are applied, as the pressure increases the animation gets brighter before flashing when it reaches its maximum state.

Brake

ON

OFF


Turns ON/OFF a gradient then blink animation for when using the brakes to a maximum pressure.



## Brake Force Blink

1-100% - Default is 80%

This setting allows you to set the percentage of brake force needed before the above Brake Force Blink setting reaches its maximum value and blinks.

Brake Force Blink 

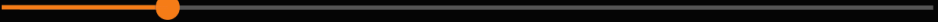
80

Sets the percentage of brake force needed for the brake force animation to flash.

## White Flag Final Lap Duration

1-60 (seconds) / Default is 10

This setting allows you to set the maximum time period in seconds that the final lap white flag is displayed for.

White Flag Final Lap Duration 

10

VERSION 3.4 ONLY - This setting allows you to select the length of time (in seconds) the white flag displays for after being shown for the final lap. For example, do you want the white flag to show the entire lap? A Nordschleife/Nürburgring lap means you could have a 9 minute long flag. 10 Seconds is the default.

## True Dark Mode - Lovely Dashboard Behaviour

On (Default) / OFF

This setting allows you to mimic the behaviour of the Lovely Dashboard Settings file for those who use it as far as True Dark Mode is concerned. Turning it ON will automatically take the ON/OFF True Dark Mode state from the Lovely Dashboard settings file. It will also copy and match the corresponding True Dark Mode colour state from the Lovely Dashboard mirroring it on your LEDs also.

TDM Lovely Dashboard Behaviour  ON  OFF

Where users of the Daniel Newman Racing LED profiles also have the Lovely Dashboard with settings file installed, copying the Lovely Dashboard True Dark Mode behaviour above, will automatically take the ON/OFF True Dark Mode state from the Lovely Dashboard settings file. It will also copy and match the corresponding True Dark Mode colour state from the Lovely Dashboard mirroring it on your LEDs also.

## True Dark Mode

On (Default) / OFF

This setting will enable or disable the use of True Dark Mode for users who do not have the Lovely Dashboard installed.

TDM  ON  OFF

This setting will enable or disable the use of True Dark Mode for users who do not have the Lovely Dashboard installed.

## TDM Colour

Red (Default) / Blue / Purple / Orange

This setting will allow you to change the colour of True Dark Mode used when activated between one of 4 colours listed above.

TDM Colour

Red



This setting will select the colour of True Dark Mode LEDs for users who do not have the Lovely Dashboard installed and thus are missing that settings file OR for when copying the Lovely Dashboard behaviour has been disabled.

## TDM Hotkey

User Configurable

This setting will allow you to set the hotkey used to activate True Dark Mode for where the Lovely Dashboard settings file is not present or detected. It will also allow you to turn on True Dark Mode independently if you wish to do so.

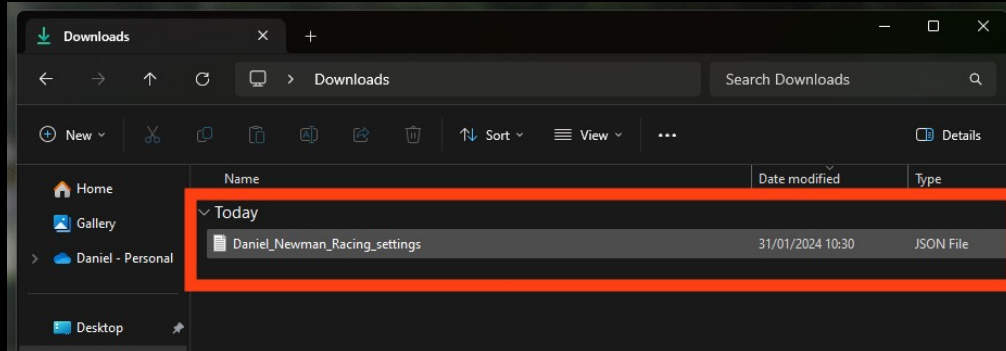
TDM Hotkey

Alt+Shift+D

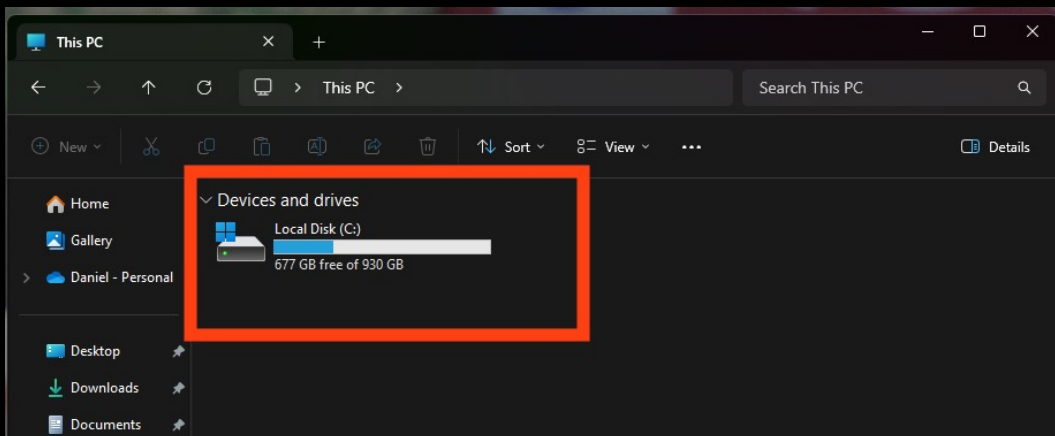
Put any hotkey here to be able to switch to TDM - This LED profile will automatically connect to the Lovely Dashboard settings file (if present) and mirror the True Dark Mode hotkey used by the Lovely Dashboard. For Users who do not have the Lovely Dashboard installed, this setting instead allows you to set your own independent hot key to turn on True Dark Mode.

### Step 3 - Upload Your Preferences

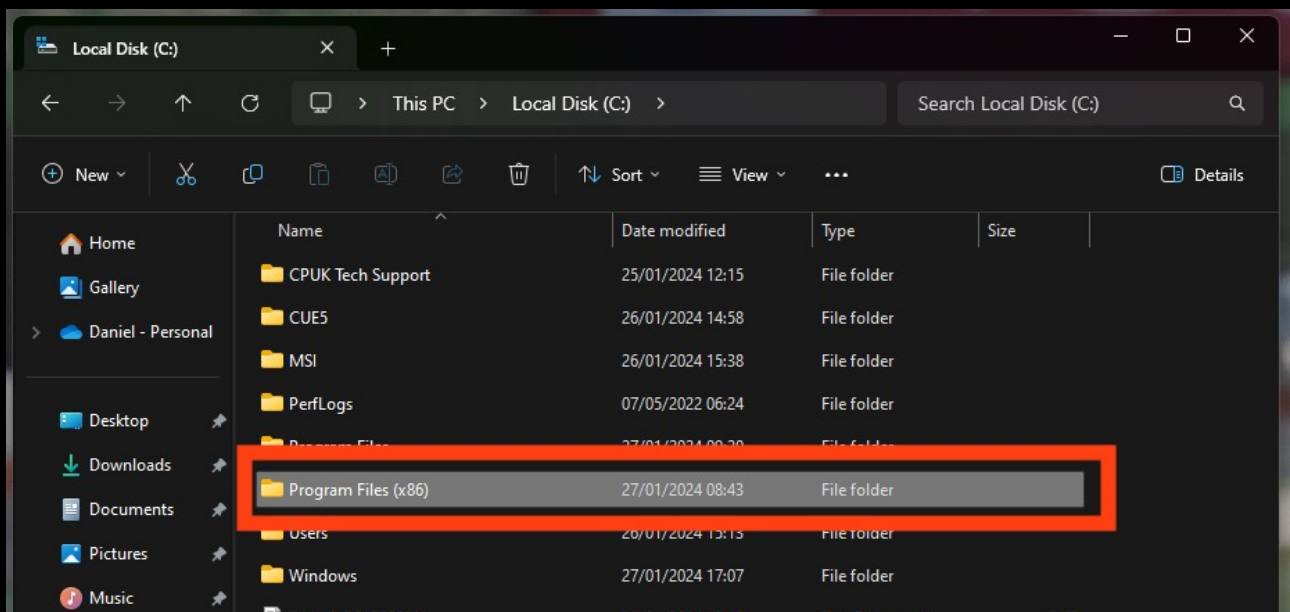
Once you have chosen your optimum settings in the Daniel Newman Racing configurator via the website, you can then press 'Download File' at the bottom of the page. A new file will then be saved to your computers designated download space and be named 'Daniel\_Newman\_Racing\_settings.json'



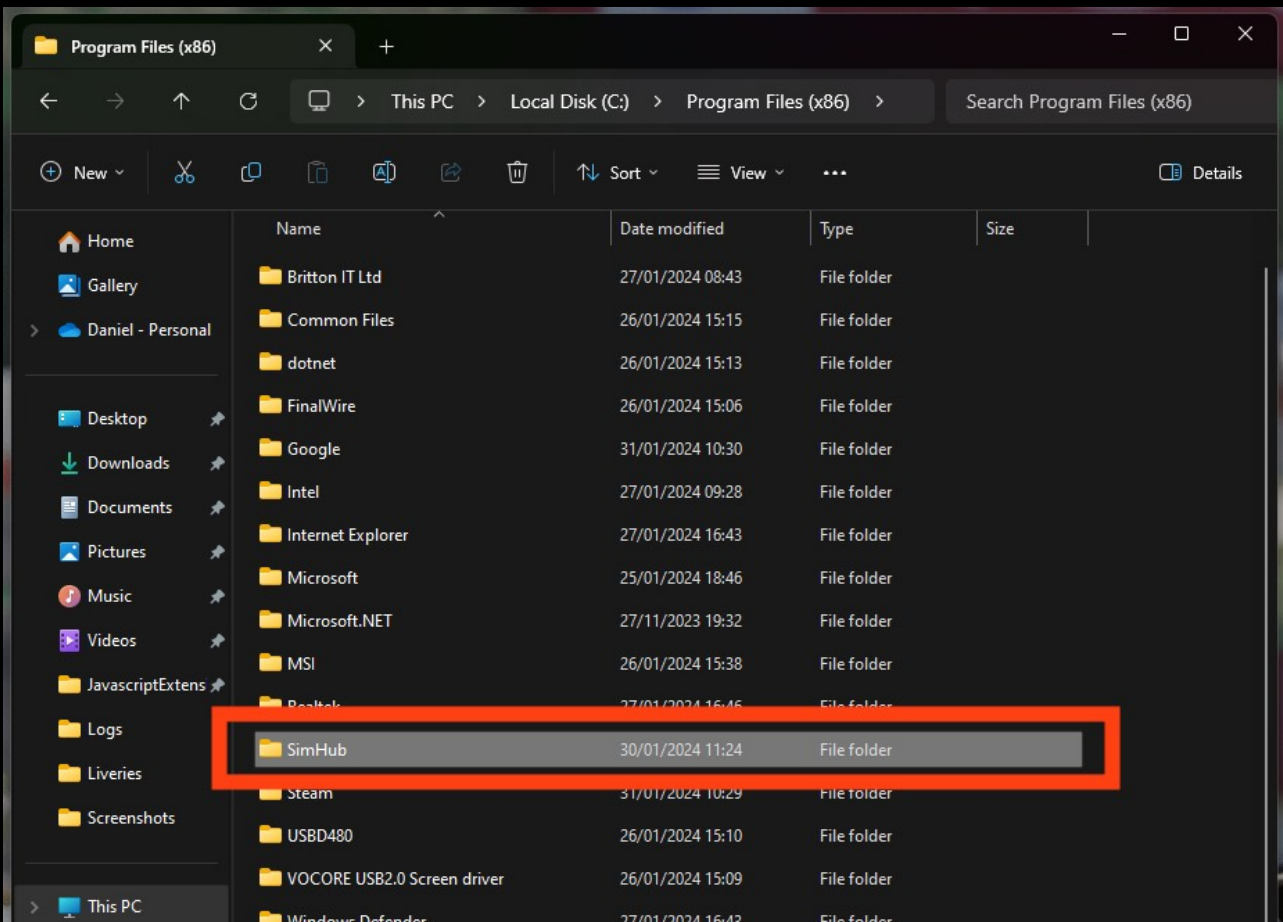
The file now needs copying to the SimHub JavascriptExtensions folder. Locate your PC's main C: Drive



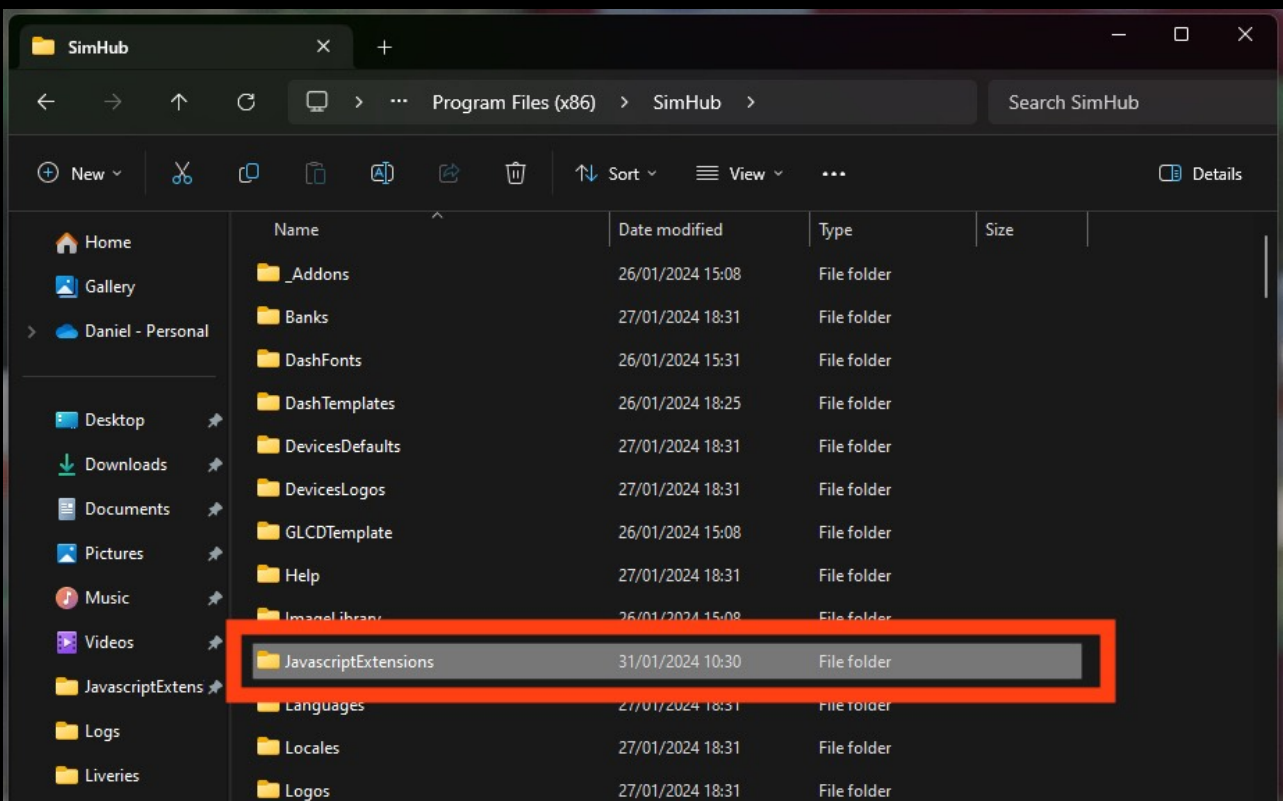
Enter the Programme Files section (x86)



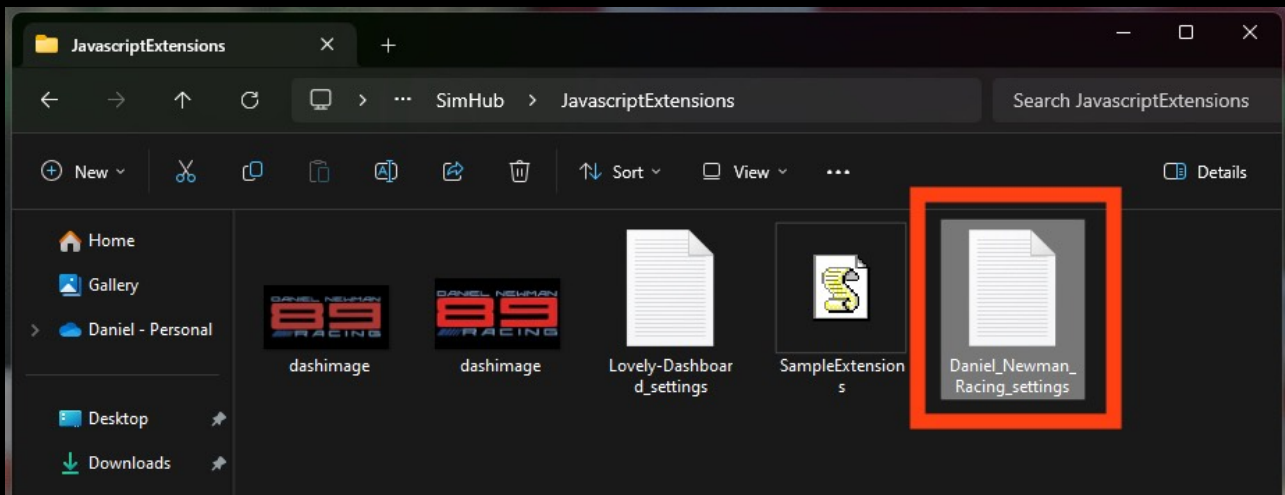
When in the Programme Files folder, locate the SimHub folder



Then locate the JavascriptExtensions folder



Now copy and paste (or move), your Daniel\_Newman\_Racing\_settings.json file into this folder



Your JSON 'settings file' is now copied to its correct location. In order for the changes to take effect you will need to restart SimHub by ensuring the application is CLOSED, and then reopened.

For any further issues and troubleshooting you can contact Daniel Newman Racing via the website (<https://www.danielnewmanracing.com>) or via email at [daniel@danielnewmanracing.com](mailto:daniel@danielnewmanracing.com)

Alternatively you could join the excellent Discord Community, where somebody will be able to assist you: <https://discord.gg/GAXEGnZawS>

If you like the work created by Daniel Newman Racing, you can also become a member of contribute towards the ongoing development here: <https://www.ko-fi.com/danielnewmanracing>