



# INSTRUCTION MANUAL



## GRID DDU5

### VERSION 1.4

Last updated: 19-04-2024

# BEFORE YOU START:

Thank you for your purchase. In this manual we will provide you with the means to get started using your new dash!

## GRID DDU5

Features:

5" 854x480 VOCORE LCD

20 full RGB leds

Up to 30 FPS

24 bit Colors

USB Powered

Multiple software options

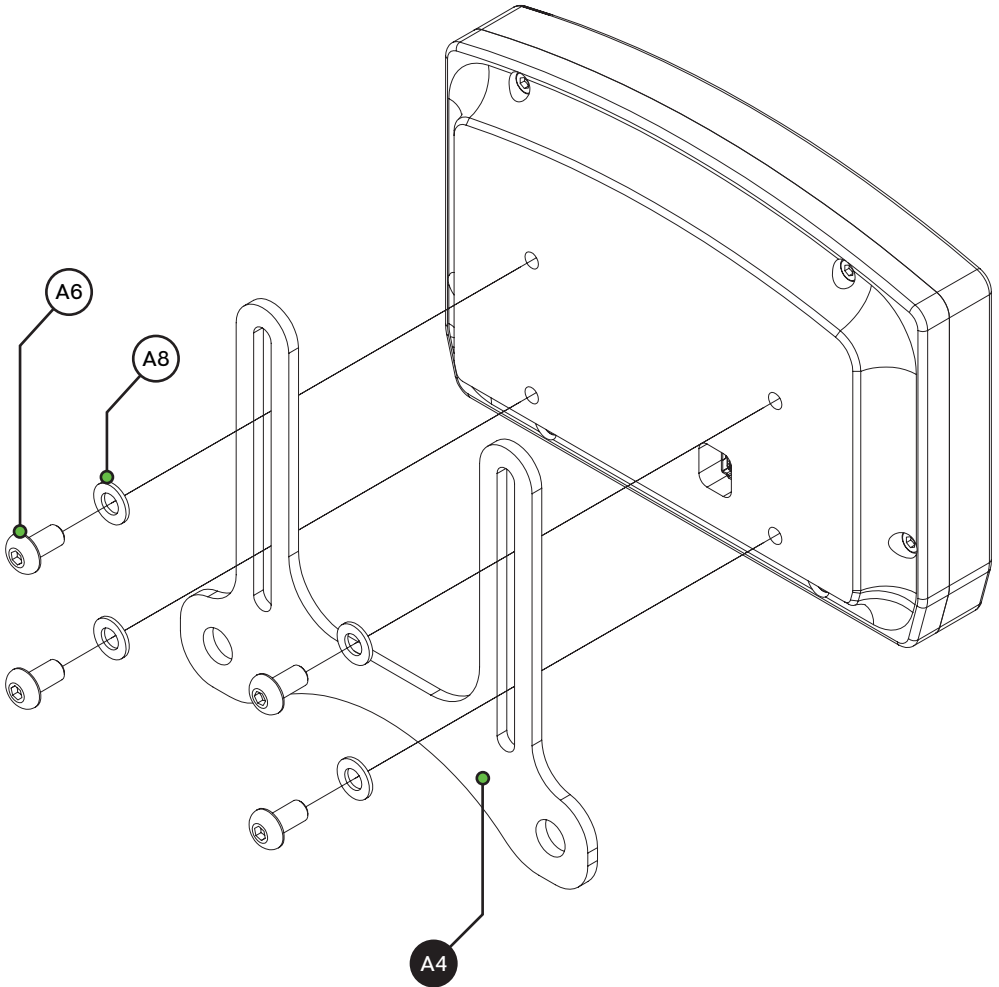
Drivers included



Mounting the dash is very easy thanks to the included mounting brackets. We offer a wide range of support for most popular hardware. In this manual we only display the two mounting brackets included with the dash. Please review our website to determine which mounting bracket fits your hardware.

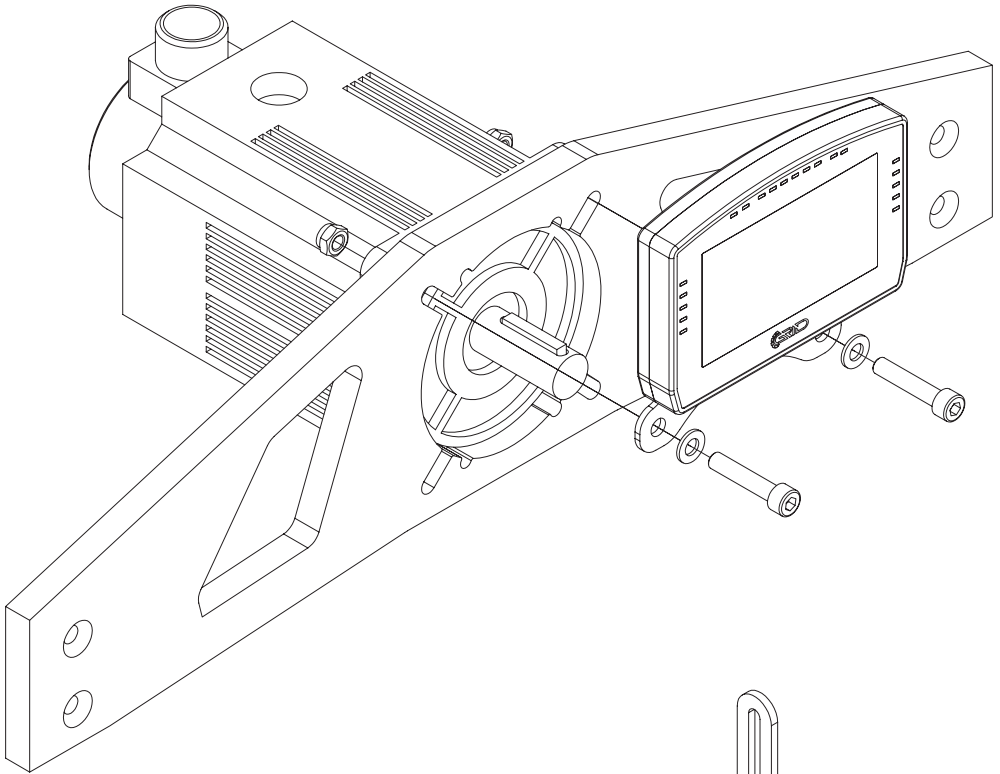
## Mounting the dash

To be able to mount the dash on the hardware of your choice, we provide several mounting brackets. Which ones you have received may depend on your purchase and may be different from the following ones we show. However, mounting is all more of the same. With the instructions for the two included brackets, you should be able to mount any specific ones for your hardware.

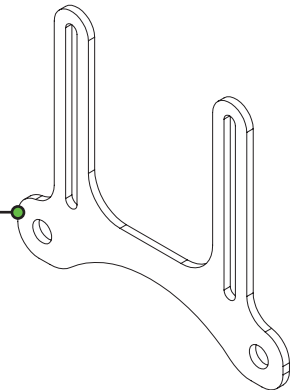


## OSW/SC1/VRS

Remove the existing upper bolts which hold the motor in place. Re-use these bolts and washers to fix the mounting bracket to the front mount.

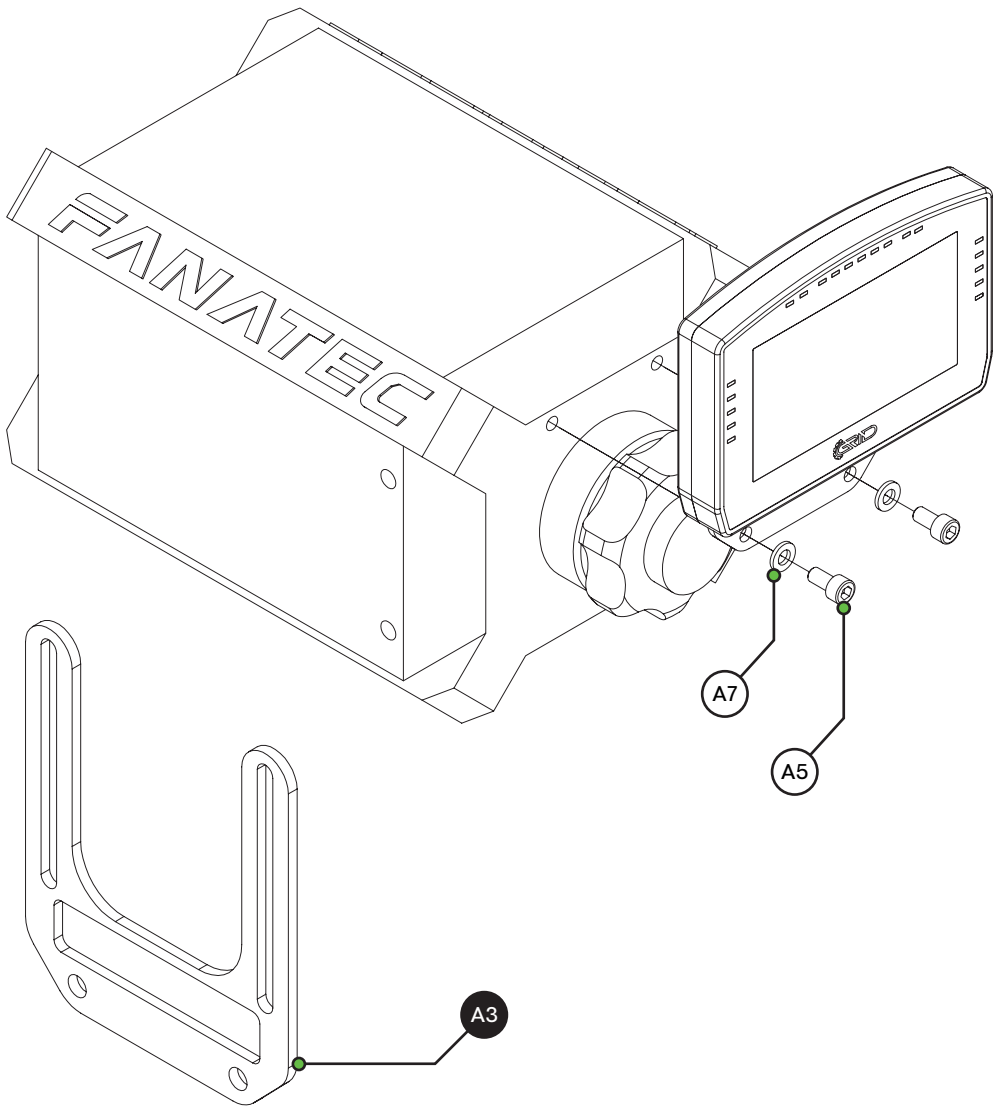


A4



## Fanatec DD1/DD2

Locate the accessory mounting holes on your Fanatec hardware and use the two bolts (A4) and washers (A6) from our supplied hardware kit.



# Installing drivers

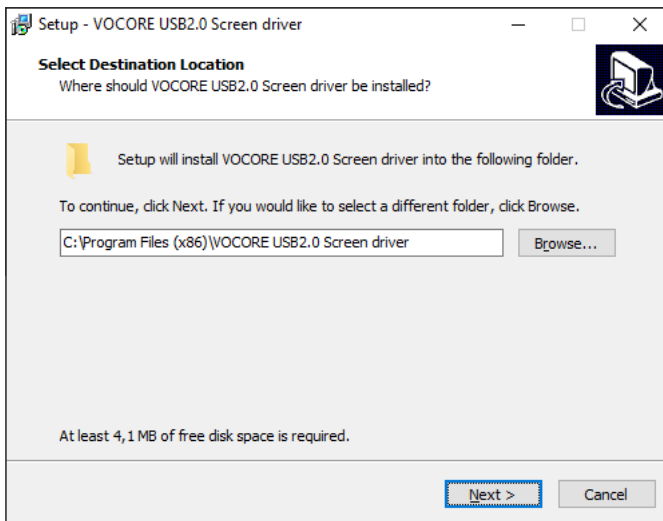
To make the display part of the dash functional, specific drivers are needed. Drivers can be downloaded from the product page.

[Vocore drivers download:](#)



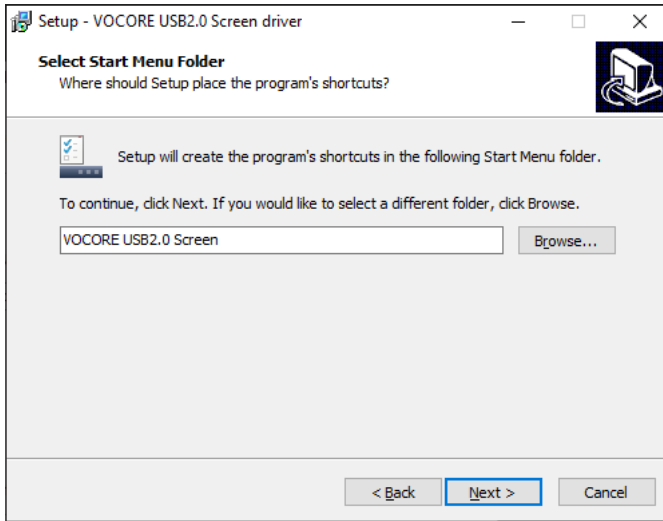
## Installation

To install the display drivers, run the downloaded package and specify the location where to install the drivers:



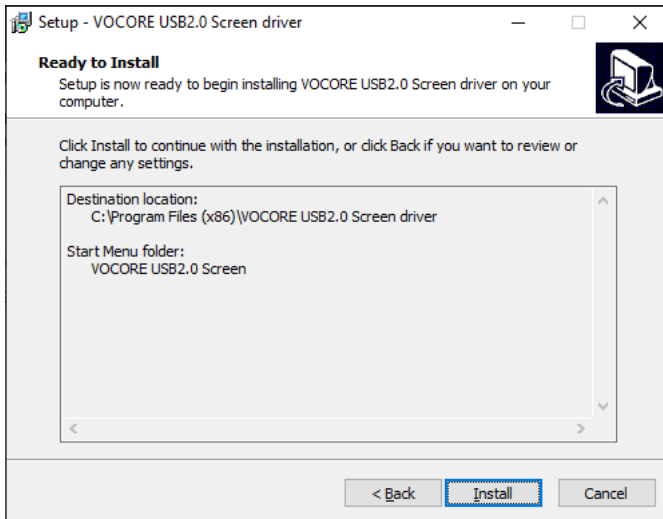
Press 'Next'.

Specify the name of the start menu folder:



Press 'Next'.

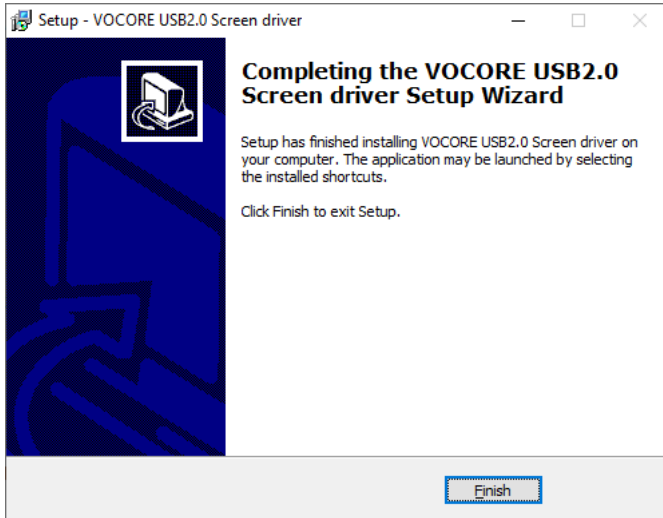
Review the settings before installation:



Press 'Install'.

The drivers will install now. Sometimes this can take longer than expected. This usually means a system restore point is being made and should not hinder installation.

If it does, unplug the USB cable to the Dash in case it is connected and try again. Make sure you have administrator rights on your system.



Press 'Finish'.



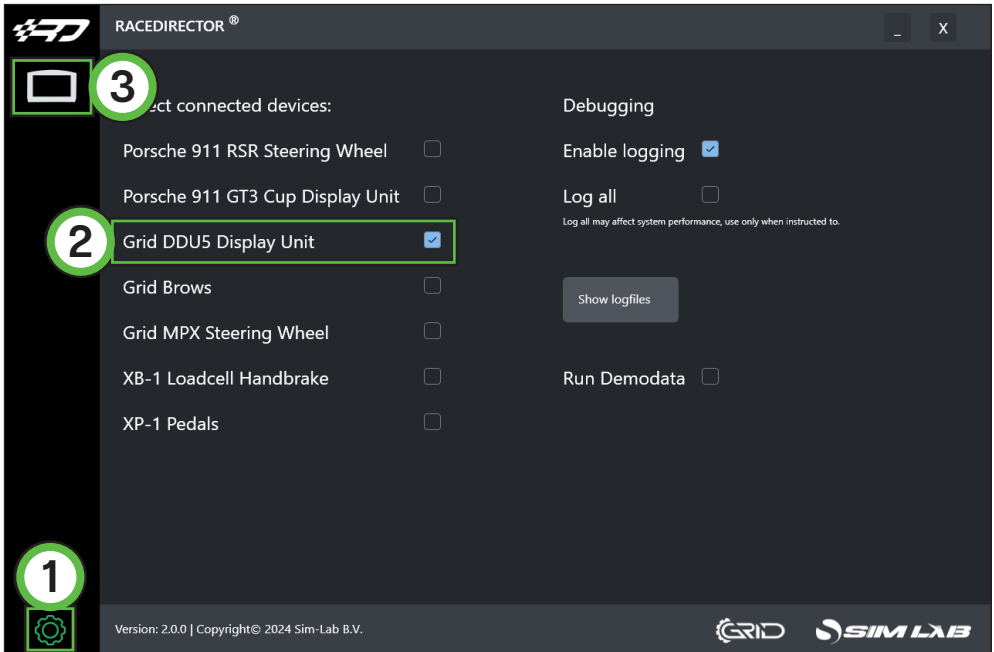
# RaceDirector

Download and install the latest version of RaceDirector from [www.sim-lab.eu/srd-setup](http://www.sim-lab.eu/srd-setup)

For explanation on how to install and use RaceDirector, please read the manual. This can be found here: [www.sim-lab.eu/srd-manual](http://www.sim-lab.eu/srd-manual)

We will now go over the very basics to get going using RaceDirector to get you on track asap. We really urge you to go through the manual for a more in depth explanation of the possibilities RaceDirector has to offer.

First we need to activate the product, this is done on the 'Settings' (1) page.

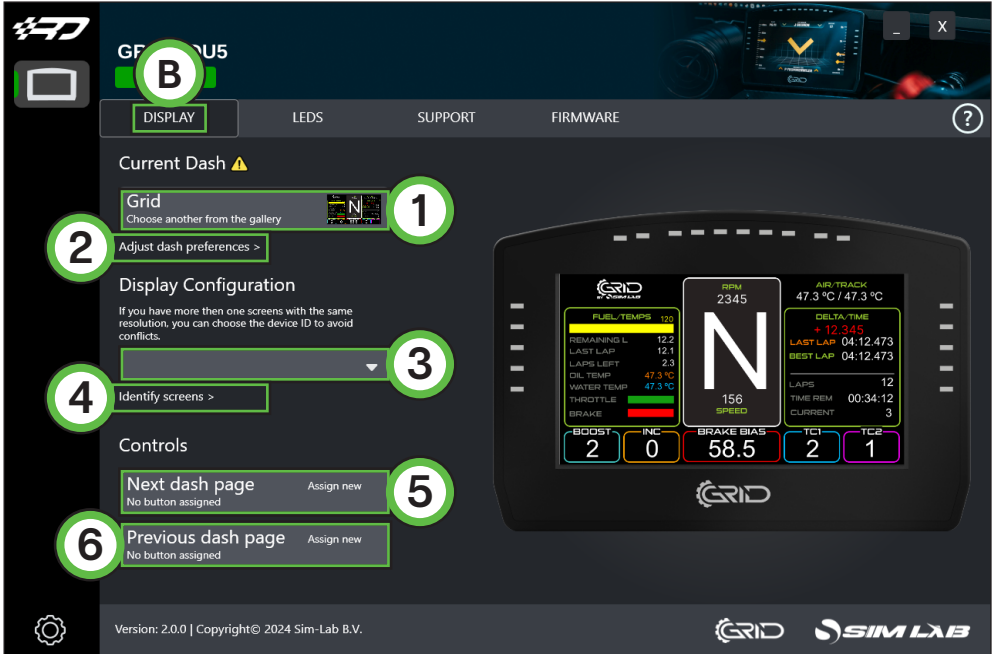


Tick the 'Activate' tickbox next to 'Grid DDU5 Display Unit' (2) and its icon (3) should appear on the left side of the screen. Selecting the icon (3) will take us to its device pages.


# Device pages

## DISPLAY (A)

Almost all of the options found here speak for themselves, though for the sake of being complete, we will go over them on by one.



### - 'Current Dash' (1)

This allows you to select a dash for a given car. We do not support all cars in every sim. In case a caution symbol  is shown, the selected dash requires installation of a font. Click the icon and a window with instructions will pop up. Follow these to manually install the fonts required. After restarting RaceDirector, you are good to go.

### - 'Adjust dash preferences >' (2)

A new window will allow you to adjust some dash preferences. (See next page)

### - 'Display configuration' (3)

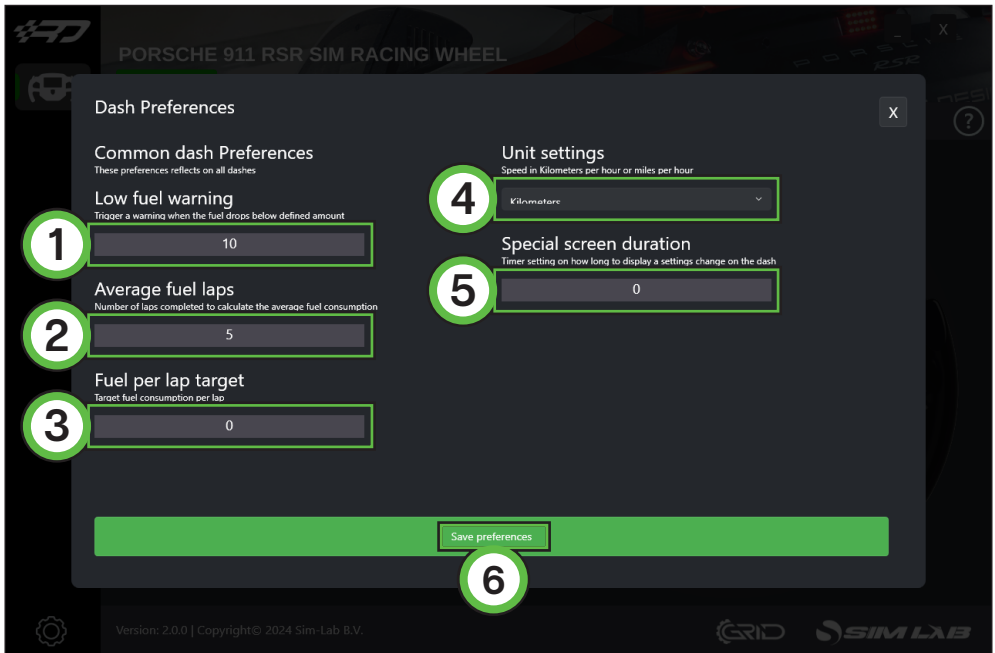
This will make sure the chosen dash is rendered on the intended display. When you are not sure which display to select, press 'Identify screens >' (4) to help identifying which display is which. If a single vocore screen has been connected, this will be automatically selected.

- 'Next dash page' (5)  
Cycle to the next page of the loaded dash. Select the appropriate button you want to use and press 'Confirm'.
- 'Previous dash page' (5)  
Cycle to the previous page of the loaded dash, works like described above.

Note: when the page controls are configured, they won't affect a dash *unless* a sim is running *or* the 'Run Demodata' option is ticked in the RaceDirector settings.

## Dash Preferences

These are common settings shared among dashes.



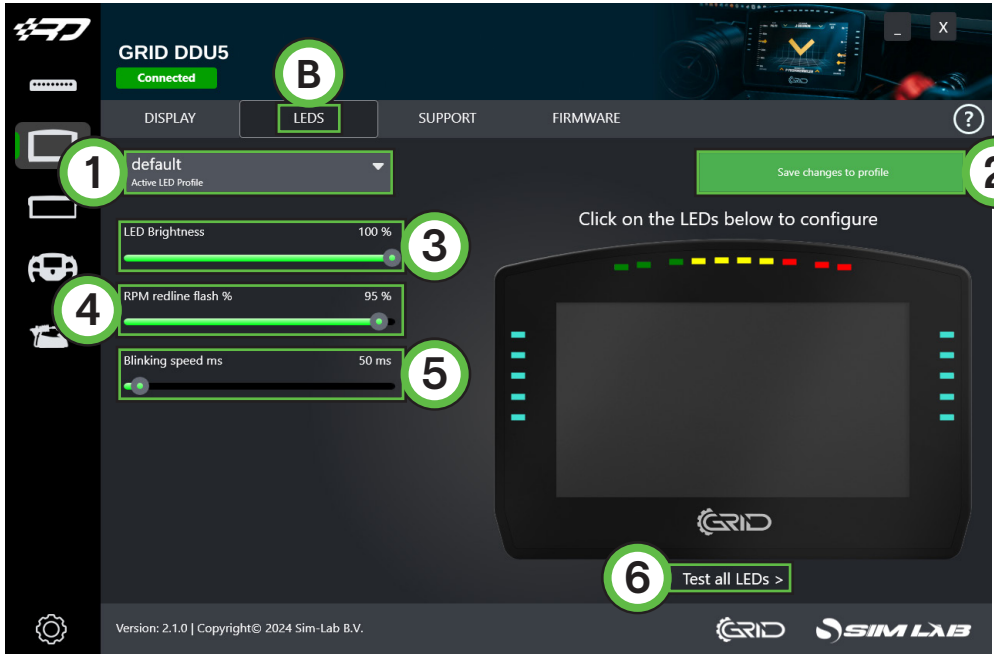
We do expect these to slowly expand, depending on requests from the community and new cars added to our favorite sims.

- 'Low fuel warning' (1)  
This number (in liters) will be used for the dash to know when to activate the 'Low Fuel' alarm or warning.
- 'Average fuel laps' (2)  
This value determines how many laps are used to calculate average fuel usage. The average is reset every time you enter the pits to keep the average a fair number.
- 'Fuel per lap target' (3)  
This value (in liters) allows you to set a target fuel consumption (per lap), great to use in endurance racing.
- 'Unit settings' (4)  
At the moment this setting only applies to the speed variable.
- 'Special screen duration' (5)  
Special screens are overlays which are triggered when adjusting certain functions. Think brake balance, traction control etc. This number (in seconds), changes the duration of the overlay. A value of 0 is turning the feature off entirely.

When happy with your settings, press 'Save preferences' (6) to return to the main RaceDirector window.

## LEDS (B)

This will be explained in two parts, first we will go over the main options.



### - 'Default' (1)

This selection menu is how you select an existing profile and load it, or create a brand new one. In this case, the 'default' LED profile is loaded. You can create and store as many as you like.

### - 'Save changes to profile' (2)

Use this button to save changes made to a profile, or use it to save a new profile. This button also warns you have when a change was made to an existing profile, turning orange as a warning.

### - 'LED Brightness' (3)

This slider changes the brightness for all LEDs on the device.

### - 'RPM redline flash %' (4)

This is the value in % where your redline flash or shift warning will be listening to. This does require your revlights to have the 'RPM redline flash' behavior enabled. This is a global setting per device.

- 'Blinking speed ms' (5)

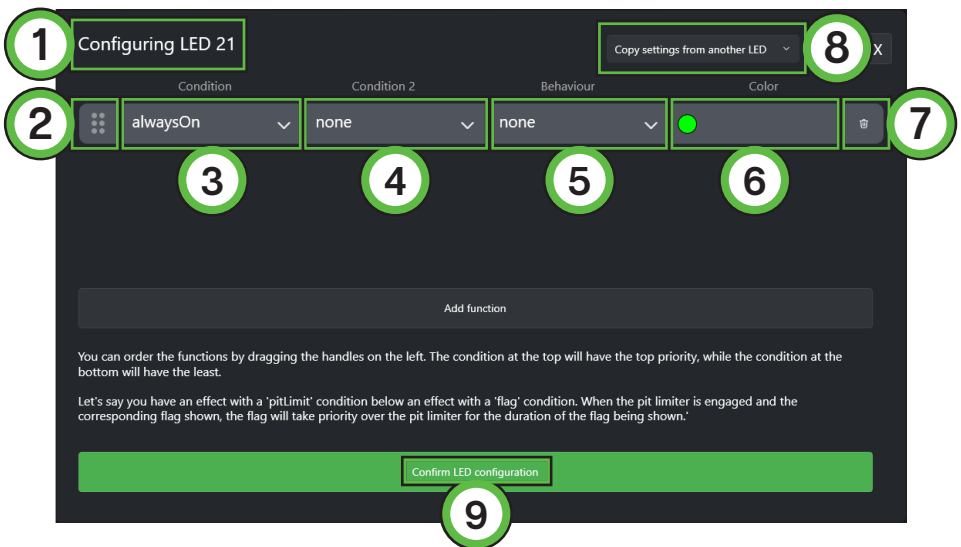
This determines how slow or fast your LEDs will be blinking in milliseconds. This is a global setting per device and requires the 'Blinking' or 'RPM redline flash' behavior to be activated. Warning: please take care with low settings when you are sensitive to seizures. We recommend to start too slow (high ms) and tweak from there.

- 'Test all LEDs >' (6)

This opens up a pop-up window where you use test input to see what the LEDs do using the currently loaded profile.

One thing which is quickly apparent from switching to this page, is the addition of colored LEDs. The loaded LED profile is visually represented on the device, which can be adjusted very easily. Every LED can be clicked on and adjusted inside the LED setup window.

Clicking on any LED/color brings up the LED setup window. This shows the LED number (1) and the functions which can be configured. Each LED can behave differently and can contain up to 3 functions (rows) at a time. An overview; 'Condition' (3), 'Condition 2' (4), 'Behaviour' (5) and 'Color' (6). There is also the possibility to 'Copy settings from another LED' (8). There is also a 'Sorting' (2) and a 'Remove' (7) function.



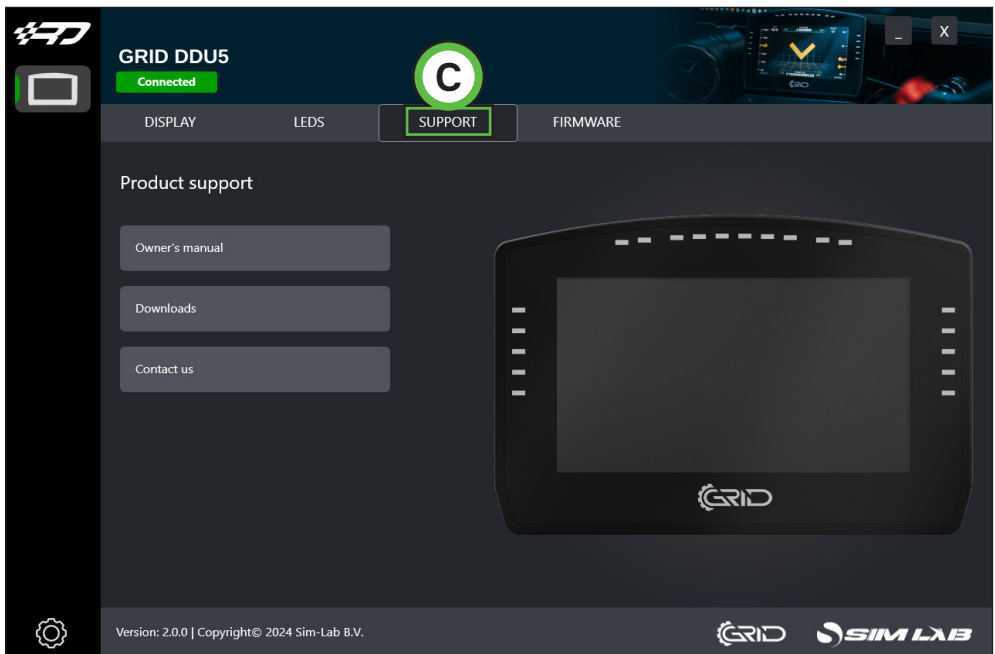
When happy with your settings, there is the obligatory 'Confirm LED configuration' (9) button. This confirms your LED settings and returns you to the main RaceDirector window.

There should be enough info in the provided default LED profiles to be able to adjust LED settings to your liking. To start building your own profile, we suggest to copy an existing one and change where needed. The advantage is you always have a backup of the default profile to fall back to.

We do recommend to read the [RaceDirector manual](#) for detailed information on functions, settings and basic rules for the LED settings and the LED setup window.

## SUPPORT (C)

If you run into trouble with your hardware, here are a few options to help you in finding a solution.



## FIRMWARE (D)

On this page you can see the current firmware loaded on the device. If your firmware is out of date, we recommend to update it using our tool.

The screenshot shows the RaceDirector software interface for a GRID DDU5 device. At the top left, there is a 'Connected' status indicator. The main navigation menu includes 'DISPLAY', 'LEDS', 'SUPPORT', and 'FIRMWARE', with 'FIRMWARE' being the active tab. The central content area displays the message 'Your device is up to date' and provides details about the current and available firmware versions. A 'How to update' section includes instructions and a prominent 'Firmware update tool' button, which is highlighted with a green circle containing the number '1'. A notification 'D' is visible in the top right corner. The bottom of the interface shows the version '2.0.0' and copyright information for 2024 Sim-Lab B.V., along with the GRID and SIM LAB logos.

RaceDirector keeps tabs on current firmware versions. When it detects a difference, a notification ● will let you know more recent firmware has been detected.

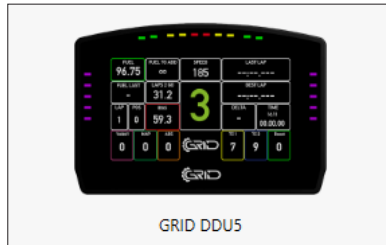
Press 'Firmware update tool' (1) to download the tool.

For more information on how to use the tool, please see its documentation: [sim-lab.eu/firmware-updater-manual](https://sim-lab.eu/firmware-updater-manual)



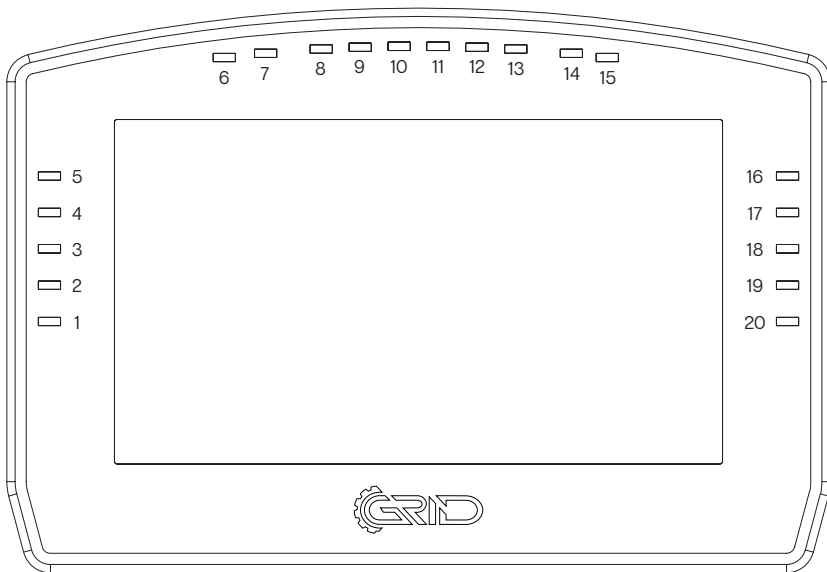
# Simhub Support

For advanced users, we do still support people who prefer using Simhub. When adding a device, choose the 'GRID DDU5'.



## Changing the LEDs' functions.

To change the LED effects you need to know their numbering to identify them on the device. The following schematic shows the LED numbering for reference.



There should be enough info in the provided default LED profiles to be able to adjust LED settings to your liking. To start building your own profile, we suggest to copy an existing one and change where needed. The advantage is you always have a backup of the default profile to fall back to.

Note: for issues/troubleshooting your Simhub profiles, please refer to Simhub documentation or Simhub support.

# Bill of materials

IN THE BOX			
#	Part	QTY	Note
A1	Dash DDU5	1	
A2	USB B-mini cable	1	
A3	Bracket Fanatec DD1/DD2	1	
A4	Bracket OSW/SC1/VRS	1	
A5	Bolt M6 X 12 DIN 912	2	Used with Fanatec.
A6	Bolt M5 X 10 DIN 7380	4	To fit mounting bracket to dash.
A7	Washer M6 DIN 125-A	4	
A8	Washer M5 DIN 125-A	4	

*Disclaimer: for some entries on this list, we supply more than required as spare materials. Don't worry if you have some leftovers, this is intentional.*

## More information

If you still have some questions regarding assembly of this product or about the manual itself, please refer to our support department. They can be reached at:

support@sim-lab.eu

Alternatively, we now have Discord servers where you can hang out or ask for help.

[www.grid-engineering.com/discord](http://www.grid-engineering.com/discord)

[Product page on the  
GRID Engineering website:](#)

