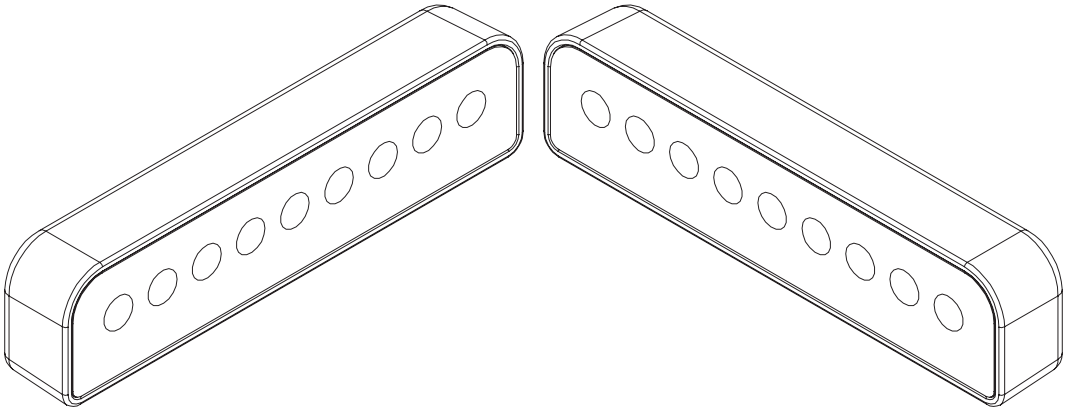
INSTRUCTION MANUAL



BROWS

VERSION 1.2

Last updated: 19-04-2024

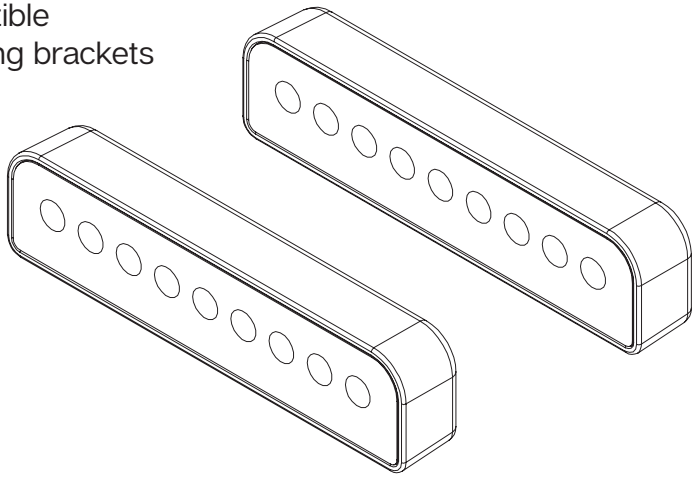
BEFORE YOU START:

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

Similarly used in all forms of real motorsports racing, GRID Brows are a much needed expansion for any dash. With 18 programmable LEDs the possibilities are endless with multiple uses such as spotter info, slip/lock, TC and ABS. (depending on the sim used).

Brows

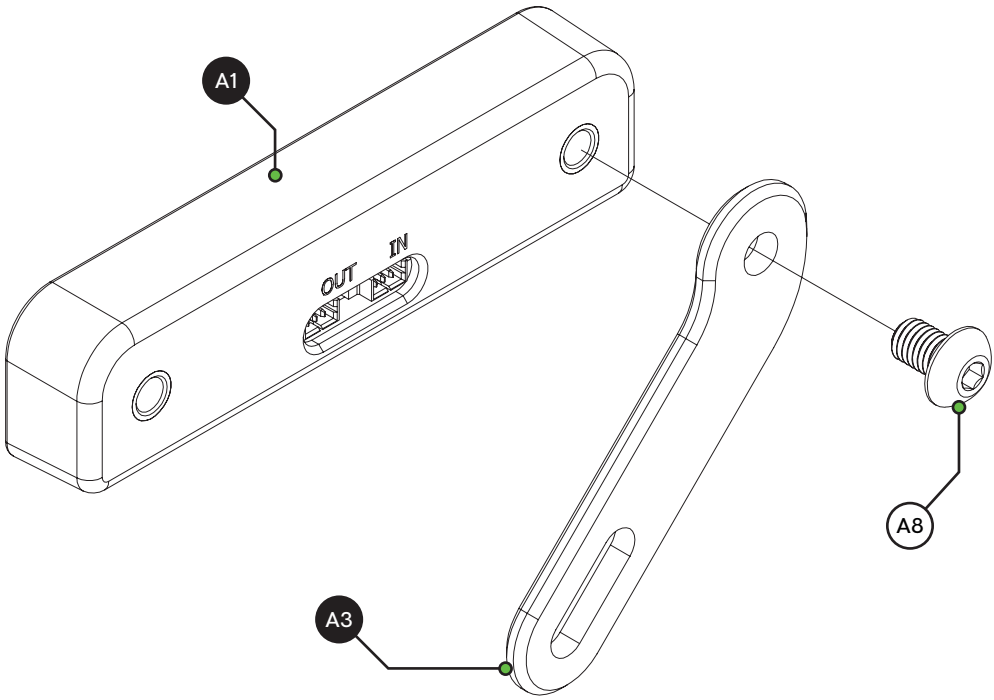
Features:
CFRP enclosures
2x 9 RGB LEDs
RaceDirector compatible
Carbon fiber mounting brackets



Mounting the brows

To be able to mount the brows, we have included carbon fiber mounting brackets. Here is how we suggest to use them, though you can orient them the way you like to suit your cockpit or preference.

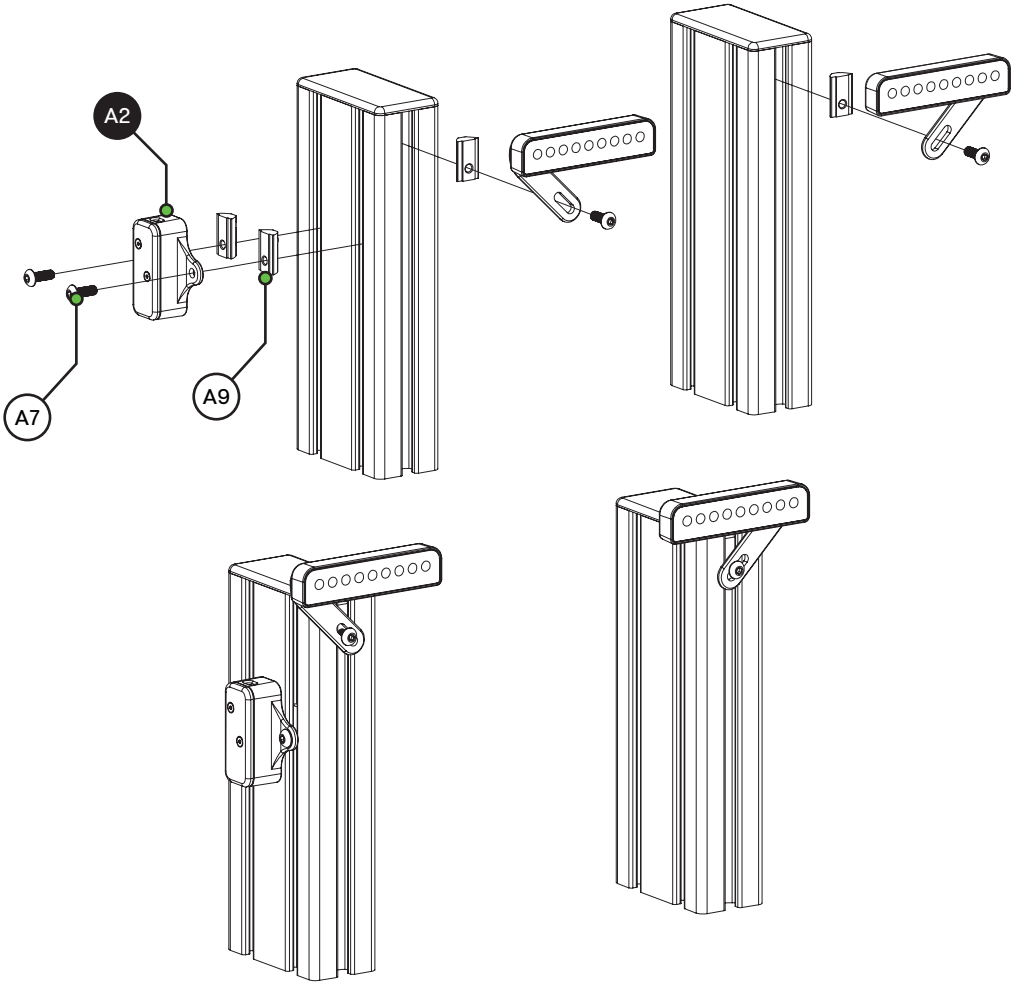
Be sure to use bolt (A8) to fasten the mounting bracket (A3) to a brow (A1).



In this example we are mounting the brows and control box to the uprights of a cockpit. Of course you are free to mount them how and where you see fit.

Since the brows are daisy-chained together, the first brow unit in the chain is considered the 'first' one, defaults to being the left brow. Therefore it makes sense to mount the control box on the left side of the cockpit. Of course, you are free to install these parts how you like to.

All bolts (A7) and slot-nuts (A9) shown are of the same size/type.

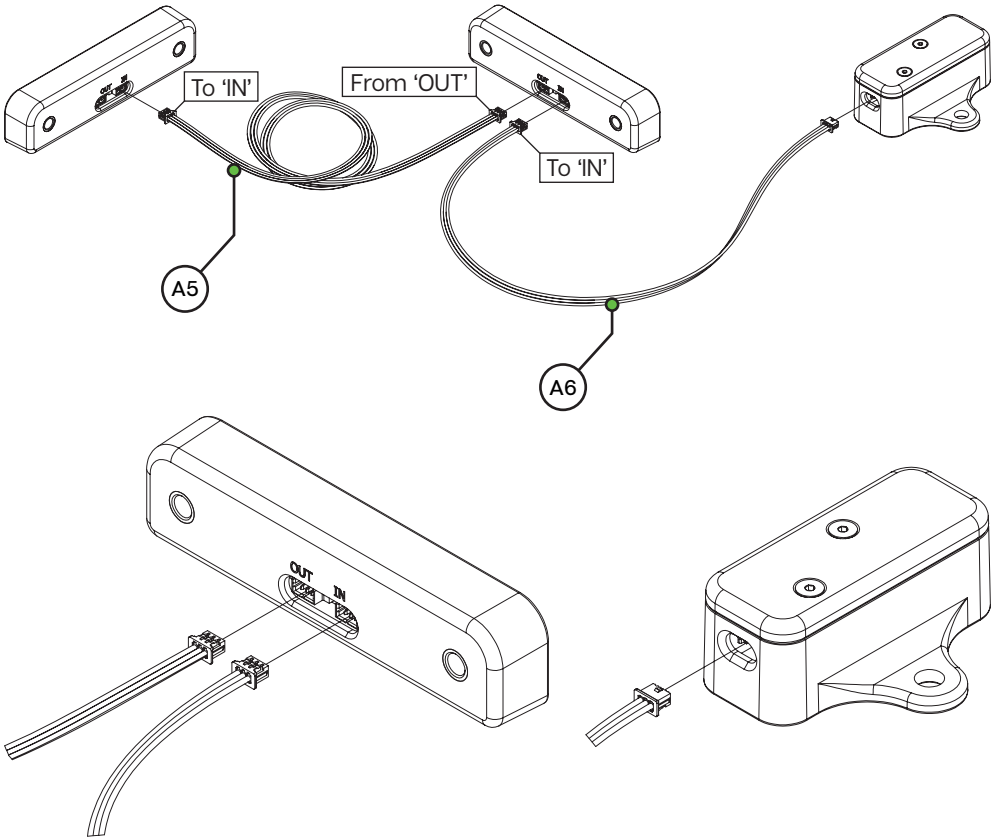


Connecting the brows

As mentioned on the previous page, the brows are daisy-chained to each other and to the control box. Provided are two brow cables, a short (A6) and long (A5) one, next to the USB cable (A4). To wire the control box to the first brow in the chain, we recommend using the short cable (A6). The long cable (A5) will connect the two brow modules together.

Attention! Be mindful of the way you connect the modules to each other, always go from an 'OUT' to an 'IN'. For the second brow module, 'OUT' can be used to connect a third and fourth module. A maximum of four modules in total is supported.

Both brow modules are identical, it doesn't matter in which order you connect them to each other or to the control box.



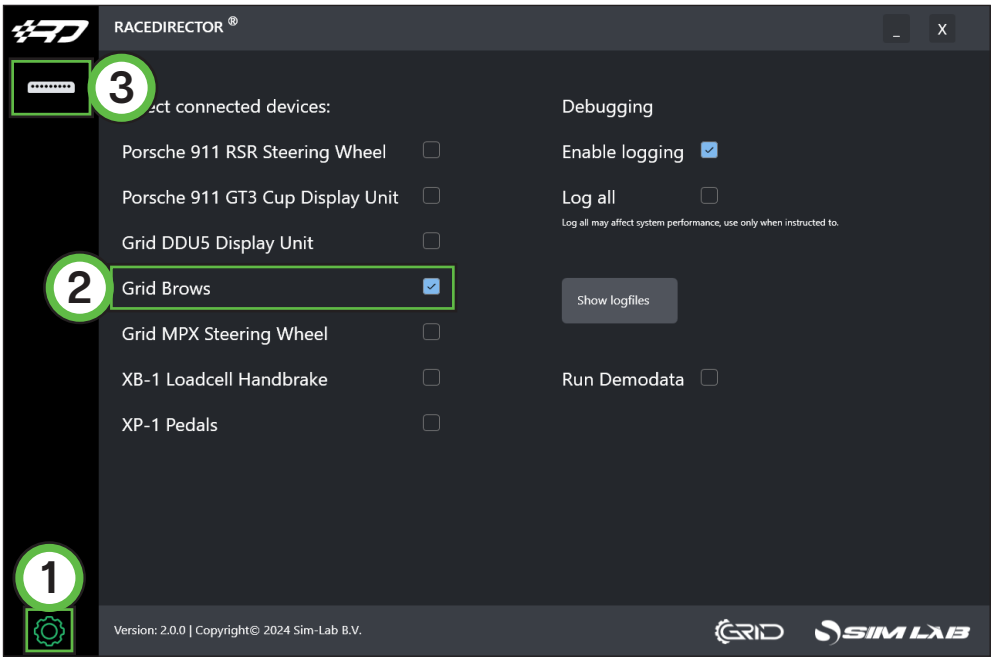
RaceDirector

Download and install the lastest version of RaceDirector from
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*

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 possiblities RaceDirector has to offer.

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

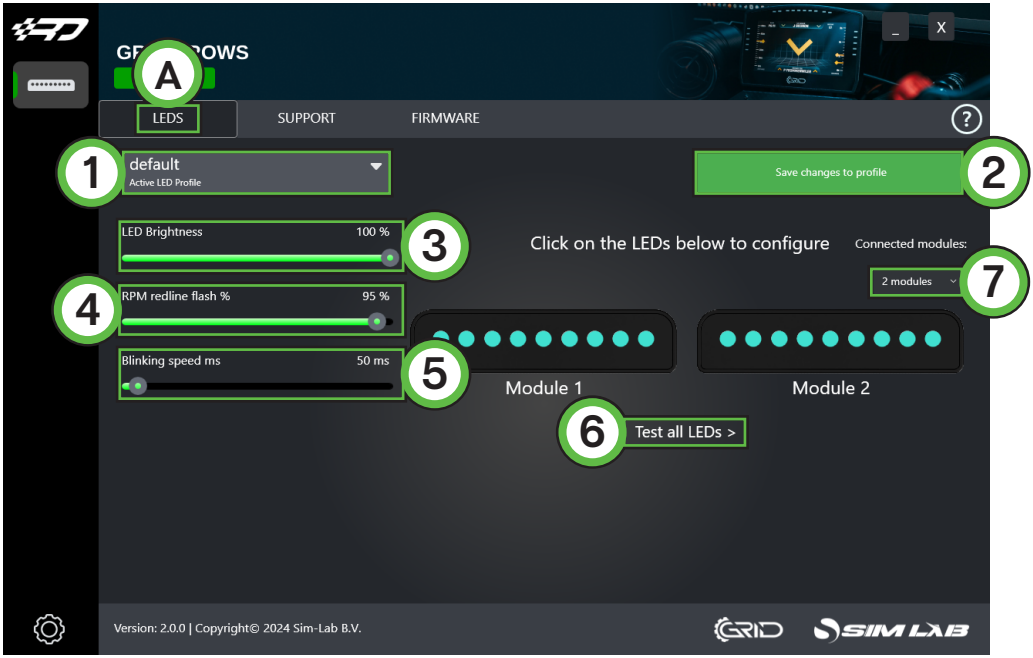


Tick the 'Activate' tickbox next to 'Grid Brows' (2) and its icon (3) should appear on the left side of the screen. Selecting the icon (3) will take us to its device pages.

Device pages

LEDS (A)

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)

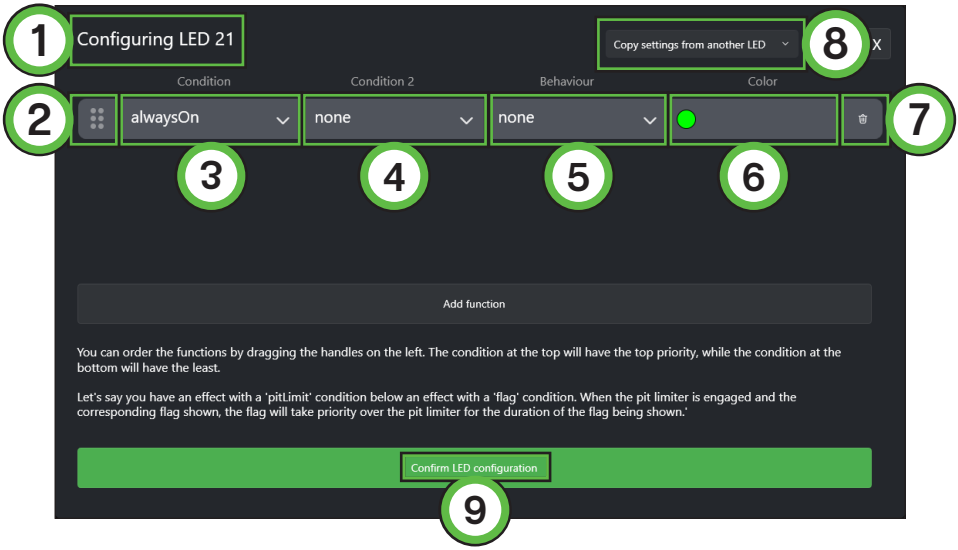
  This opens up a pop-up window where you use test input to see what the LEDs do using the currently loaded profile.

- ‘Connected modules’ (7)

  This drop down menu allows you to select how many modules are in use.

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 brows, 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.

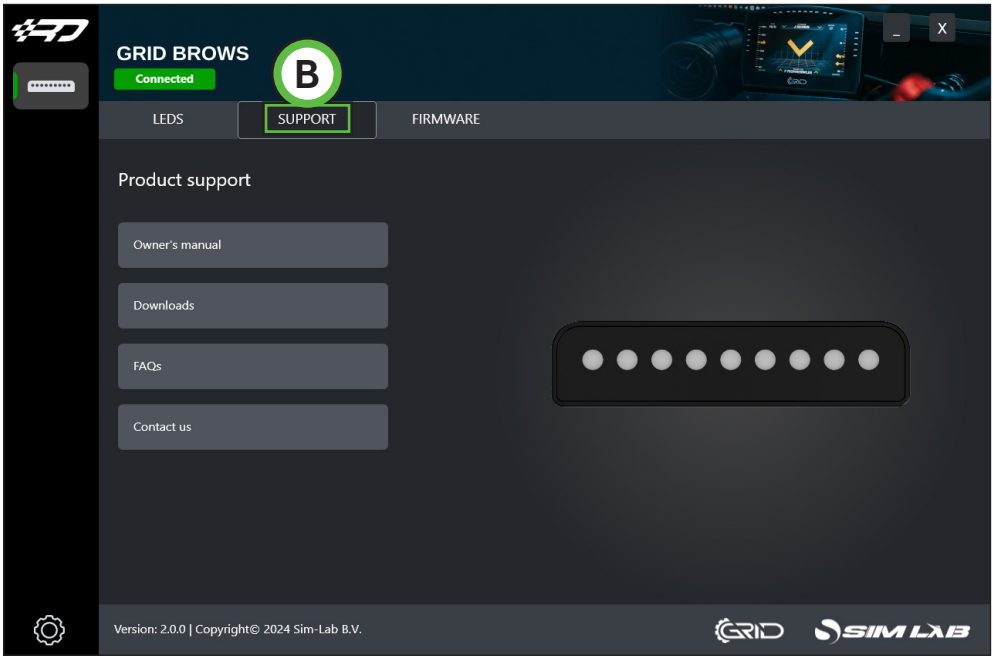


When happy with your settings, there is the obligatory ‘Confirm LED configuration’ (9) button. This confirms your LED settings and returns you to the main RaceDirector window.

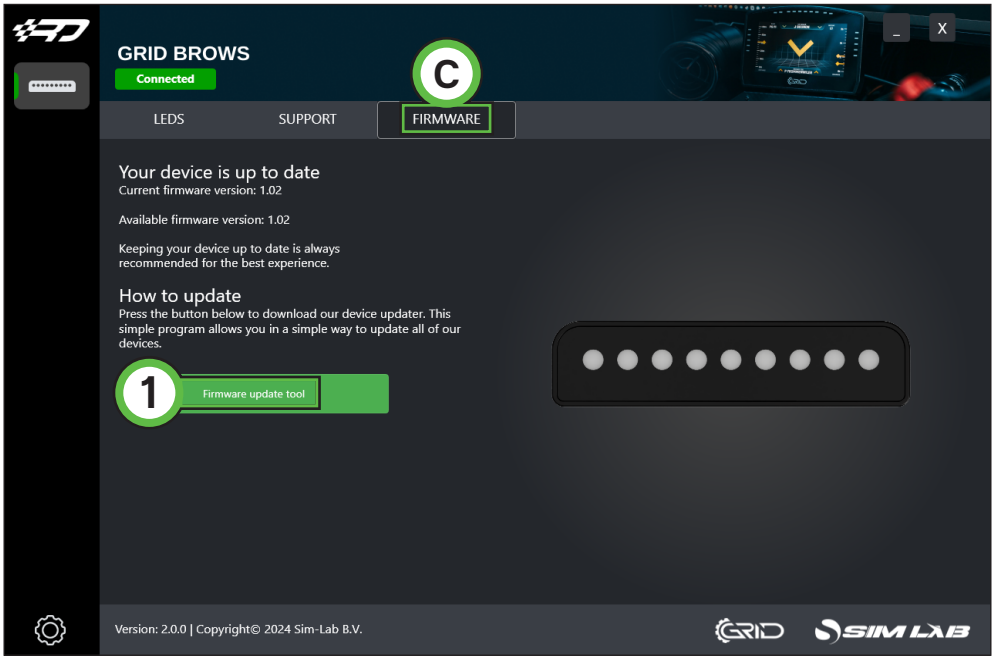
There should be enough info in the provided default LED profiles to be able to adjust LED settings to your liking. To start building your own profile, we suggest to copy an existing one and change where needed. The advantage is you always have a backup of the default profile to fall back to.

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



FIRMWARE (C)
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.



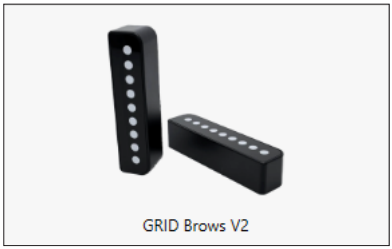
RaceDirector keeps tabs on current firmware versions. When it detects a difference, a notification ● will let you know more recent firmware has been detected.

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

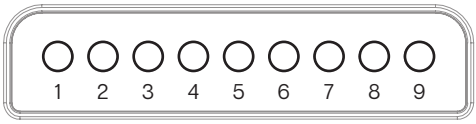
For more information on how to use the tool, please see its documentation:
sim-lab.eu/firmware-updater-manual

Simhub Support

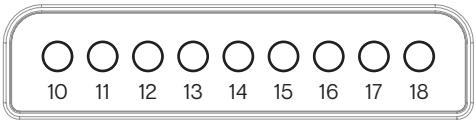
For advanced users, we do still support people who prefer using Simhub. When adding a device, choose the 'GRID Brows V2' device..



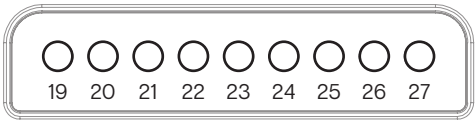
Changing the LEDs' functions.
To change the LED effects you need to know their numbering to identify them on the modules. The following schematic shows the LED numbering for treference.



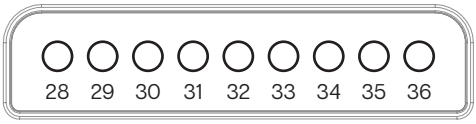
Module 1



Module 2



Module 3



Module 4

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	Brow	2	
A2	Control box	1	Interface to PC.
A3	Mounting bracket	2	
A4	USB-A cable	1	
A5	Brow cable long	1	Use between brows.
A6	Brow cable short	1	
A7	Bolt M5 X 14 DIN 7380	2	
A8	Bolt M5 X 8 DIN 7380	4	
A9	Slot-Nut M5	4	

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.sim-lab.eu/discord / www.gridbysimlab.com/discord

Product page on the GRID Engineering website: