VESC Display Quick Start Guide

Key Features:

- USB-C connectivity
- Bluetooth connectivity
- WiFi (Access point & station)
- Fully programmable functions & user interface via LISP scripting
- Four tactile buttons
- RGB 320x240 Screen
- Adjustable user profiles
- Can be used to power on/off any Trampa VESC

Please make sure to read and understand ALL THE INFORMATION included in this manual, before attempting to set up the display!

Version 1.2

Connecting the Display to a VESC

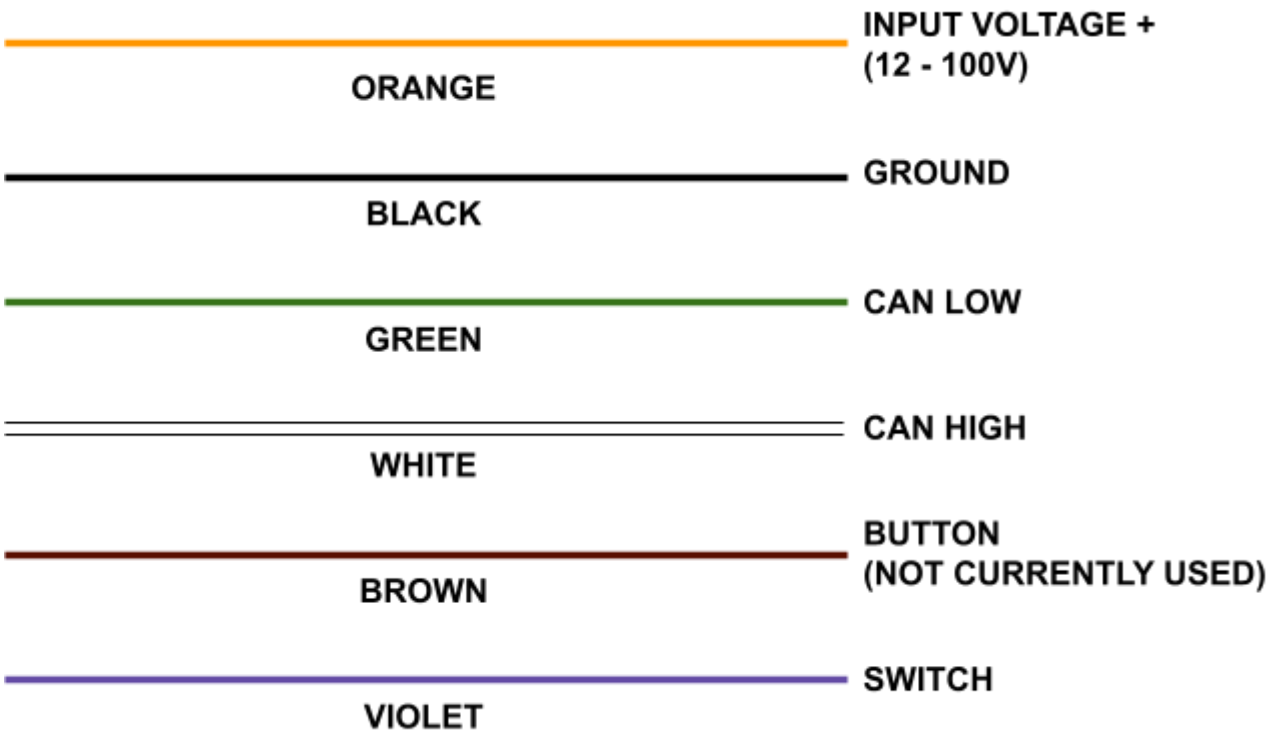
Before connecting the Display to the VESC, ensure the VESC is unplugged from the battery and powered off.

The Display must be connected to the master VESC.
The master VESC is the VESC which any inputs such as ADC throttles, brakes or the Trampa Wand are connected to.

A 6 Pin HIGO connector is used to connect the Display to the VESC.
Included with the screen is a 6 pin breakout cable.

The diagram below indicates the function of each cable and which pin it should be connected to on the VESC:

Button (brown) does not need wiring in for the display to function.



Updating the VESC Tool to Version 6.05

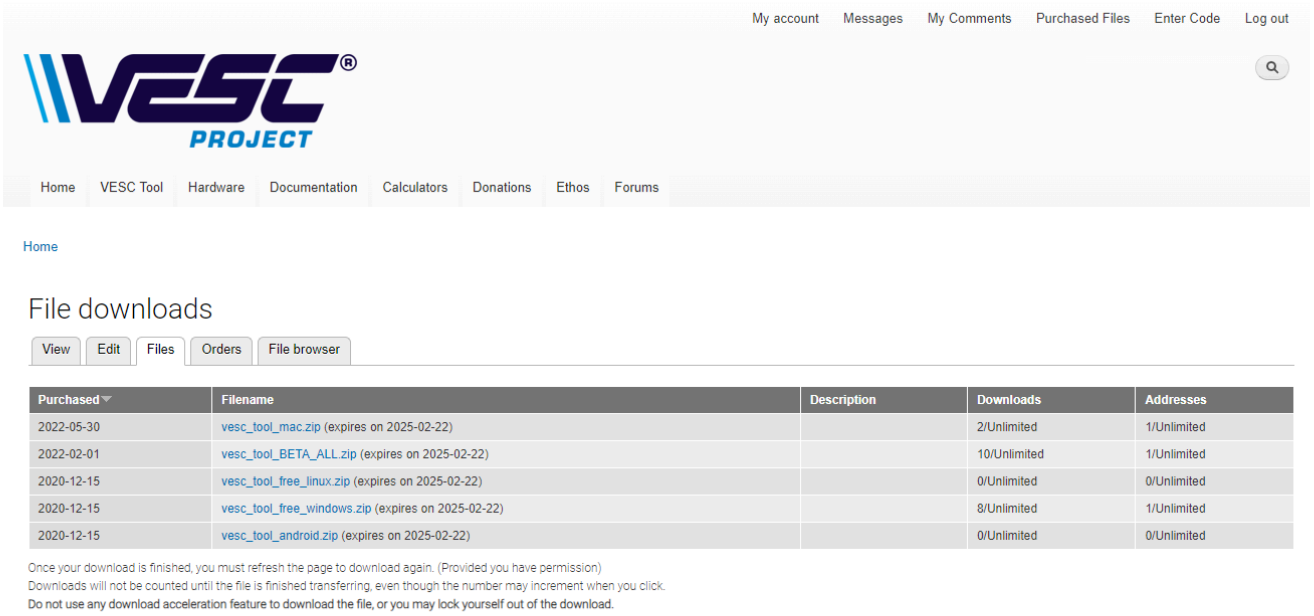
The VESC Display is a new product and requires the VESC Tool to be updated to version 6.05.

Please update the VESC Tool to version 6.05 in order to configure the Display.

To find the latest version of the VESC Tool on a PC, Mac or Linux log into vesc-project.com and go to purchased Files.

Download and install the appropriate VESC Tool for your operating system.

The VESC tool on mobile devices can be updated via the App Store or Play Store.

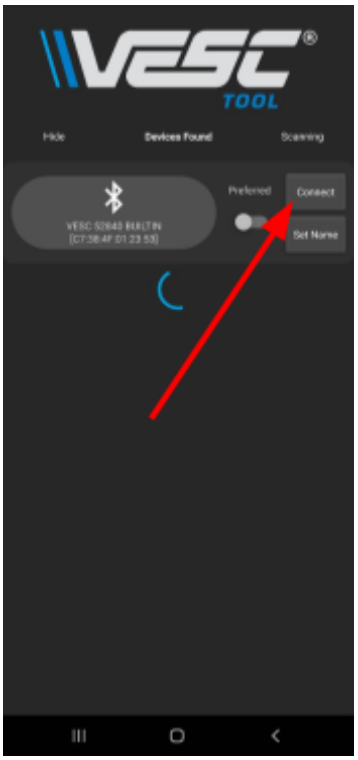


Updating the VESC hardware to Version 6.05

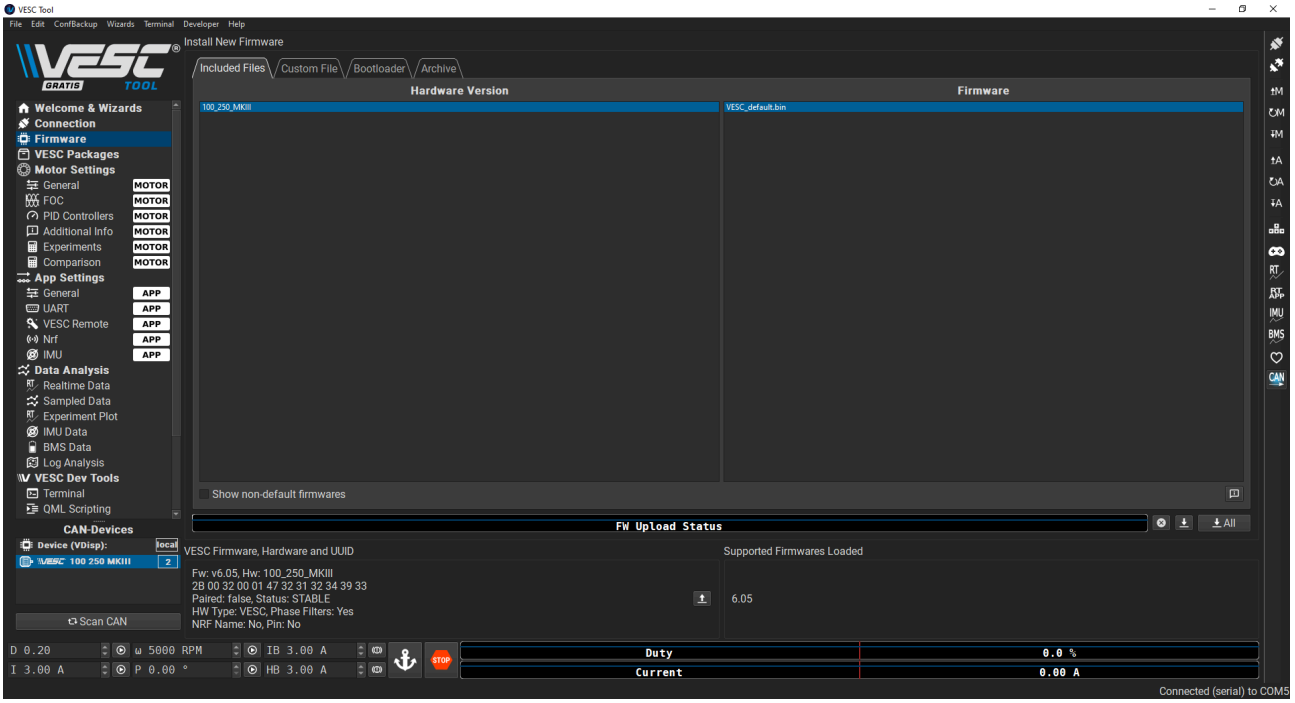
The master VESC connected to the screen and any other VESCs connected via CAN need to also be updated to version 6.05.

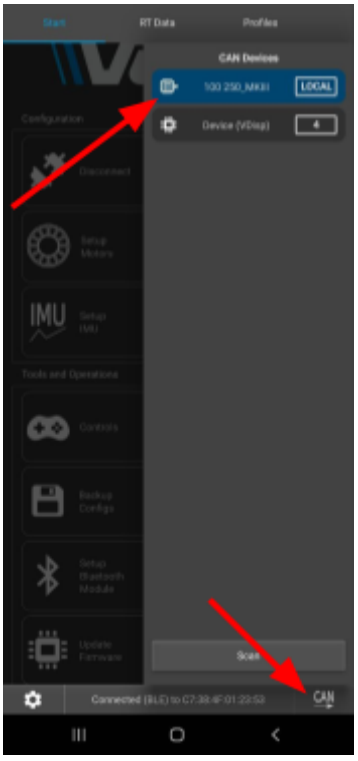
This process can now be done via the USB-C on the rear of the Display or through your preferred method such as NRF or WiFi using a VESC Express.

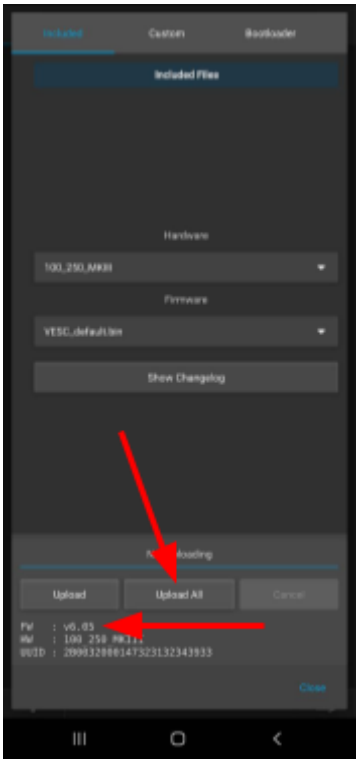
1. Establish a connection by pressing the **CONNECT** button



2. Check under CAN-Devices that the tool is currently connected to the **VESC**.
3. Click on the **Firmware** menu.
4. Click on the **Install All** button and wait until the firmware has completed downloading
5. The VESC will reboot, please wait 10 seconds and reconnect to the VESC to the VESC tool
6. Confirm the firmware has updated to version 6.05



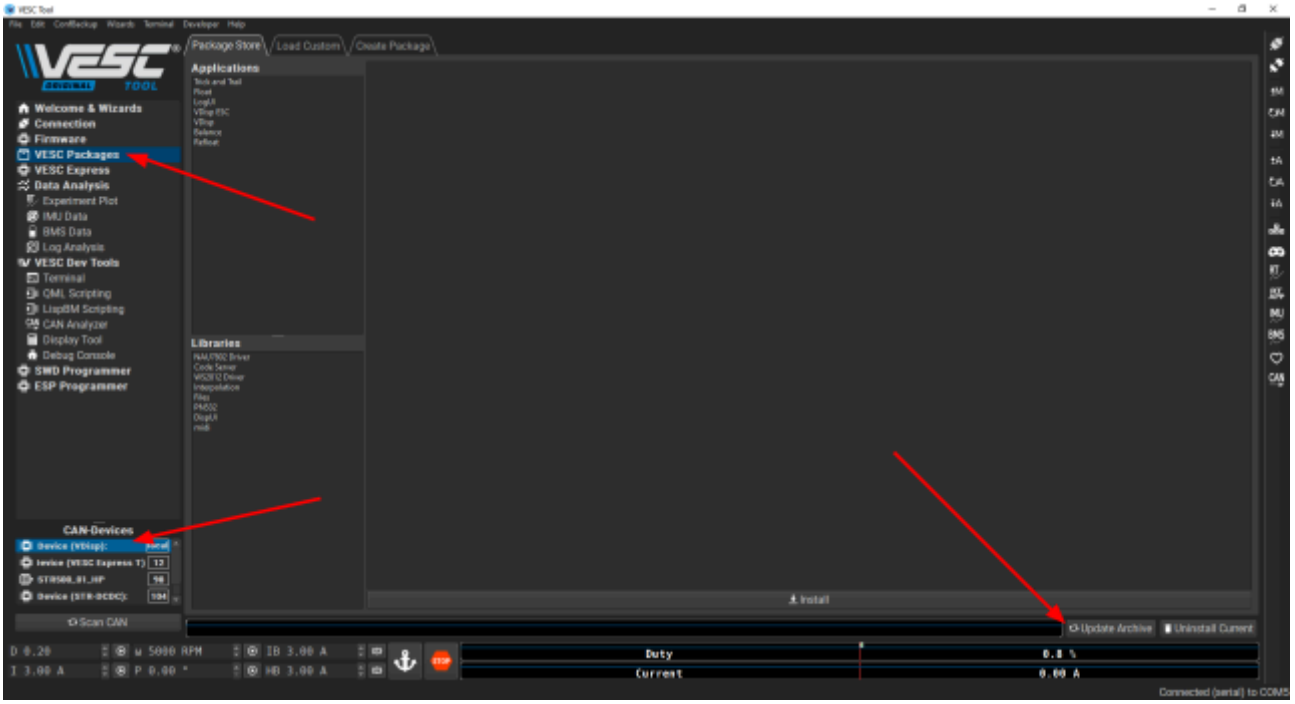


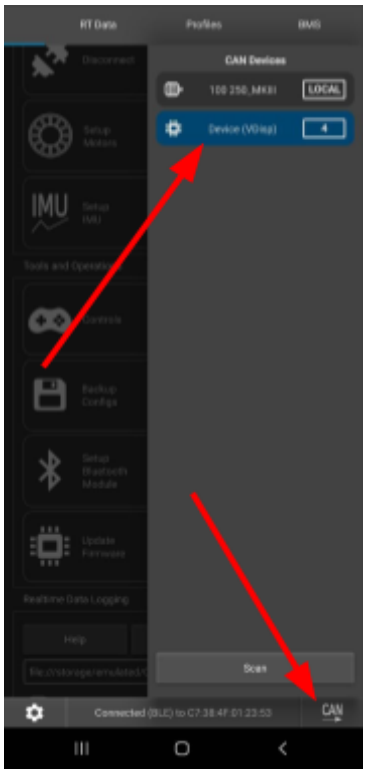


Updating the Display and VESC Firmware

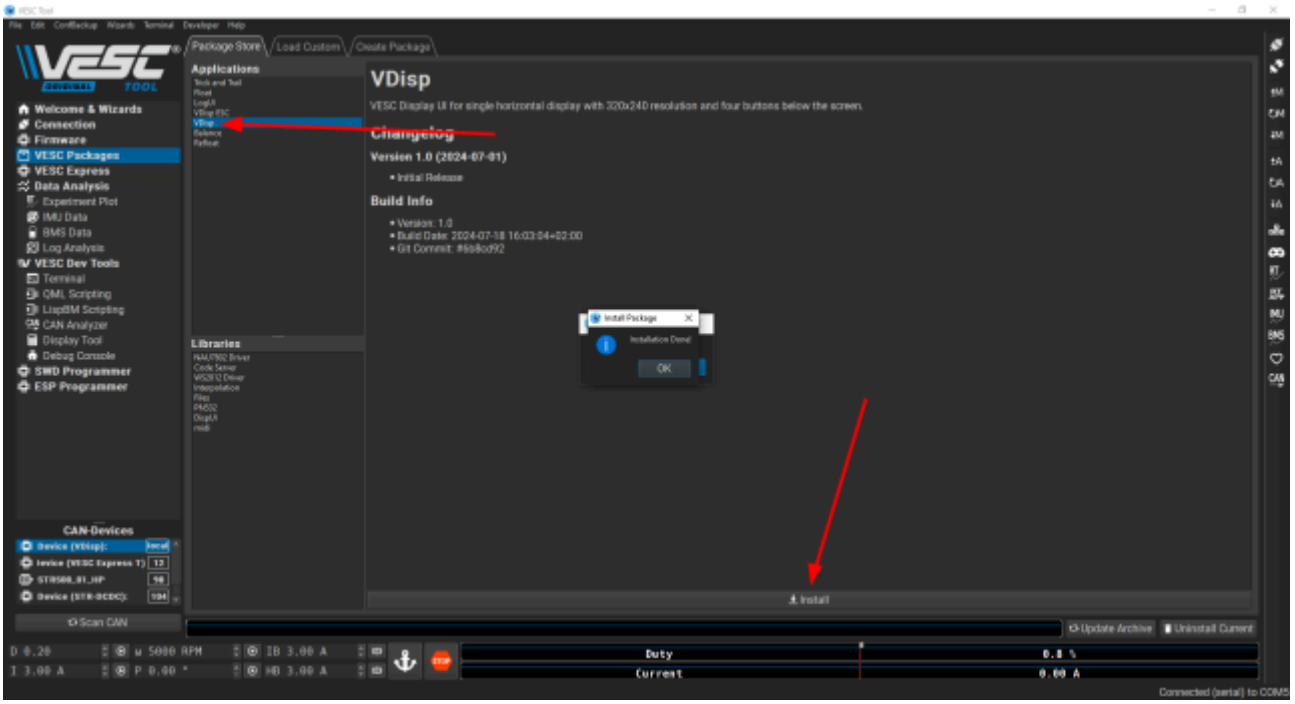
The display will come flashed but a new version may be released.
Please complete this process regularly to enable the latest functions and features!

1. Check under CAN-Devices that the tool is currently connected to the VESC display labelled as **“VDisp”**.
2. Go to **VESC Packages** then press **“Update Archive”**.

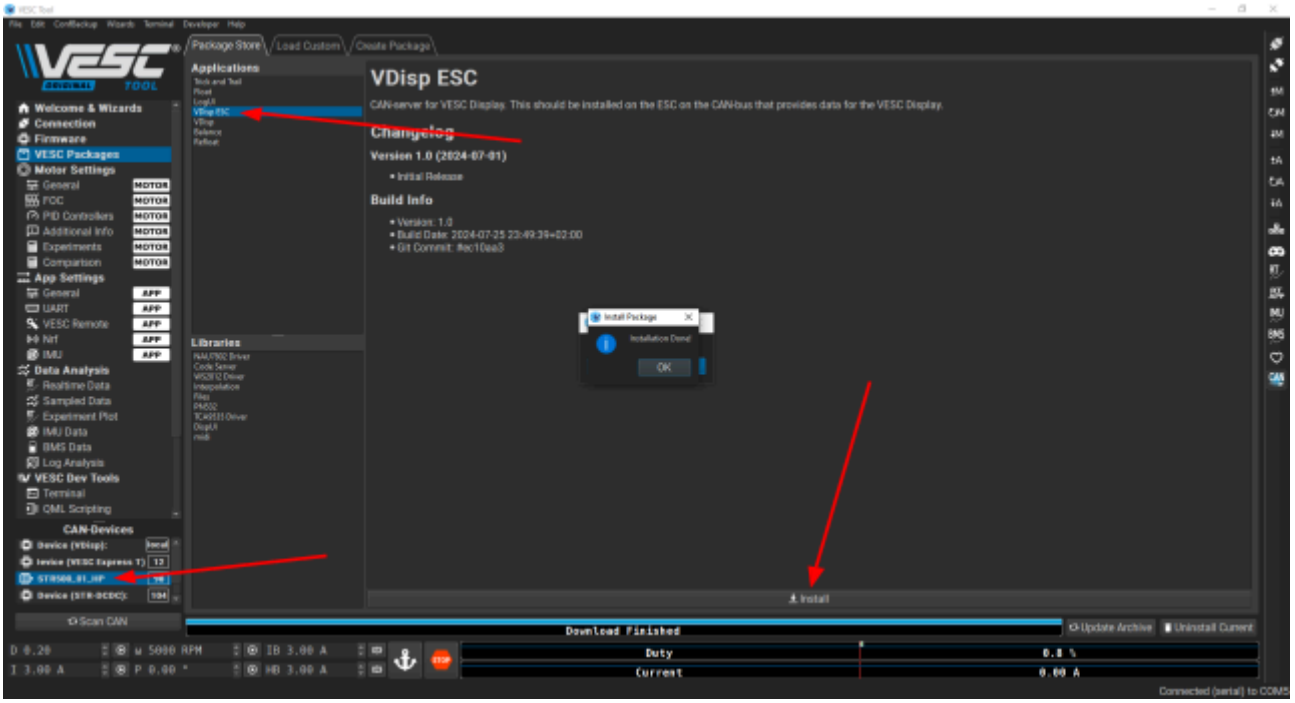




3. Click on the **“VDisp”** package followed by pressing **“Install”**.



4. Connect to the master VESC by selecting it from the list of CAN-Devices.
5. Under Applications click on **“VDisp ESC”** followed by pressing **“Install”**.
6. The display should now be displaying real time data from the VESC.



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Turning the Display On & Off

To power **ON** the display, hold down the first button for 1-2 secs until the VESC logo appears on the screen.

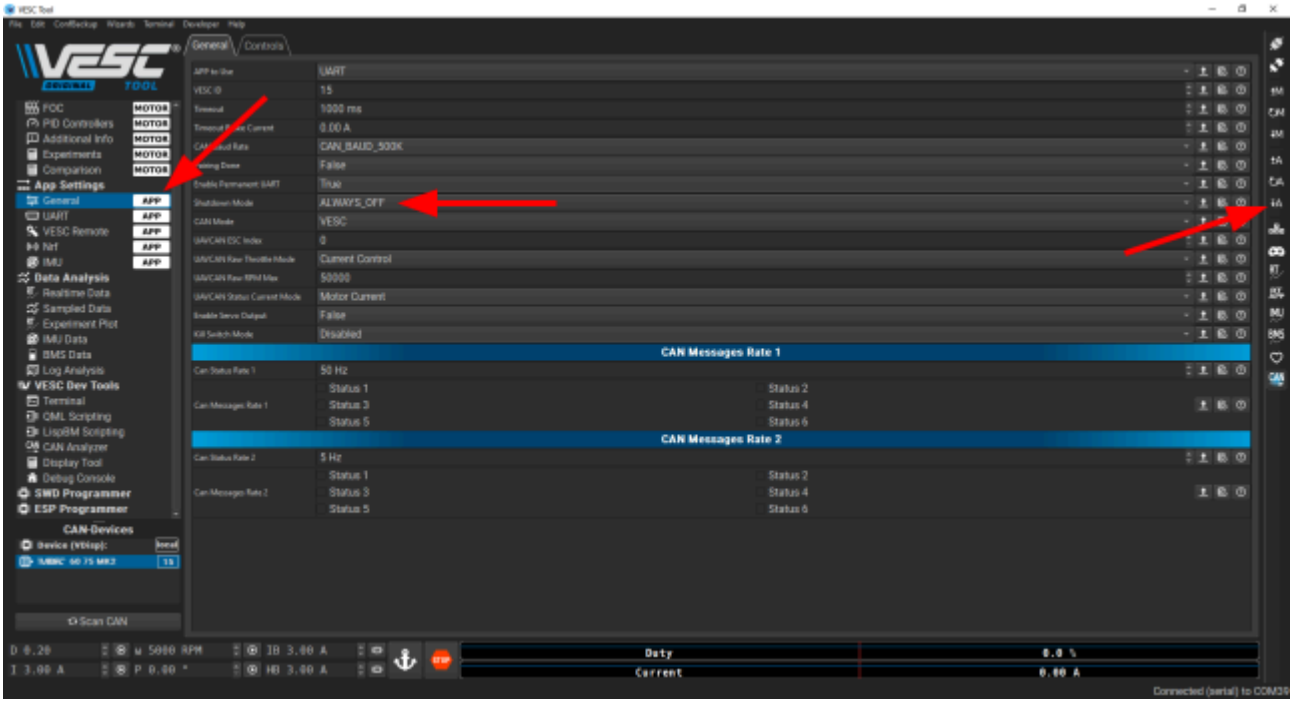
To power **OFF** the display, hold down the first button for 1-2 secs until the screen goes blank.

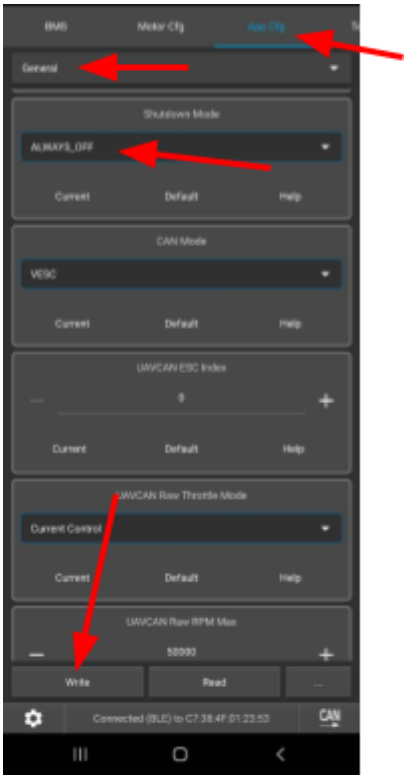
Using the Display to Power On & Off a VESC

PLEASE NOTE: This feature has only been tested on Trampa VESCs.

If the SWITCH cable (Violet) is connected to the switch pin on a Trampa VESC this will power off both the display and VESC.
If the SWITCH cable is **NOT** connected this will power off the display ONLY.

1. Connect to the master VESC by selecting it from the list of CAN-Devices.
2. Go to the "General" app settings menu.
3. Change the shutdown mode to "ALWAYS_OFF".
4. Press the write app configuration button.





Wi-Fi® Setup

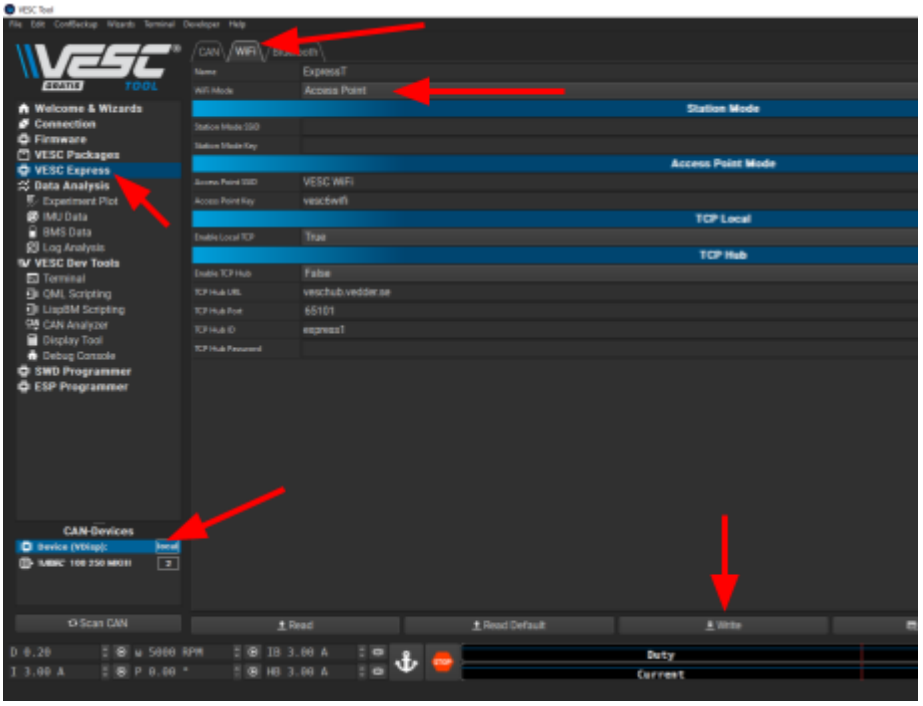
The Wi-Fi® on the VESC Display has 2 modes, Station mode and Access point. Station mode will connect to your router at home (access through any device with the VESC-Tool connected to WLAN/LAN) and Access point will generate a Wi-Fi® Hotspot you can connect to.

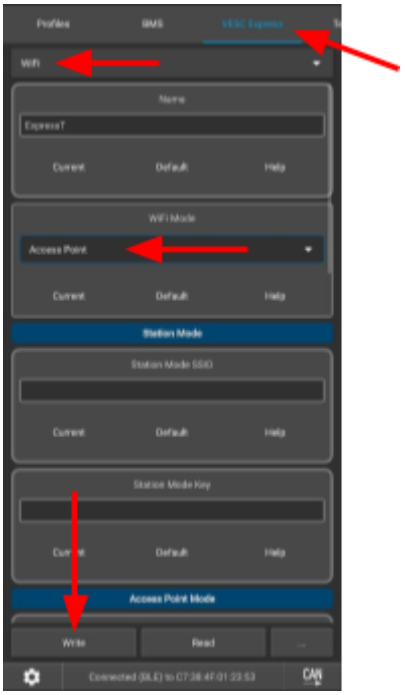
1. To configure the Wi-Fi® settings connect the Display by selecting it from the list of CAN-Devices

2. Click onto the VESC Express Menu. Here the Wi-Fi® can be configured to your preference.

Station mode requires you to enter your router SSID and Wi-Fi® password, these are usually found on a sticker on the router. Once this is entered into the VESC-Express settings you should make sure Wi-Fi® mode is set to 'Station mode' and then click write to save .

Access point only requires you to select Wi-Fi® mode 'Access point' and then click write to save. You can change the SSID and password to whatever you like but remember to write to save the setting. Once access point is active go to Wi-Fi® settings on your device and look for the access point SSID. Once found click connect and enter your chosen password.





LISP Code

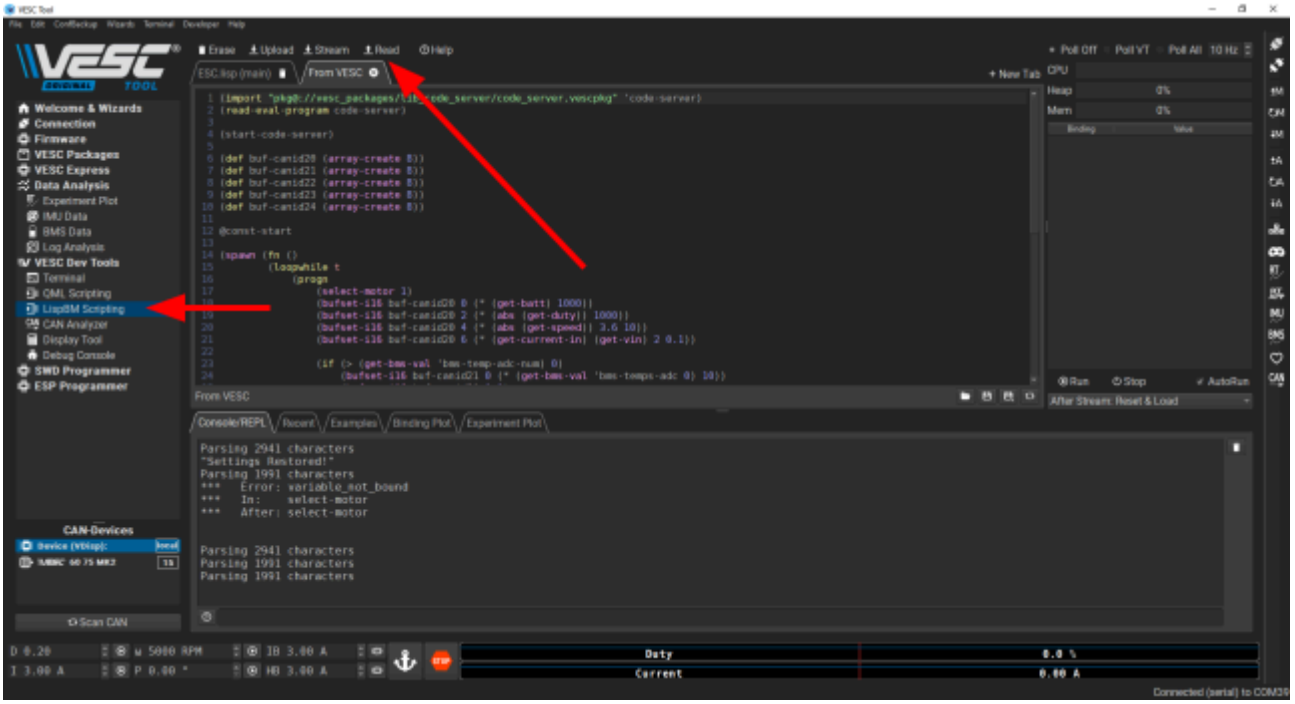
The display uses LISP code which can be customised by the user if they wish to do so.

LispBM scripting can be found under the VESC Dev Tools Menu on the left side of the screen.

To read or edit the code select read at the top of the screen.

VDisp ESC package contains all the real time data being sent to the display

VDisp package contains all the code which the display renders such as: user interface, gauges, colours etc.



Contact

Our emails are checked regularly, however if your problem is urgent or you feel you need to speak to us in person then please WhatsApp or call 7am - 4pm, Monday - Saturday. Please remember if you are not in the UK then there is a time difference to consider.

Email: support@trampaboards.com
Phone: 0044 7734 905883
Website: trampaboards.com

Address:
We DO NOT ACCEPT RETURNS without first speaking with our customer support team.

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