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**READYTOFLYQUADS.COM FLIP32+ USER MANUAL  
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**PURPOSE:**

This user manual covers topics needed to setup your Flip 32+ flight controller from ReadyToFlyQuads.com. All the pictures contained in this user manual, except for company logos or trademarks, were created by me and therefore may not be used elsewhere without prior permission.

**THIS MANUAL MAY NOT BE POSTED ON ANY OTHER WEBSITE, BLOG OR FORUM, ETC. EXCEPT FOR READYTOFLYQUADS.COM AND THE THREAD I CREATED FOR IT ON RCGROUPS.COM.**

The following topics will not be covered in this user manual:

- Connecting a GPS
- Connecting a Mavlink enabled OSD
- Using a CPPM enabled receiver
- Firmware(s) other than BaseFlight
- GUIs other than Google Chrome BaseFlight Configurator
- Motor layouts other than Quadcopter X
- Tuning

**UPDATES:**

11-15-2014:

- Added this update section
- Updated the battery voltage monitor (VBATT) section. Thanks to reader, Rfriedman for the update.
- Added verbiage to the footer of this manual in response to what I found while doing an internet search on my manual. An Asian company, starting with the word queen, took this manual, changed the header to their name and posted it making it seem that I created the manual for them, which I did not. I would write what I really think of them here in very colorful language, but I will refrain. ☺

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**FEATURES:**

As of this writing the version of the Flip32+ is V2.3 Revision 6 and the firmware loaded is BaseFlight V2.3. The Flip 32+ features the following:

- Version 2.3 hardware
- STM32F103CB 32-bit processor running at 3.3V/72MHz
- MPU6050 3-axis MEMS gyro + accelerometer
- HMC5883L 3-axis magnetometer
- MS5611 Pressure sensor
- 16Mbit onboard SPI flash
- Six motor headers with support for various multirotor types \*\*
- Eight receiver headers with support for PWM, PPM and Spektrum satellite receivers. \*\*
- One battery voltage monitor header \*\*
- One Piezo buzzer header \*\*
- Pin headers mounting holes for telemetry, GPS and I2C support \*\*\*
- Onboard micro USB port for setup and configuration
- Three status LEDs
- 36mm (1.41732") x 36mm (1.41732") in size with 3.175 (0.125") mounting holes
- 7.3 grams (0.2575 ounces) with headers soldered on
- Can be used as a stand-alone camera gimbal controller
- MultiWii-based configuration software for easy setup

\*\* Pin headers can be either straight or right angled and can be soldered on for you by RTFQ for a small fee.

\*\*\* Pin headers are not supplied by RTFQ and will need to be purchased separately.

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**MY OPINION ON ESC/RECEIVER WIRES:**

When connecting ESC and receiver wires to the Flip32+, you will either use all three (ground, voltage, signal) wires or just one (signal) wire. ESC and receiver cables use servo type connectors with removable pins.

It is best practice to remove the pin that will not be utilized from the connector, instead of cutting its wire. If you ever want to use that ESC or receiver cable again and the wire has been cut, you will have to re-solder it. The resulting connection may not be as reliable as it was before when it was intact.

The pins with the wire intact can be removed by:

- Using a small flat blade screwdriver or knife to gently pry up the tab that holds the pin in place
- Sliding out the pin from the servo connector
- Wrap the pulled pin(s) using electric tape or shrink tubing so that there is no chance of a shortage
- Attach the pins to the existing wire with electric tape or shrink tubing

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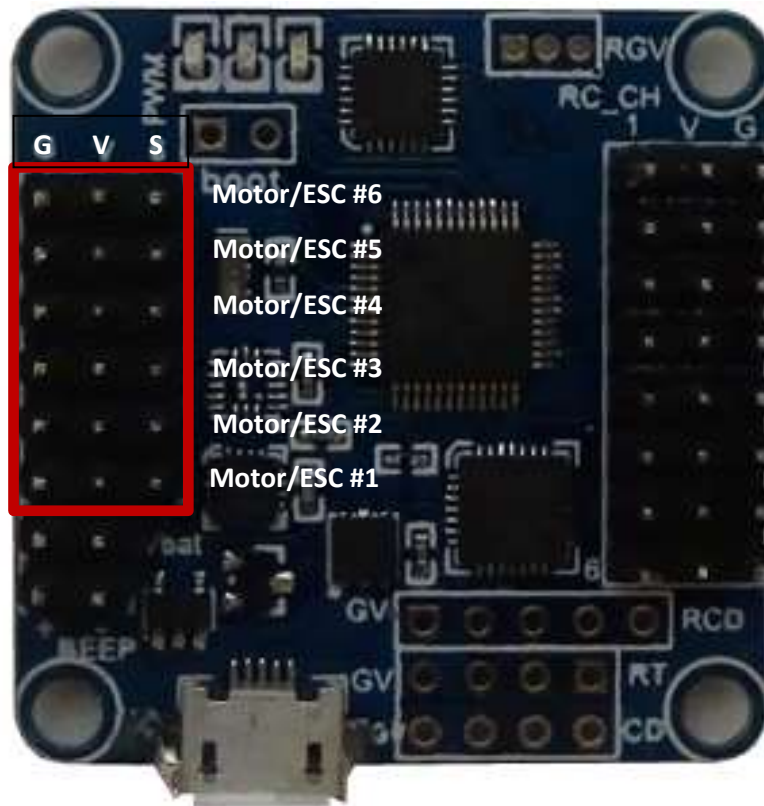
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**MOTOR/ESC CONNECTIONS:**

Motors/ESCs are connected to the six sets of 3 pin headers that are located on the left hand side of the board. Motor/ESC #6 is at the top while motor/ESC #1 is at the bottom.

Connect the ground (G), voltage (V) and signal (S) wires from only one of the ESCs (usually ESC #1) to the Flip32+ and for the remaining ESCs only connect the signal (S) wire. In the following picture:

- The outer most pin on the left is the ground pin (G)
- The middle pin is the power/voltage pin (V)
- The inner most pin on the right is the signal pin (S)



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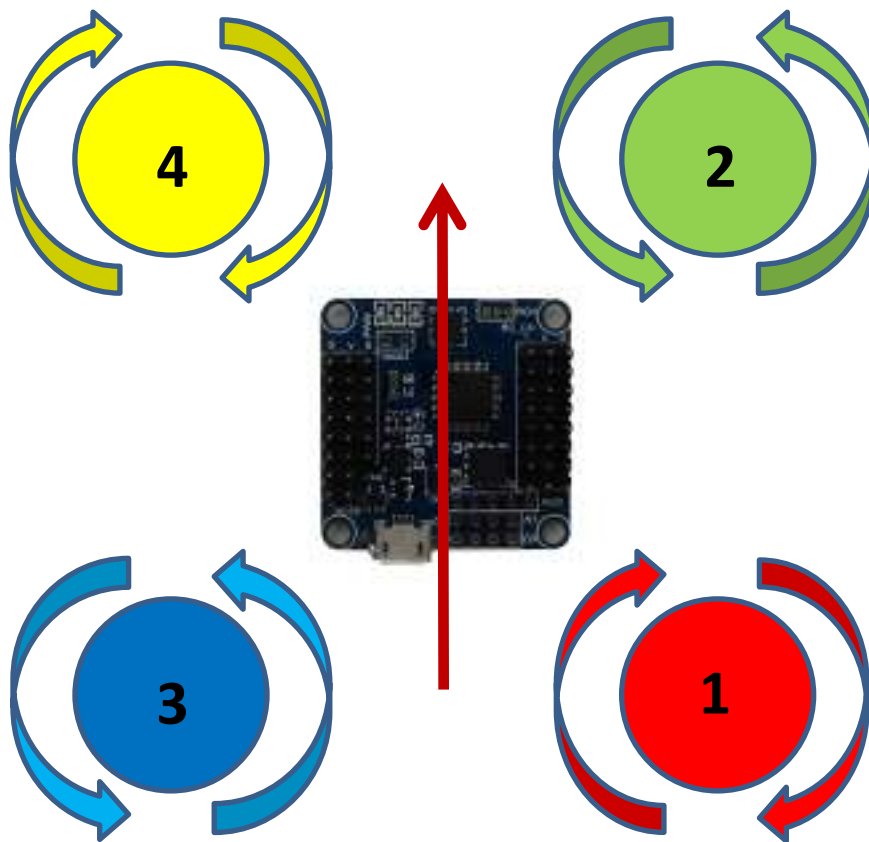
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**QUADCOPTER X MOTOR LAYOUT:**

This is the motor layout for a Quadcopter in an X configuration. Please note that the direction that the motor is spinning is the direction of the motor when looking at it from above. The red arrow indicates the forward direction of the multirotor. You can verify the motor layout by using the Motor Test function in the Google Chrome BaseFlight Configurator.

For other motor layouts, please see the Flip32+ product page on ReadyToFlyQuads.COM.



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**PROPELLER TYPES AND SPIN DIRECTION:**

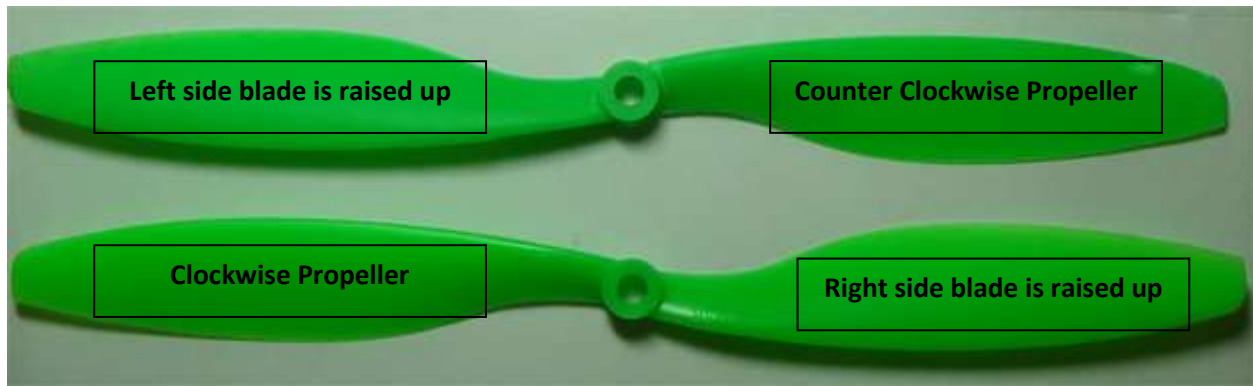
Multirotors use two types of propellers:

- Tractor, which rotates in a counter clockwise direction
- Pusher, which rotates in a clockwise direction

One way to tell which propeller is which type is to look at the lettering on the propeller. Some manufacturers will label their propellers with an L for left or CCW and an R for right or CW. But if the manufacturer omits the letter, then the other method is to look at propeller blades:

- Place the propeller flat on a table
- If the left side blade is raised up from the table, then it's a left or counter clockwise propeller
- If the right side blade is raised up from the table, then it's a right or clockwise propeller

When connecting the propellers to the motors, just match the propeller direction to the motor direction.



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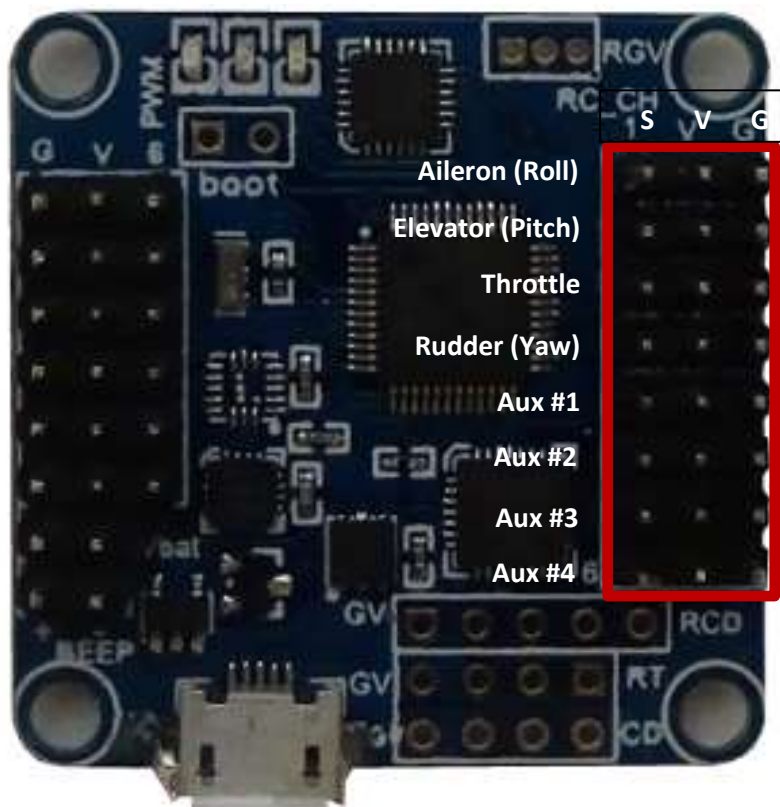
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**RECEIVER CONNECTIONS:**

A receiver is connected to the eight sets of 3 pin headers that are located on the right hand side of the board. In a basic setup, only the first four sets of 3 pin headers are used, which are roll, pitch, throttle and yaw. The remaining four are auxiliary connections.

Connect the signal (S), voltage (V) and ground (G) wires from only one receiver channel (usually Throttle) to the Flip32+ and for the remaining channels only connect the signal (S) wire. In the following picture:

- The inner most pin on the left is the signal pin (S)
- The middle pin is the voltage pin (V)
- The outer most pin on the right is the ground pin (G)



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**MICRO USB:**

The micro USB port is located at the bottom (rear) of the Flip32+ and is used to connect the Flip32+ to your pc or laptop via a USB to micro USB cable. Once connected, the Flip 32+ firmware can be flashed or updated or its configuration changed. Please note that when using BaseFlight firmware, the micro USB port is configured to share the same UART as the OSD and Blue Tooth so the OSD and Blue Tooth must be disconnected when using the micro USB port.



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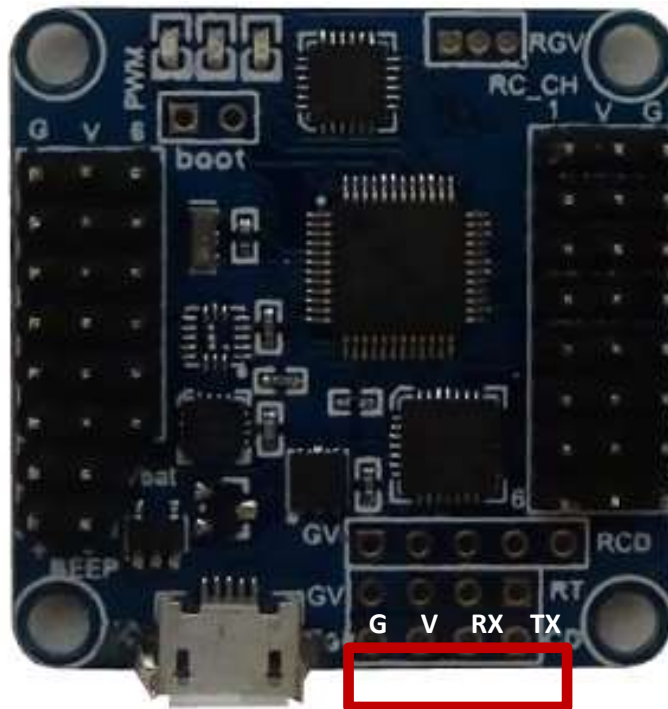
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**BLUE TOOTH CONNECTION:**

A Blue Tooth module is connected to the single 4 pin header that is located to the right of the micro USB port. You will need to solder the header pins on yourself as they are not included.

Once connected, the Blue Tooth module lets you connect to your Flip32+ via a wireless connection from your pc, laptop or Android device. Please note that you cannot have a USB cable plugged into the micro USB port when utilizing the Blue Tooth connection. In the following picture:

- The first pin is the ground pin (G)
- The second pin is the voltage pin (V)
- The third pin is the receive pin (RX)
- The fourth pin is the transmit pin (TX)



The Blue Tooth module is connected to the Flip32+ in the following manner:

- The receive pin (RX) on the Flip 32+ is connected to the transmit (TX) pin on the Blue Tooth module
- The transmit pin (TX) on the Flip 32+ is connected to the receive (RX) pin on the Blue Tooth module
- The voltage (V) pin is connected to the voltage (VCC) pin on the Blue Tooth module
- The ground (G) pin is connected to the ground (G) pin on the Blue Tooth module

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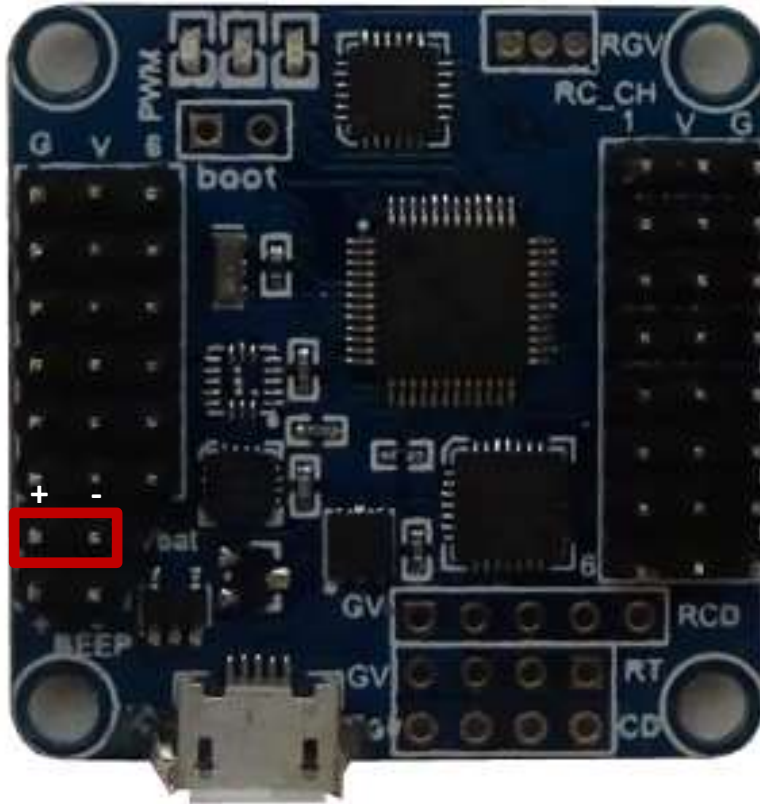
**VOLTAGE BATTERY (VBAT) CONNECTION:**

A reader has informed me that the VBATT connections on their Flip32+ board are opposite of what I have written below. I have verified the connections on my Flip32+ and they are as written below.

**PLEASE VERIFY THE LOCATION OF THE POSITIVE (+) AND GROUND (-) VBATT PINS ON YOUR FLIP32+ BEFORE MAKING ANY CONNECTIONS.**

The VBAT connector is a single 2 pin header that is located on the left hand side of the board just below the motor/ESC pin headers. This connector lets the Flip32+ monitor the multirotor main battery voltage and works in conjunction with the BEEP connector in order to produce a beeping sound when the battery voltage is too low. Connect a two wire cable between your power distribution board and the VBAT or your multirotor main battery balance lead and the VBAT. In the following picture:

- The outer most pin on the left is the voltage (+) pin
- The inner most pin on the right is the ground (-) pin



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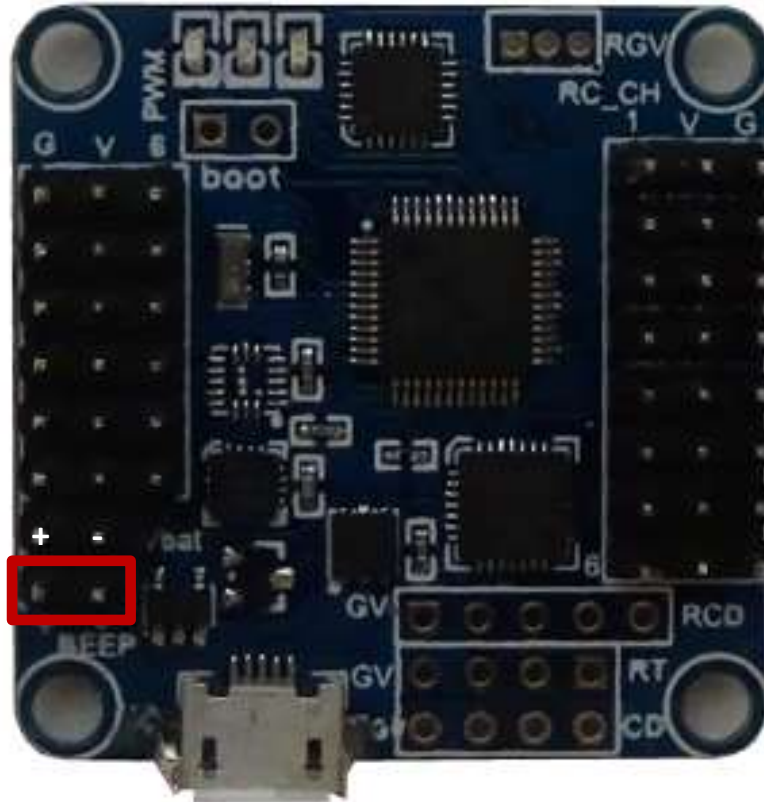
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**BEEP CONNECTION:**

The BEEP connector is a single 2 pin header that is located on the left hand side of the board just below the VBAT connector and is used to connect a Piezo style buzzer to the Flip32+. In the following picture:

- The outer most pin on the left is the voltage (+) pin
- The inner most pin on the right is the ground (-) pin



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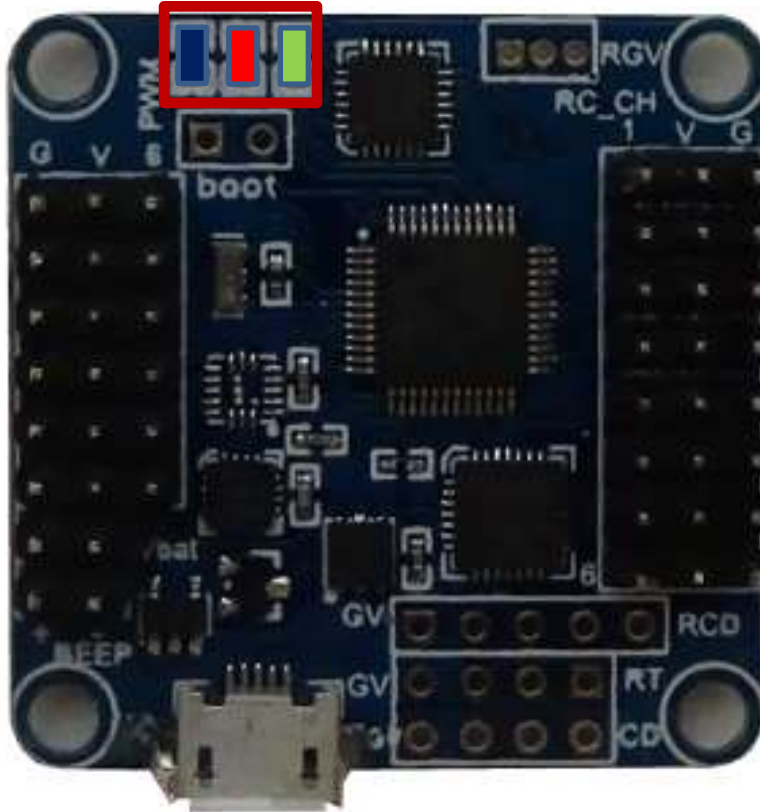
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**STATUS LEDs:**

The three status LEDs are located at the top (front) of the Flip32+. In the following picture:

- The outer most led on the left is the power led and is Blue in color
- The middle led is a status led and is Red in color
- The inner most led on the right is a status led and is Green in color



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**LED STATES:**

EVENT	LEFT BLUE LED	MIDDLE RED LED	RIGHT GREEN LED
Connect to pc/laptop	Solid	Blinks then turns off	Blinks then turns off
Powered on	Solid	Blinks then turns off	Blinks then turns off
Flashing Firmware	Solid	Solid then blinks then turns off	Solid then blinks then turns off
Armed	Solid	Off	Solid
Accelerometer Calibration	Solid	Off	Solid then turns off
Magnetometer Calibration	Solid	Off	Blinks rapidly then turns off
Accelerometer Trimming	Solid	Off	Blinks with each stick movement

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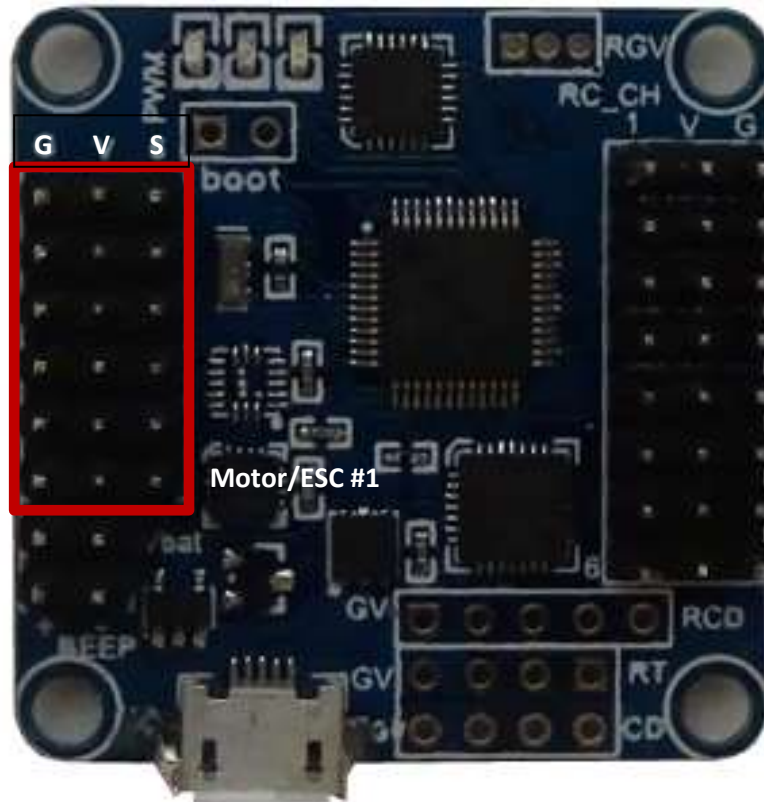


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**POWERING THE FLIP32+**

There are several ways to power the Flip32+ but the easiest method is to use the 5V BEC wire from ESC #1. Once powered, the Flip32+ can then be used to power additional devices, such as the receiver and Blue Tooth module.

- Connect ESC #1 to the motor/ESC connection #1 on the Flip32+ with all three wires (G, V and S) intact
- Connect the remaining ESCs utilizing only the signal (S) wire



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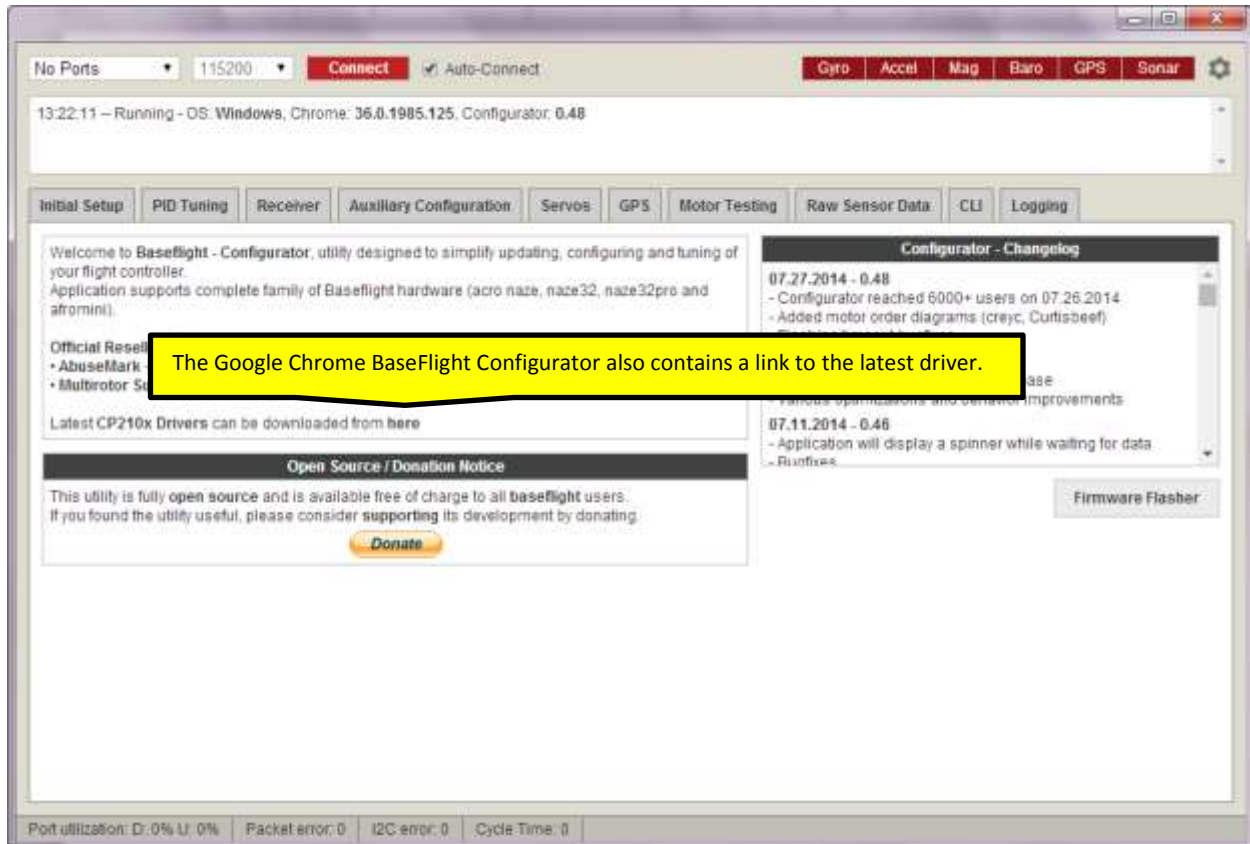


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**THE FLIP32+ DRIVER:**

In order to be able to communicate to the Flip 32+, your pc/laptop requires a CP210x USB to UART Bridge VCP driver. Depending on your operating system and hardware, your pc or laptop may recognize the UART Bridge once it is plugged in. If not, you can download the driver from:

<http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx>



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**BASEFLIGHT FIRMWARE:**

The best and easiest way to obtain the latest BaseFlight firmware is to use the Google Chrome BaseFlight Configurator. However, this requires an internet connection which may not always be available. For those moments, you can download the firmware to your pc or laptop and then access it from the Google Chrome BaseFlight Configurator.

Latest production release of BaseFlight Firmware:

<https://code.google.com/p/afrodevices/downloads/list>

Latest development release of BaseFlight Firmware:

<https://github.com/multiwii/BaseFlight/blob/master/obj/BaseFlight.hex>

**GOOGLE CHROME BASEFLIGHT CONFIGURATOR:**

The Google Chrome BaseFlight Configurator is available from the Google Chrome store for free but requires a Google account and the Google Chrome web browser to access, download and use.

- Download and install the Google Chrome web browser from:  
<https://www.google.com/chrome/browser/>
- Download and install the Google Chrome BaseFlight Configurator from the Google Chrome store:  
<https://chrome.google.com/webstore/category/apps>

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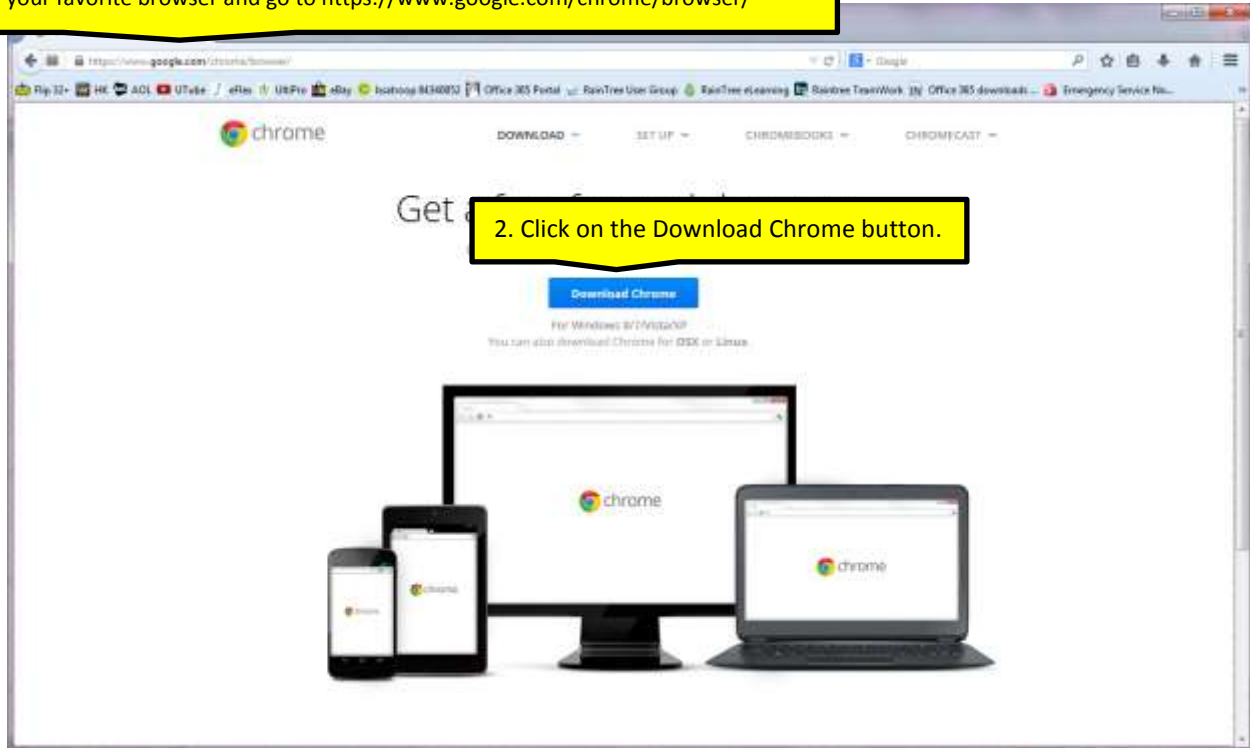
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**INSTALLING GOOGLE CHROME:**

Please note that Google may change the installation screens and/or the installation process for Google Chrome at any time so let the installer beware. ☺

1. Start your favorite browser and go to <https://www.google.com/chrome/browser/>



2. Click on the Download Chrome button.

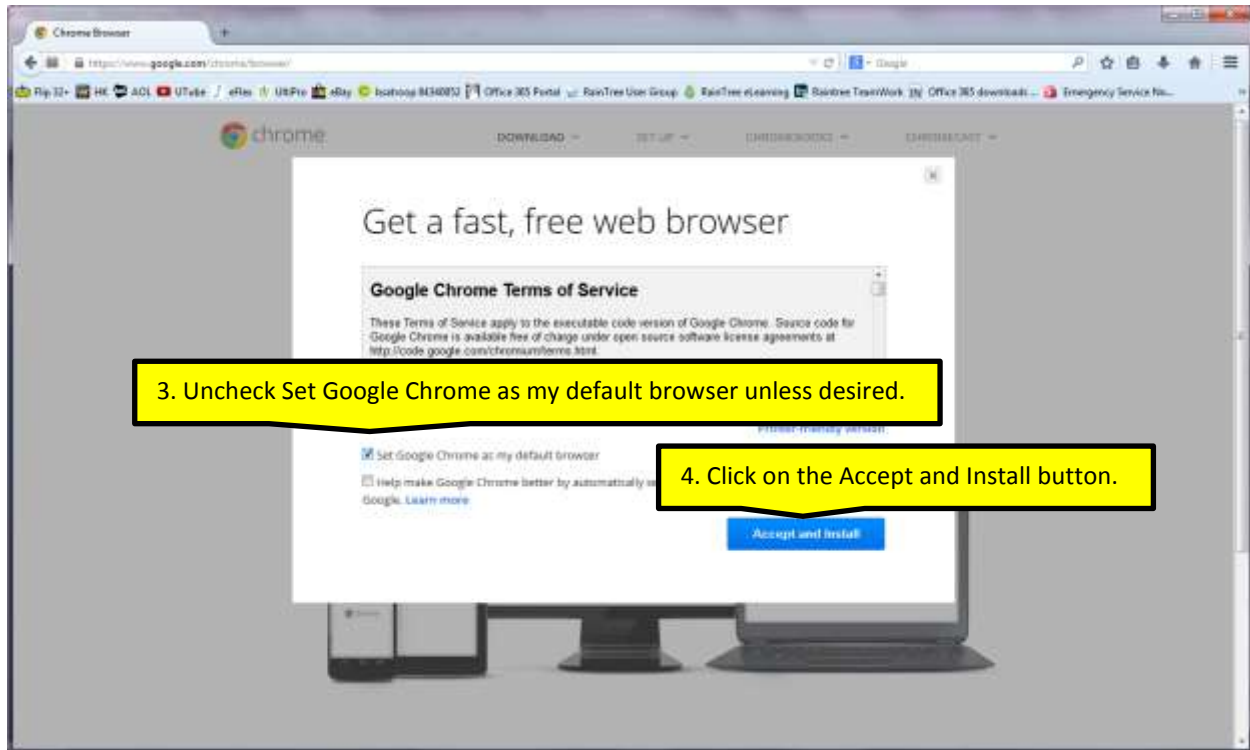
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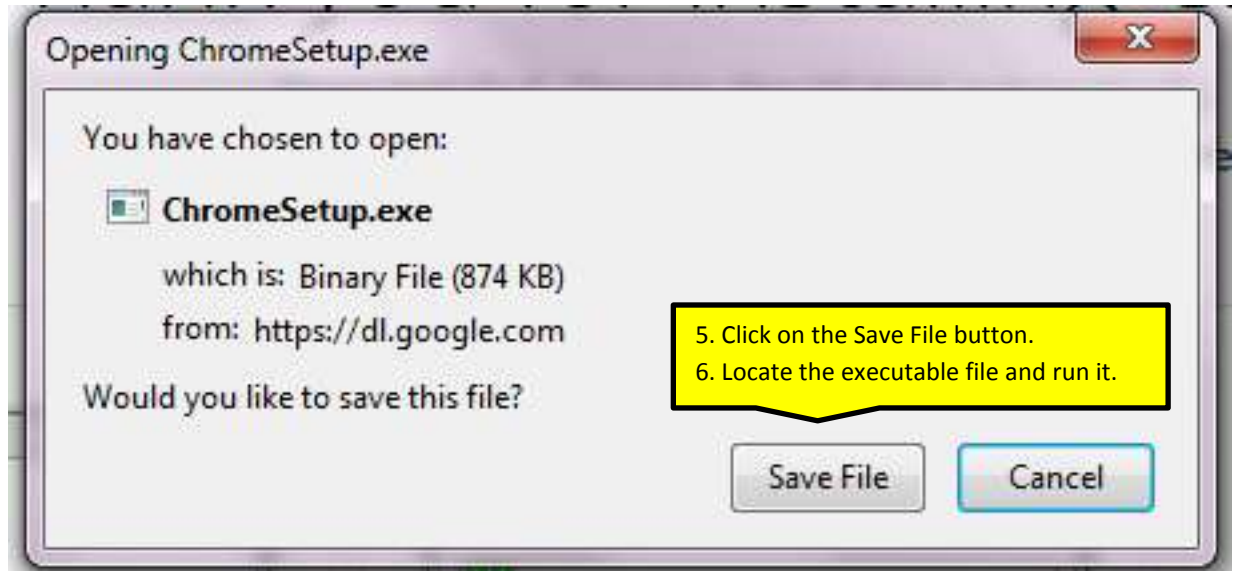


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7. The install will place the Google Chrome icon on your desktop.



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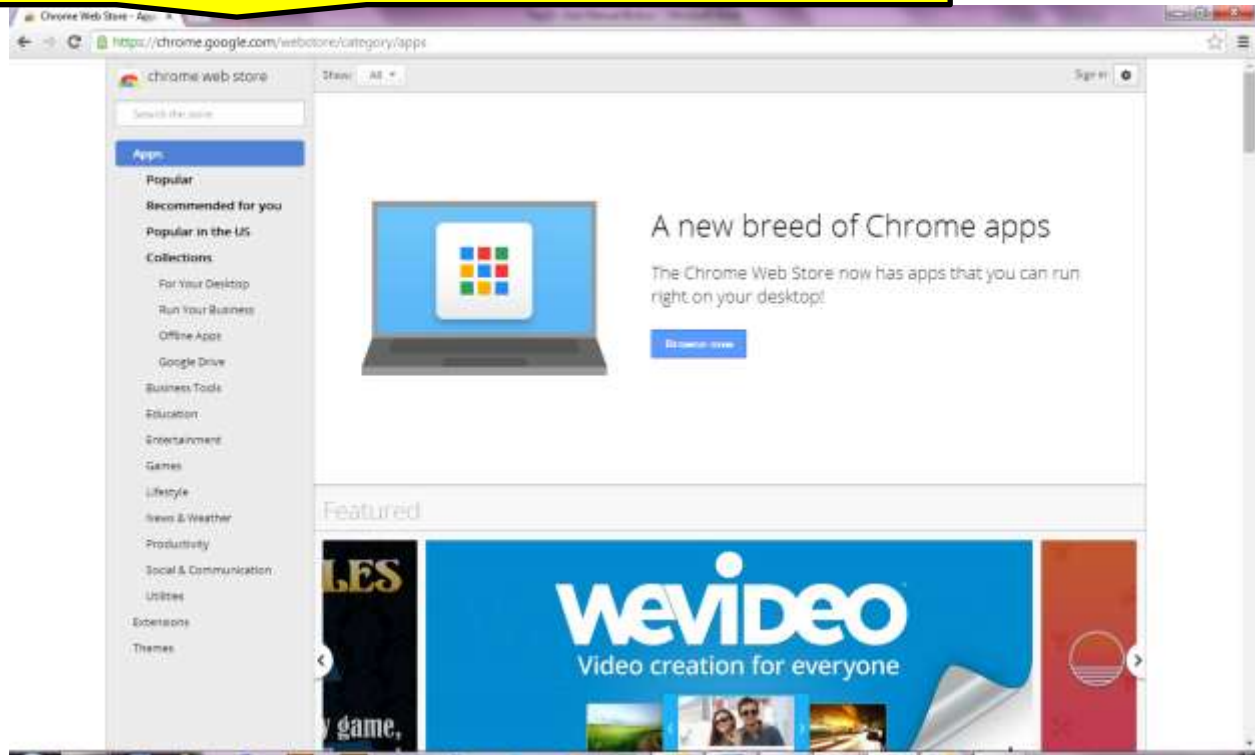
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**INSTALLING THE GOOGLE CHROME BASEFLIGHT CONFIGURATOR:**

Please note that Google may change the installation screens and/or the installation process for Google Chrome BaseFlight Configurator at any time so let the installer beware. ☺

**1. Start Google Chrome and go to <https://chrome.google.com/webstore/category/apps>**



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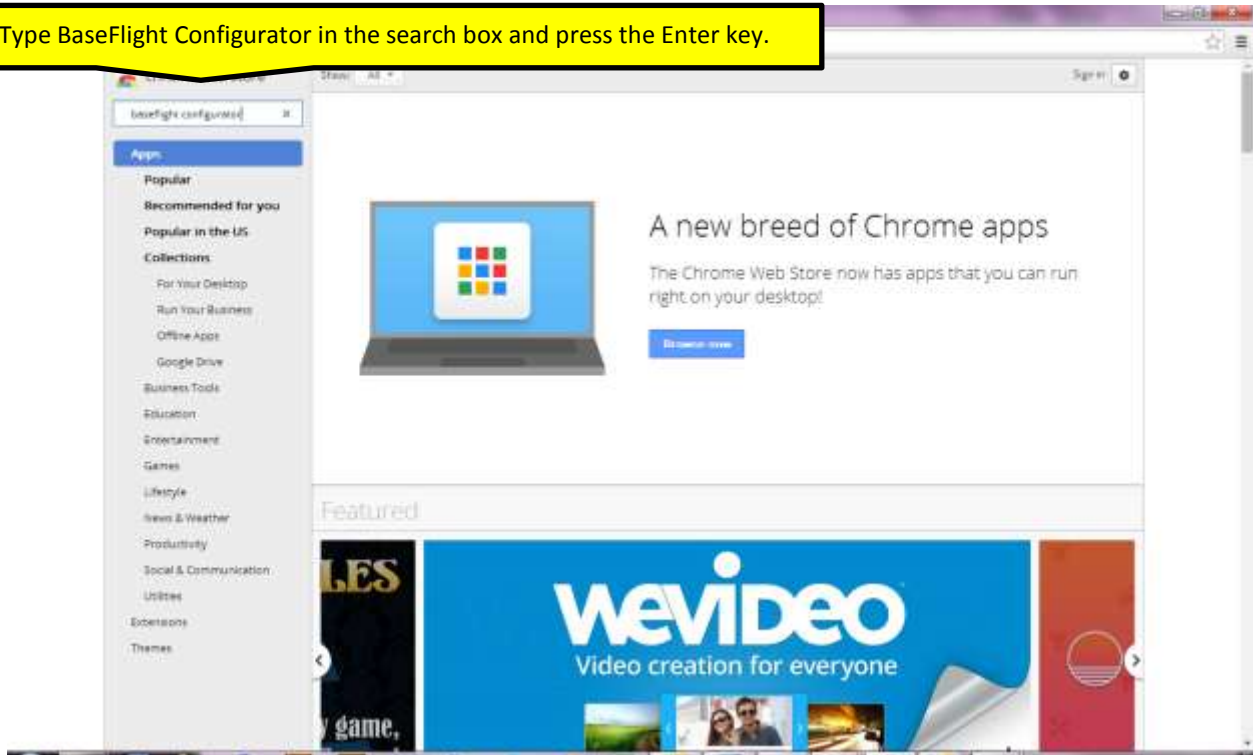
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**2. Type BaseFlight Configurator in the search box and press the Enter key.**



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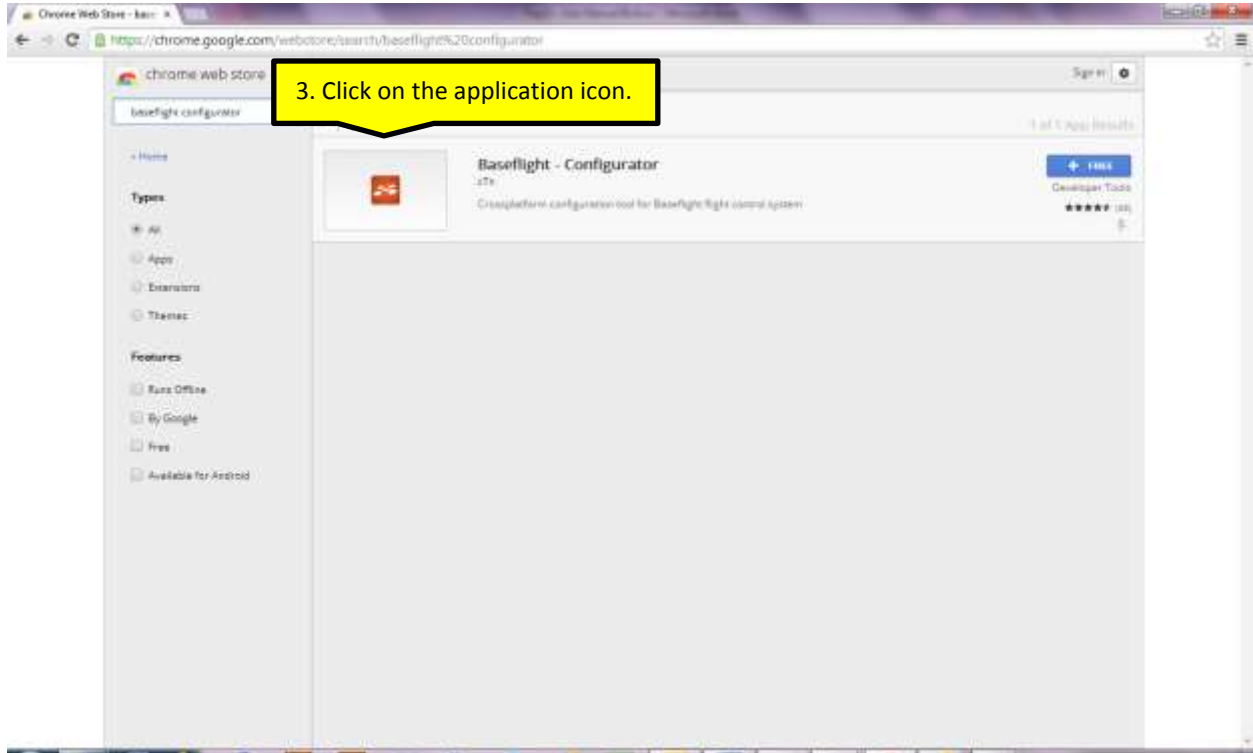
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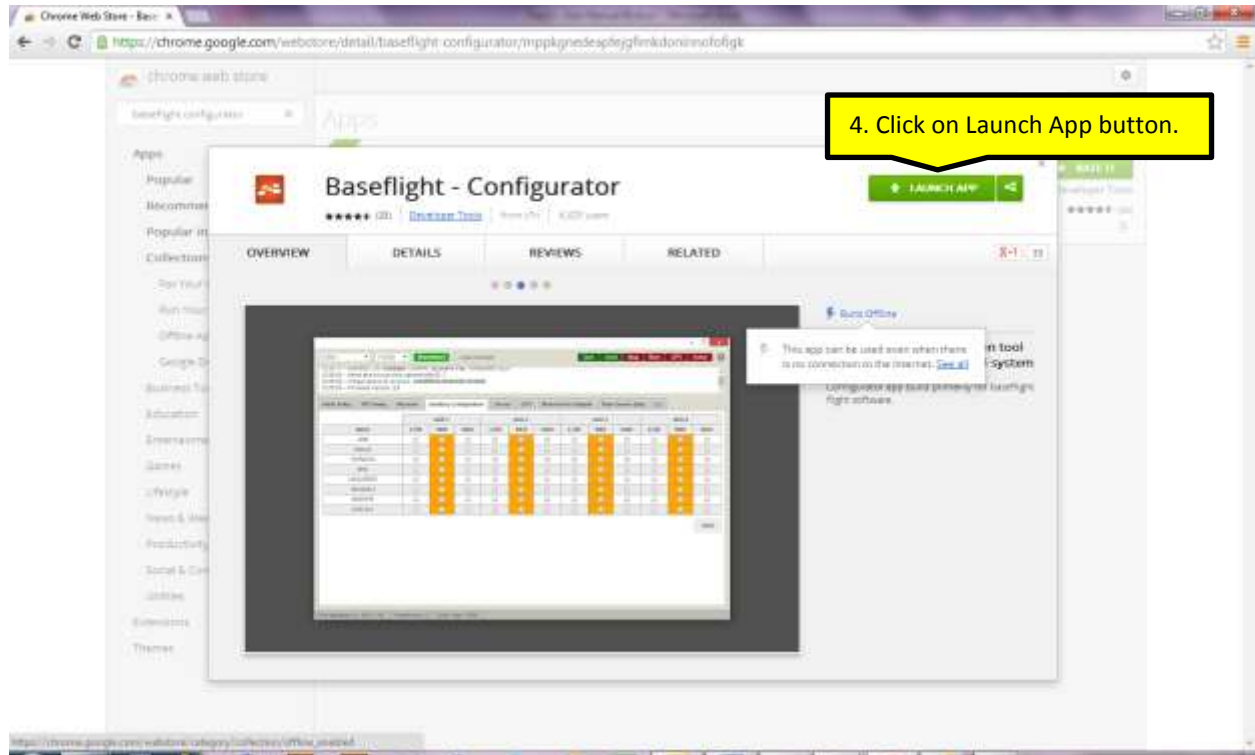
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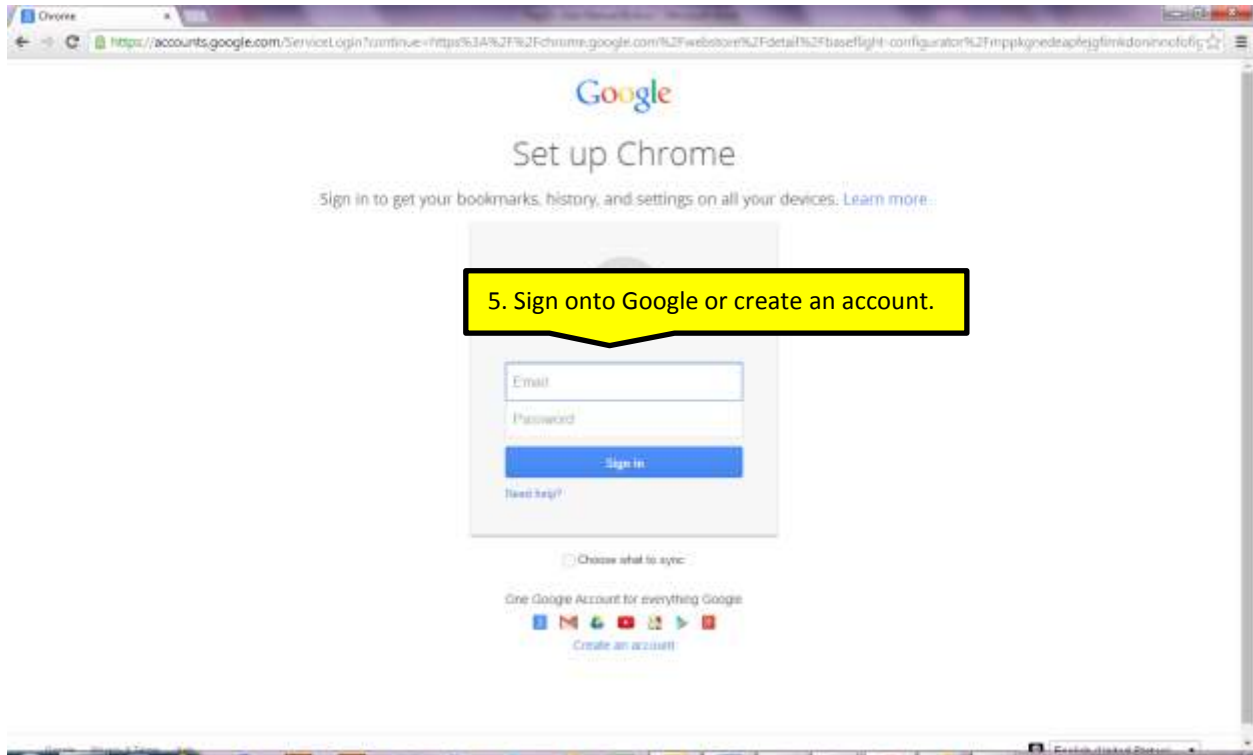
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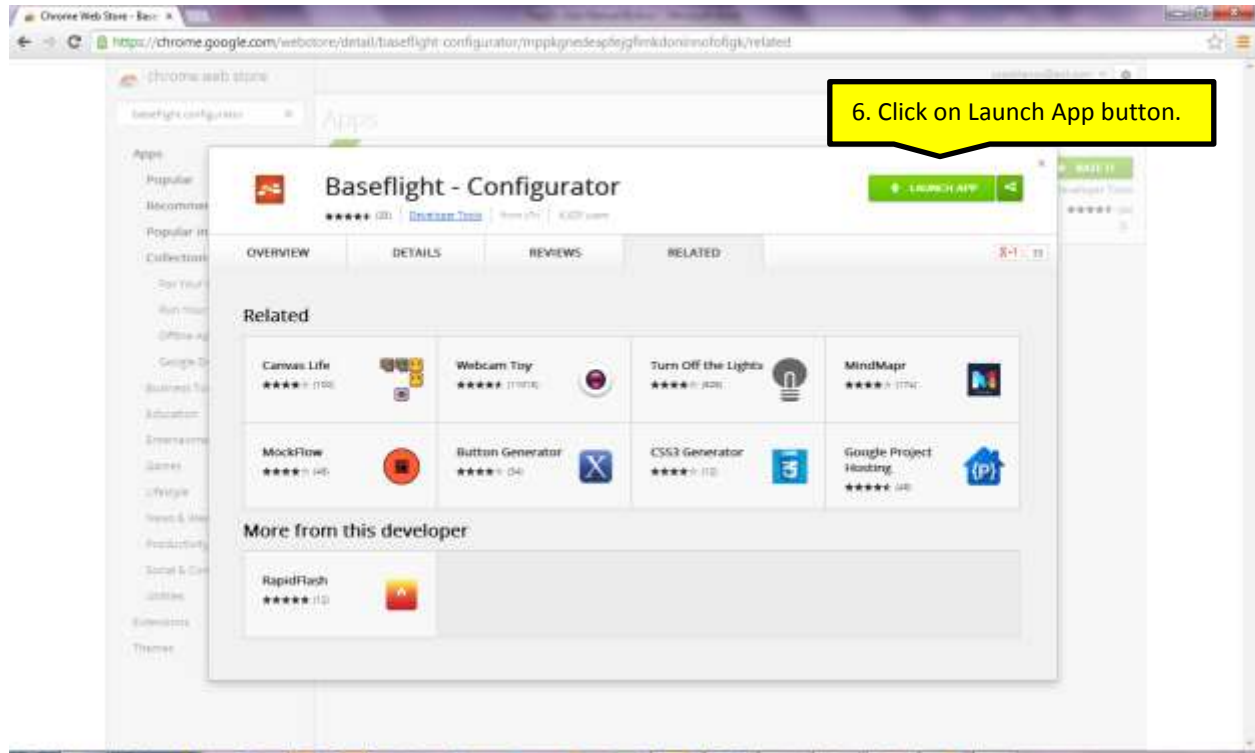
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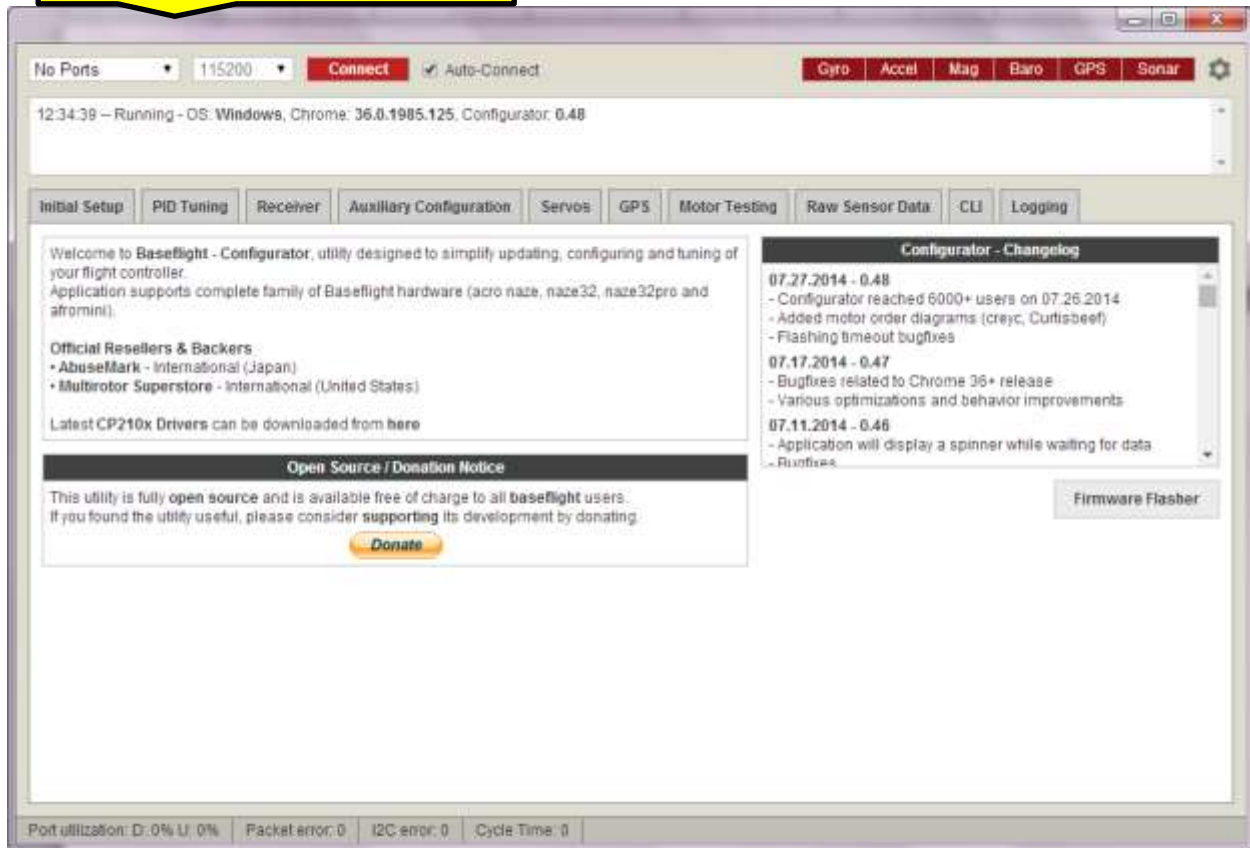
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**7. The BaseFlight Configurator appears.**



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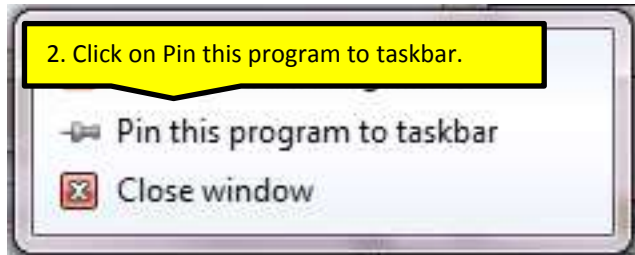
The BaseFlight Configurator is enabled to run on your pc/laptop without the need for an internet connection. I was able to set this up my pc at home but the same process failed on two separate laptops running the same version of Windows. In addition, Google installed a Quick Launch Application icon on my taskbar so that I could launch the Google Chrome applications easily but that also failed on the laptops.

Without having to go through that process, I figured out another way.

1. With the BaseFlight Configurator running, locate the application icon on your taskbar and right click on it.



2. Click on Pin this program to taskbar.



3. You can now run the configurator just by clicking twice on the icon.



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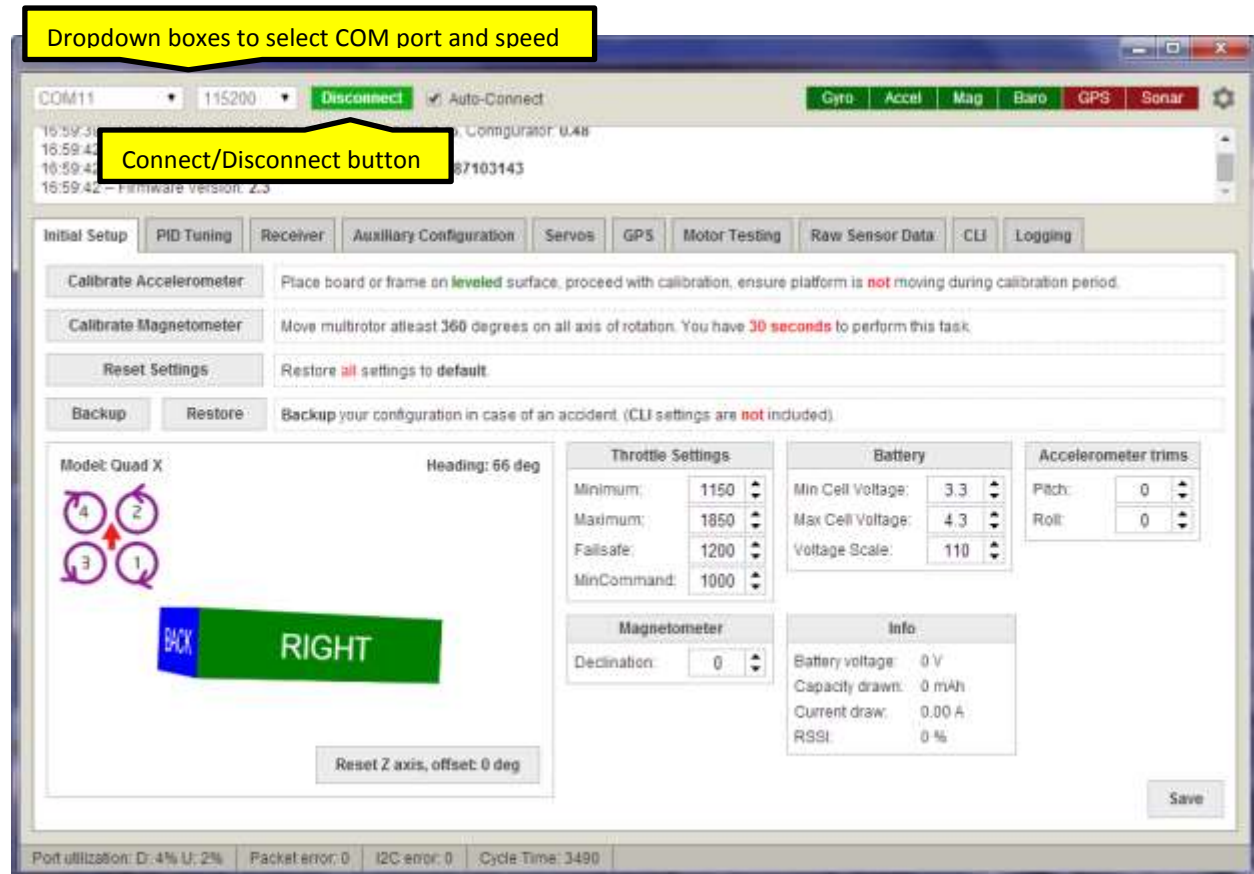
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BASEFLIGHT CONFIGURATOR FEATURES AND BUTTONS:



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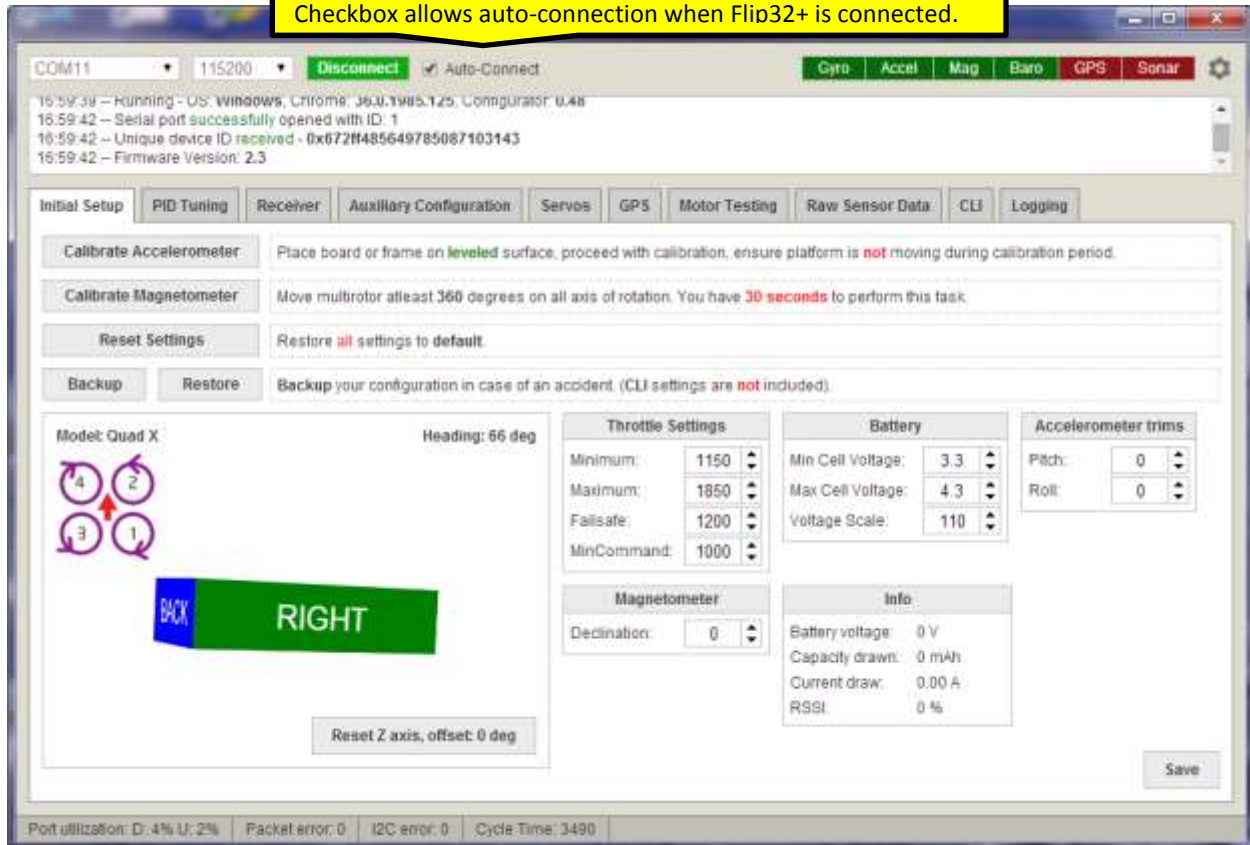
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Checkbox allows auto-connection when Flip32+ is connected.



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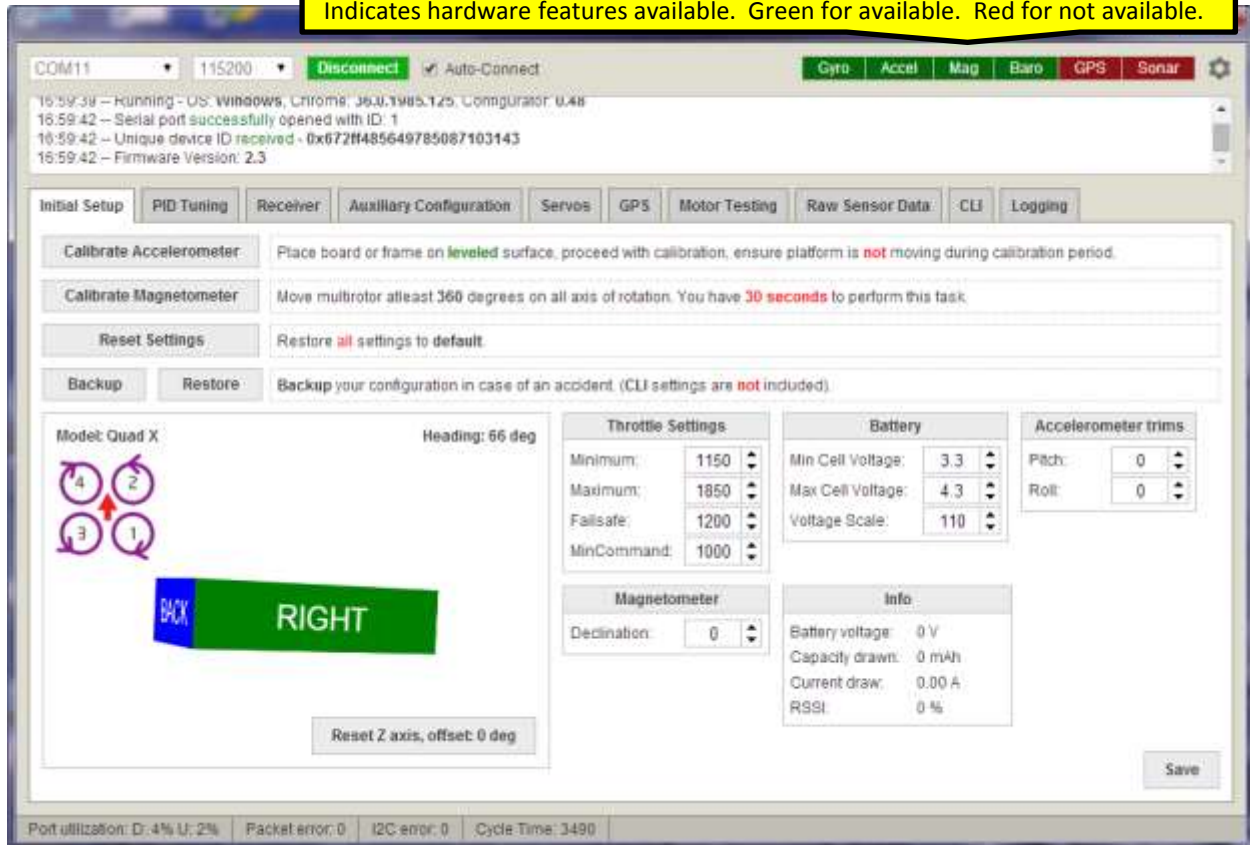
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Indicates hardware features available. Green for available. Red for not available.



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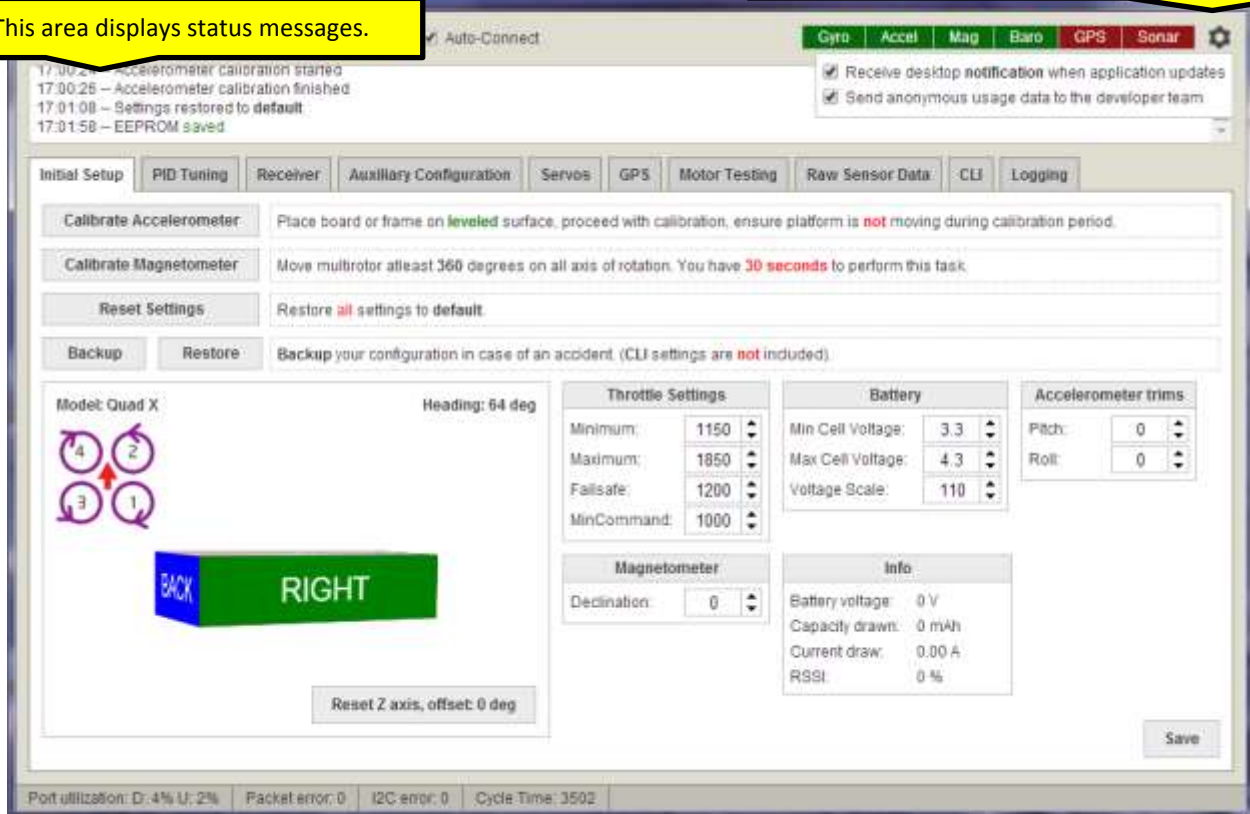
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Options for receiving updates and sending usage data.

This area displays status messages.



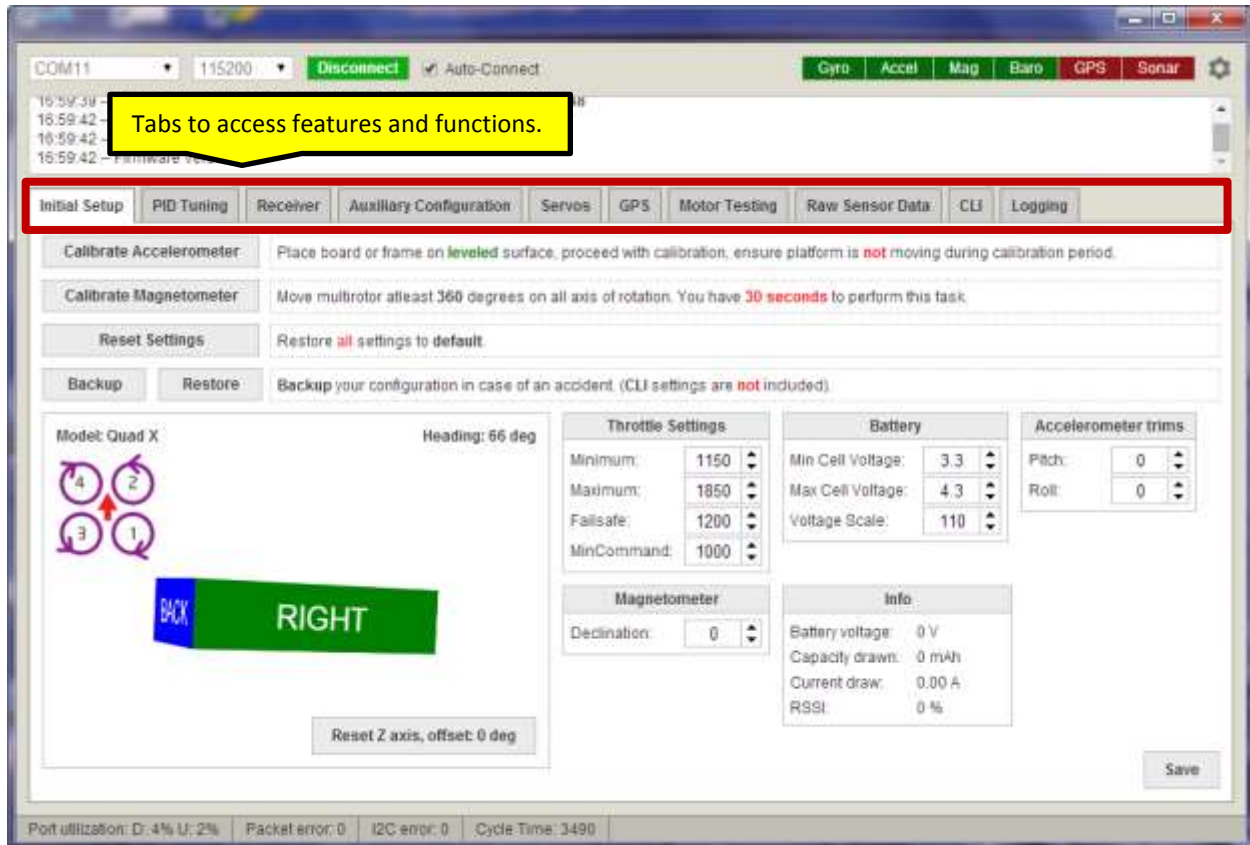
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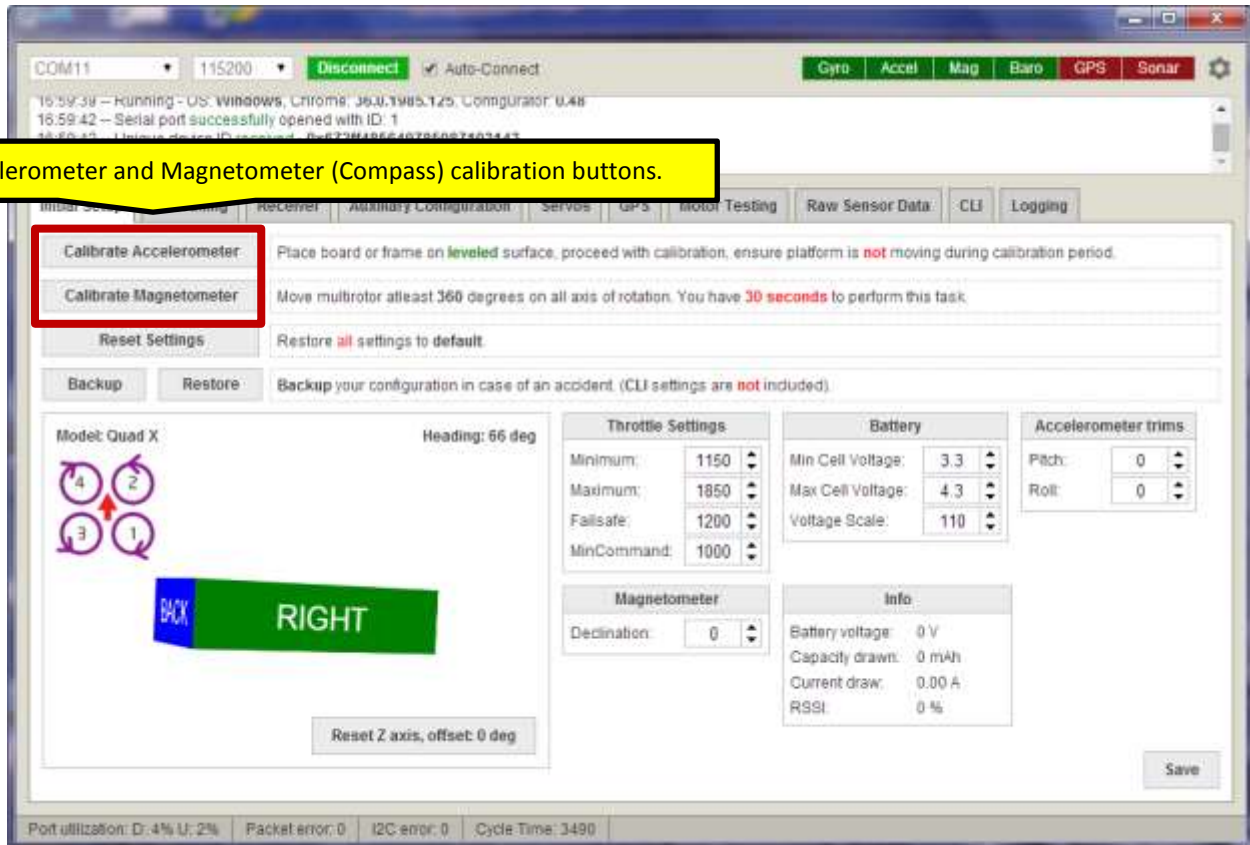
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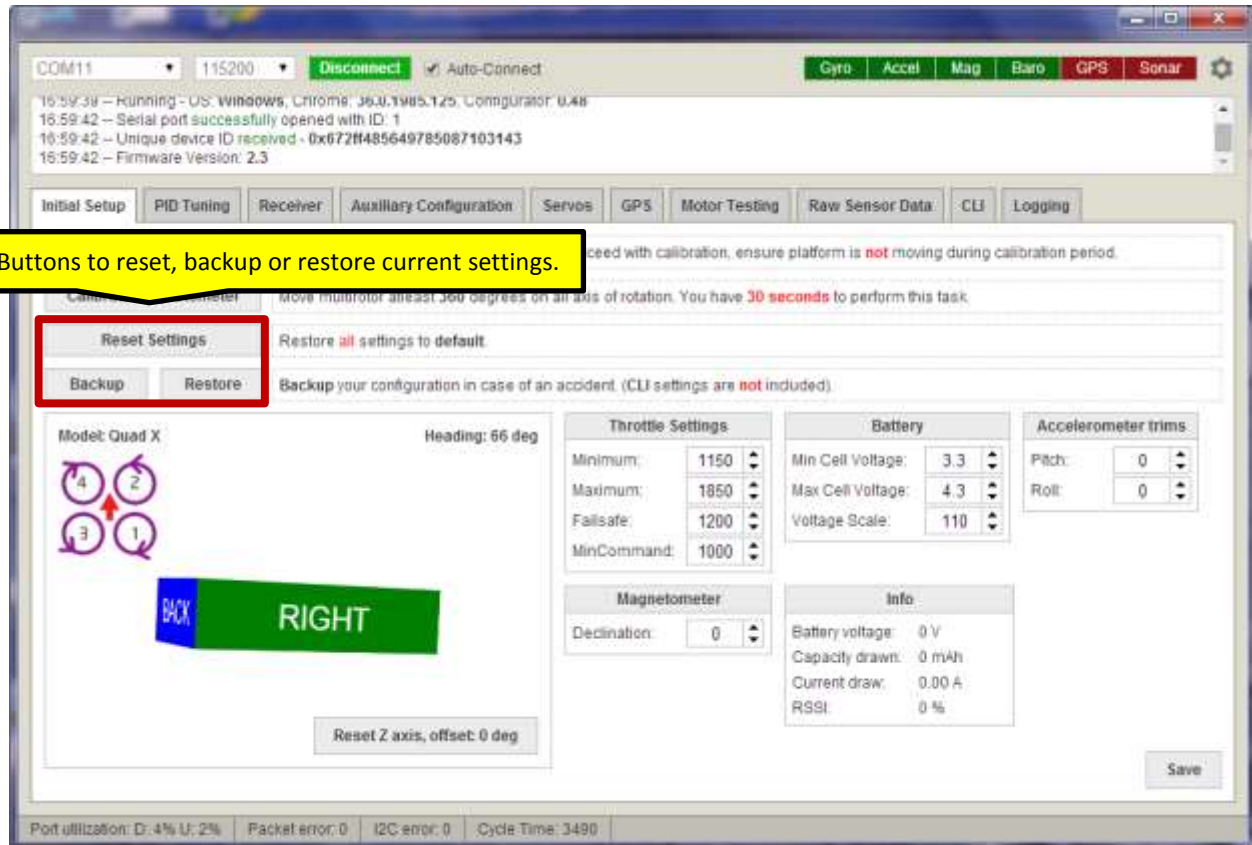
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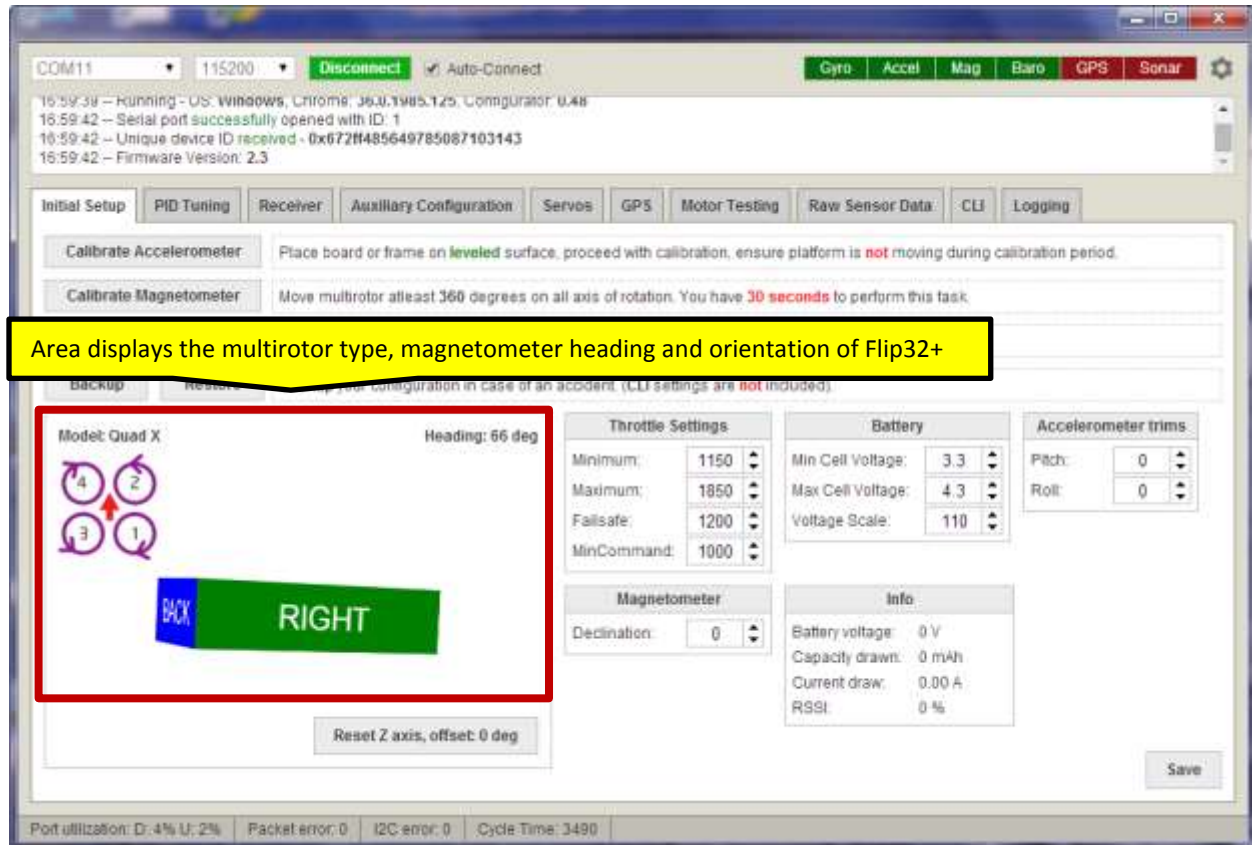
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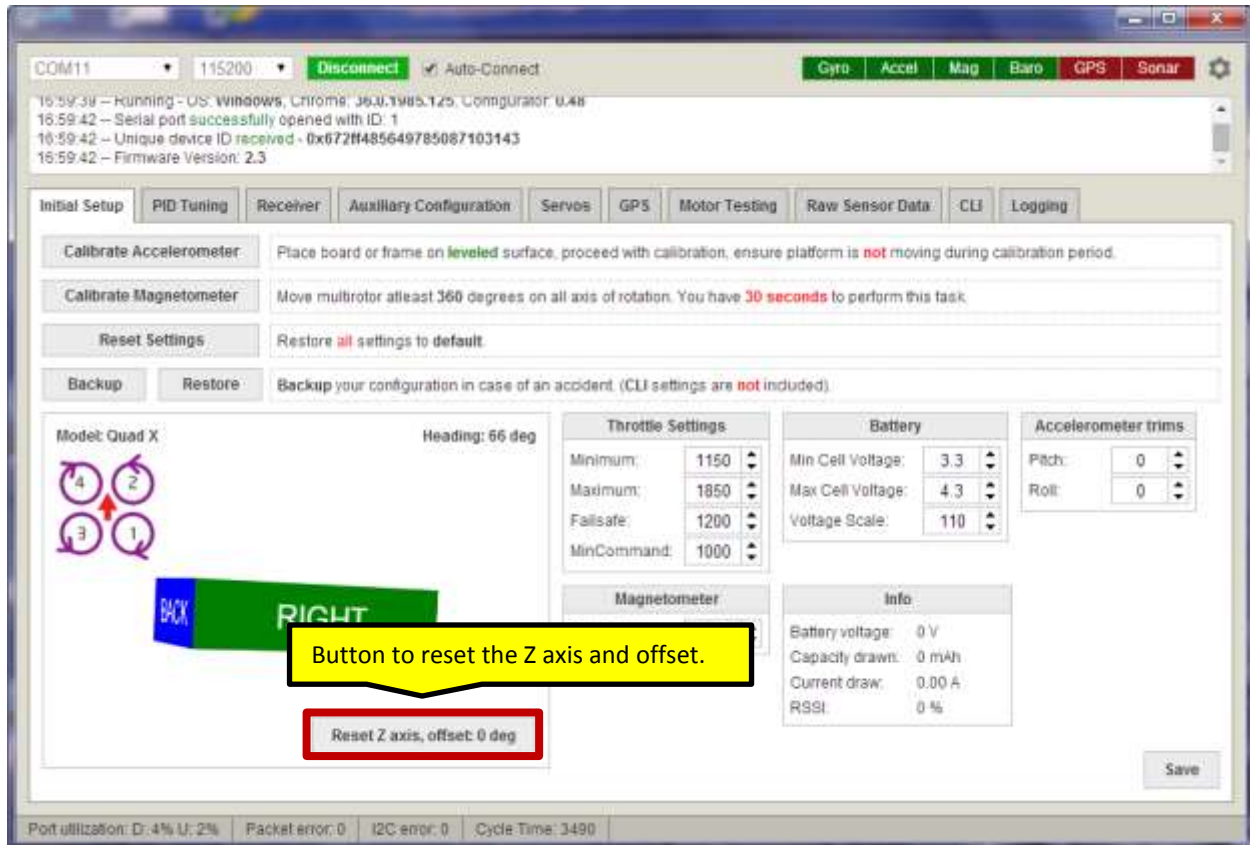
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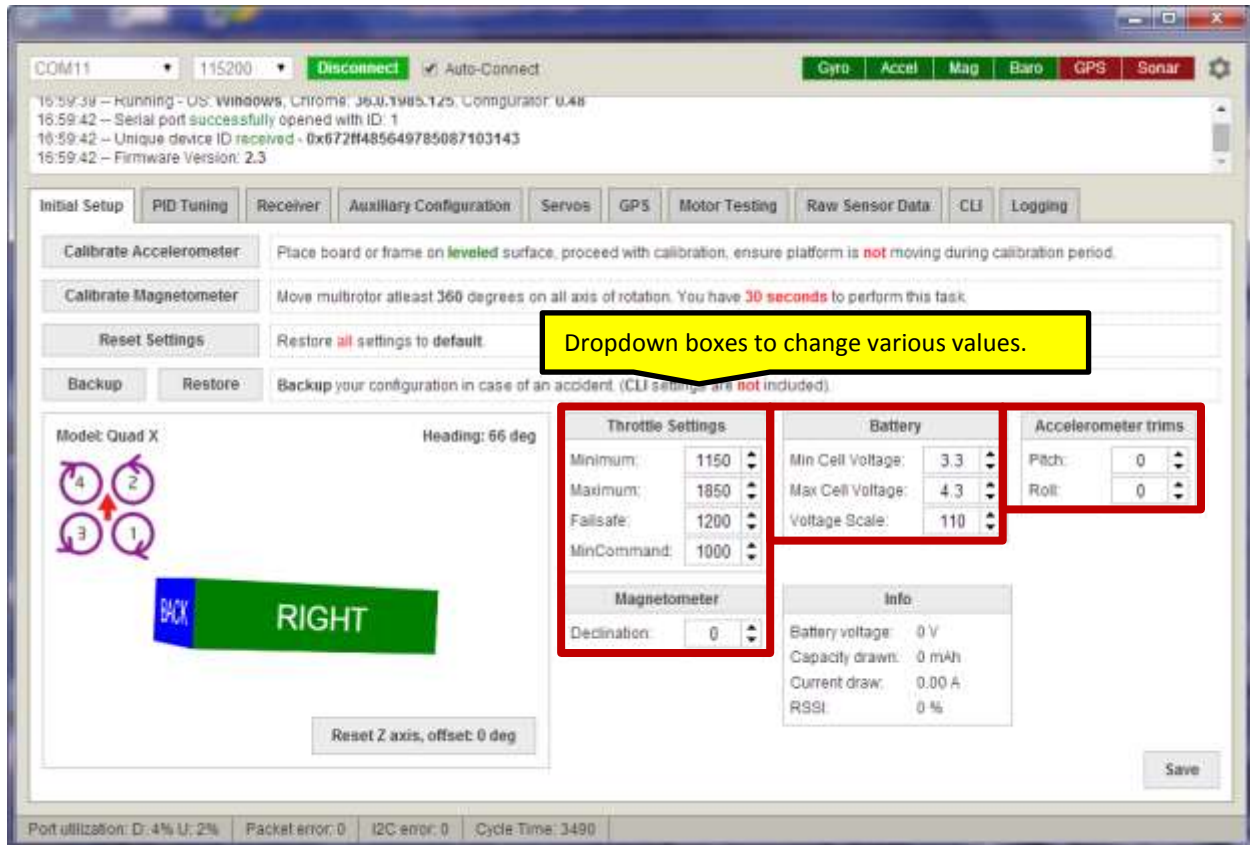
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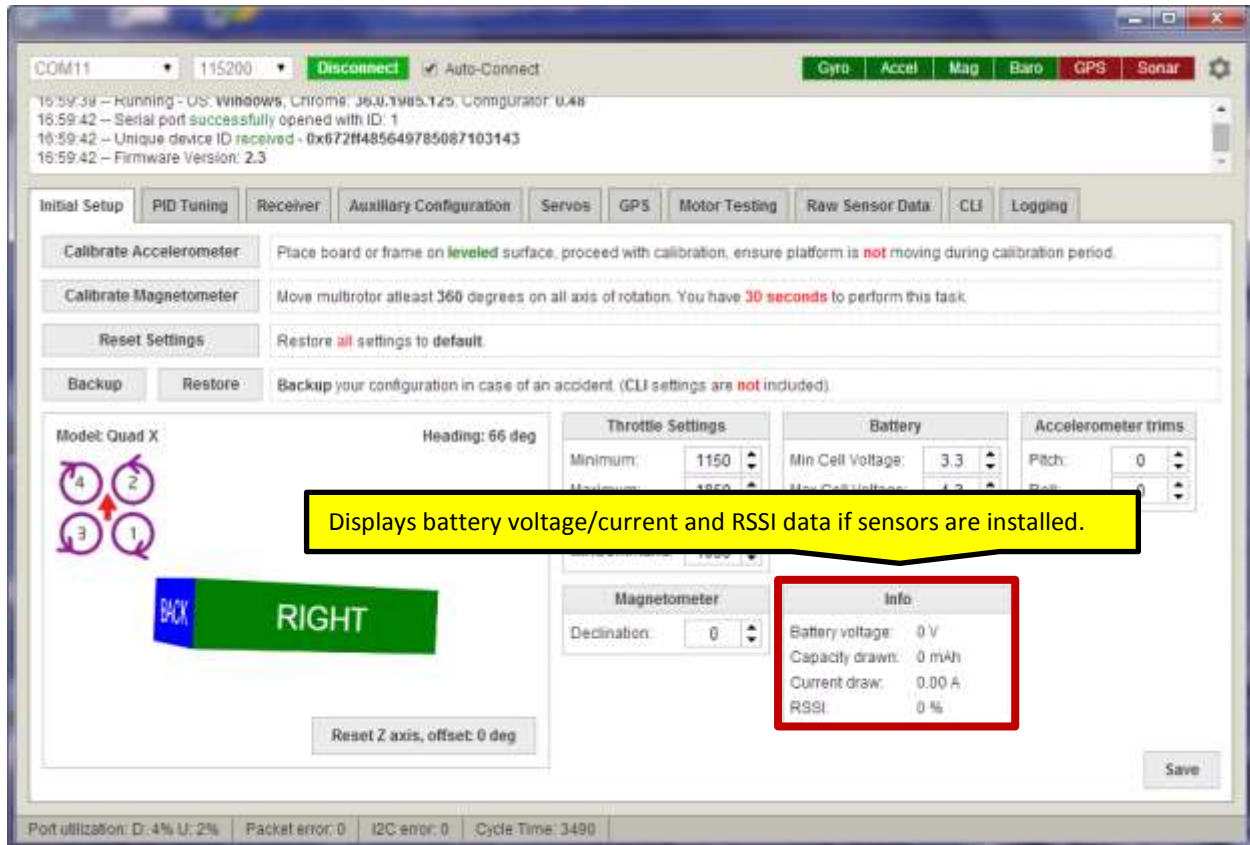
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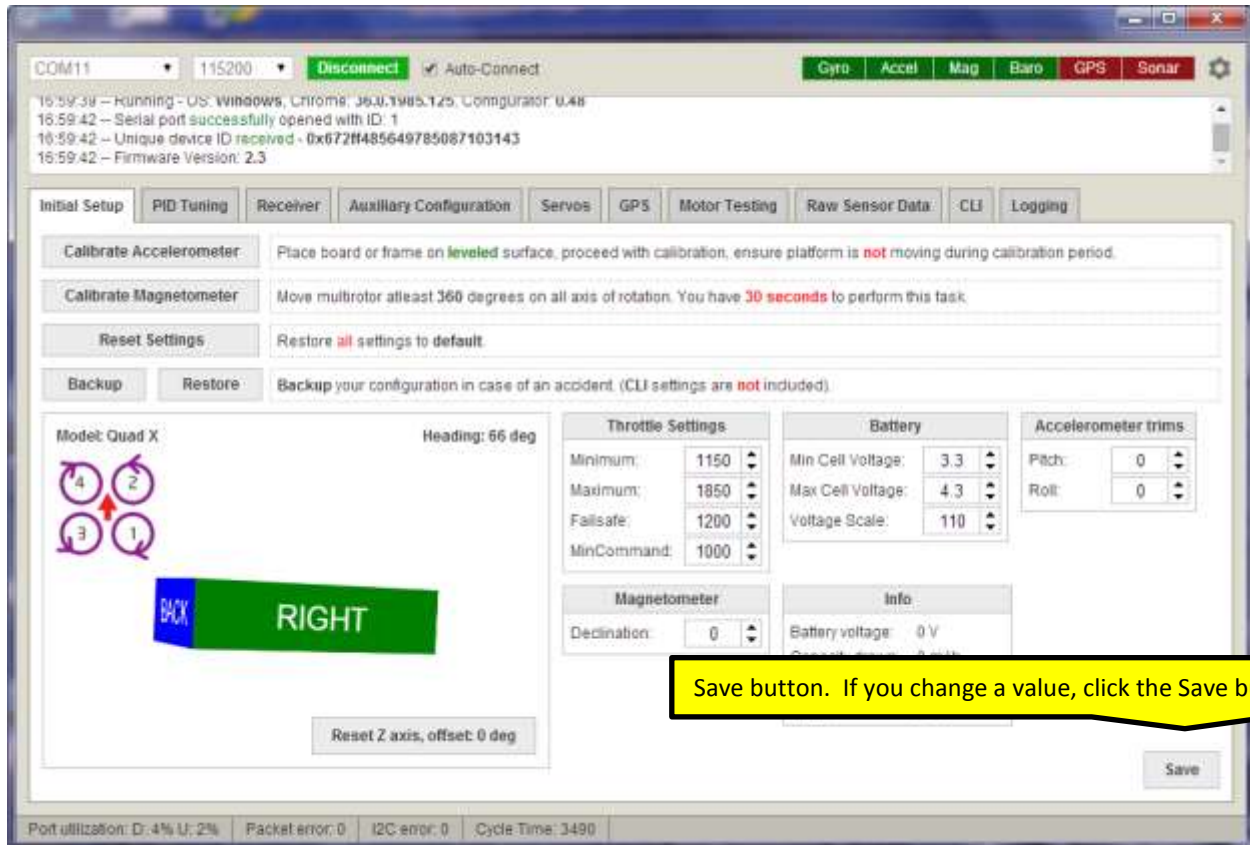
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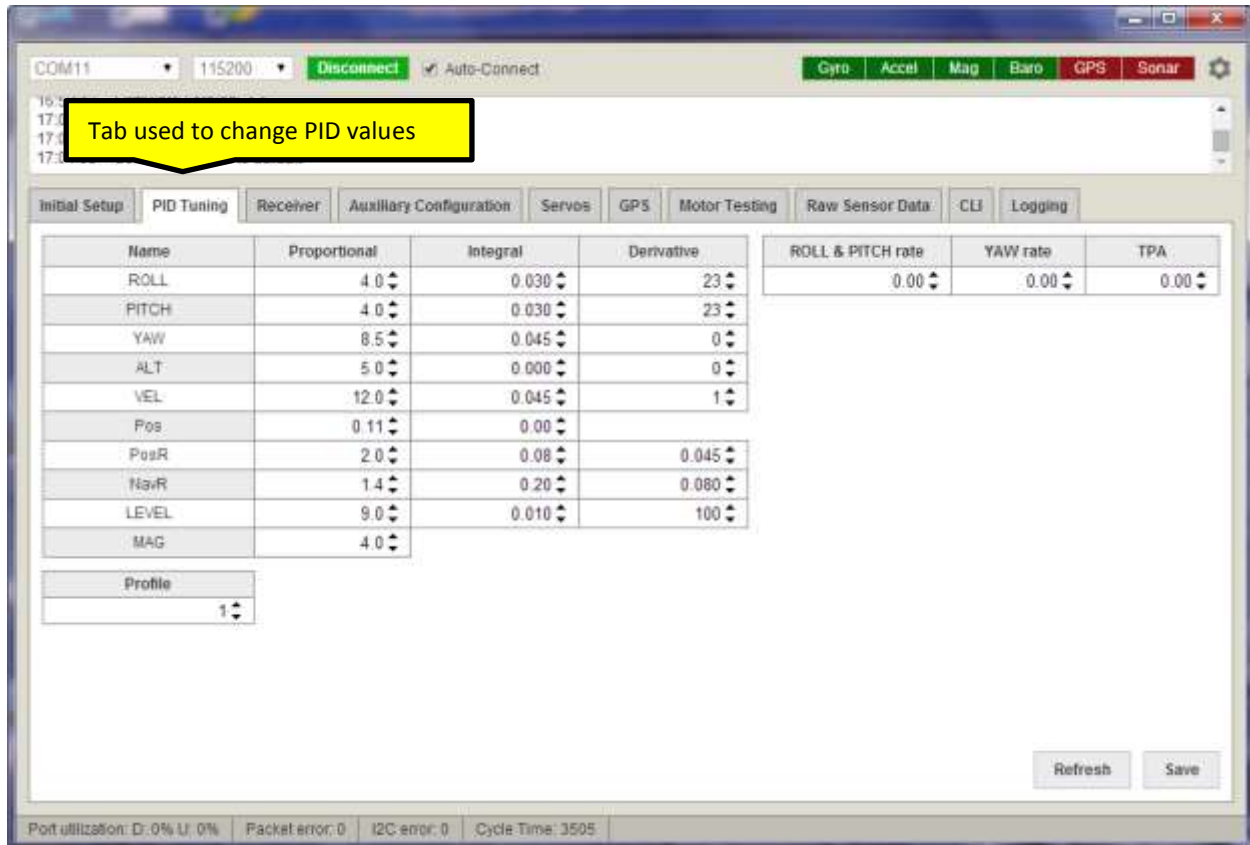
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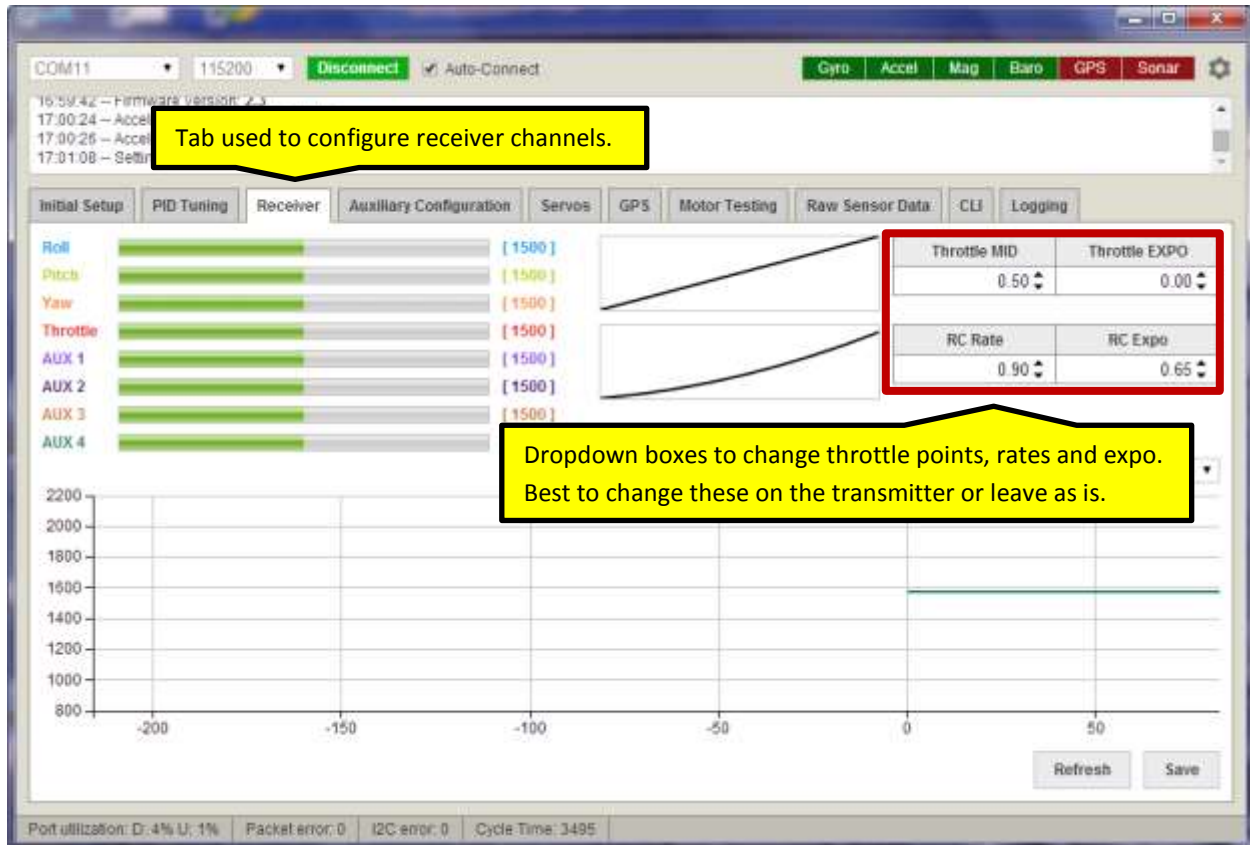
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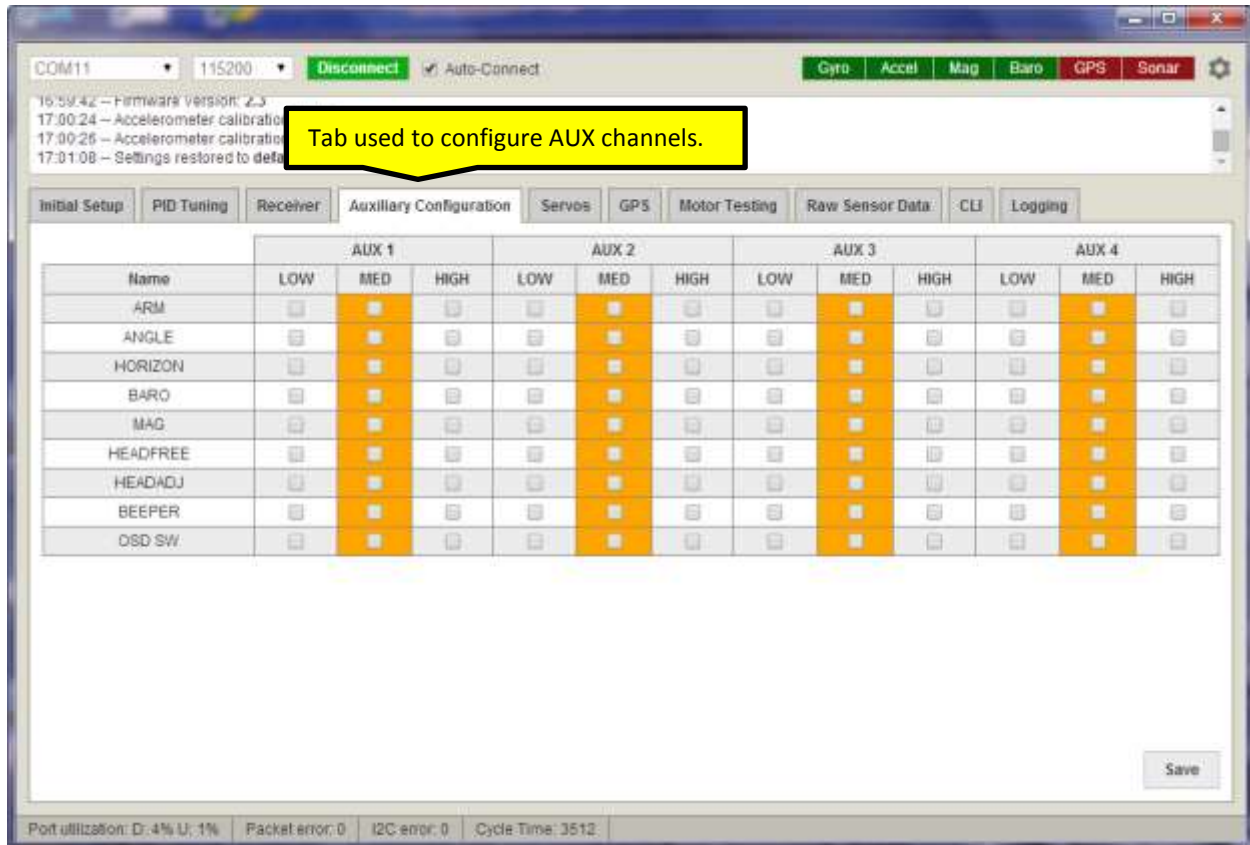
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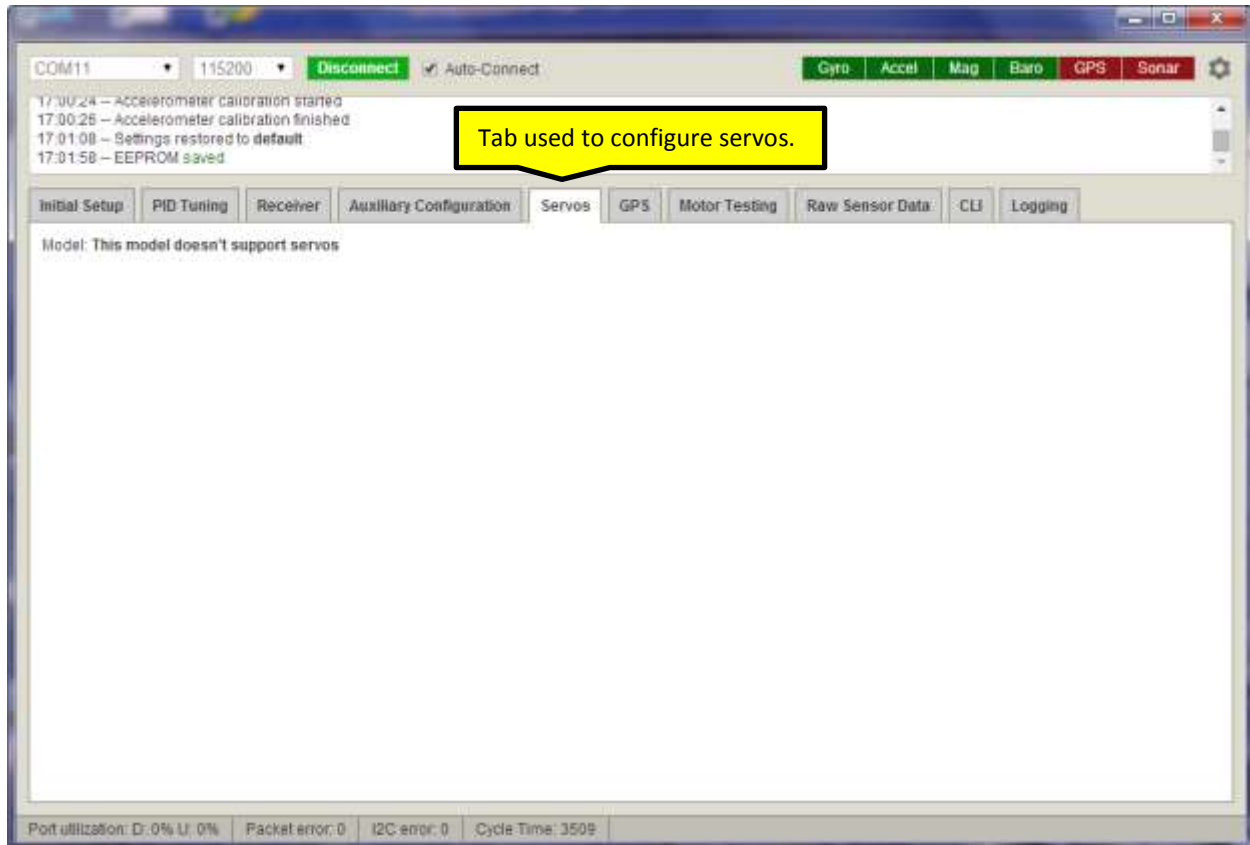
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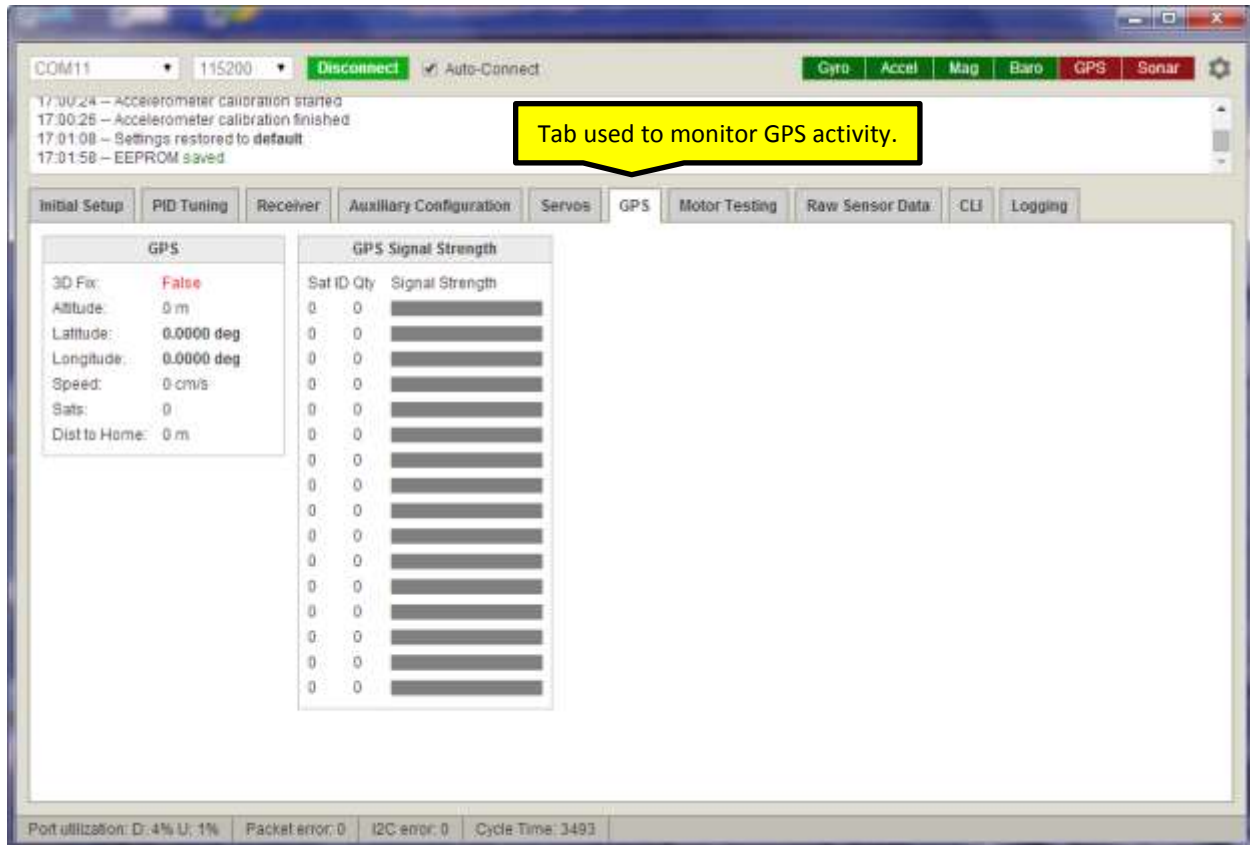
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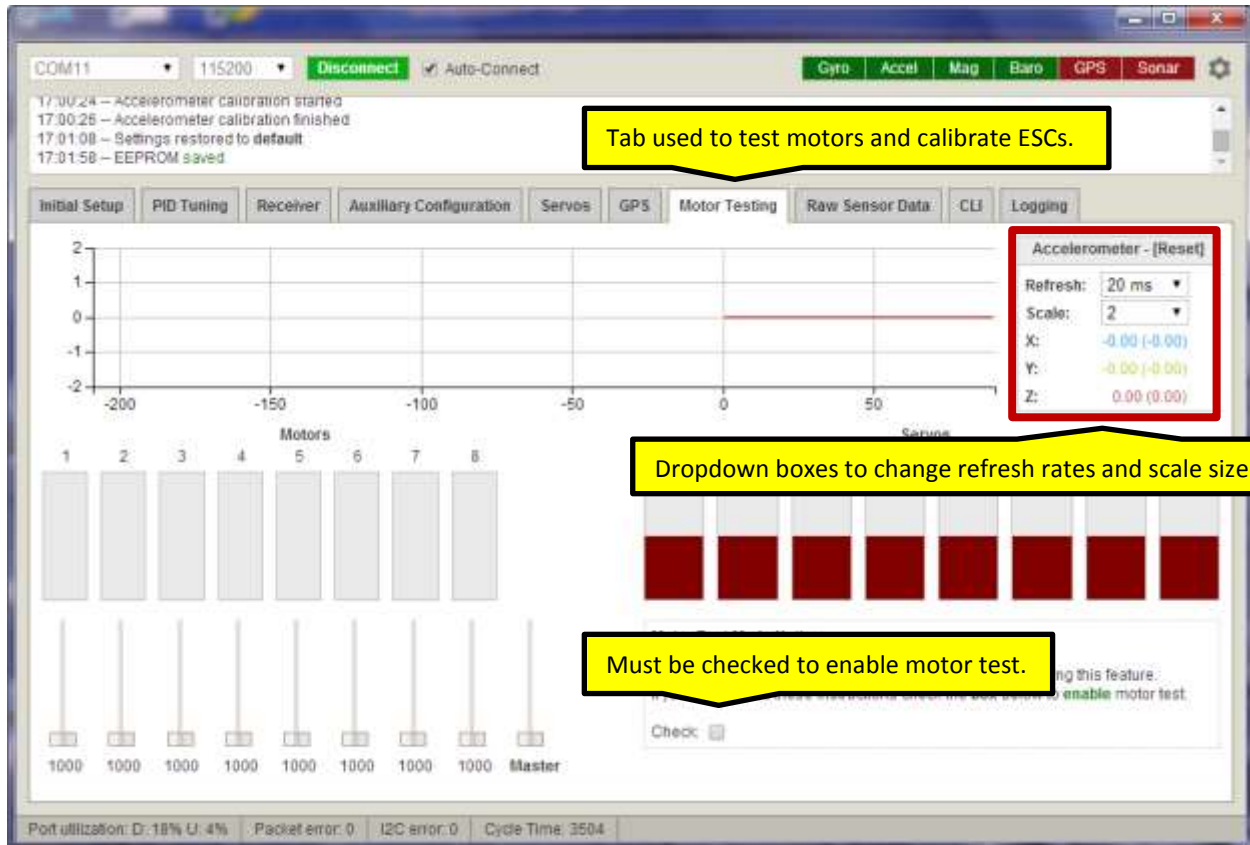
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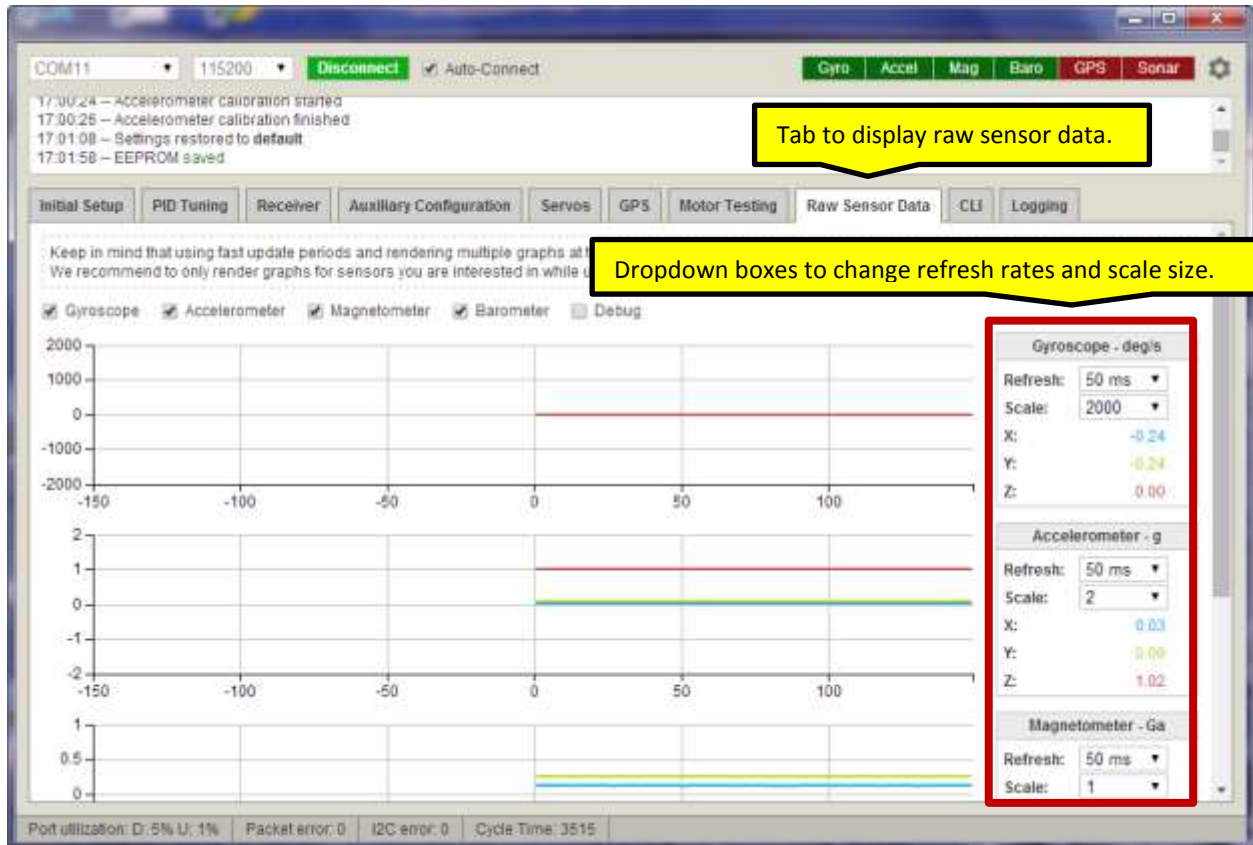
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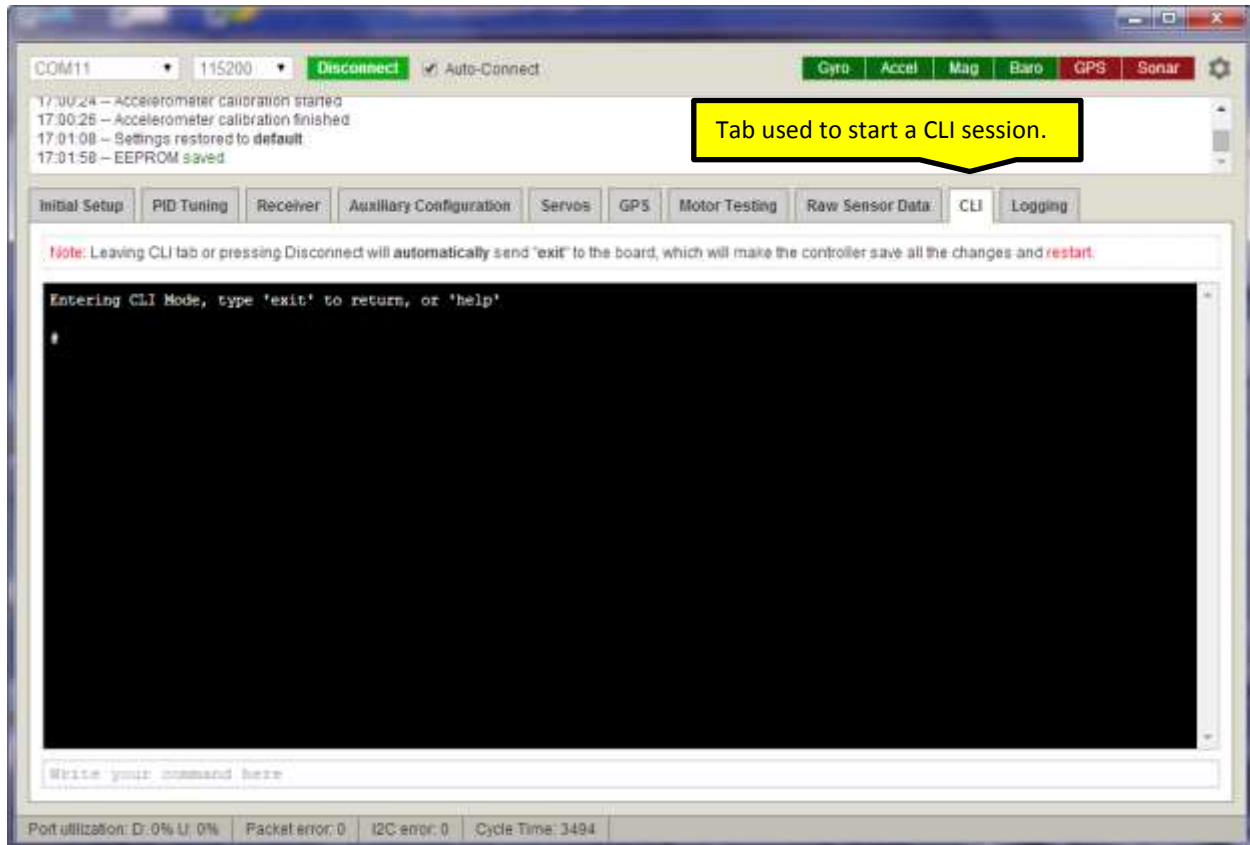
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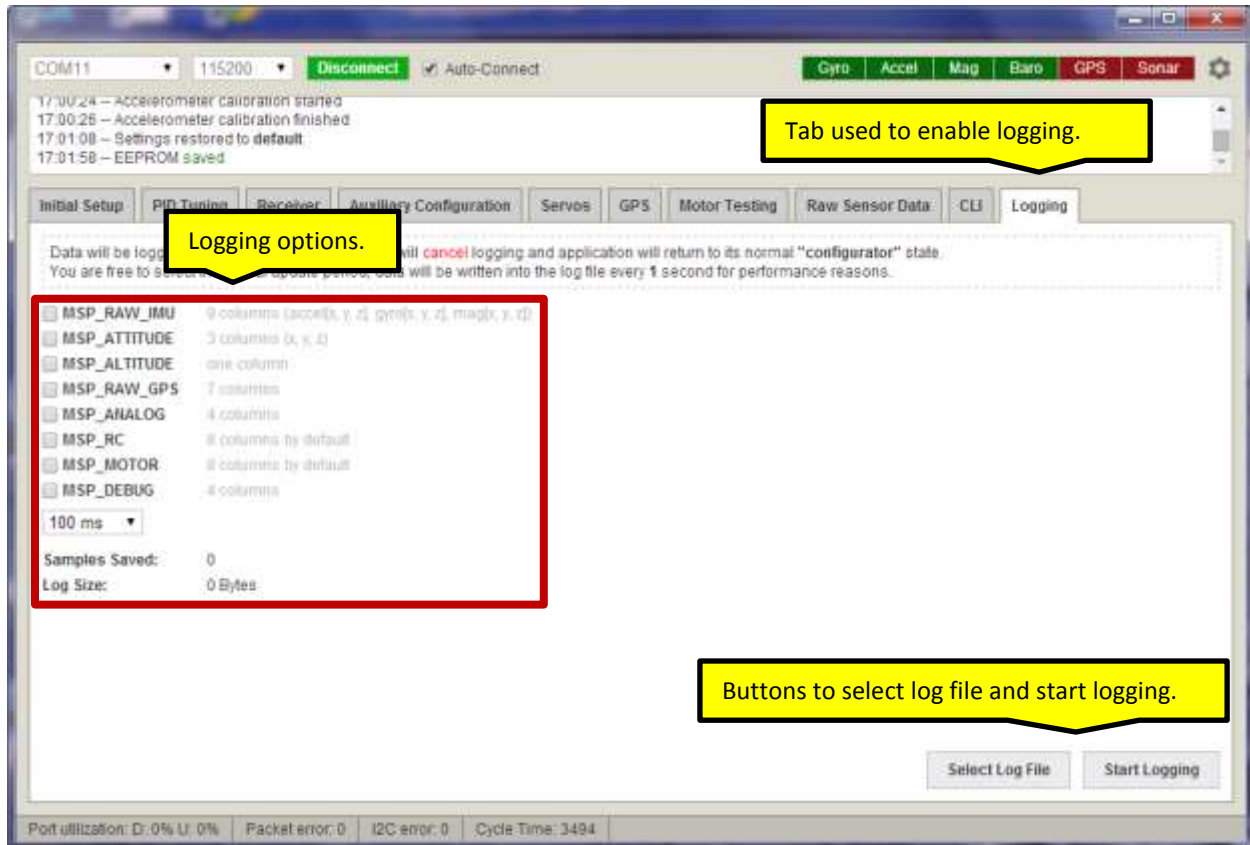
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**CONNECTING THE FLIP32+ TO YOUR PC OR LAPTOP VIA A USB TO MICRO USB CABLE:**

This is the method I prefer so that I do not short out the USB connector on the Flip32+:

1. Connect the USB to micro USB cable to the Flip32+
2. Connect the USB to micro USB cable to the pc or laptop

**DISCONNECTING THE FLIP32+ FROM YOUR PC OR LAPTOP:**

This is the method I prefer so that I do not short out the USB connector on the Flip32+:

1. Disconnect the USB to micro USB cable from the pc or laptop
2. Disconnect the USB to micro USB cable from the Flip32+

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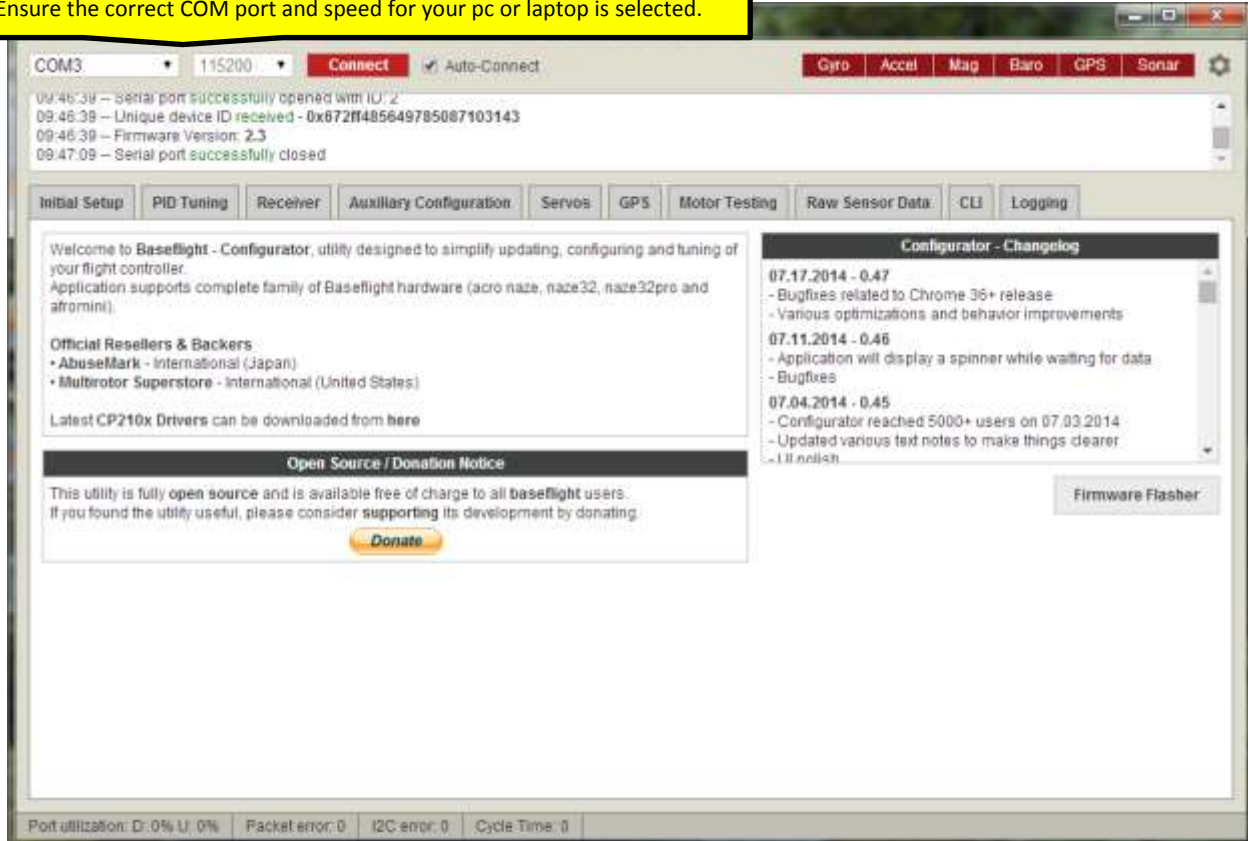


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**CHECKING THE FIRMWARE VERSION:**

1. Connect the Flip32+ to your pc or laptop.
2. Start the BaseFlight Configurator.

3. Ensure the correct COM port and speed for your pc or laptop is selected.



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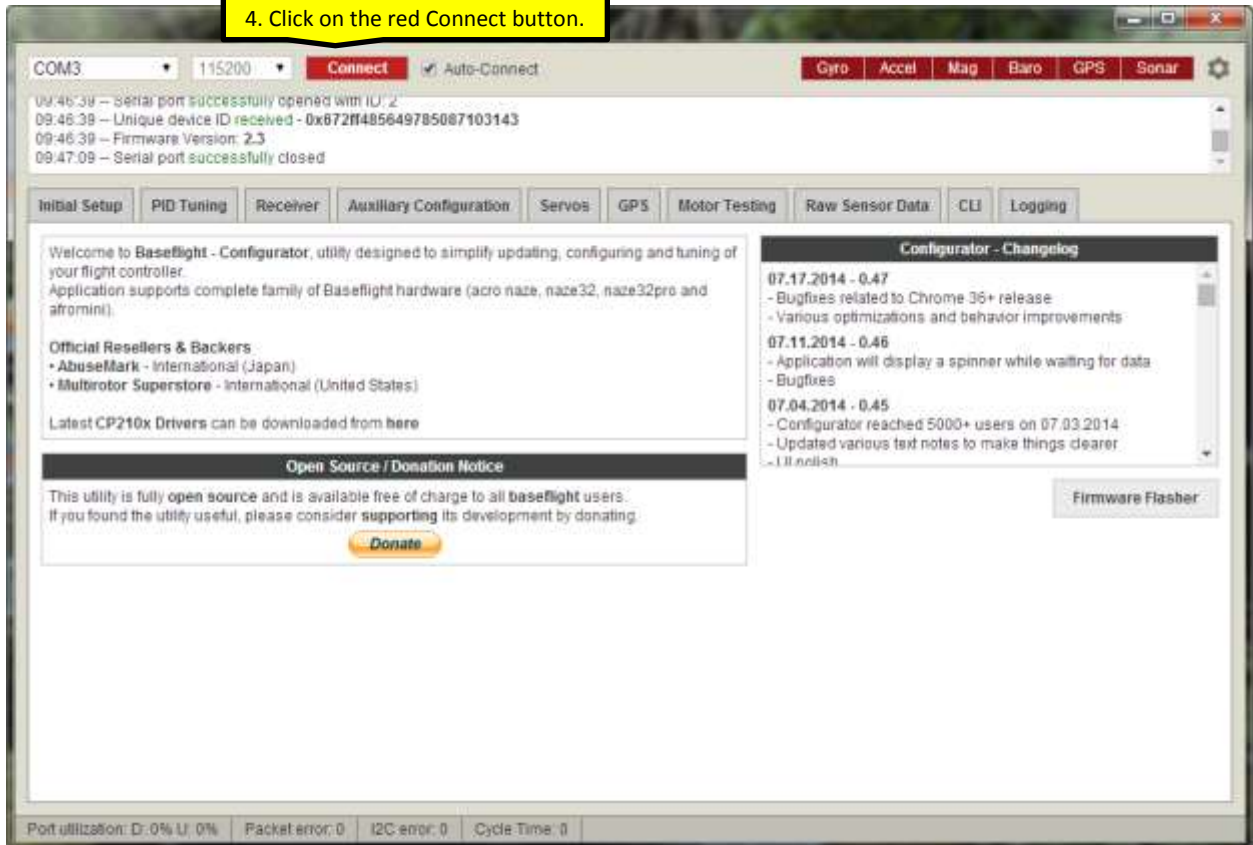
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4. Click on the red Connect button.



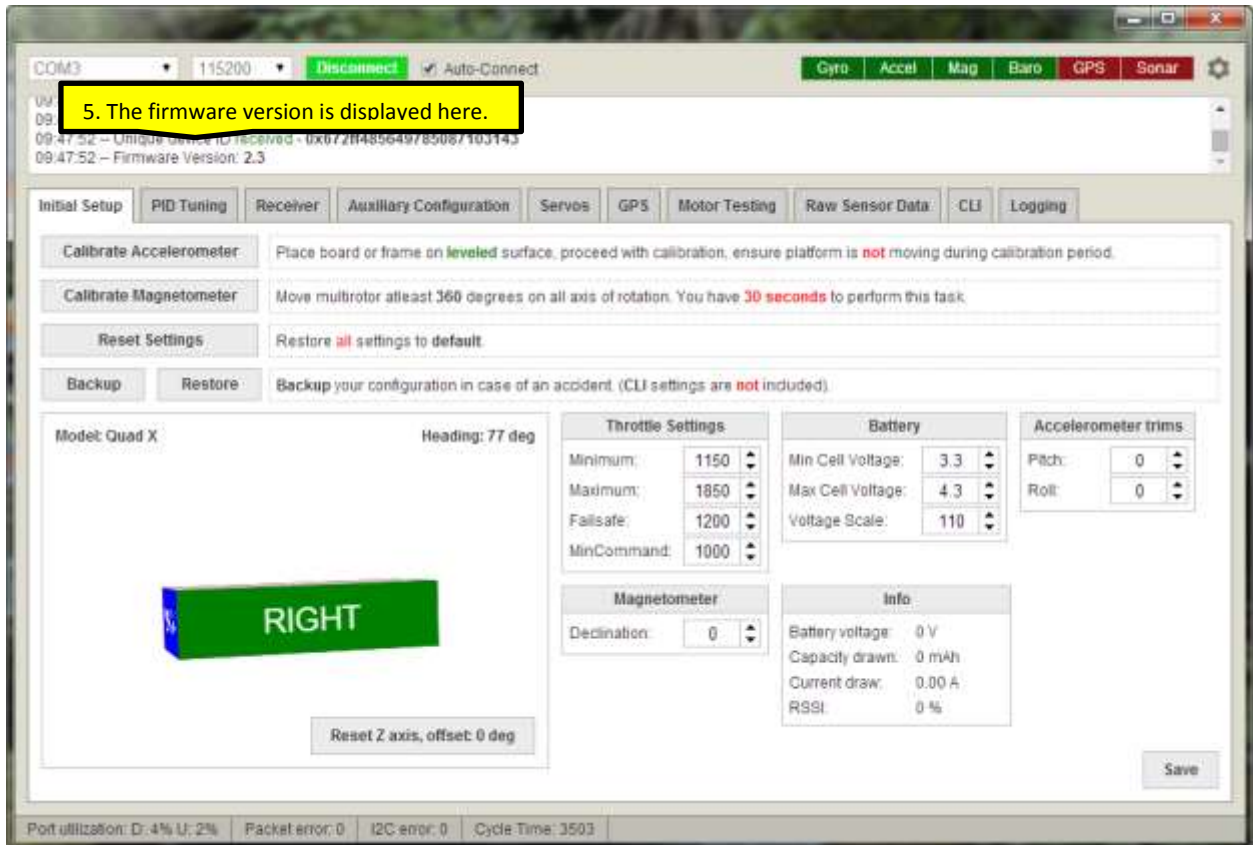
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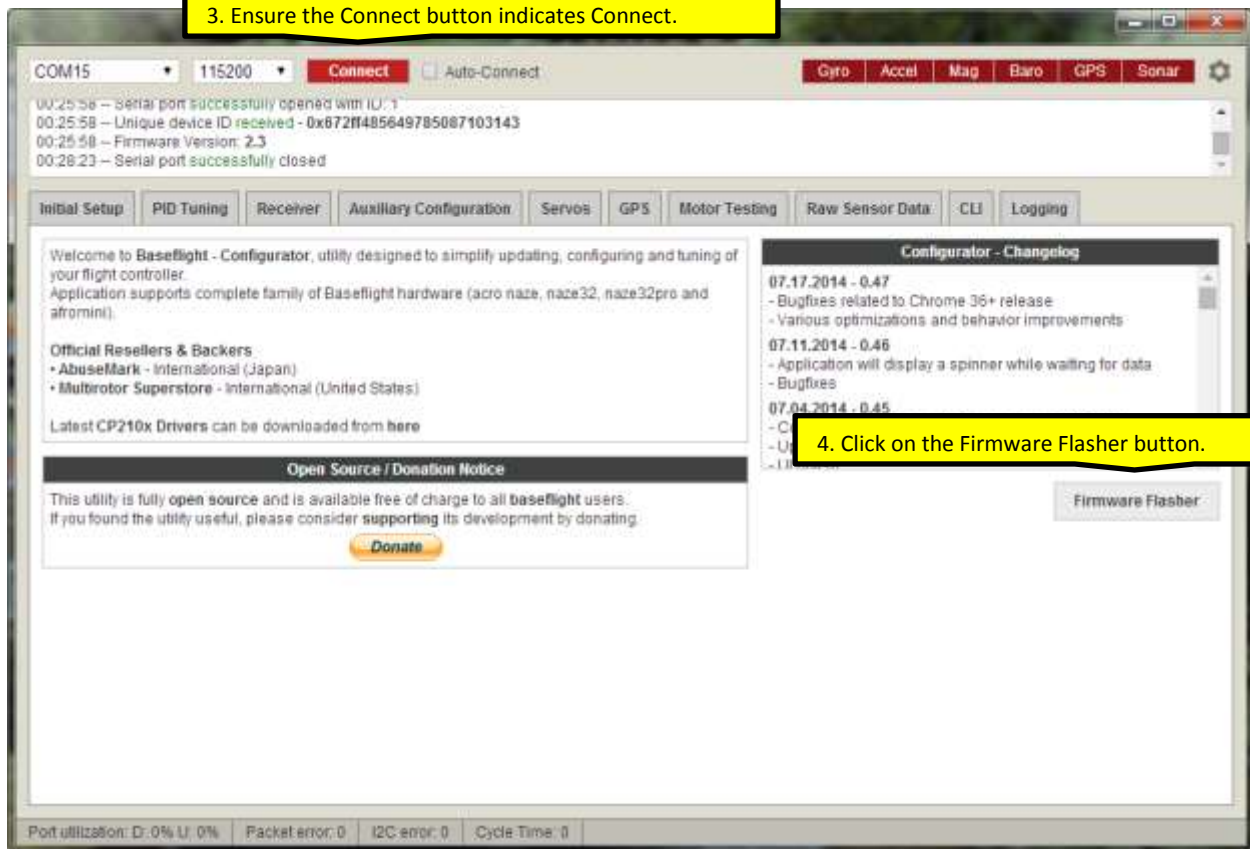
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**UPDATING THE FIRMWARE:**

1. Connect the Flip32+ to your pc or laptop.
2. Start the BaseFlight Configurator.

3. Ensure the Connect button indicates Connect.



4. Click on the Firmware Flasher button.

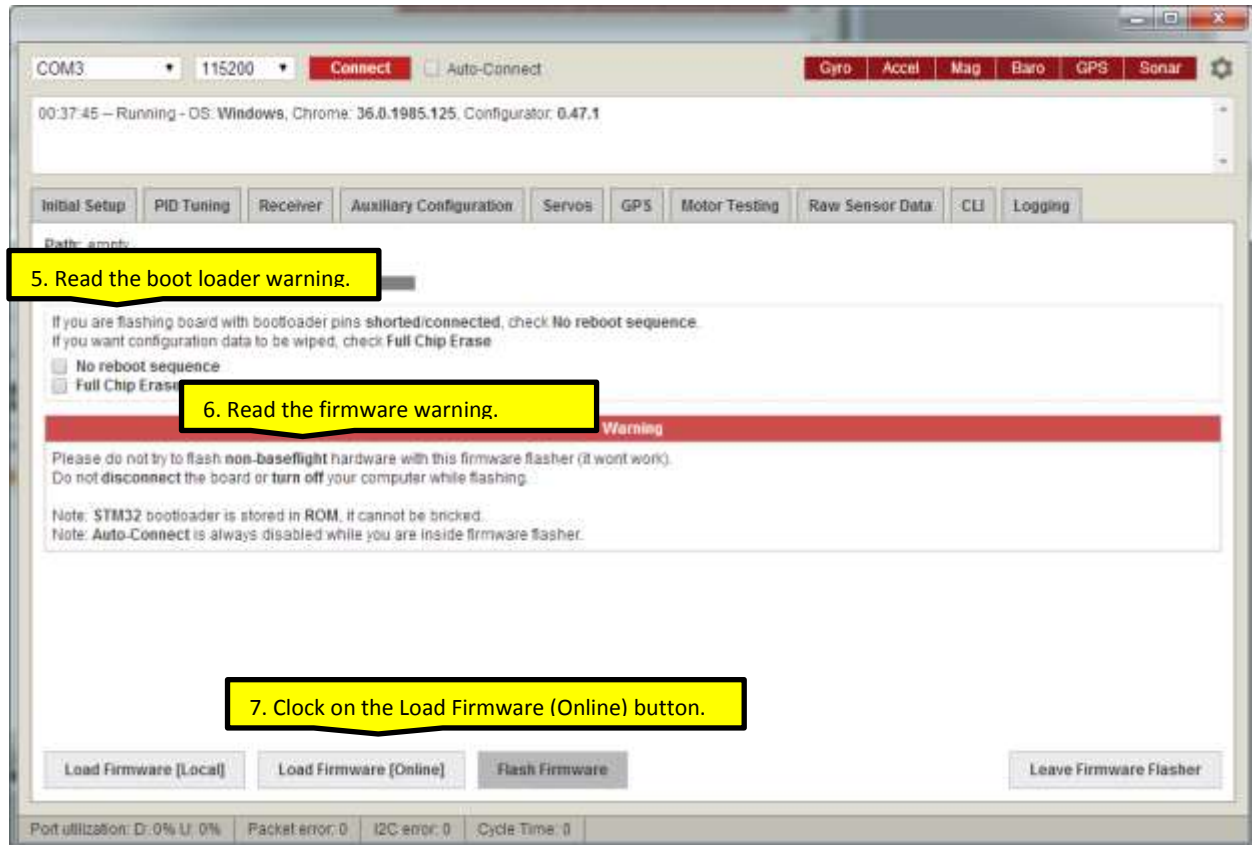
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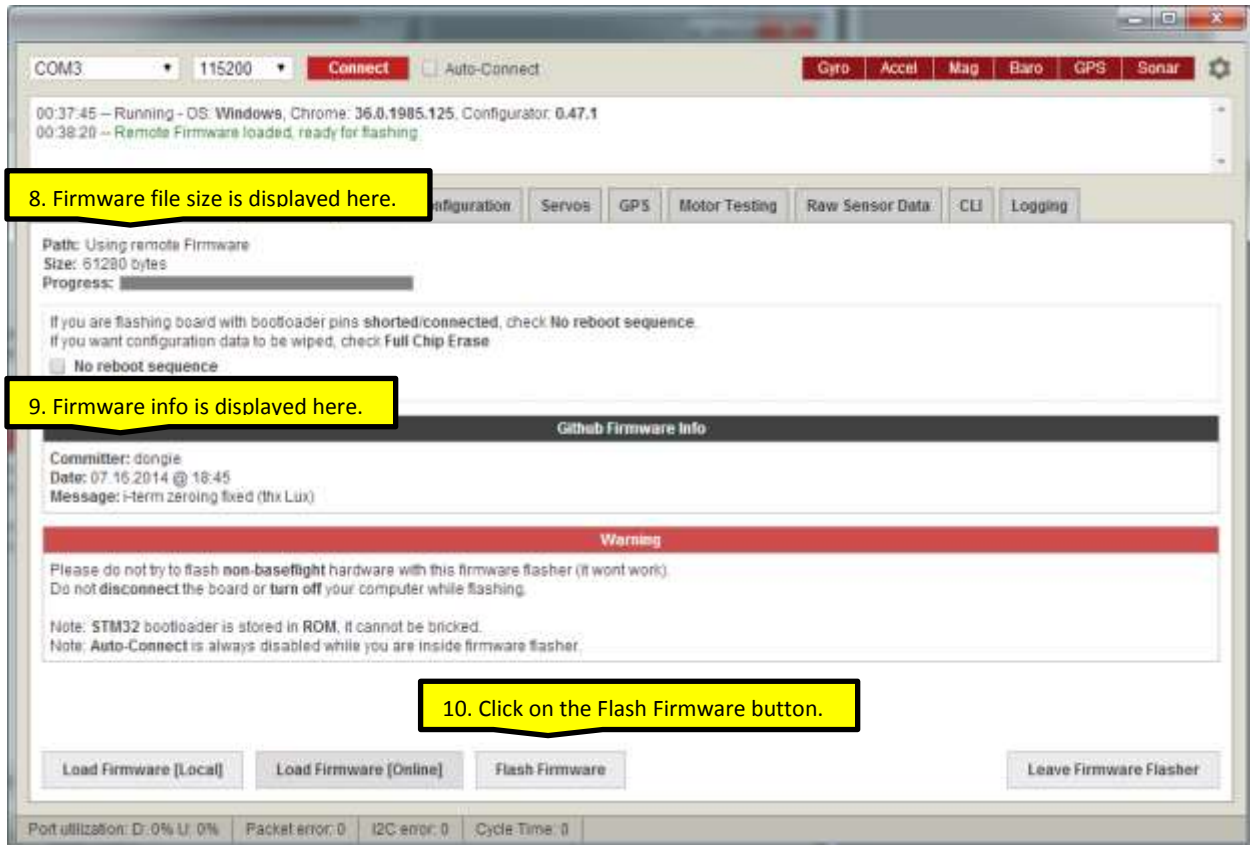
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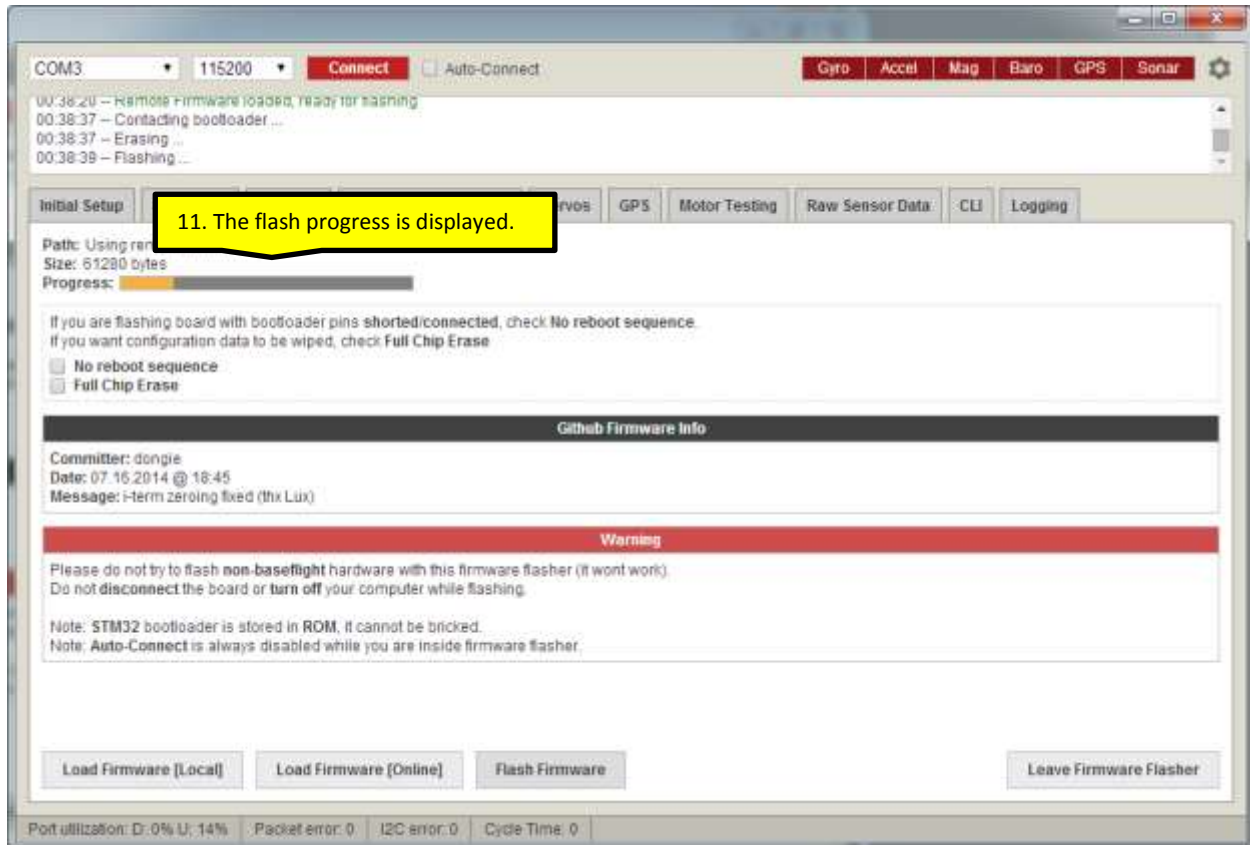
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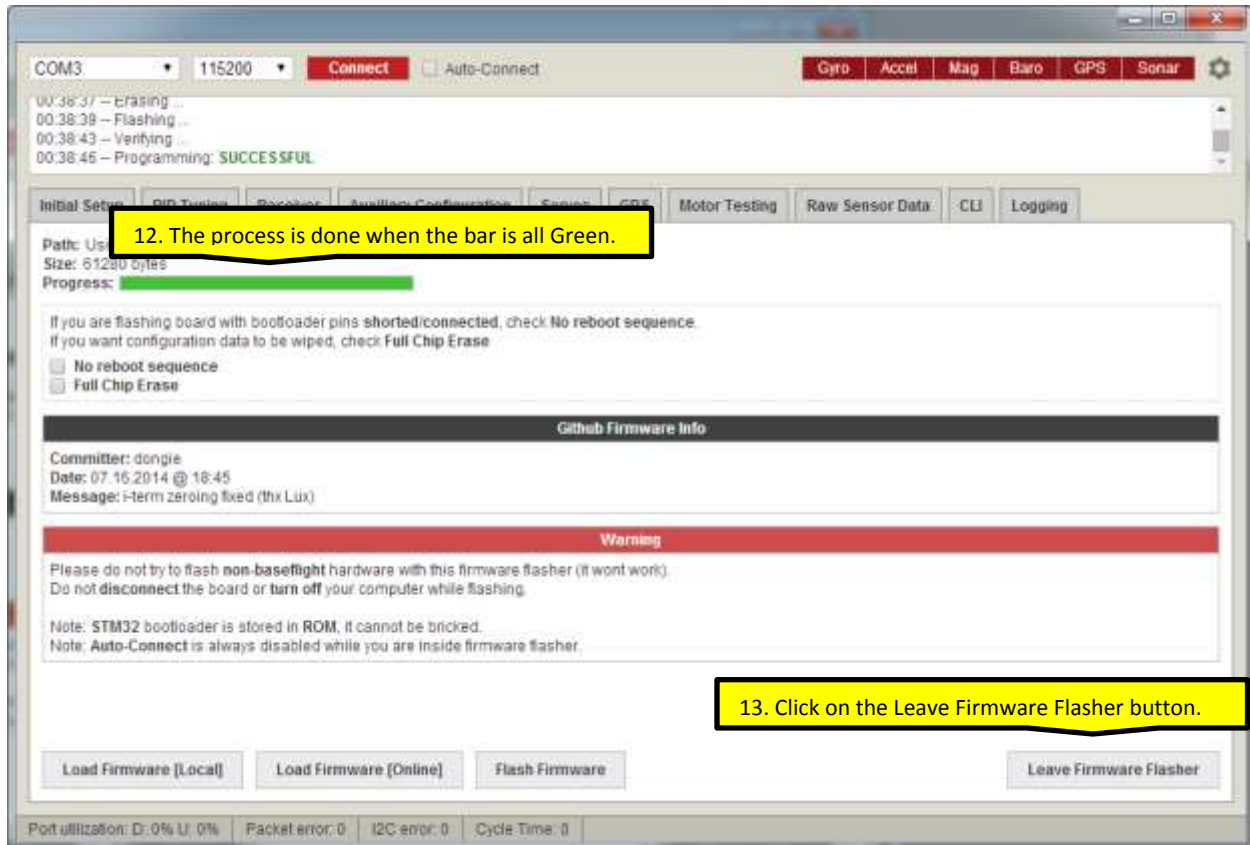
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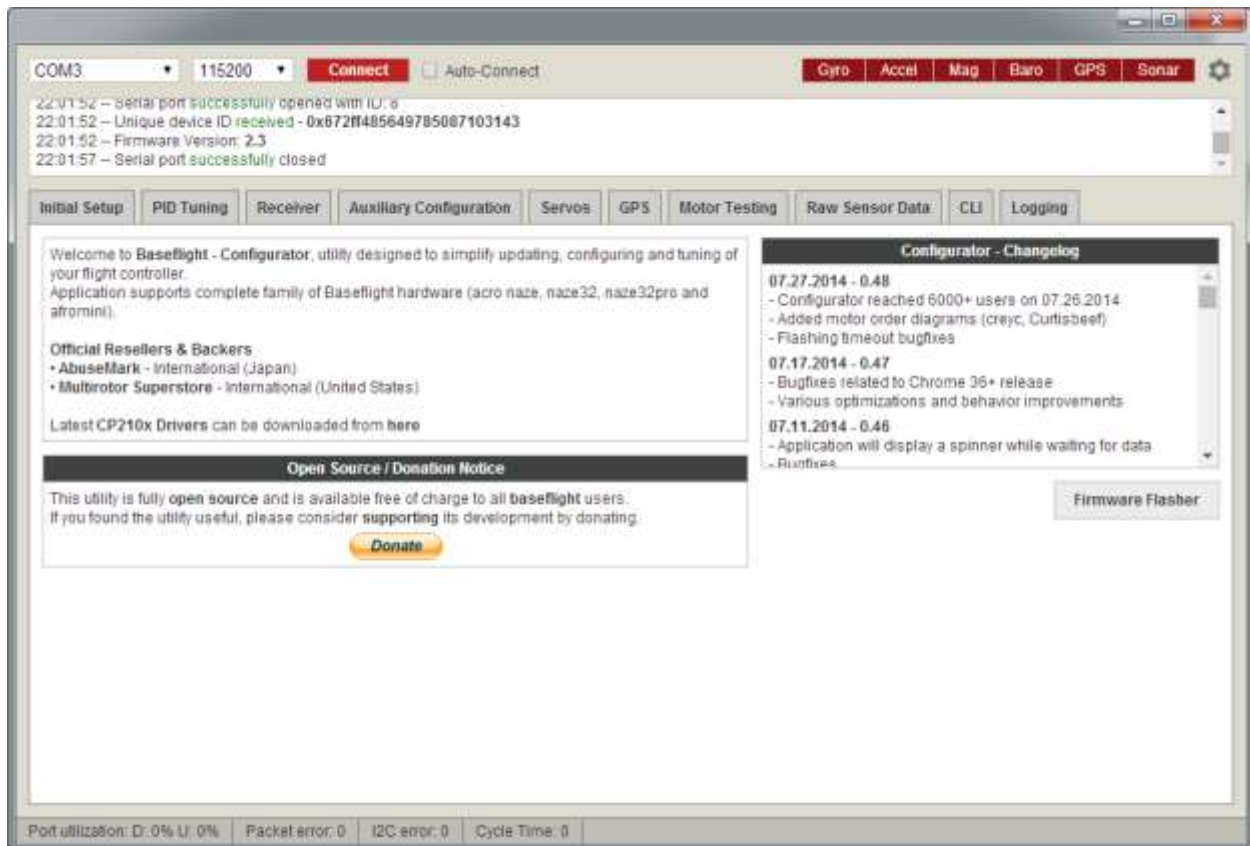
**TRANSMITTER STICK CALIBRATION:**

This calibration process performs two very important tasks:

- Provides the Flip32+ the PWM pulse ranges generated by each channel and stick on your transmitter.
- Provides a means to verify the movement of your channels, in case one of them needs to be reversed.

1. Connect the Flip32+ to your pc or laptop.
2. Start the BaseFlight Configurator.

3. Click on the Connect button if not already connected.



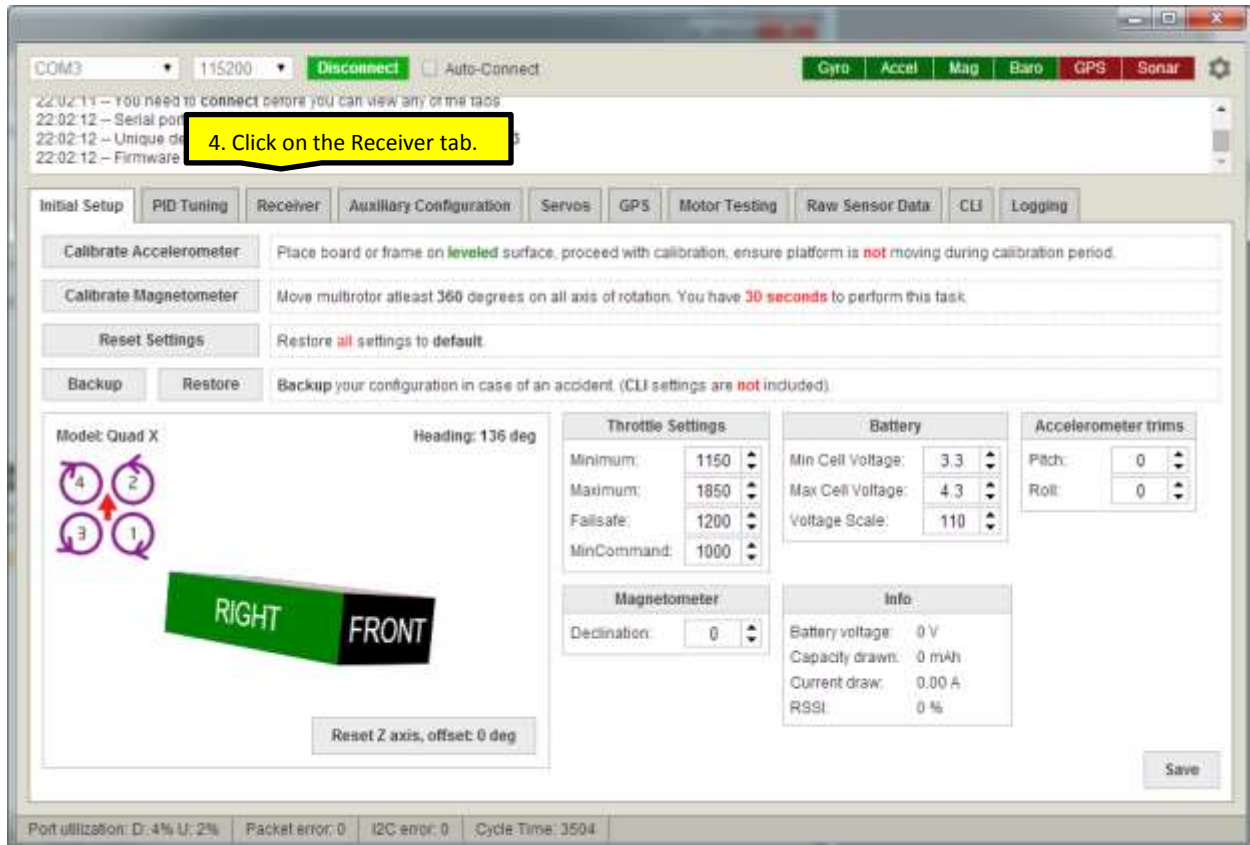
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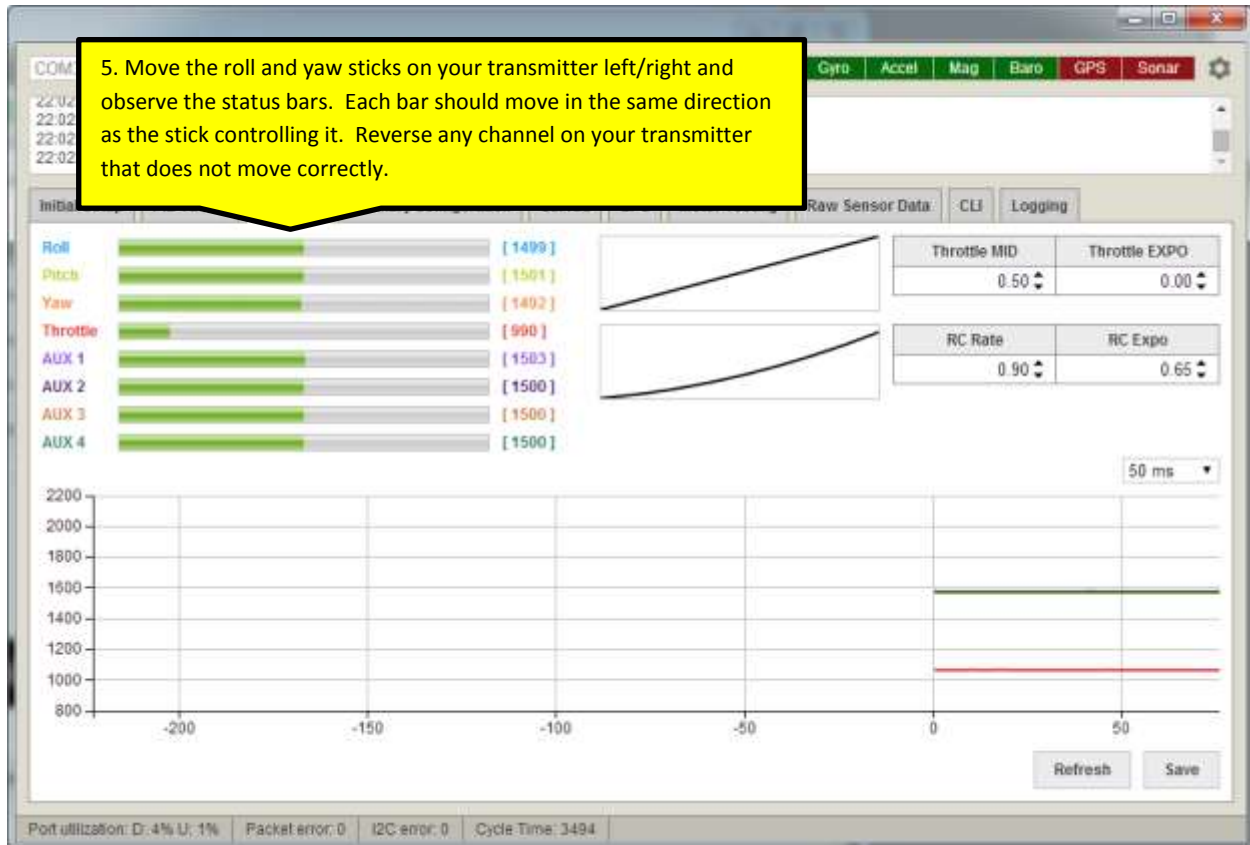
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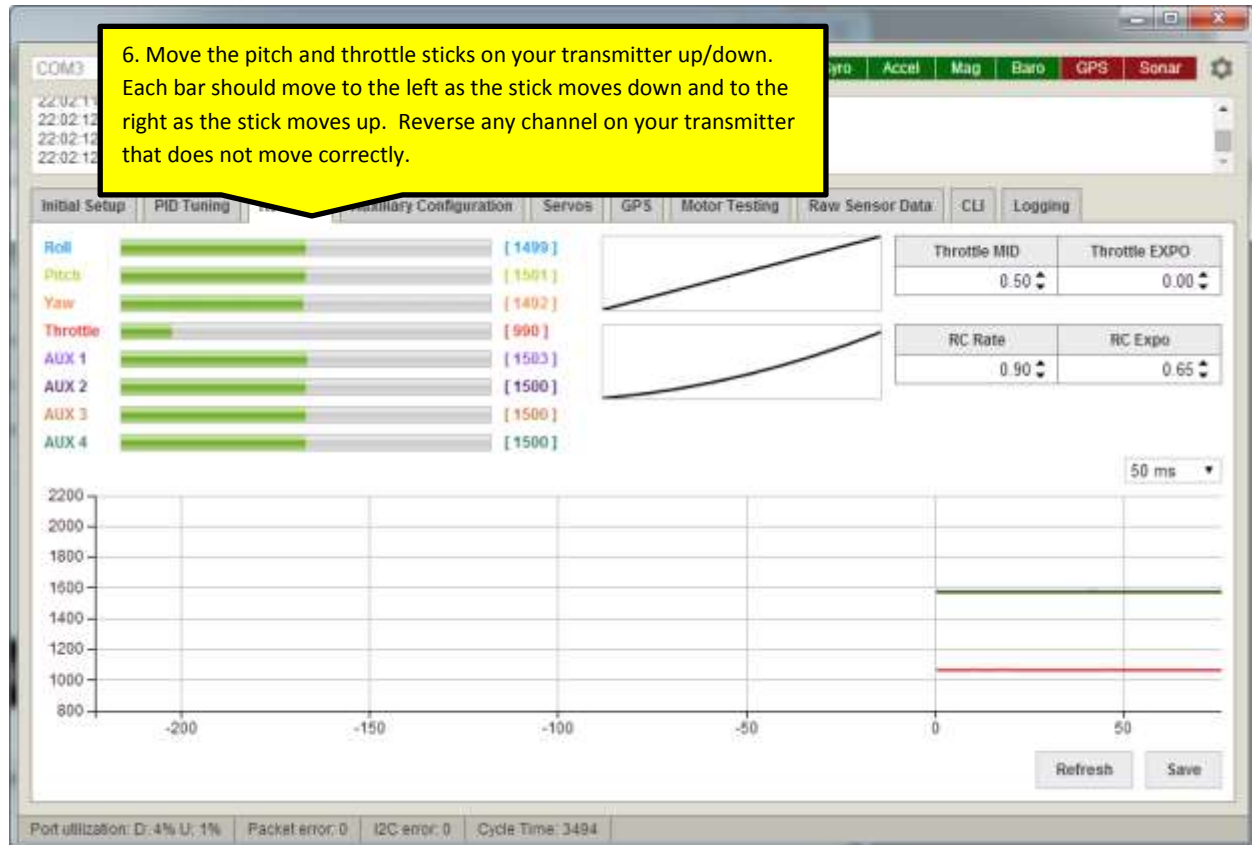
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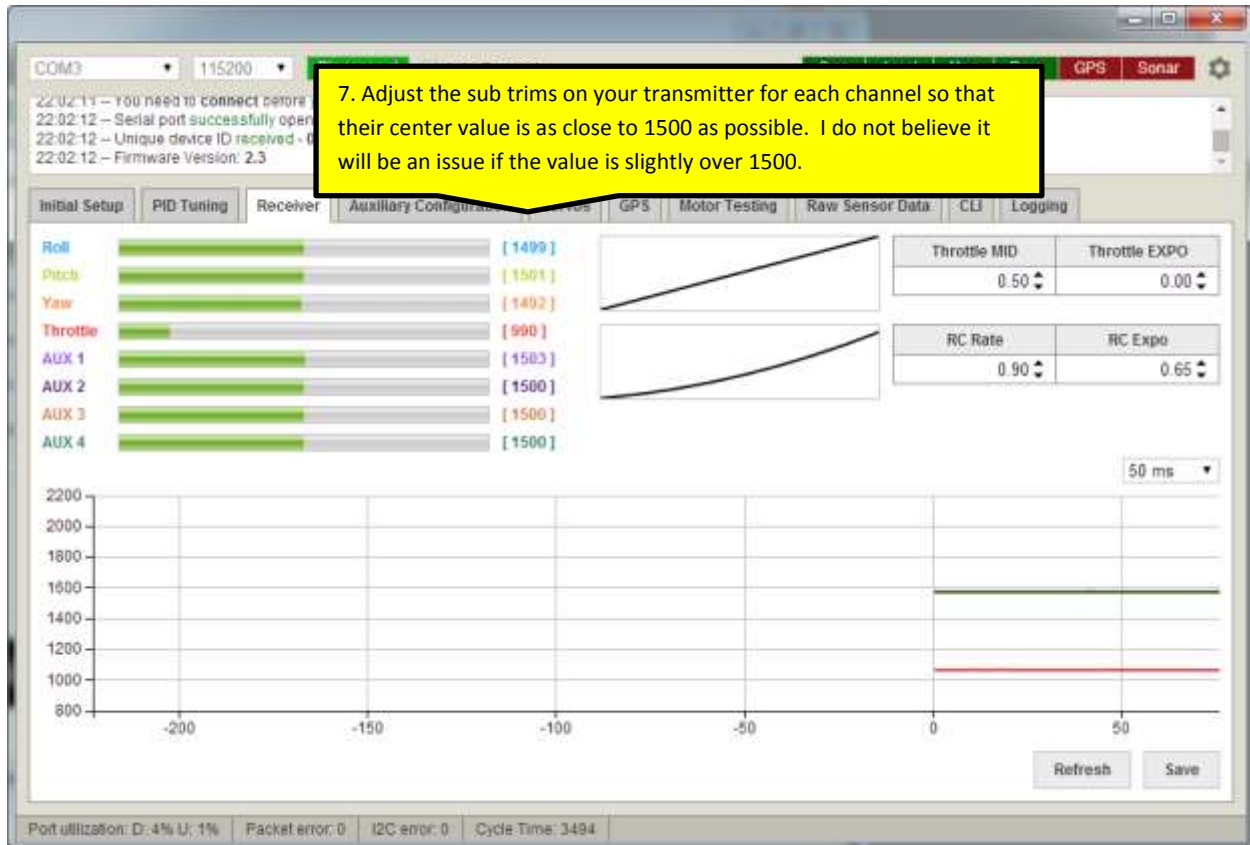
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**FAILSAFE CONSIDERATIONS:**

The failsafe feature is a function of the receiver and not the Flip32+ so a failsafe enabled receiver is required. When a failsafe is initiated, the Flip32+ receives a PWM throttle value that is lower than the current PWM throttle value and then those values or signals are sent to the ESCs to spin down or stop the motors.

BaseFlight has a motor feature called MOTOR\_STOP which is either enabled or disabled. By default, this value is disabled so that the motors idle up when the Flip32+ is armed. Ask yourself this:

- Do I want to use the motors idling up as an indicator to let me know the Flip32+ is armed?
- Do I think that I or someone can get hurt by the motors idling up if I accidentally arm the Flip32+?
- Do I think that the motors idling down to arming speed instead of stopping completely will make a difference when failsafe is initiated and the multirotor is falling from the sky?

For me, the answers are Yes, No and No so I am leaving the MOTOR\_STOP feature disabled. Just keep in mind that if you leave it as is, you will still see spinning props when failsafe is initiated but they will be spinning slowly.

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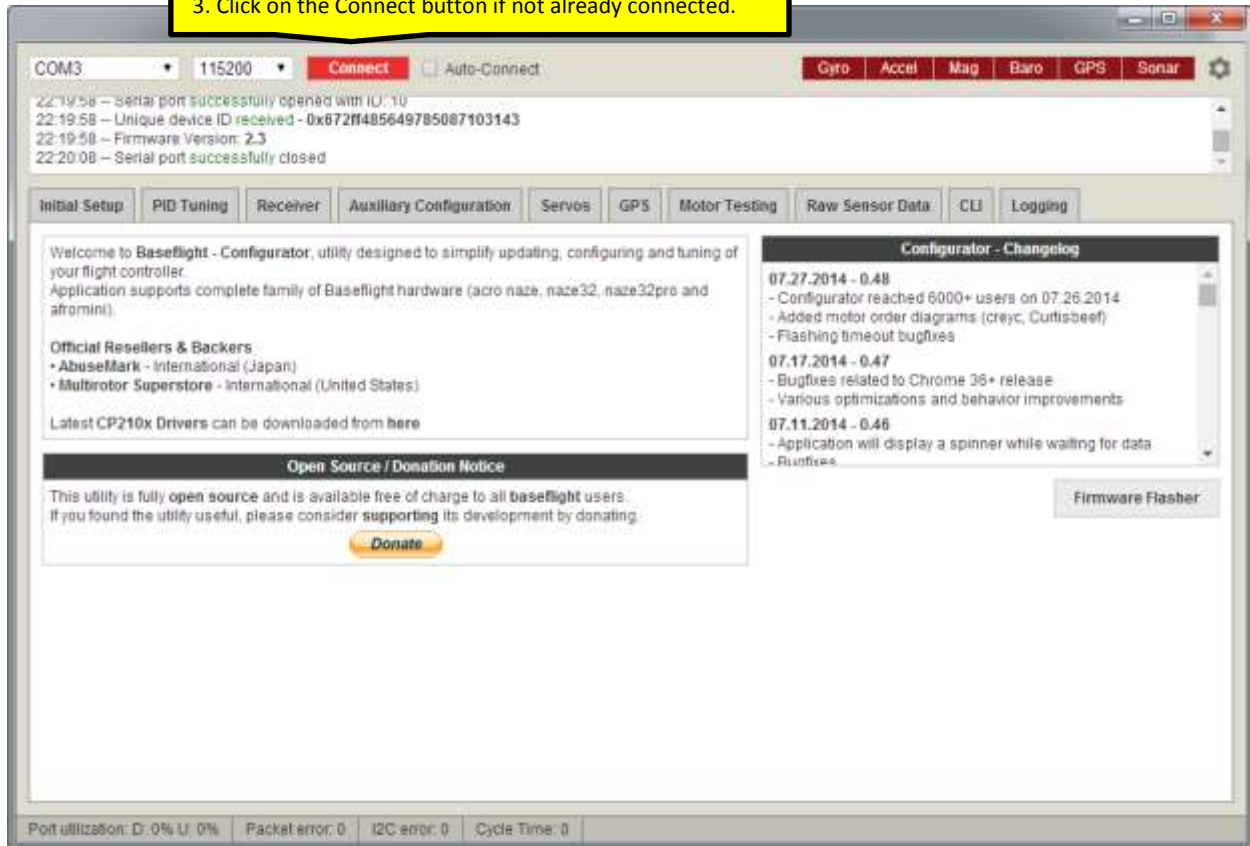


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**ENABLING/DISABLING THE MOTOR\_STOP FEATURE:**

1. Connect the Flip32+ to your pc or laptop.
2. Start the BaseFlight Configurator.

3. Click on the Connect button if not already connected.



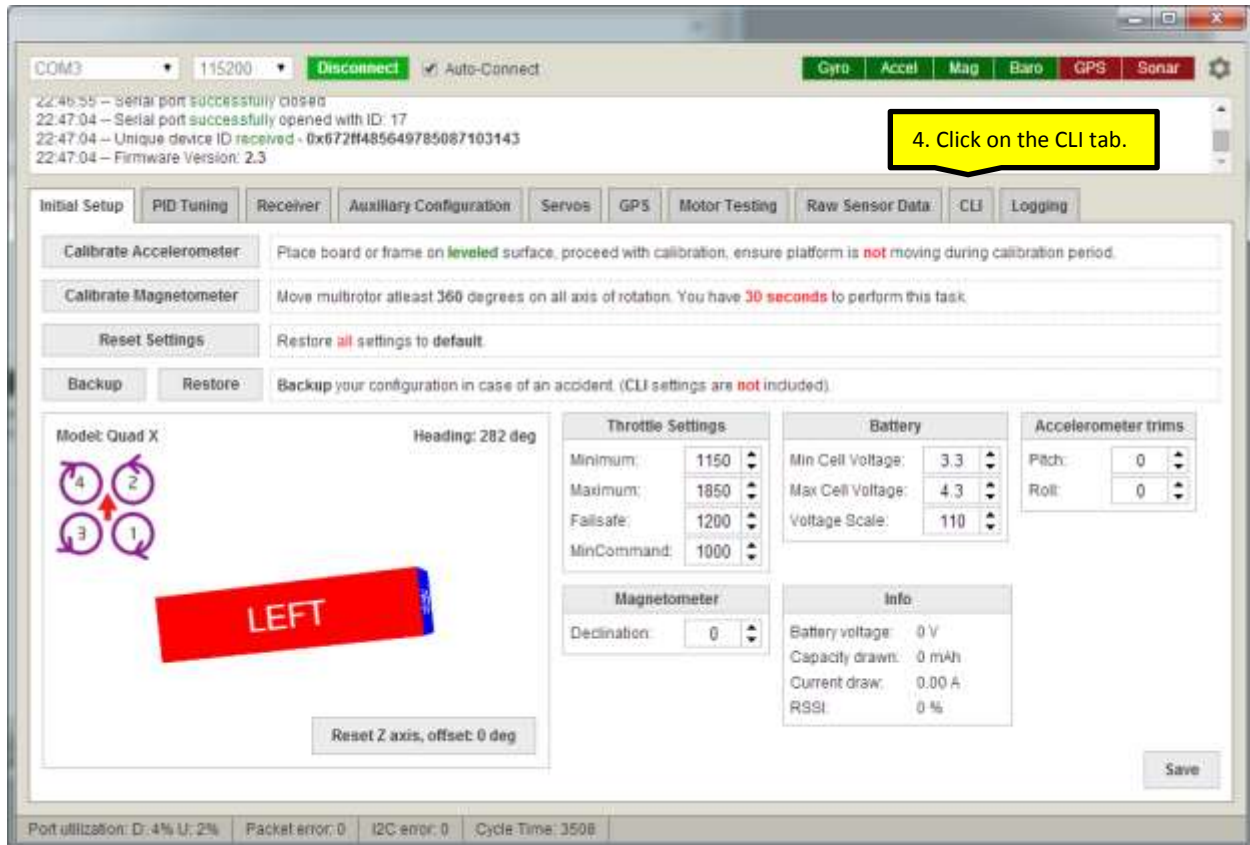
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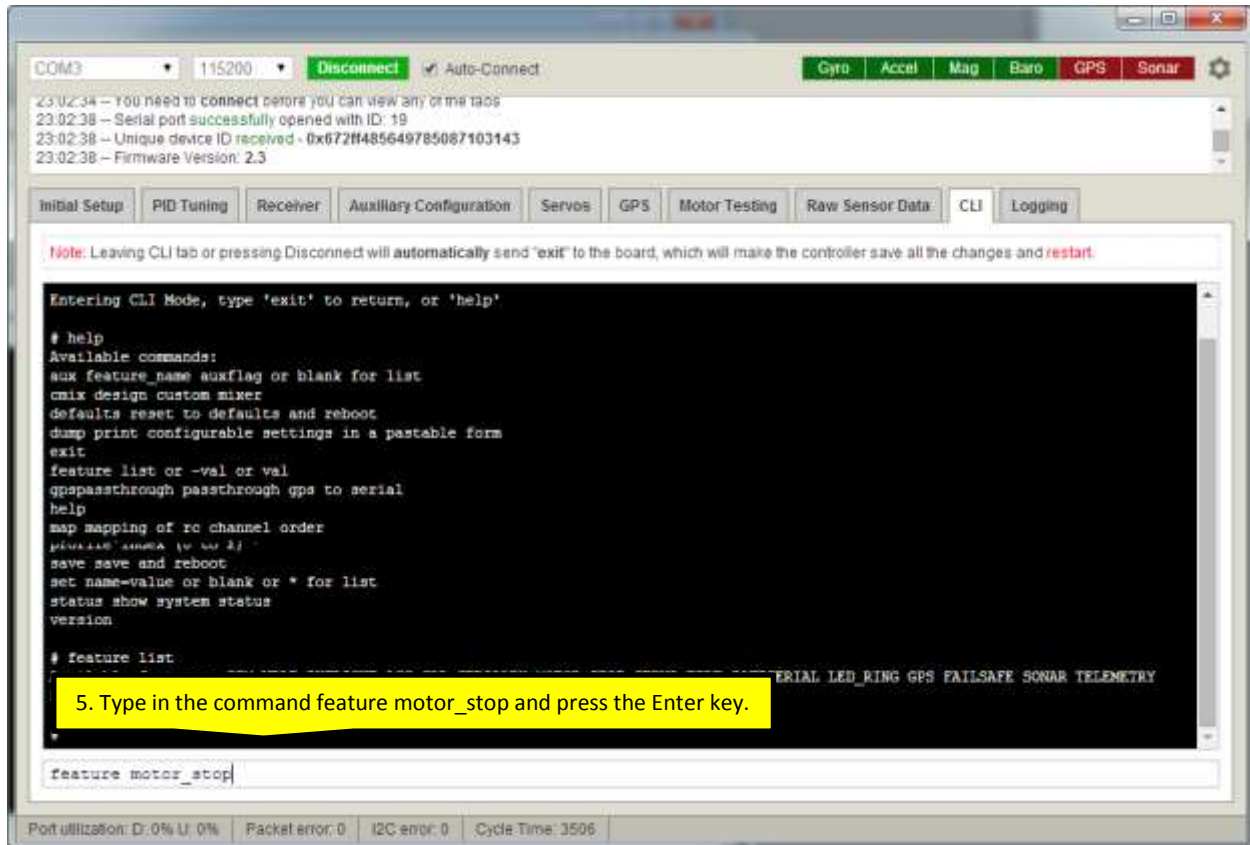
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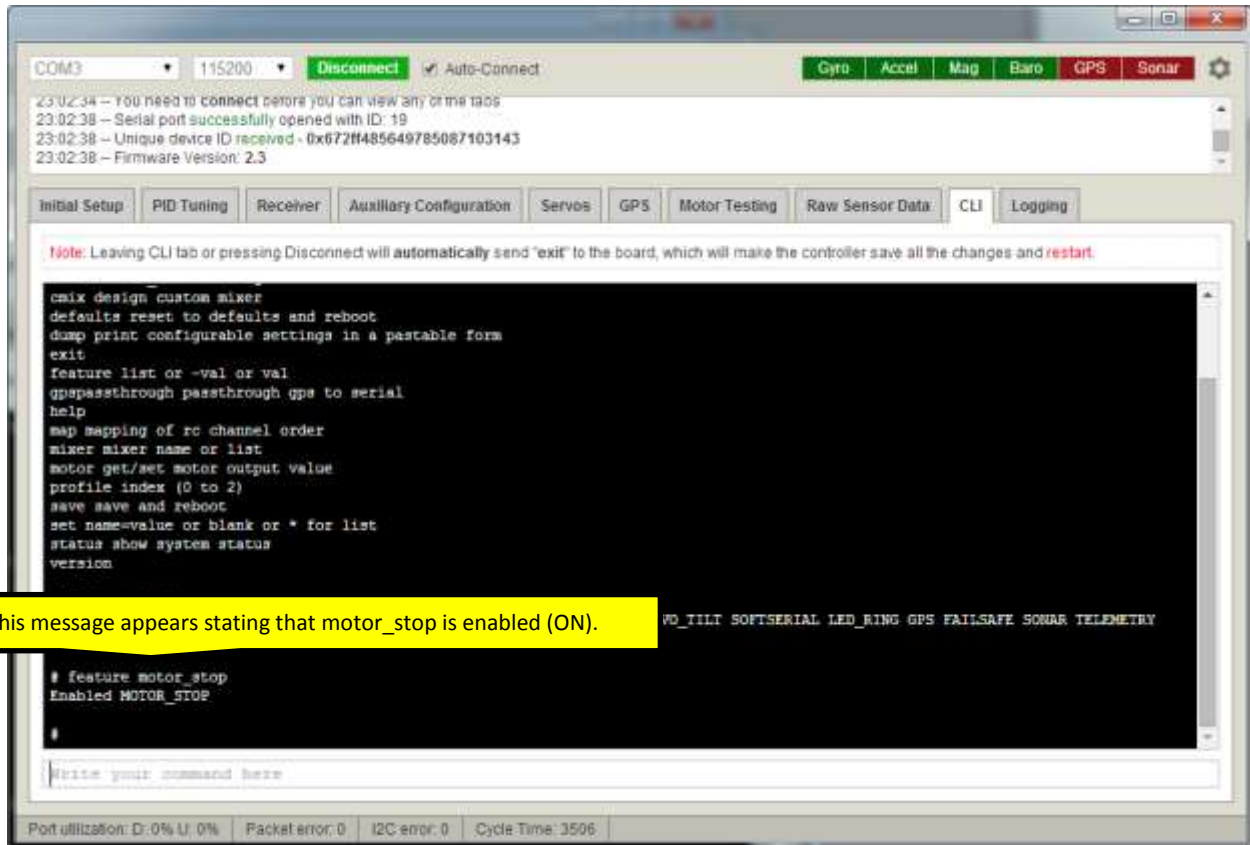
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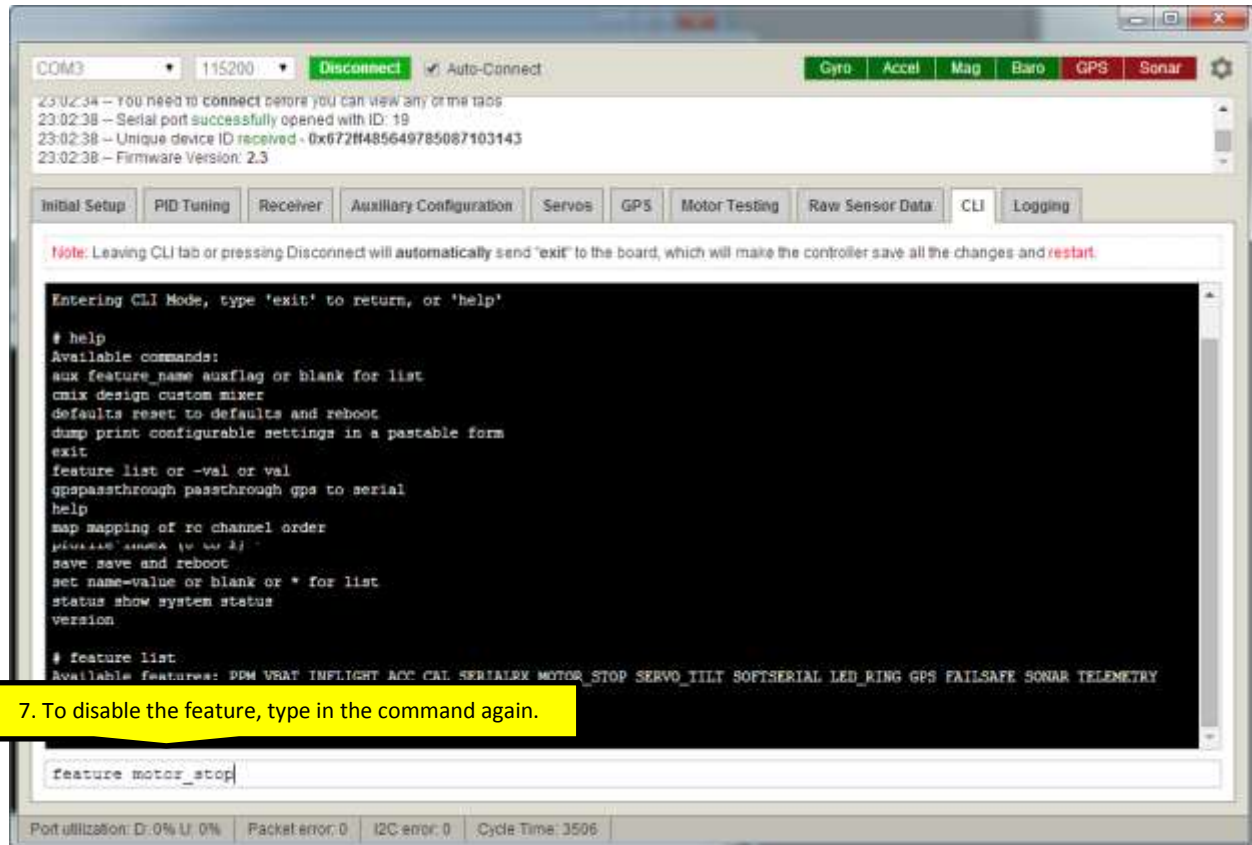
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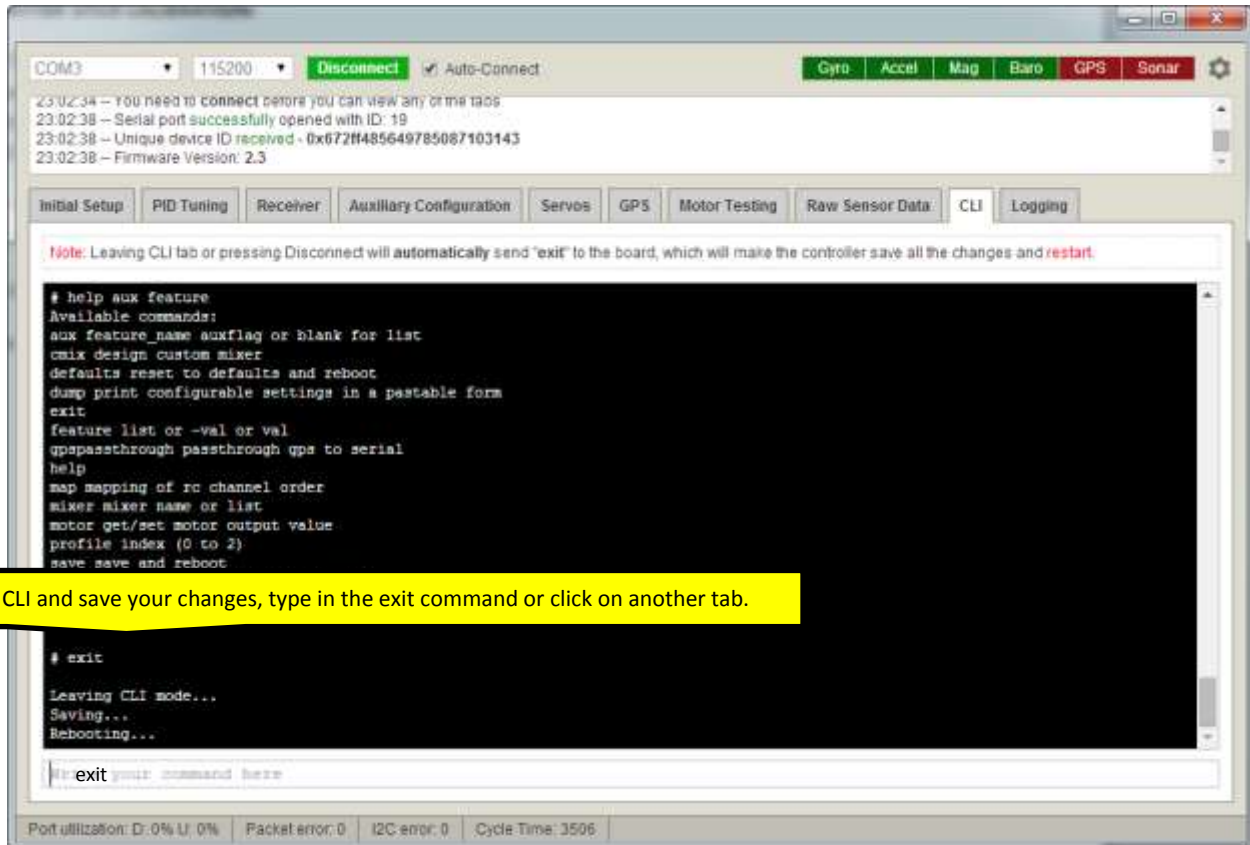
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8. To exit the CLI and save your changes, type in the exit command or click on another tab.

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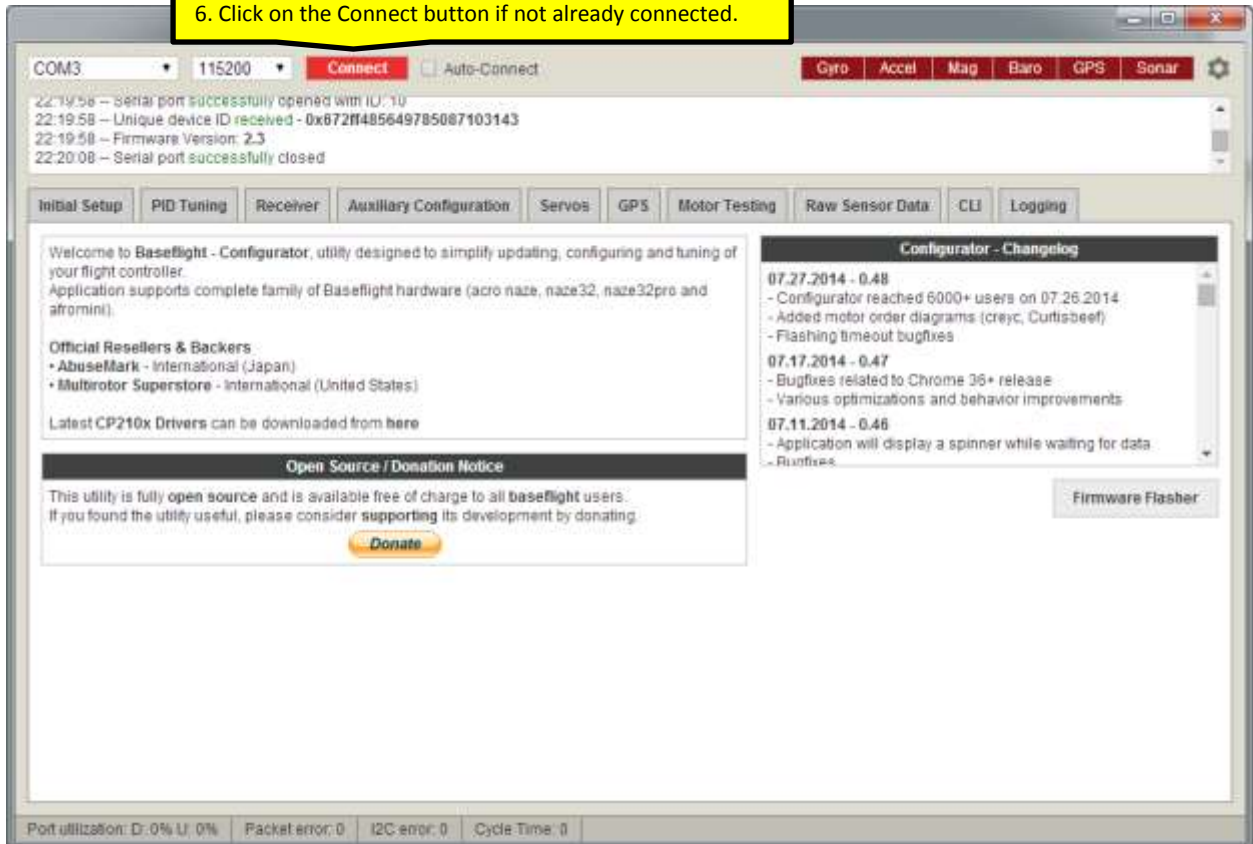


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**SETTING THE MINIMUM PWM THROTTLE VALUE FOR FAILSAFE:**

1. Ensure that your transmitter as no sub trims set for the throttle channel
2. Ensure that the minimum and maximum limits are set on your transmitter for throttle channel
3. Set failsafe on your receiver
4. Connect the Flip32+ to your pc or laptop.
5. Start the BaseFlight Configurator.

6. Click on the Connect button if not already connected.



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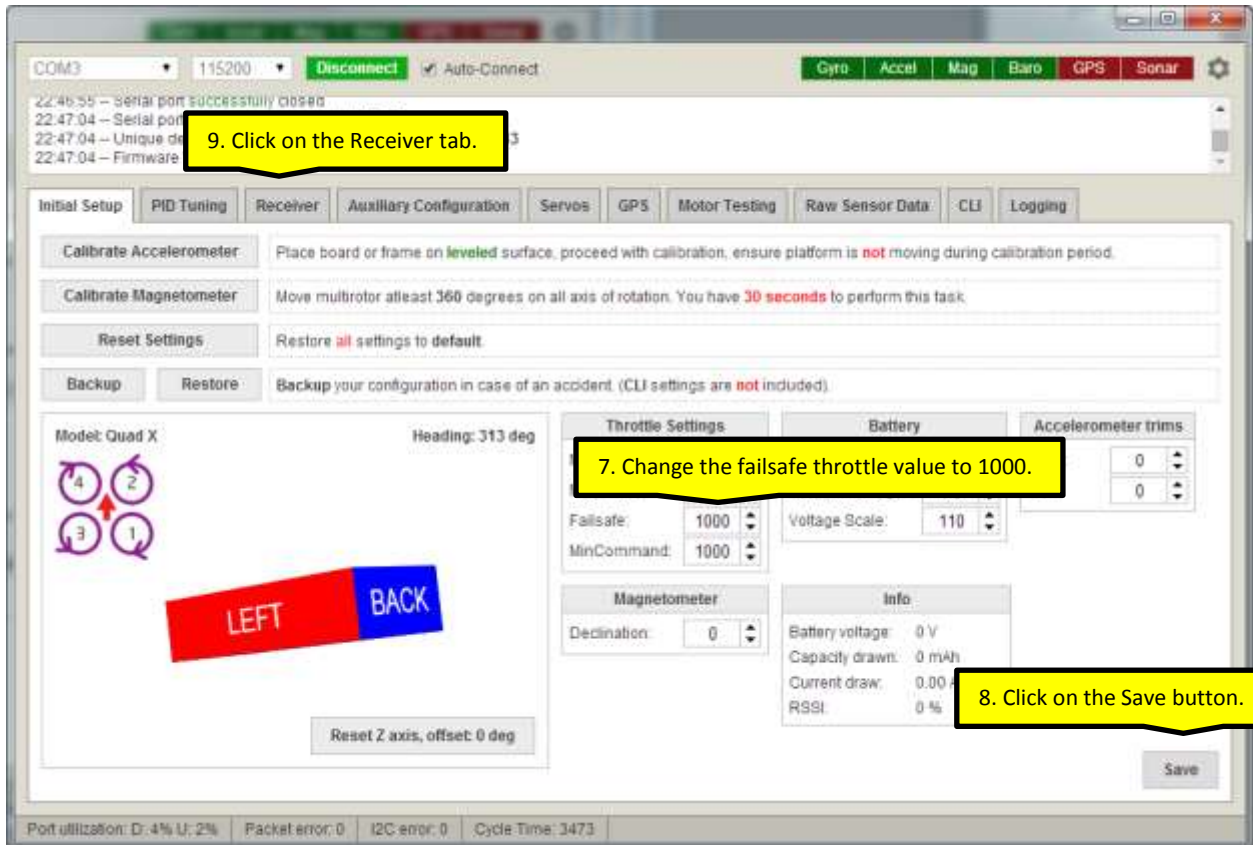
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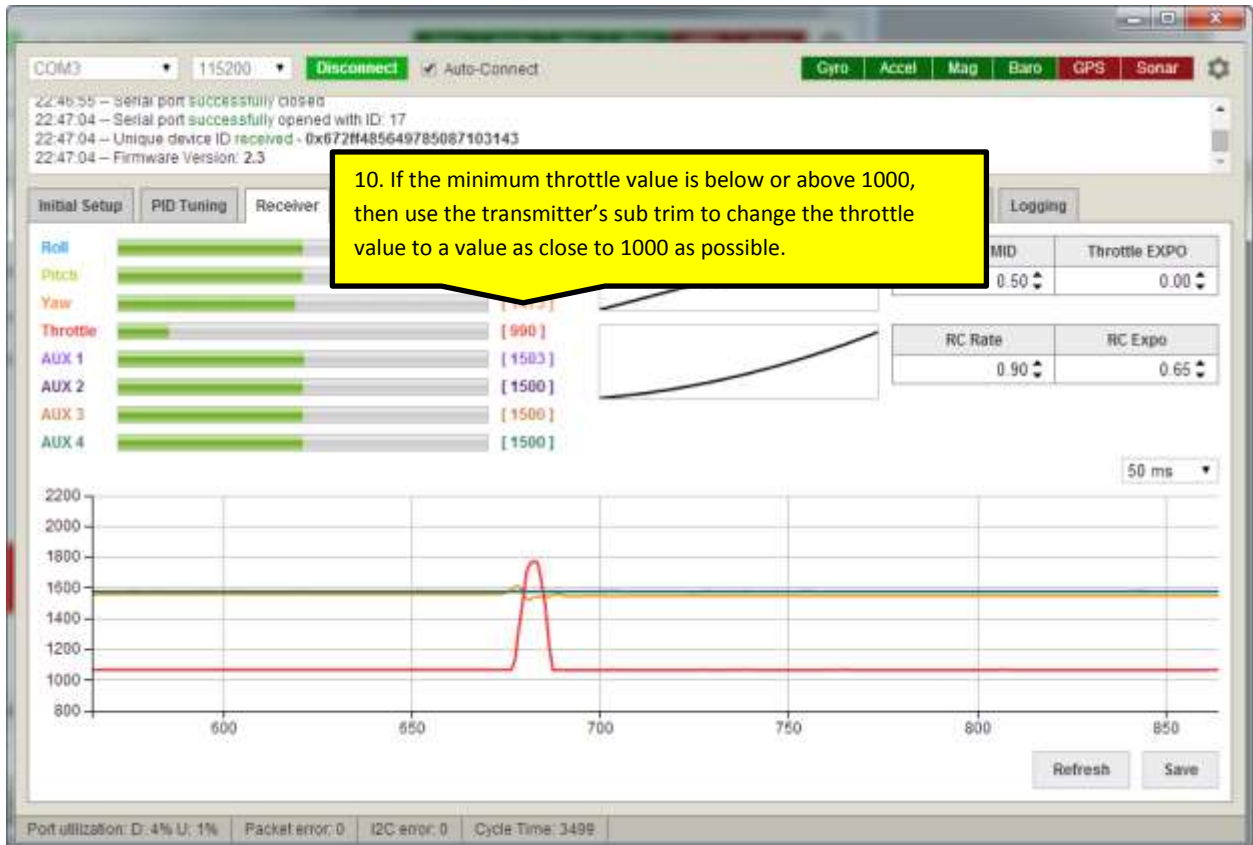
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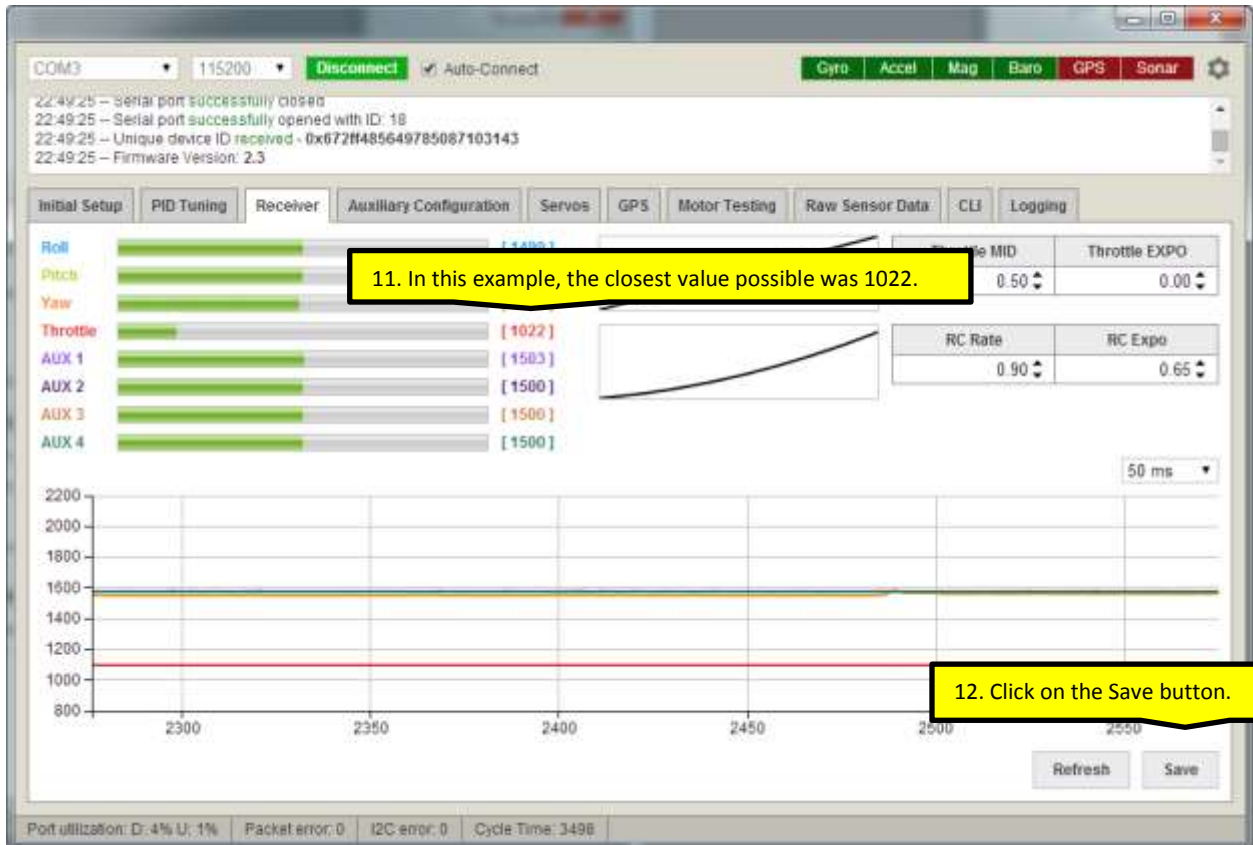
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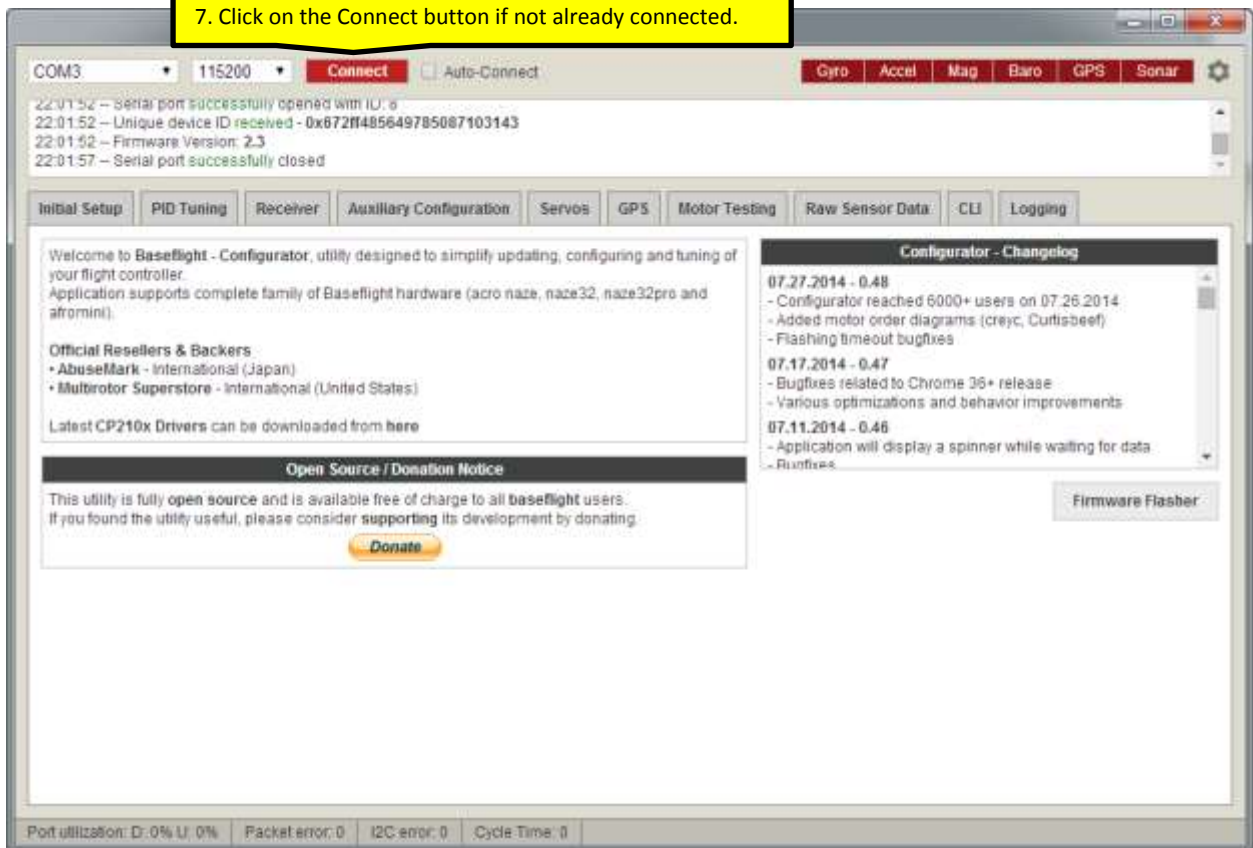
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**STICK CALIBRATION:**

1. if you have enabled failsafe and changed the throttle sub trims, skip to step 3
2. Ensure that your transmitter does not have sub trims set for the throttle channel
3. Ensure that your transmitter does not have sub trims set for the roll, pitch and yaw channels
4. Ensure that your transmitter does not have any sub trims set for any switches
5. Connect the Flip32+ to your pc or laptop.
6. Start the BaseFlight Configurator.

7. Click on the Connect button if not already connected.



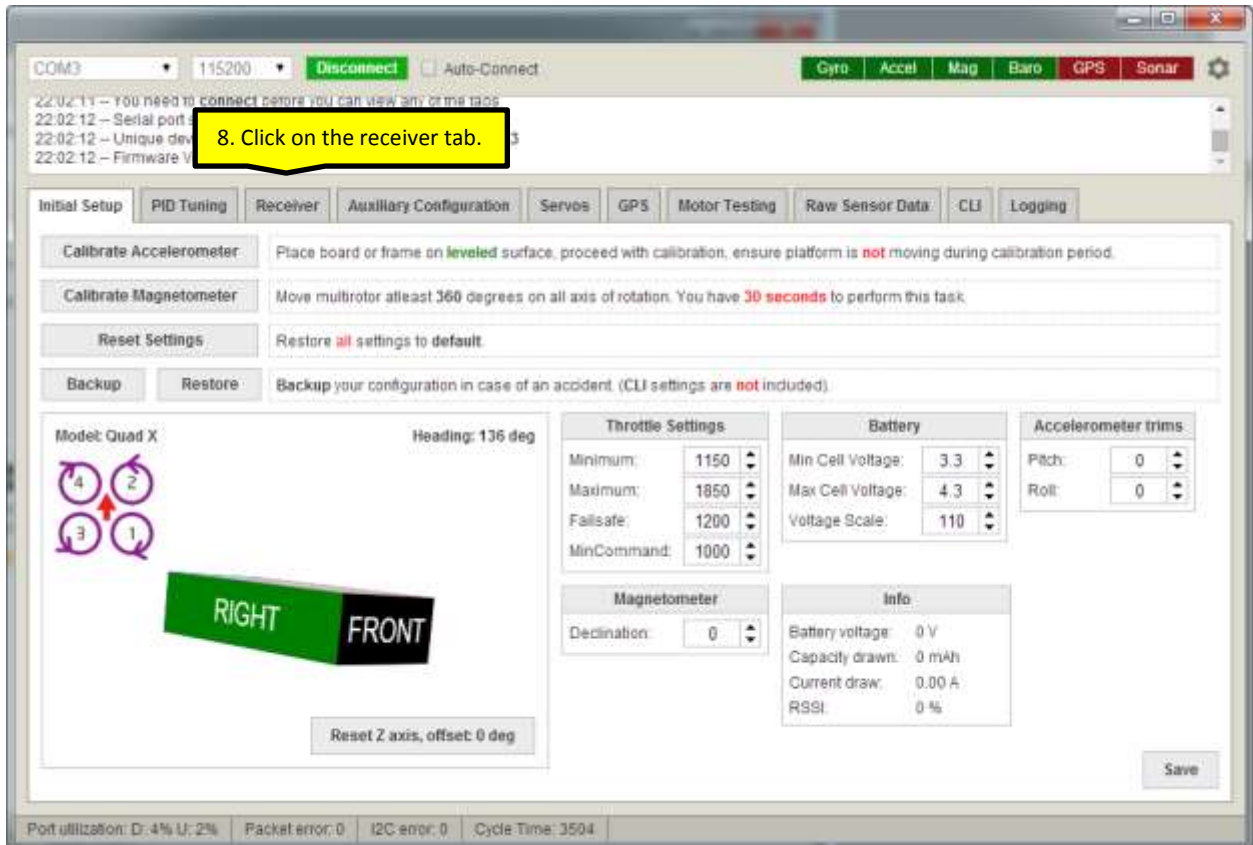
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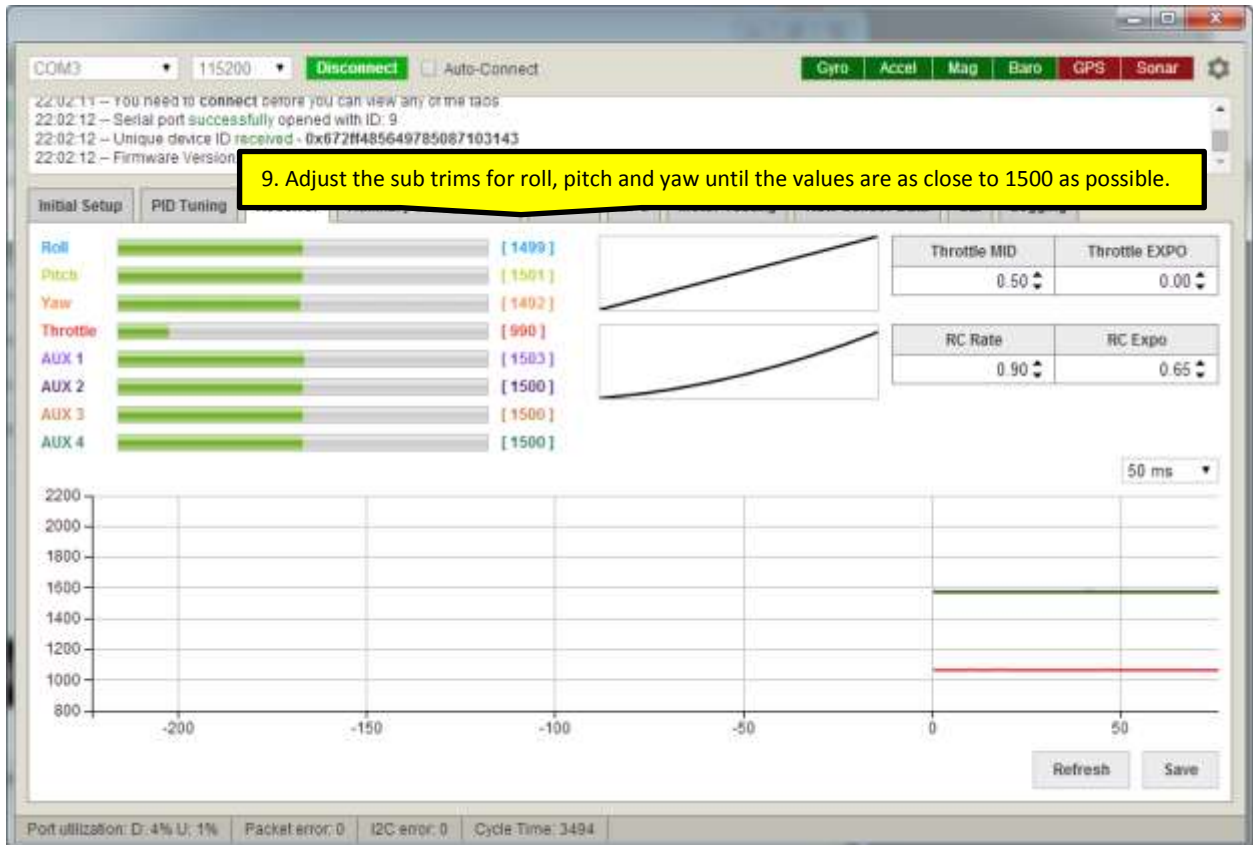
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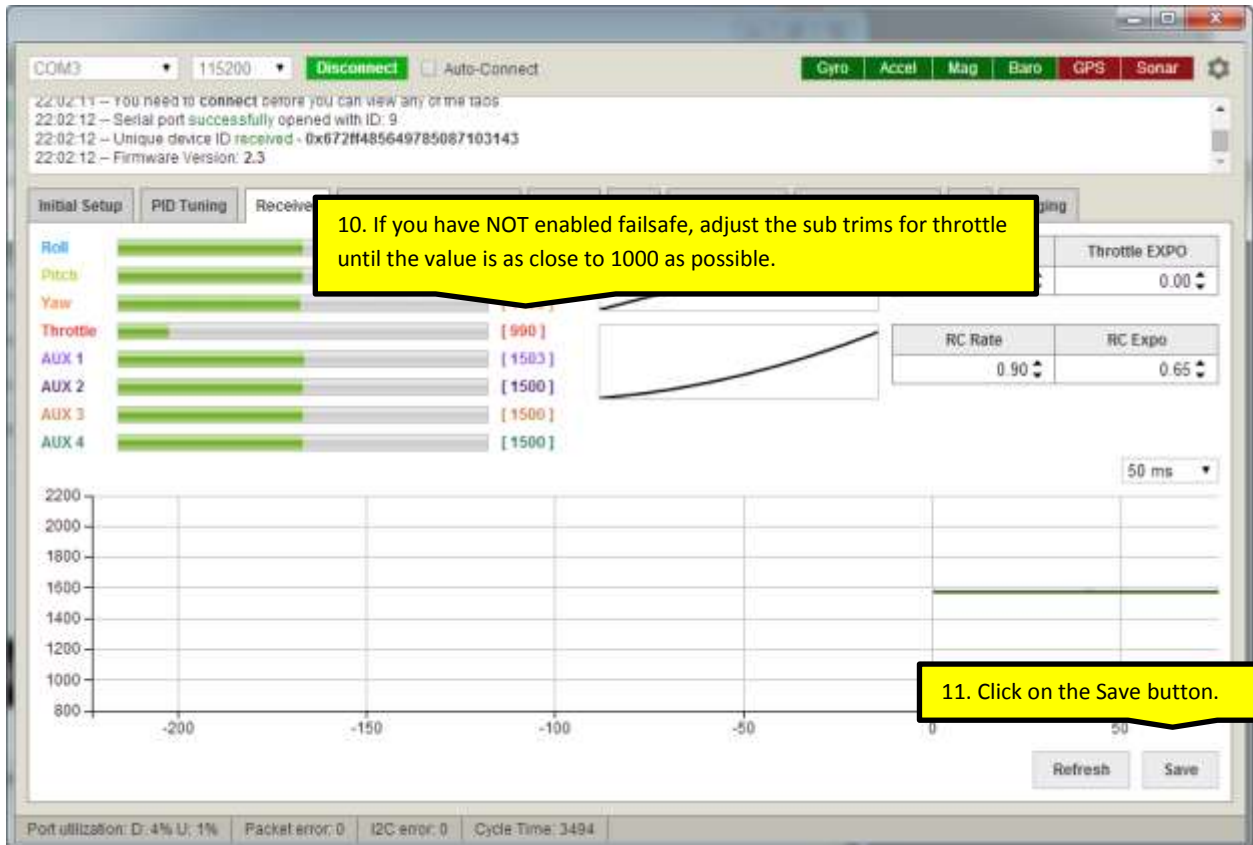
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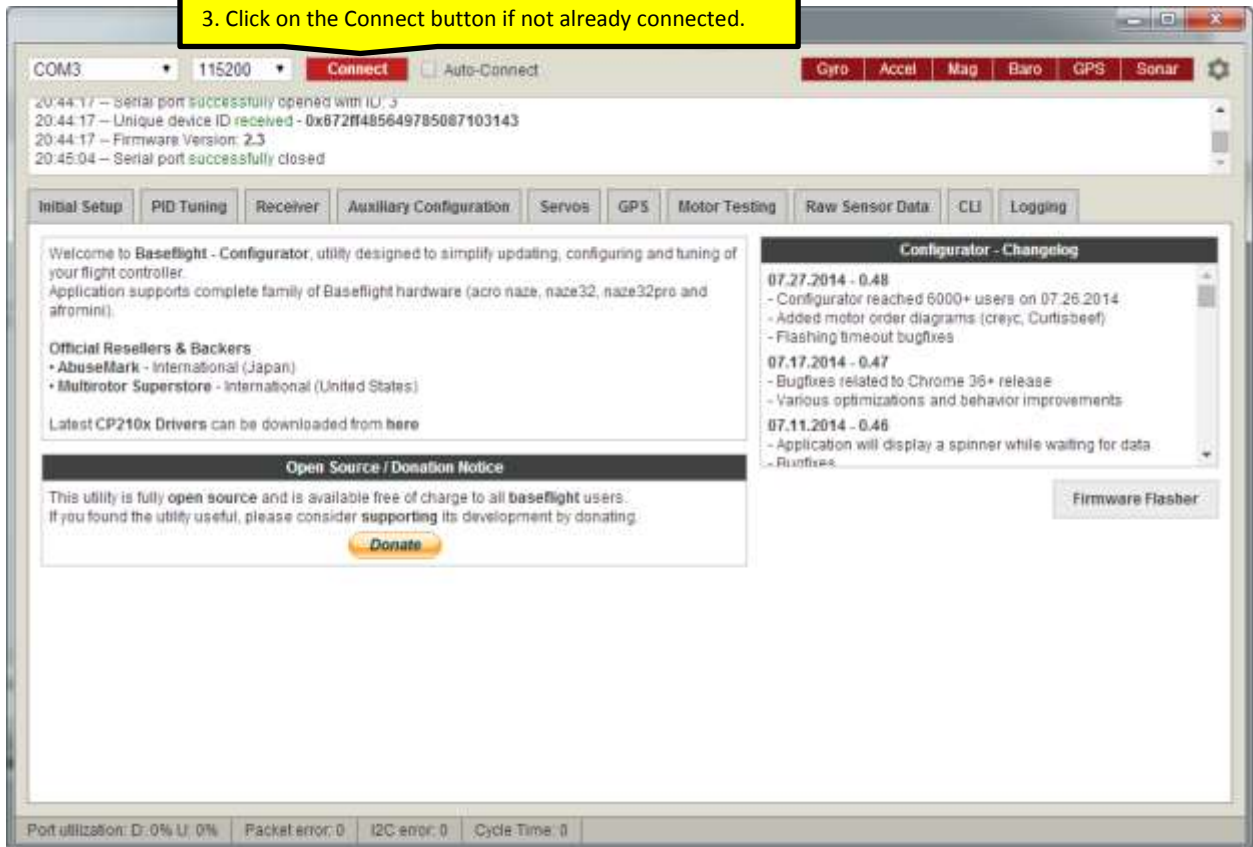


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**ESC CALIBRATION:**

1. Ensure that you have performed the stick calibration prior to performing this calibration
2. Connect the Flip32+ to your pc or laptop without the main battery connected to the multirotor

3. Click on the Connect button if not already connected.



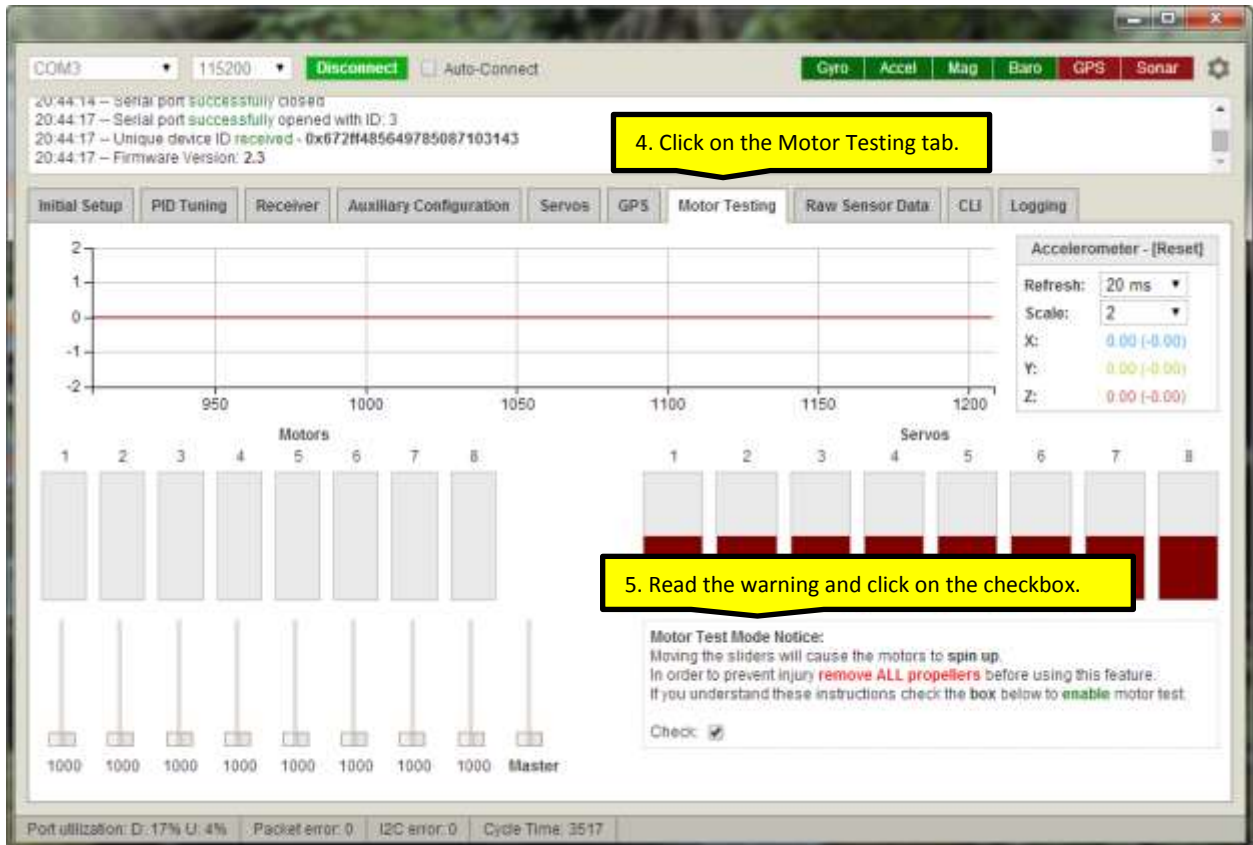
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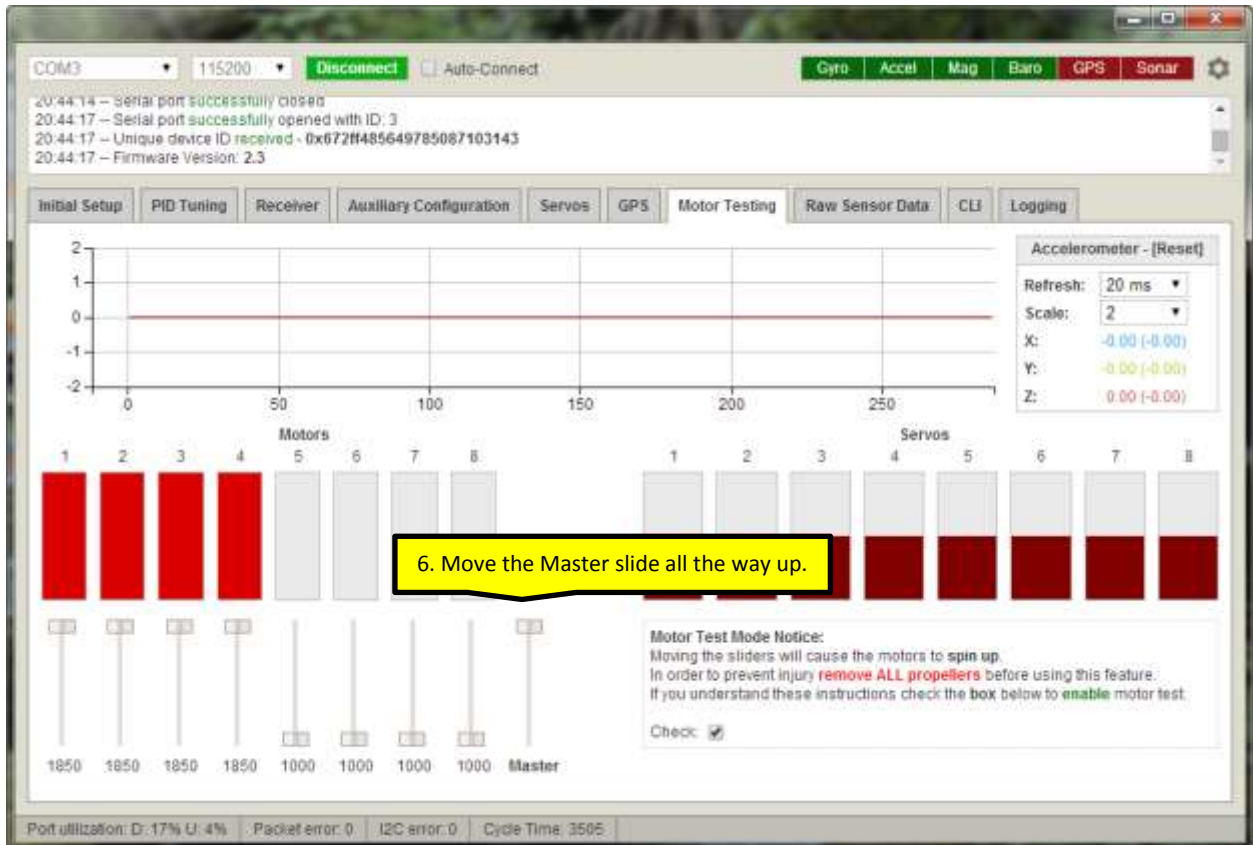
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7. Plug in the multirotor main battery
8. The ESCs should sing their calibration song. It sounds a bit different for SimonK flashed ESCs

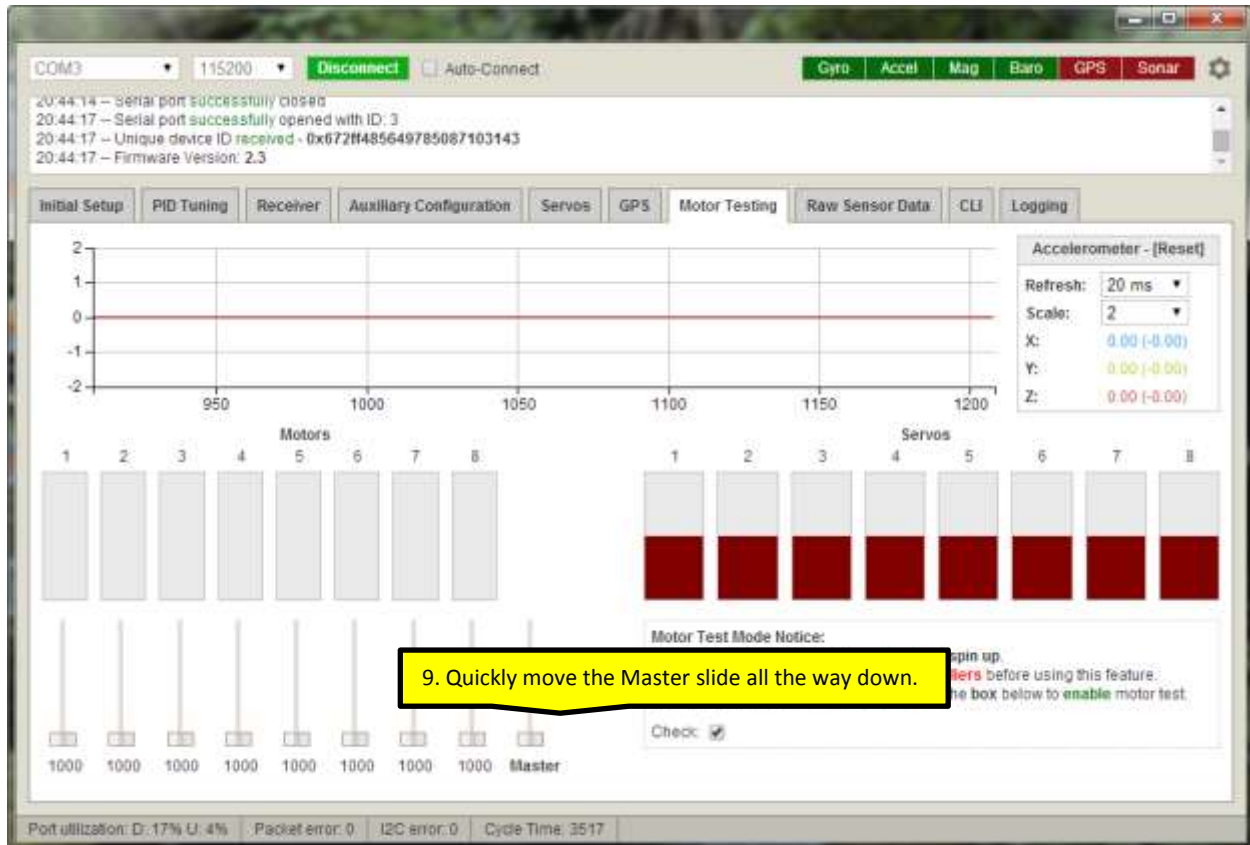
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10. The ESC should sing their calibration song and beep the number of battery cells. It sounds a bit different for SimonK flashed ESCs.

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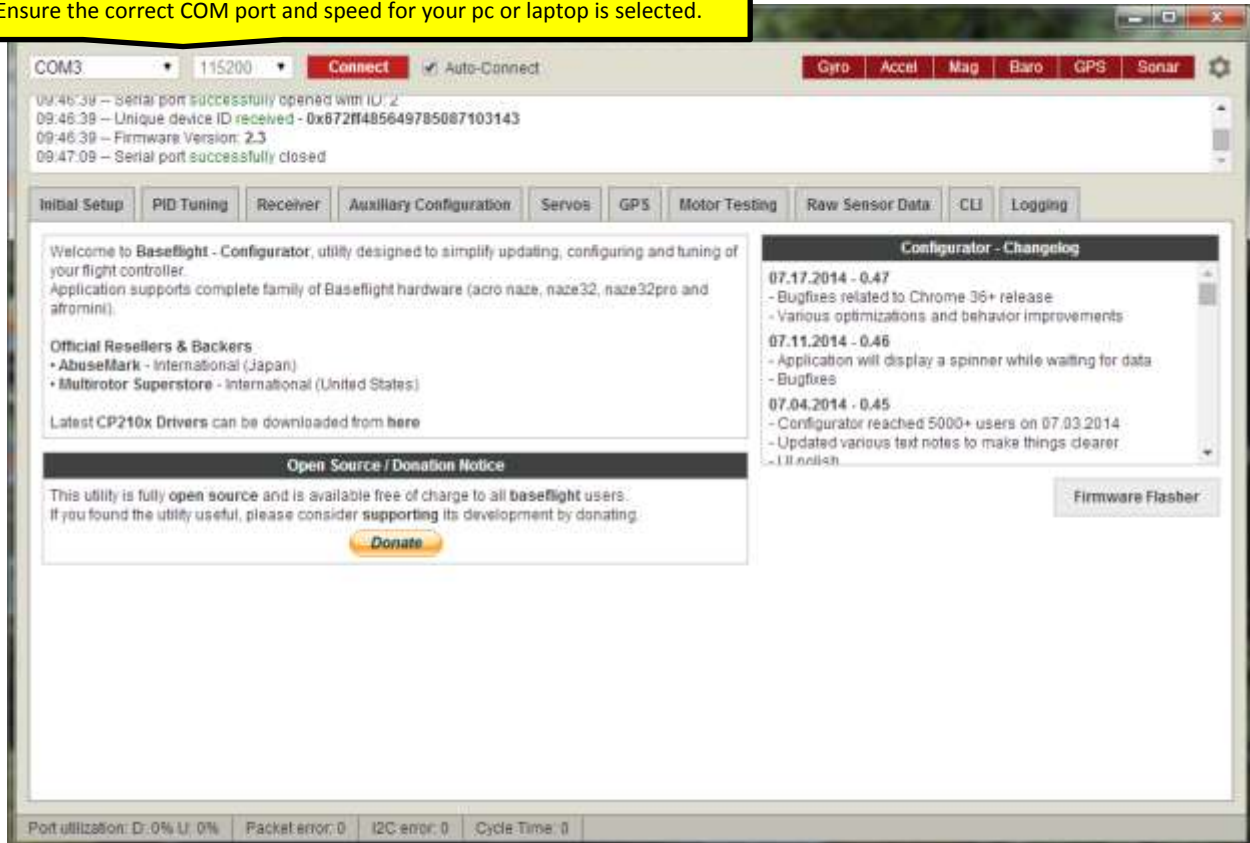
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**MOTOR TESTING:**

1. Connect the Flip32+ to your pc or laptop.
2. Start the BaseFlight Configurator.

3. Ensure the correct COM port and speed for your pc or laptop is selected.



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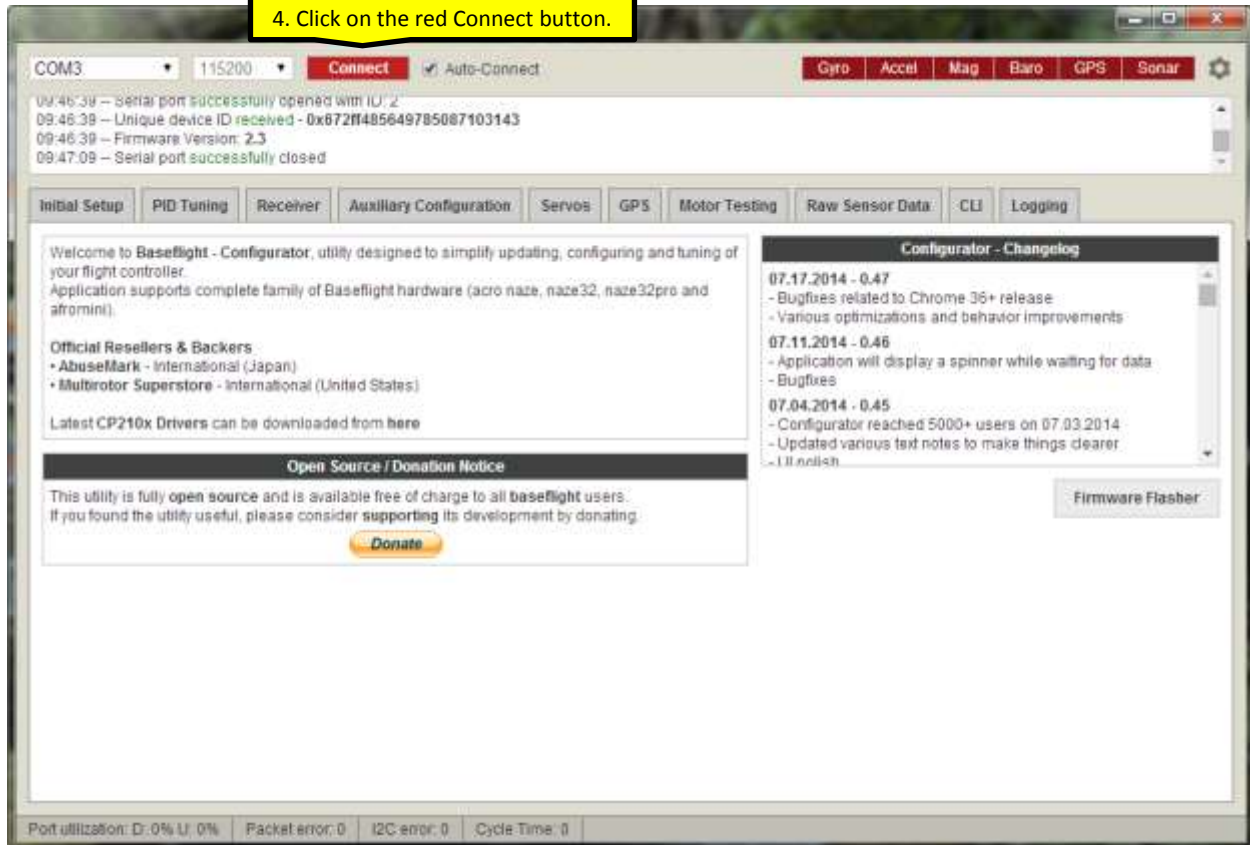
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4. Click on the red Connect button.



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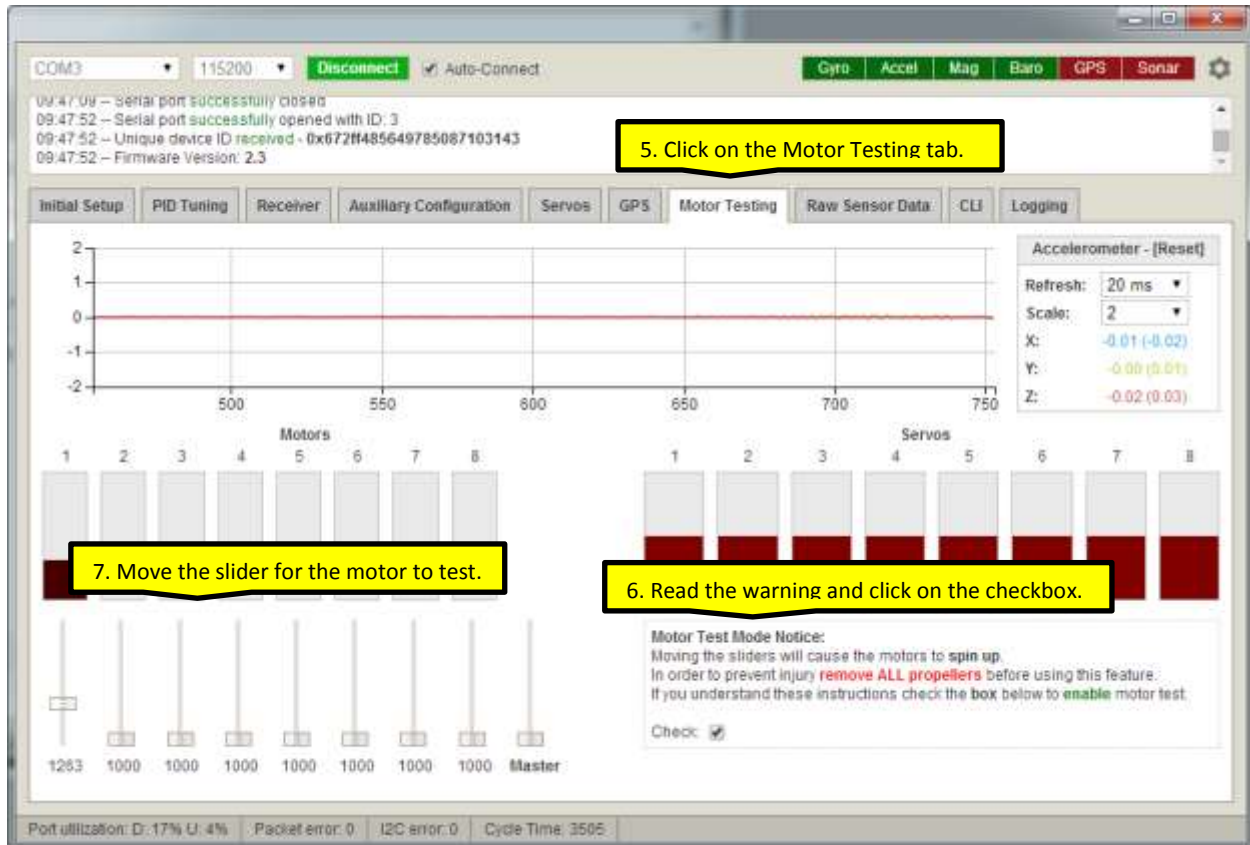
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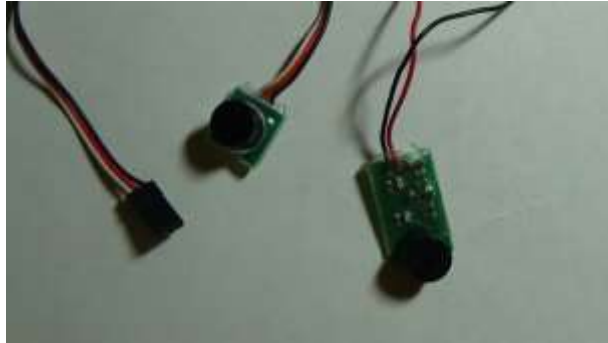
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**LOST MODEL ALARM:**

The picture on the left shows two typical lost model alarms while the picture on the right shows a typical Piezo buzzer. The lost model alarms on the left will not work on the Flip32+ because they require a signal pin in addition to power and ground. The Piezo buzzer on the right will work because it only requires voltage and ground.



Once I got the Piezo buzzer working, I noticed that the sound it emitted was not very loud. I knew that the sound emitted from the lost model alarm was much louder so I decided to hack the Piezo buzzer from that. If you do not have a lost model alarm already, you can just get a large size Piezo buzzer, i.e. 12V that will work just fine and loud.

In this picture the low sounding Piezo buzzer is on the top and the hacked loud sounding Piezo buzzer is on the bottom. They are the same physical size but the hacked one is so much louder.

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**BEEP CONNECTION SETUP FOR A PIEZO BUZZER:**

1. Setup the switch and channel on your transmitter that will activate the BEEP
2. Attach the channel on your receiver to one of the AUX pin headers on the Flip 32+
3. Connect the Flip32+ to your pc or laptop.
4. Start the BaseFlight Configurator.

5. Click on Connect button if not already connected.

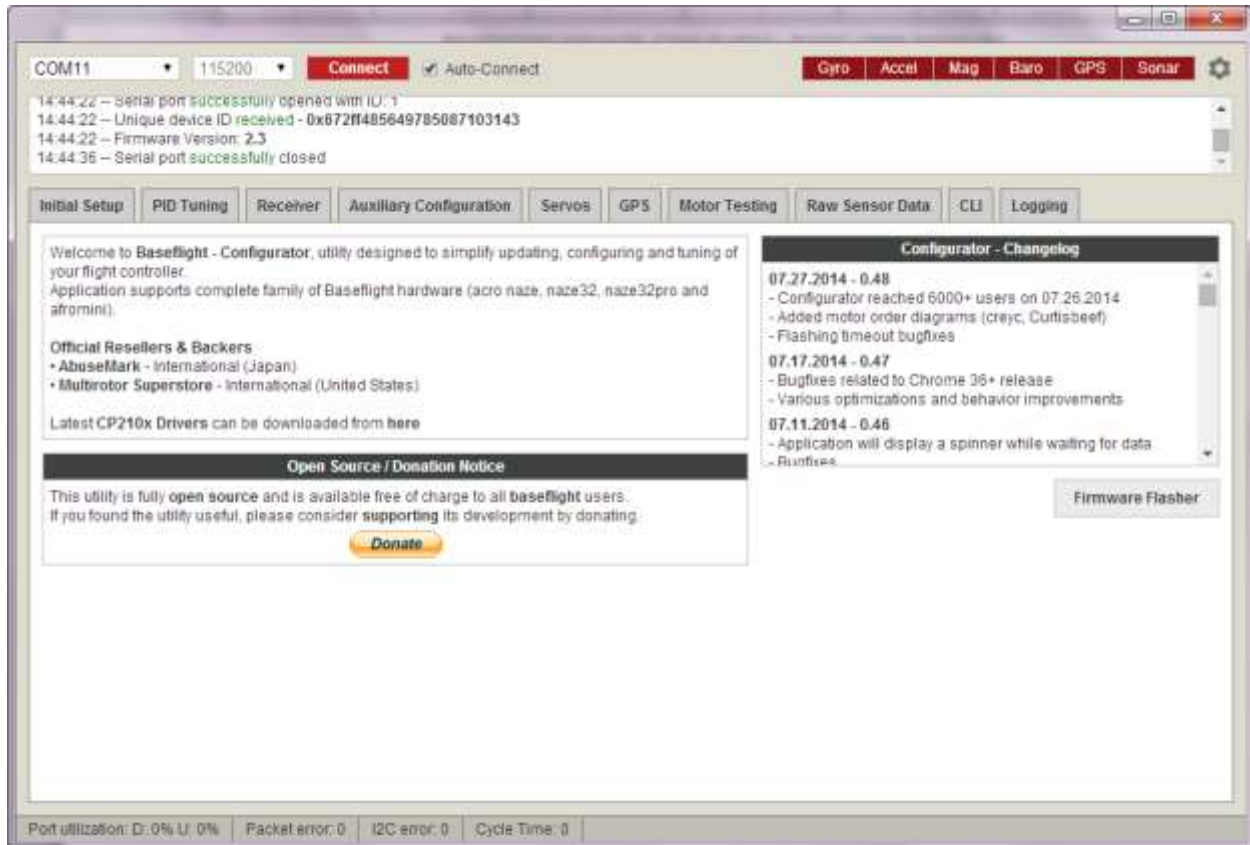
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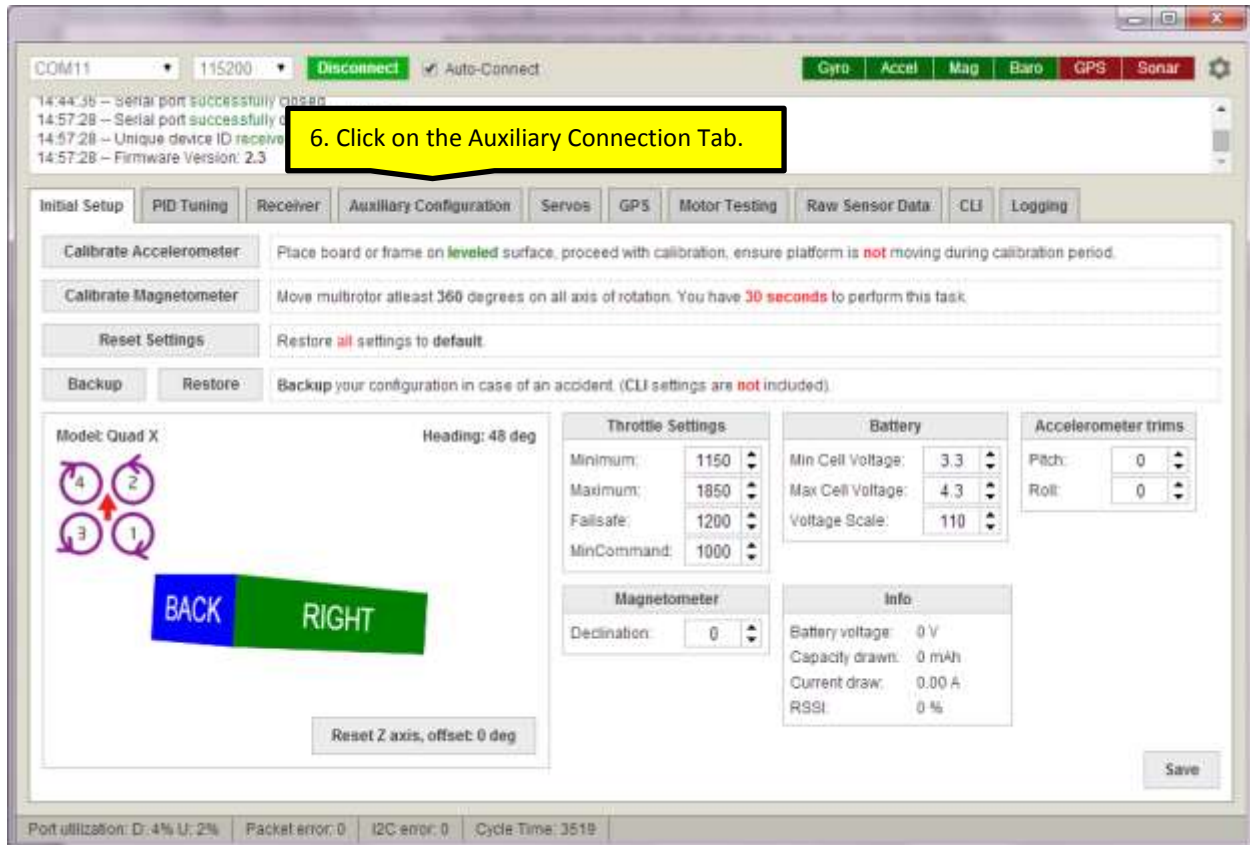
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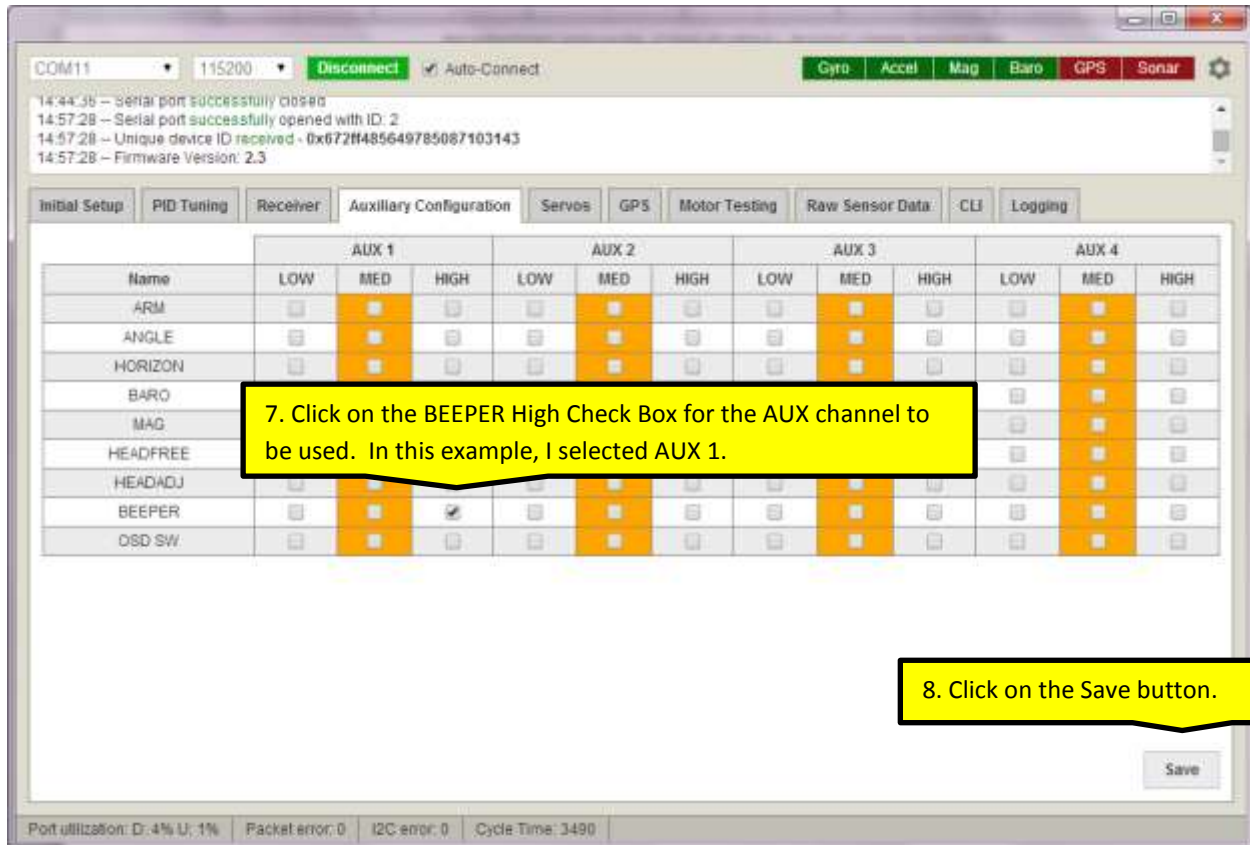
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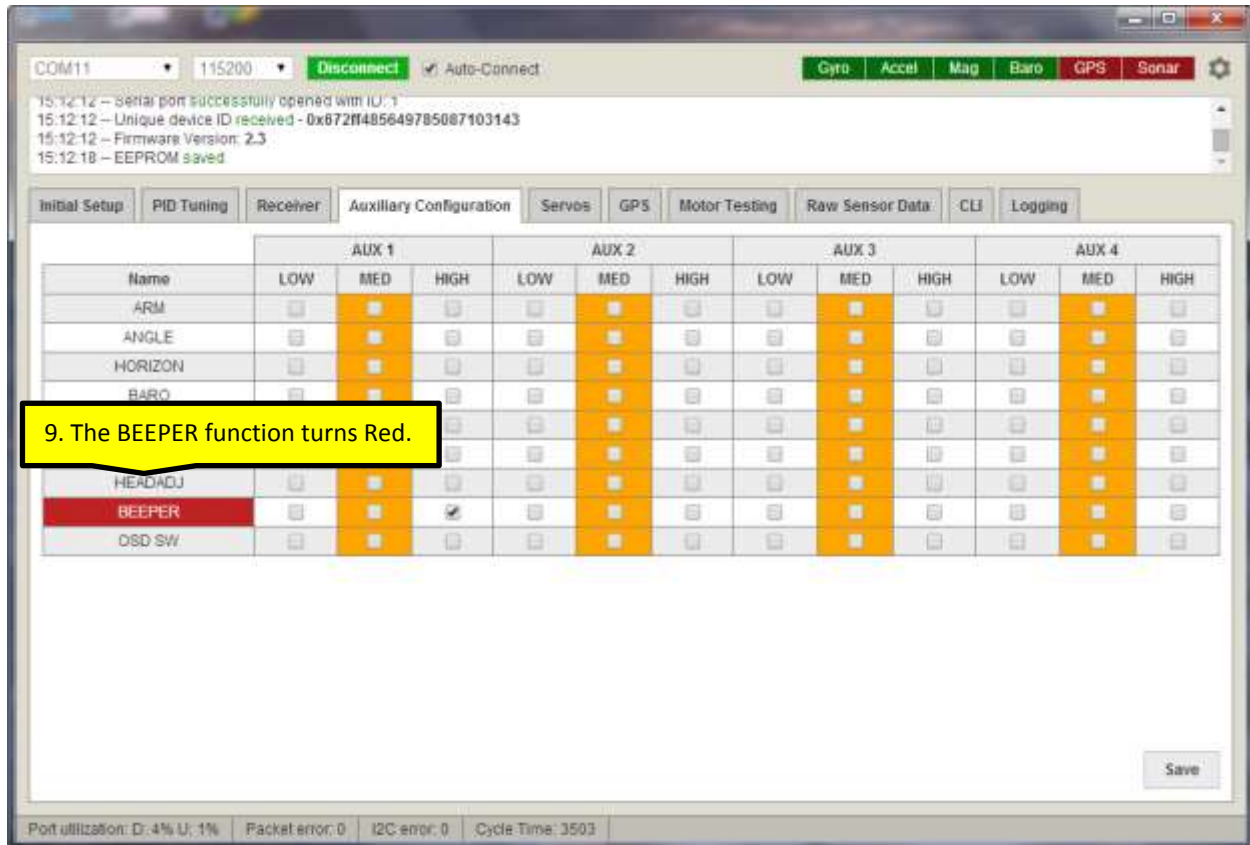
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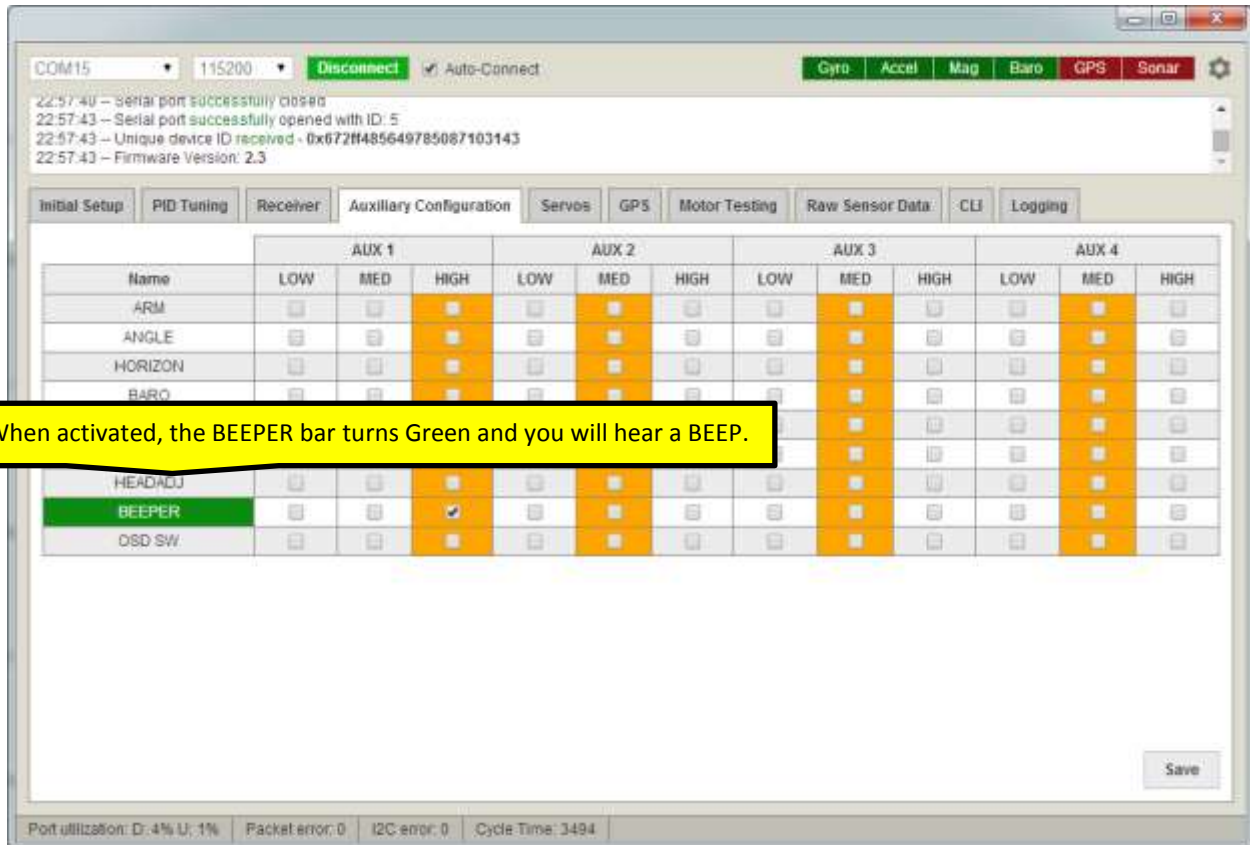
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**FLIGHT MODES:**

**ACRO**

- Short for Acrobatic mode but sometimes called Manual mode
- Allows for flips and other fancy acrobatic type maneuvers
- Does not require a switch settings as it's the default mode
- Utilizes only the gyros to assist the pilot with handling interference from wind
- The pilot is in full control

**ANGLE:**

- Sometimes called Self Leveling mode or Auto Level mode
- Does not allow for flips or other fancy acrobatic type maneuvers
- Requires activation via a switch
- Utilizes gyros and accelerometers to keep the multirotor level as possible
- The pilot is in full control except when sticks are released

**HORIZON:**

- Combination of ACRO mode and ANGLE mode
- Allows for both auto/level flying and fancy acrobatic type maneuvers
- Requires activation via a switch
- When transmitter sticks are at center, ANGLE mode is enabled
- When transmitter sticks are towards their outer edges, ACRO mode is enabled

**BARO:**

- Sometimes called Altitude Hold mode
- Allows for level flight within a few meters up/down based on barometric pressure
- Requires activation via a switch when throttle is at 50% and multirotor is in the air

**MAG:**

- Sometimes called Heading Hold mode
- Locks the multirotor in the direction it was going before activating
- Requires activation via a switch when multirotor is flying straight with no yaw movement

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**HEADFREE:**

- Sometimes called Care Free mode or Super Simple mode
- Great for anyone that has issues with multirotor orientation
- Requires activation via a switch
- Uses the magnetometer (compass) and last known position
- Controls the multirotor left/right or forward/back direction regardless of orientation, i.e. the front of the multirotor is facing you instead of away from you
- Left/right stick movement will always move the multirotor left/right
- Forward/back stick movement will always move the multirotor forward/back
- Requires that the magnetometer (compass) be mounted in such a way to reduce magnetic interference from multirotor motors, ESCs or anything that can cause interference.

**HEADADJ:**

- Allows you to adjust the locked heading position while flying in MAG mode
- Requires activation via a switch

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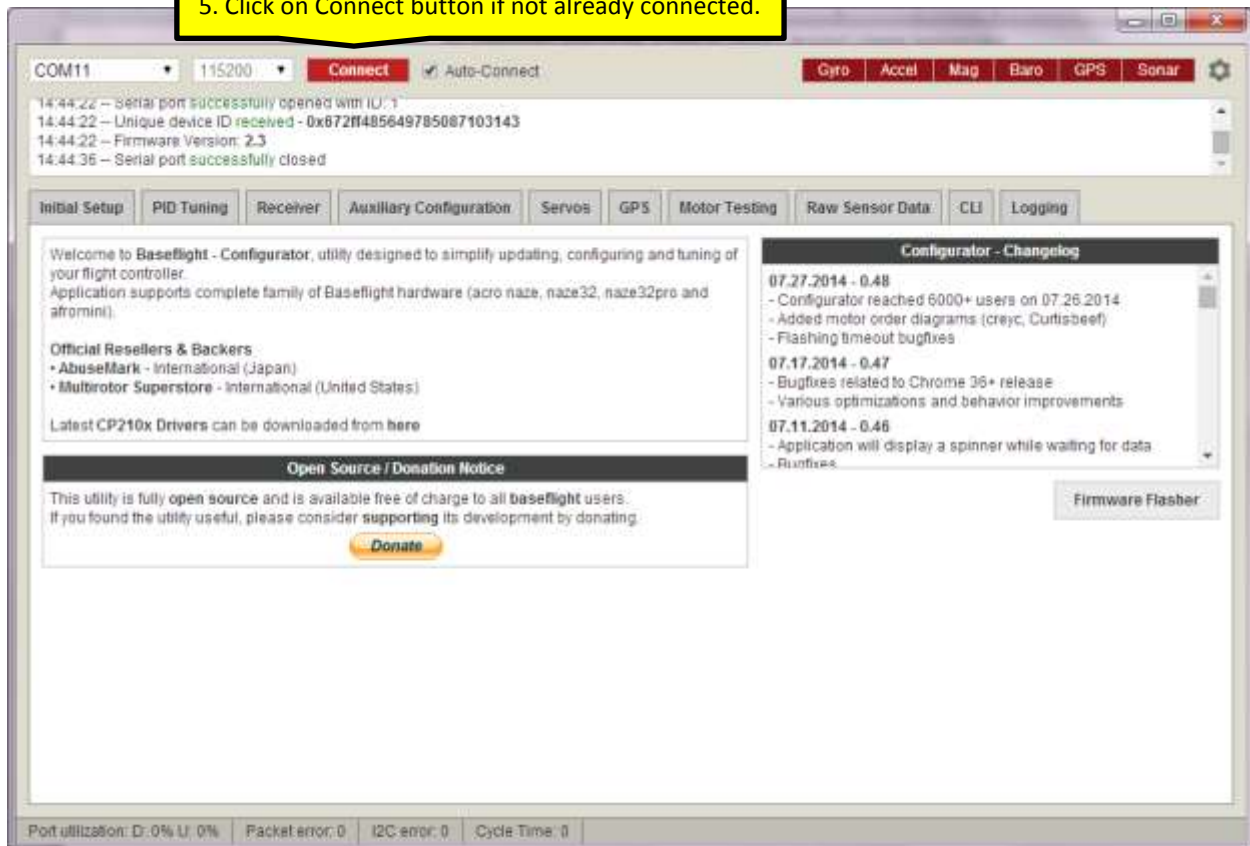
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**TWO POSITION SWITCHES FOR FLIGHT MODES:**

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2. Attach the channel on your receiver to one of the AUX pin headers on the Flip 32+
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4. Start the BaseFlight Configurator.

5. Click on Connect button if not already connected.



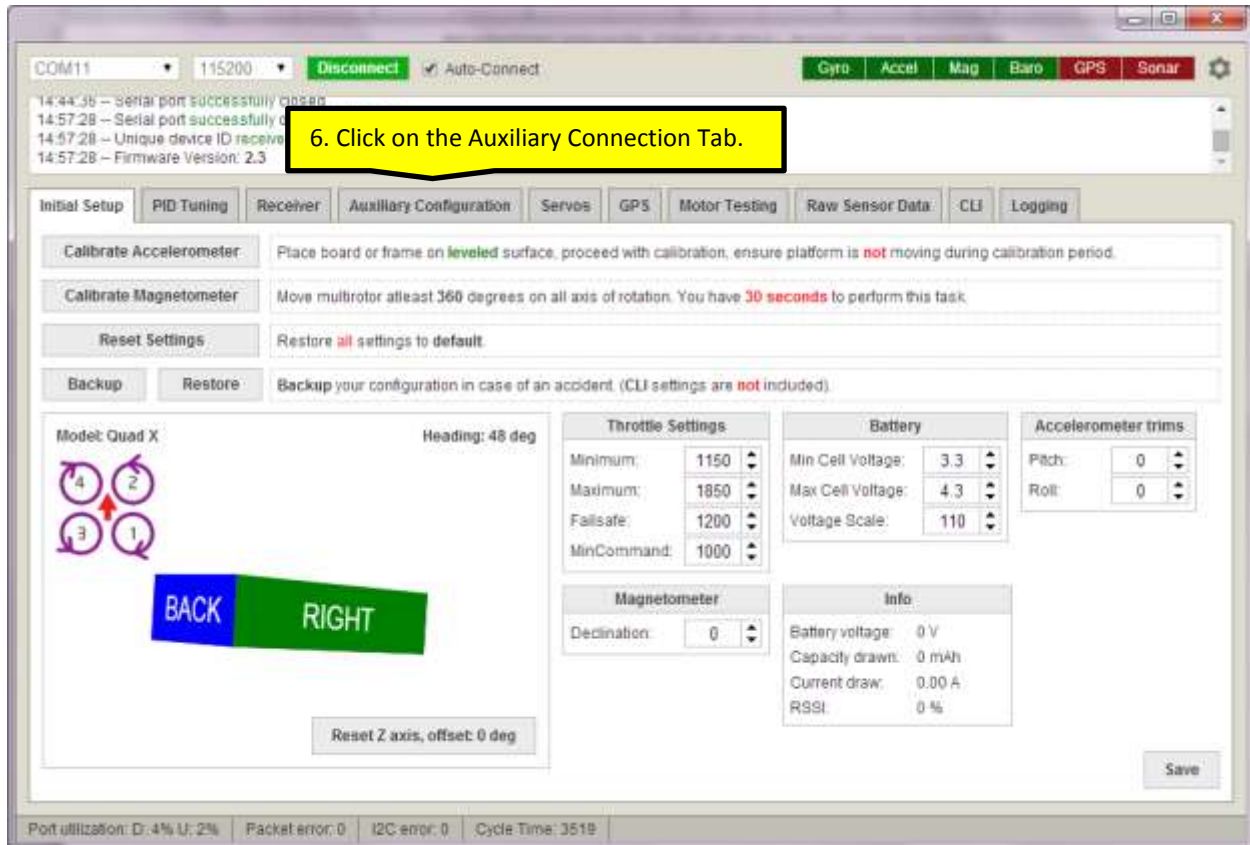
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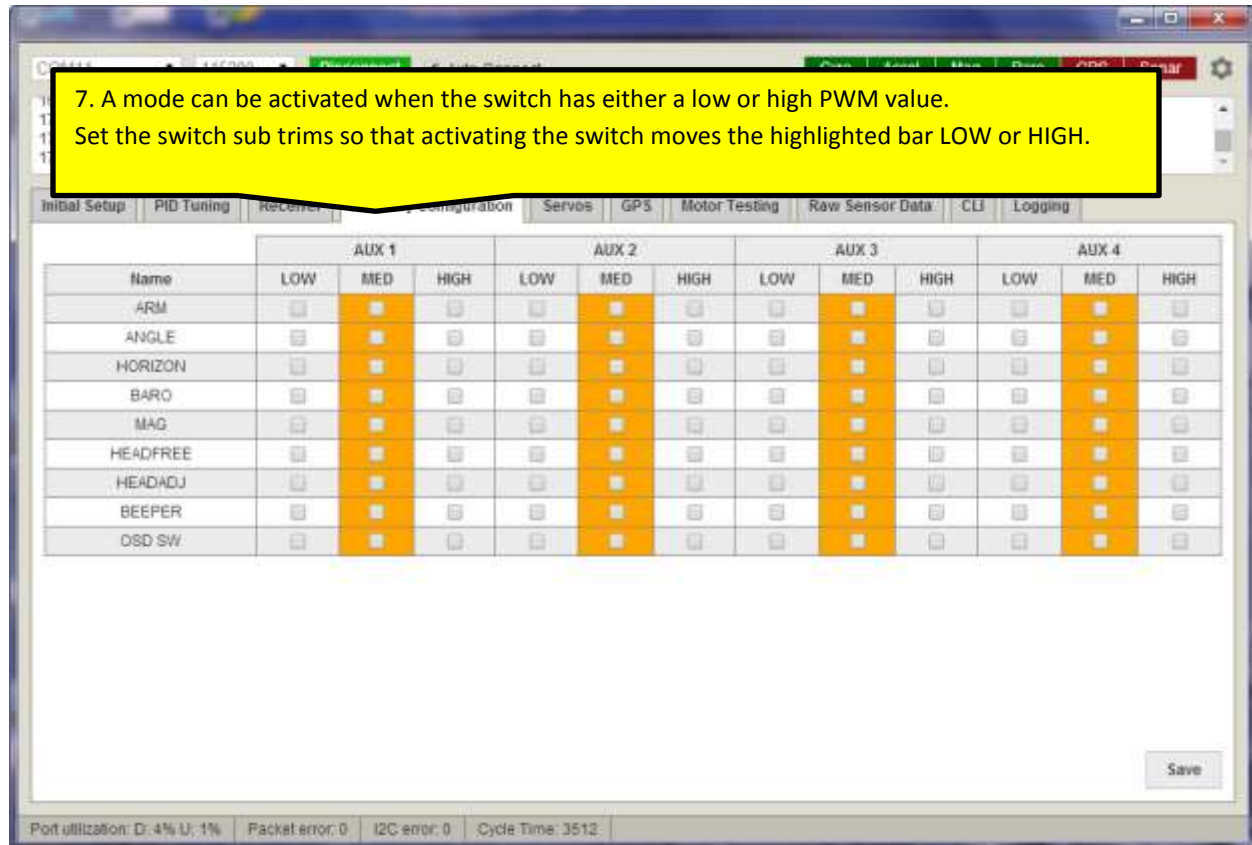
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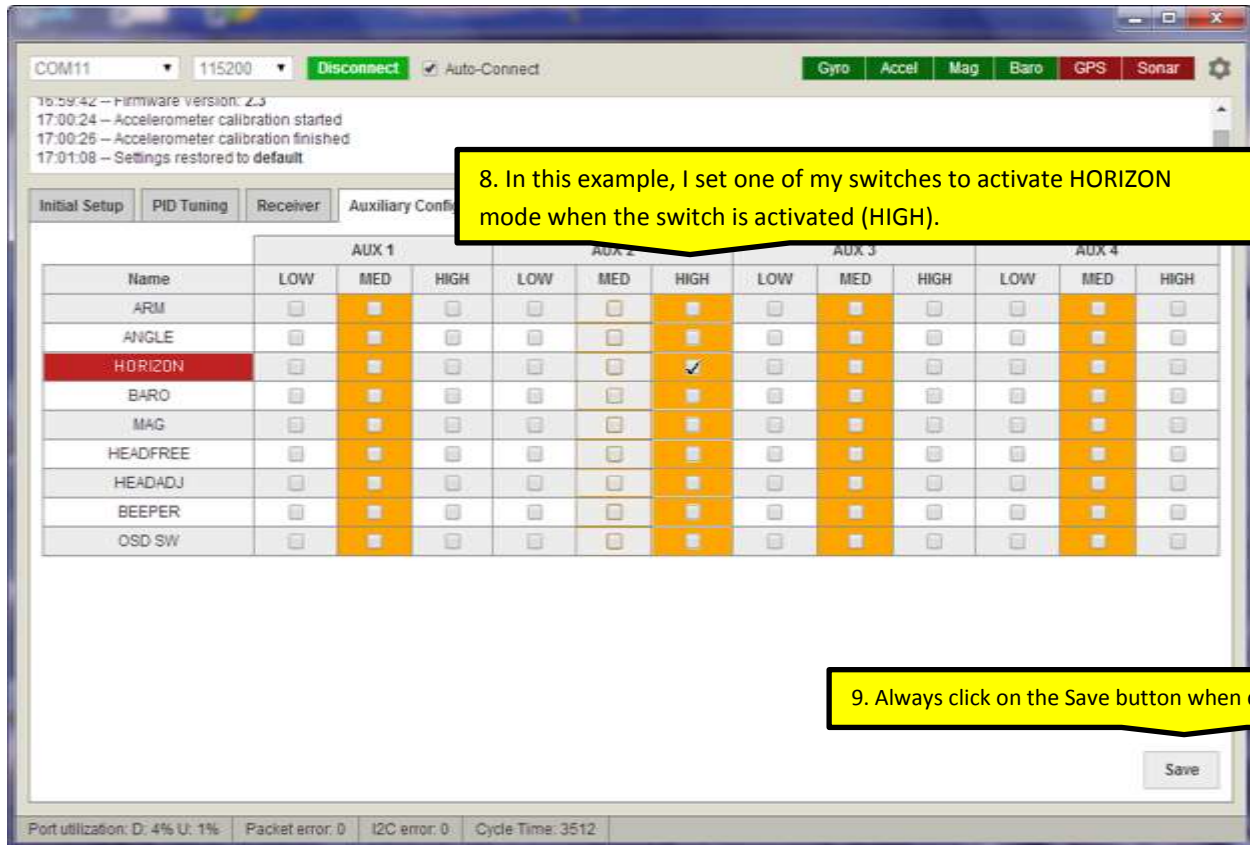
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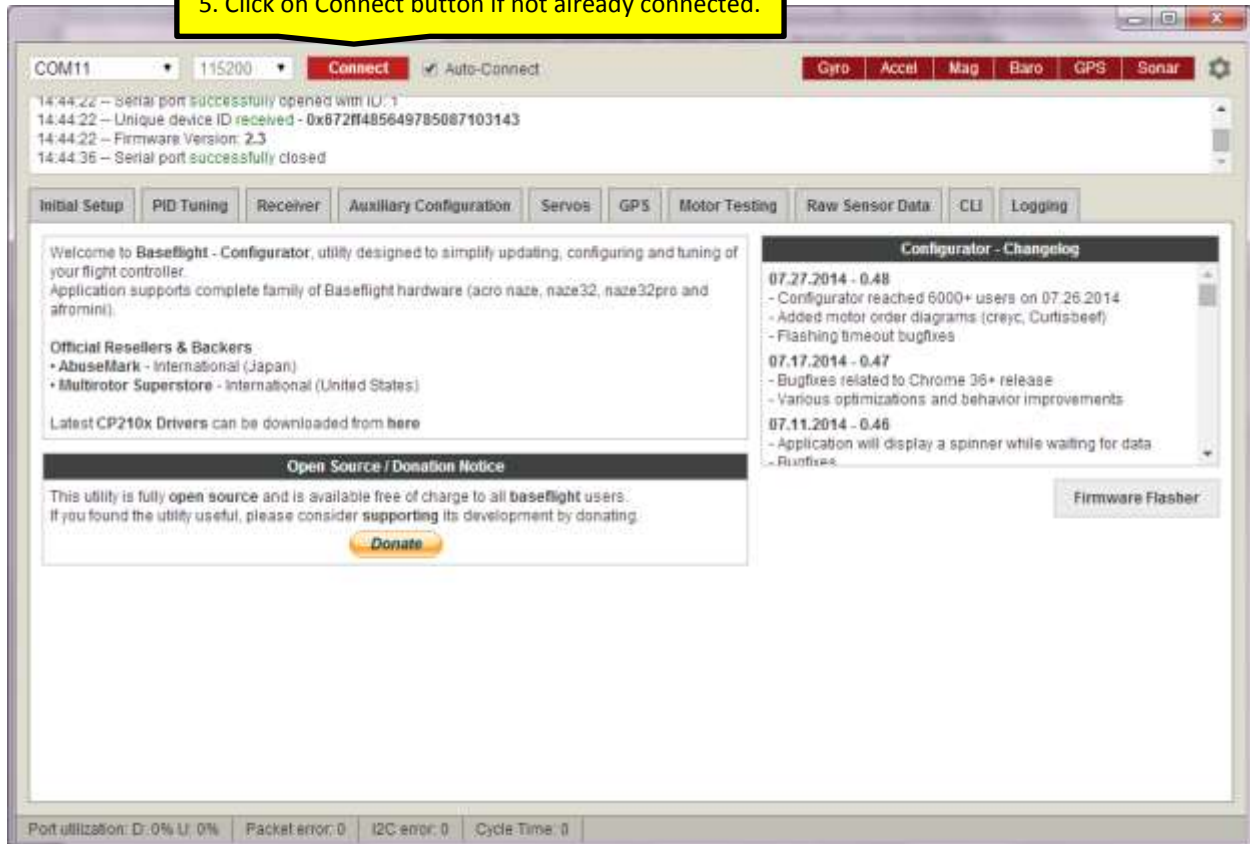
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**THREE POSITION SWITCHES FOR FLIGHT MODES:**

1. Setup the switch and channel on your transmitter that will activate the mode you want
2. Attach the channel on your receiver to one of the AUX pin headers on the Flip 32+
3. Connect the Flip32+ to your pc or laptop.
4. Start the BaseFlight Configurator.

5. Click on Connect button if not already connected.



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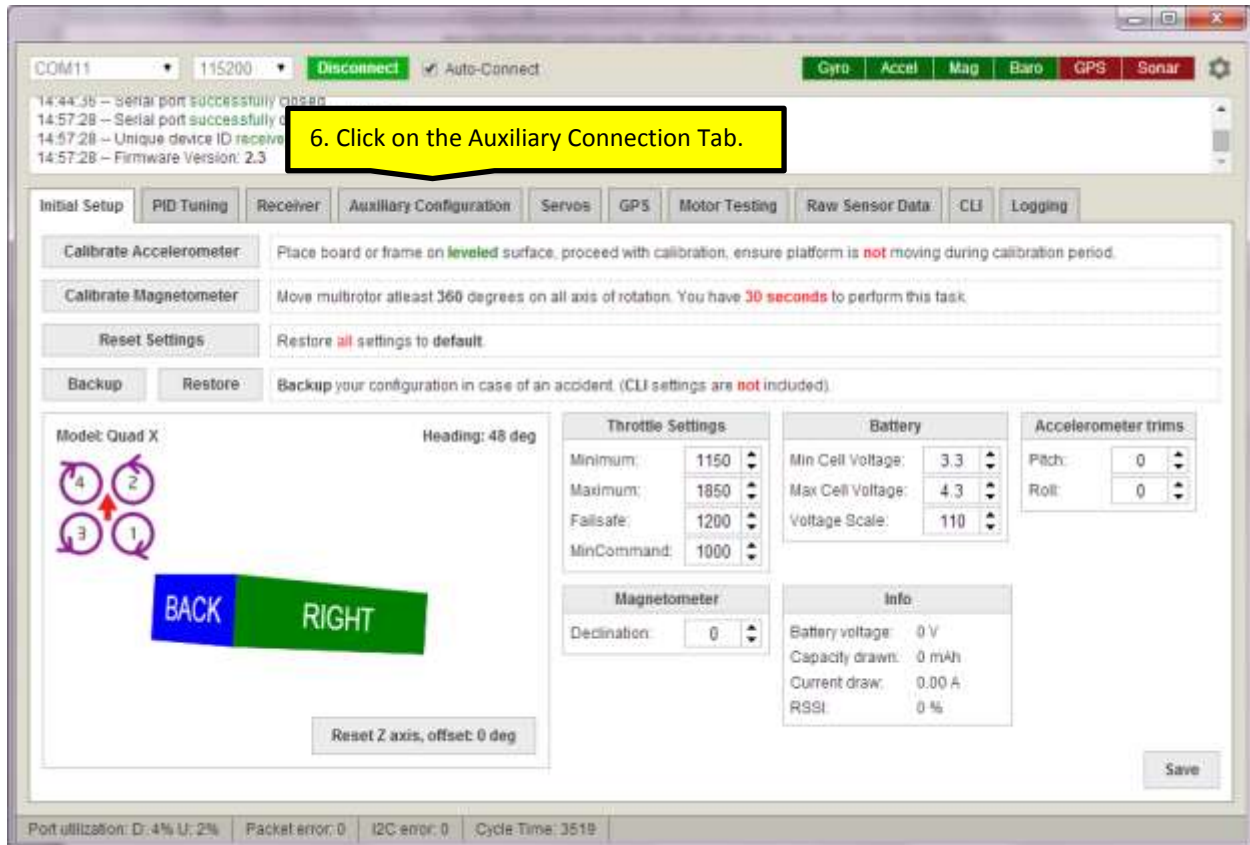
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7. You can assign multiple modes to the same three position switch because it has a LOW, MEDIUM and HIGH position. Set the switch sub trims so that activating the switch moves the highlighted bar LOW, MEDIUM or HIGH.

Name	AUX 1			AUX 2			AUX 3			AUX 4		
	LOW	MED	HIGH	LOW	MED	HIGH	LOW	MED	HIGH	LOW	MED	HIGH
ARM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ANGLE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HORIZON	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BARO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MAG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HEADFREE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HEADADJ	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BEEPER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OSD SW	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Save

Port utilization: D: 4% U: 1% Packet error: 0 I2C error: 0 Cycle Time: 3512

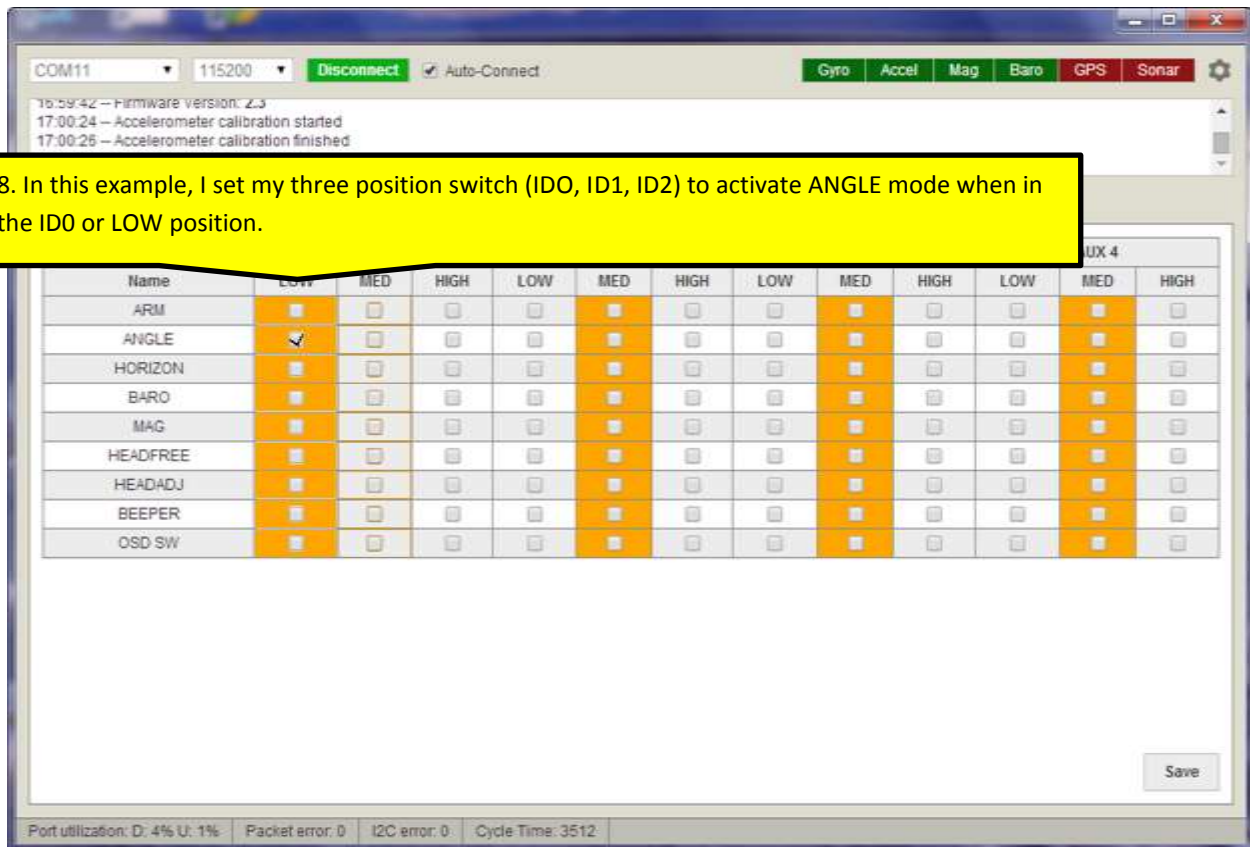
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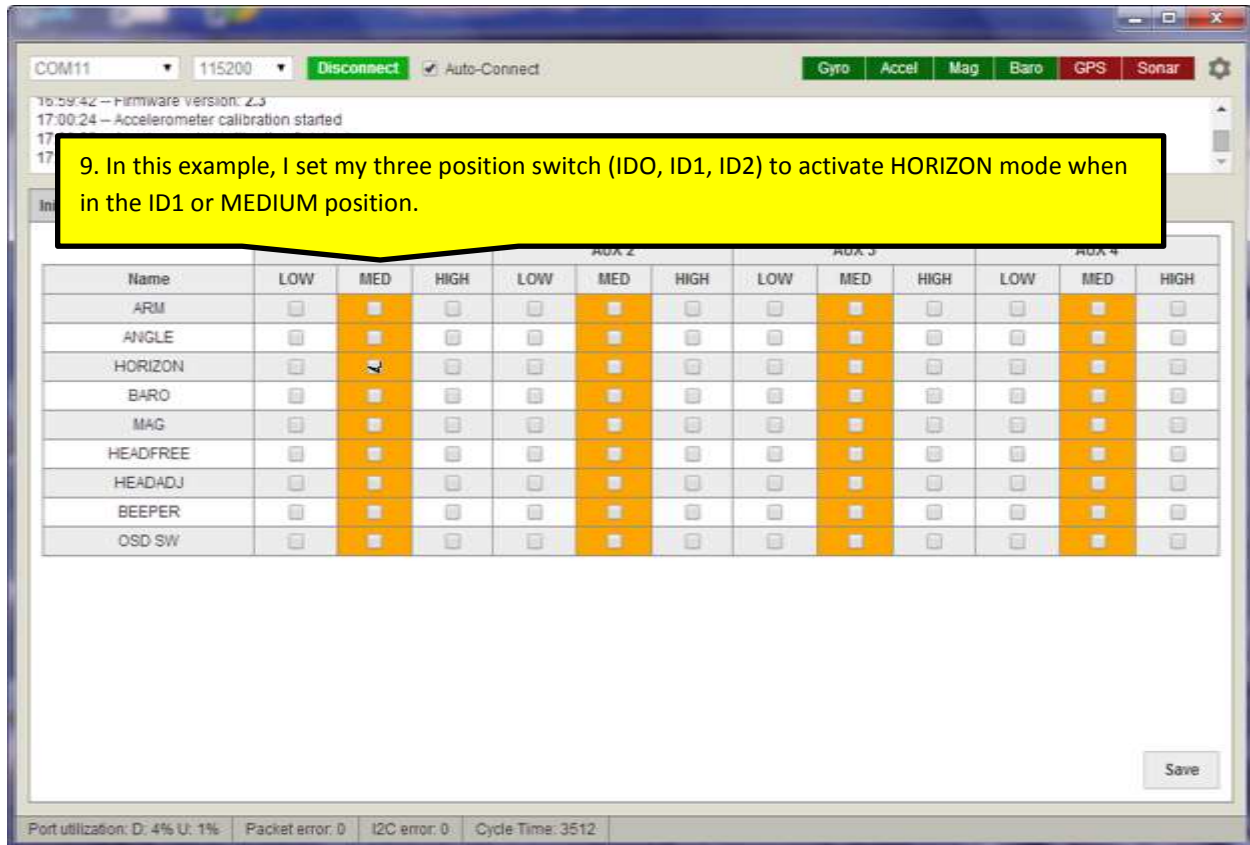
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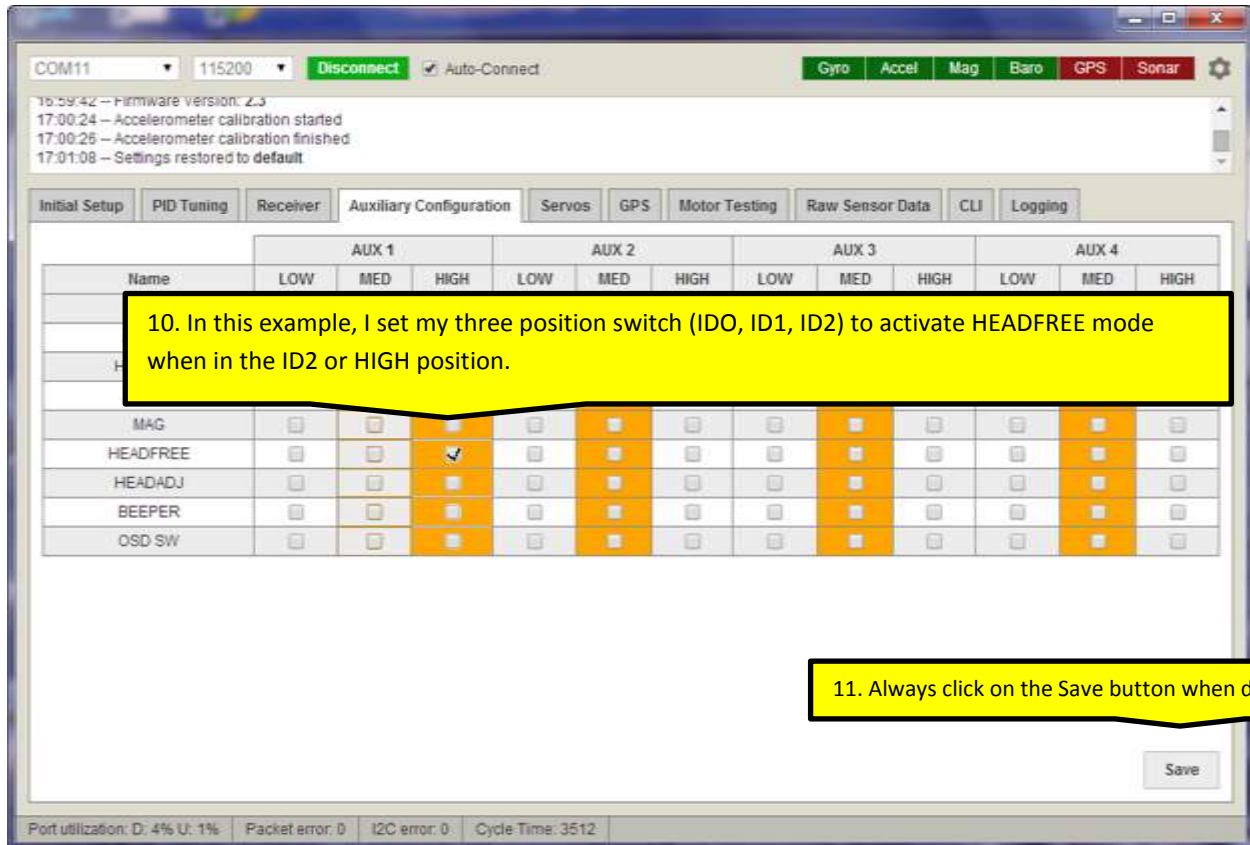
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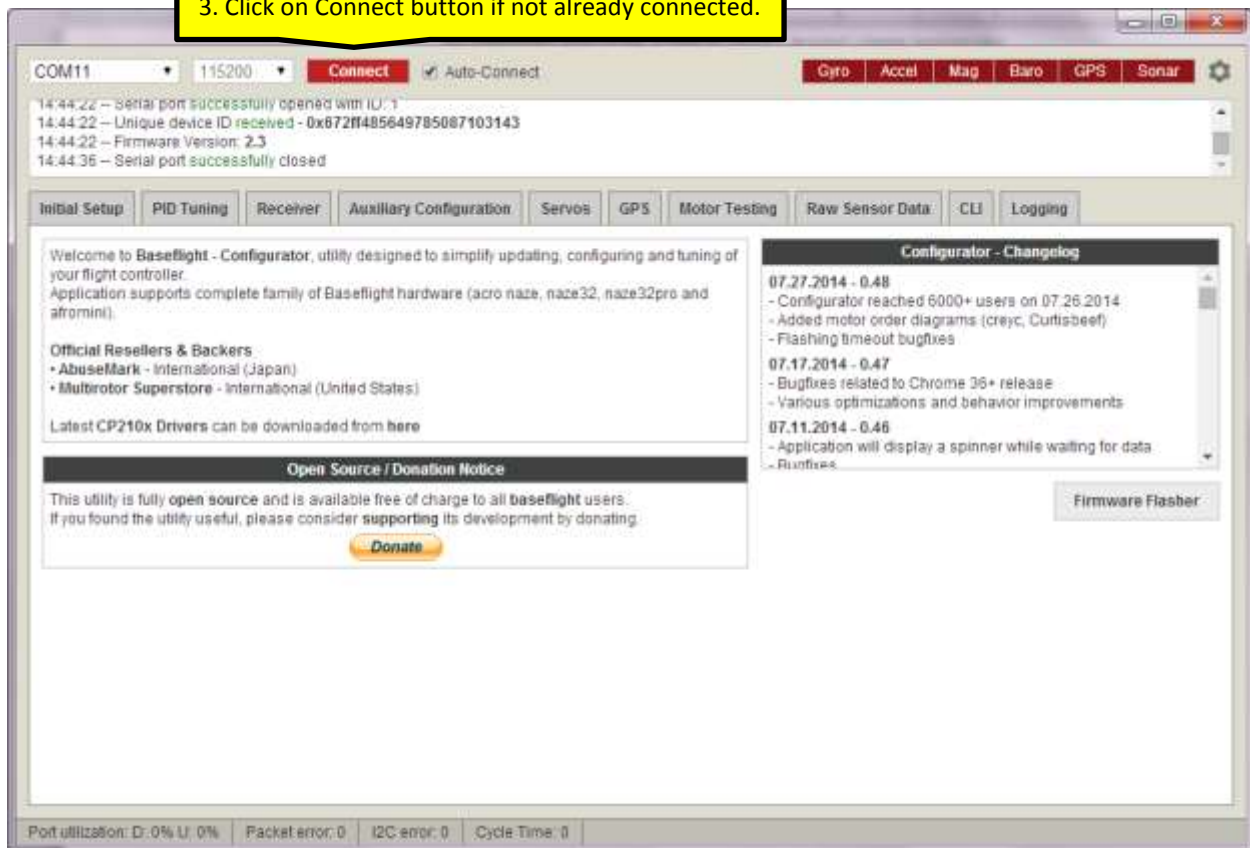
**ACCELEROMETER CALIBRATION USING THE GOOGLE CHROME BASEFLIGHT CONFIGURATOR:**

ReadyToFlyQuads.COM will have done the calibration for you but accelerometers are very sensitive to vibrations. In order to avoid any accelerometer issues caused by the vibrations received in transit, it is considered best practice to re-calibrate the accelerometers when you receive the Flip32+.

It is imperative that the multirotor be kept level and motionless while the calibration process is performed.

1. Connect the Flip32+ to your pc or laptop
2. Start the BaseFlight Configurator.

3. Click on Connect button if not already connected.



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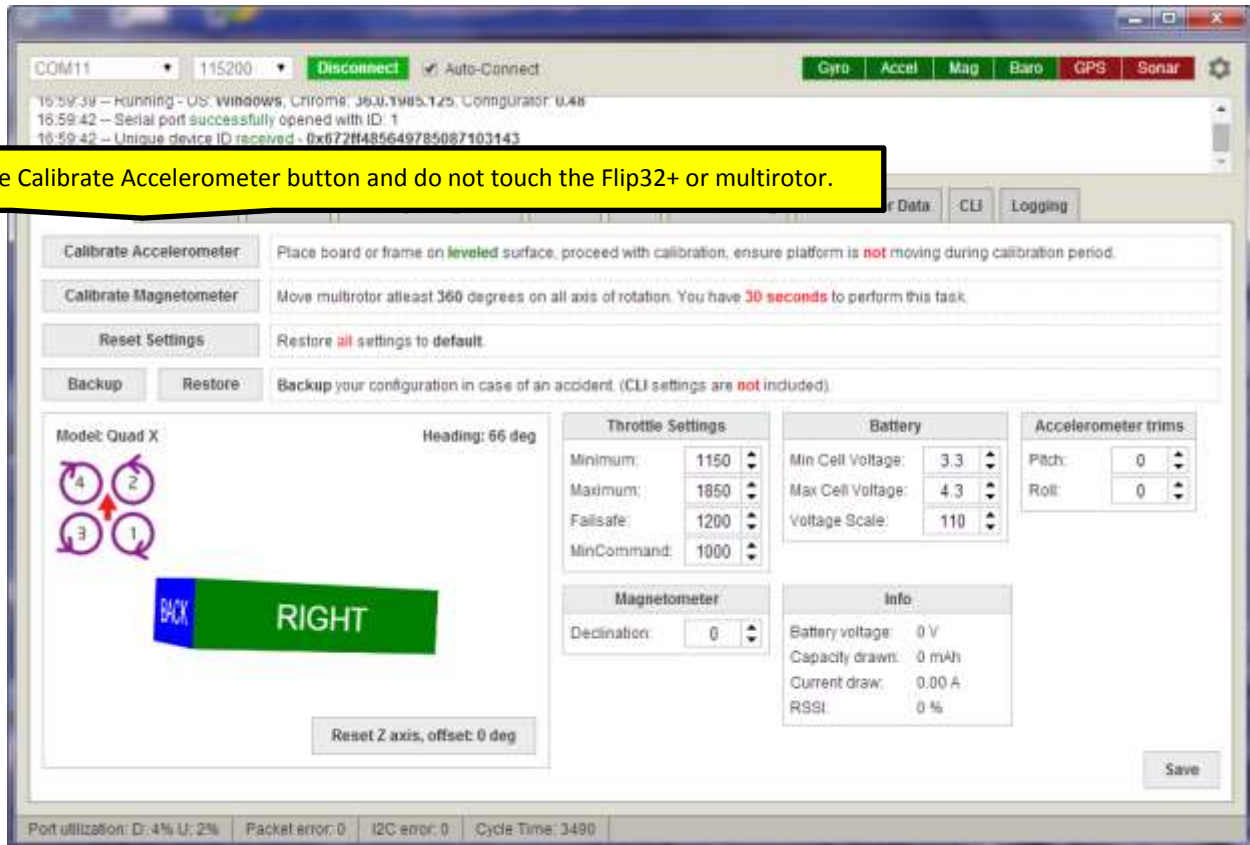
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4. Click on the Calibrate Accelerometer button and do not touch the Flip32+ or multirotor.



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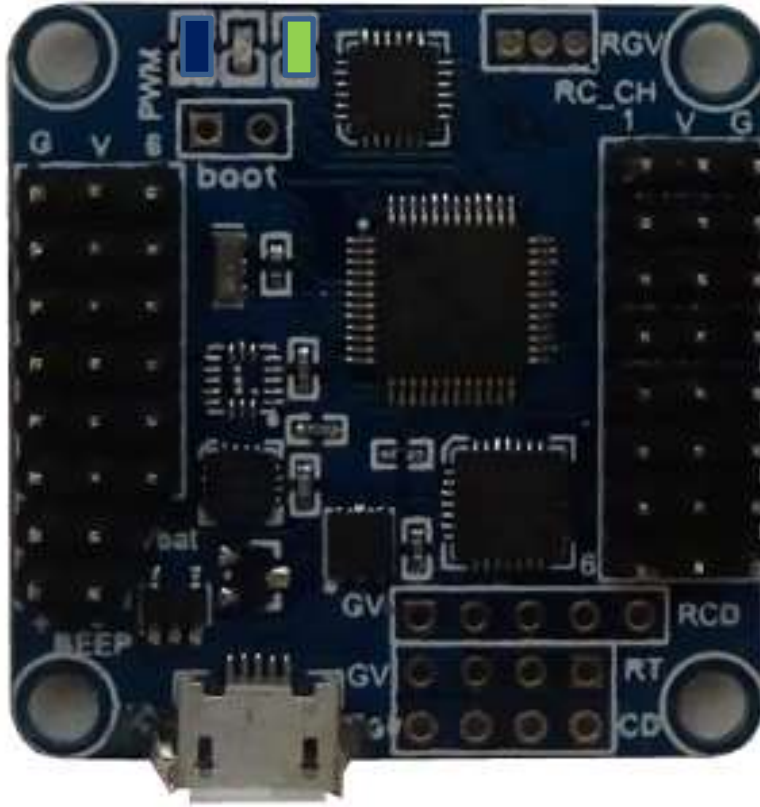
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5. The Green LED will turn for about 3 – 5 seconds then turn off.



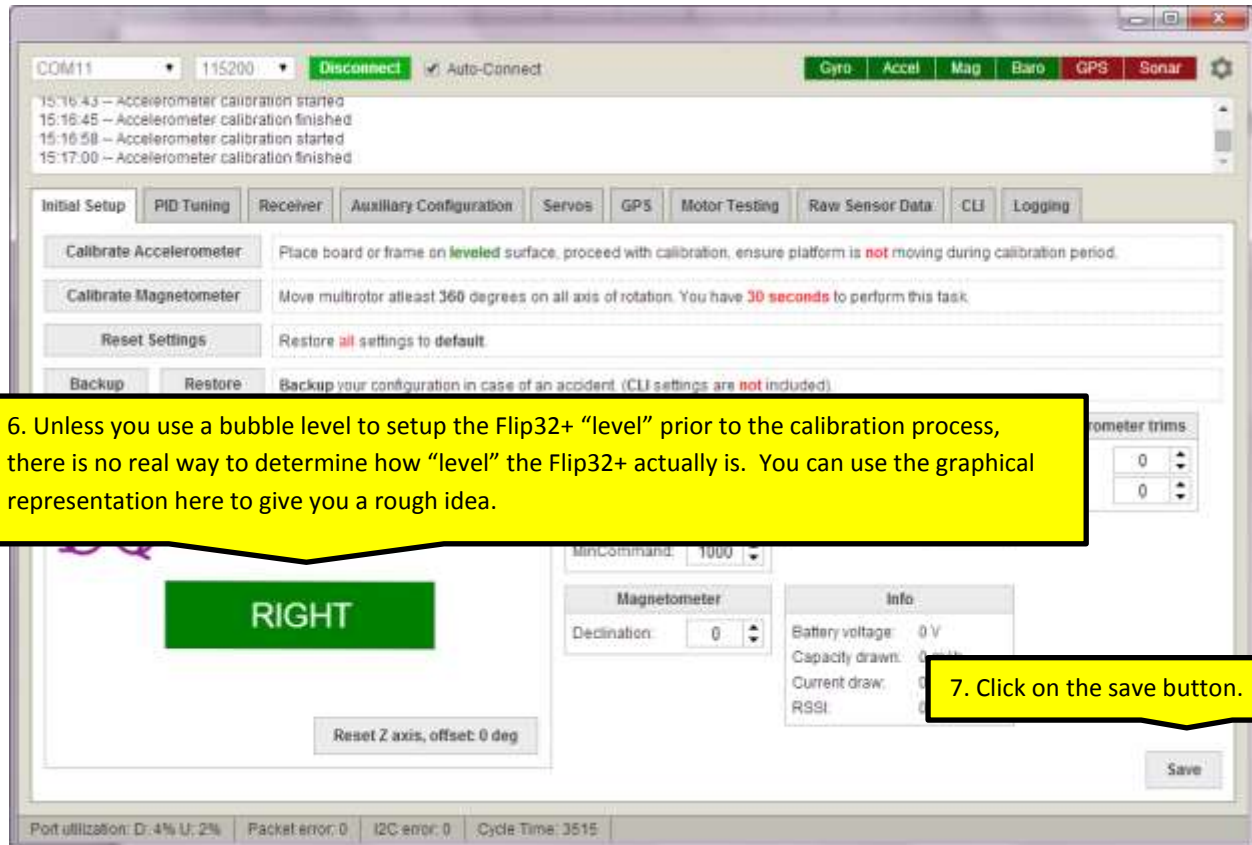
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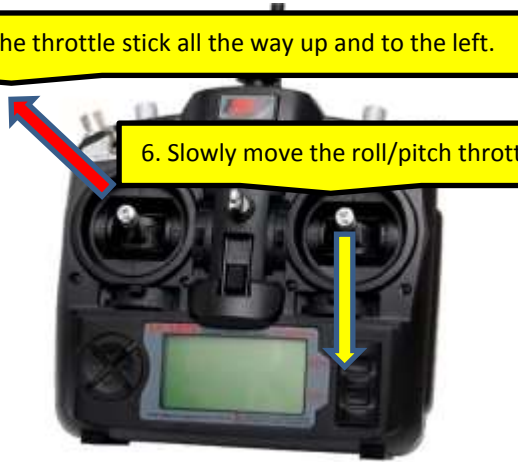
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**ACCELEROMETER CALIBRATION USING THE TRANSMITTER STICKS:**

1. Power on your transmitter
2. Power on the Flip32+
3. Ensure that the Flip32+/multirotor is level and motionless
4. Ensure that the Flip32+ is not armed

5. Slowly move the throttle stick all the way up and to the left.

6. Slowly move the roll/pitch throttle stick all the way down.



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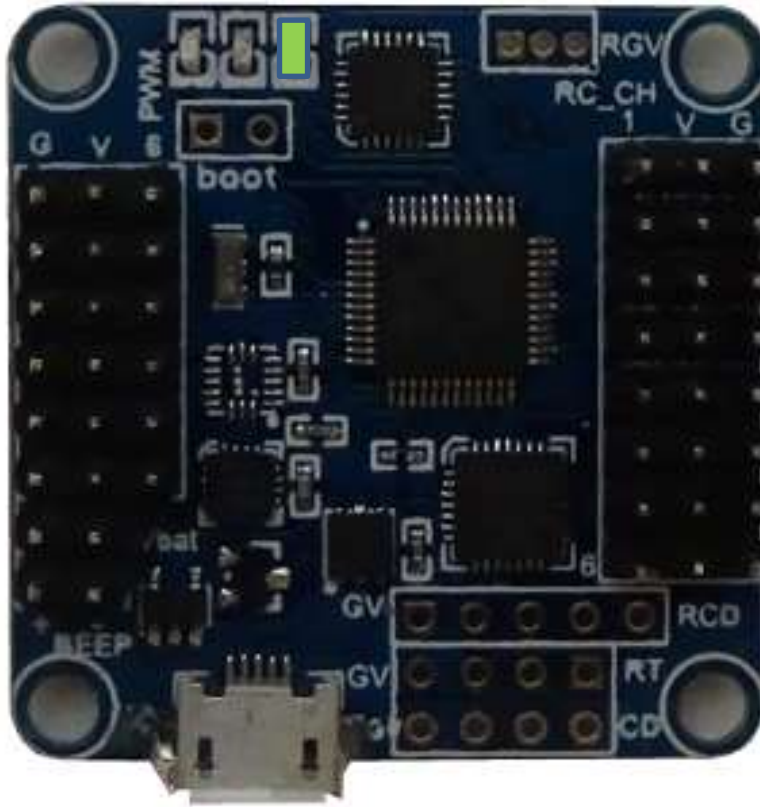
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5. The Green LED will turn for about 3 – 5 seconds then turn off.
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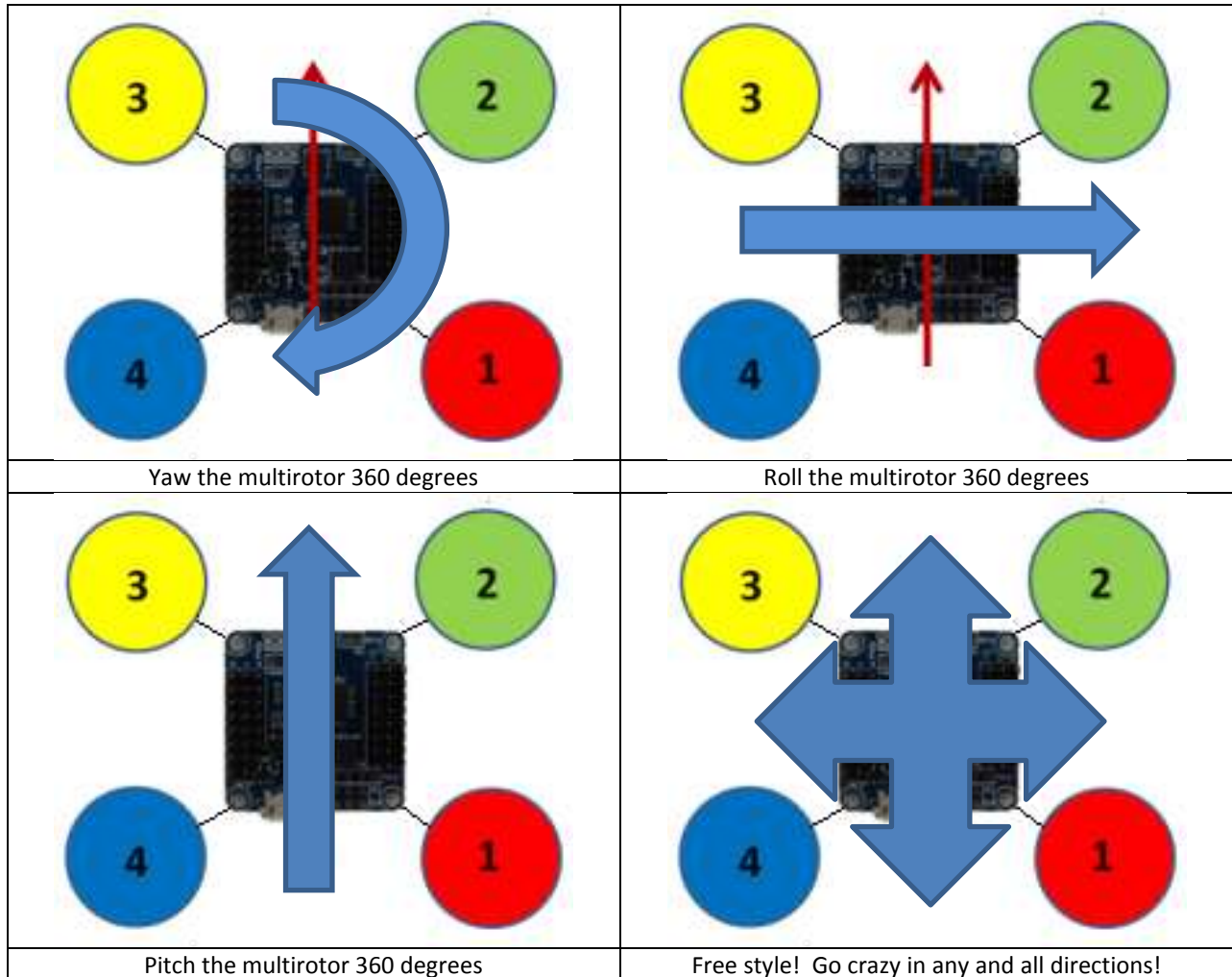
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**THE MAGNETOMETER (COMPASS) CALIBRATION DANCE:**

The dance is basically a series of movements that moves the Flip32+ along its X, Y and Z axis. This gives the Flip32+ a chance to obtain magnetic reference points so that it can best determine where magnetic north is. During the calibration dance, keep the multirotor flat as if it were hovering in the air.

Once started, you have only 30 seconds to complete all of the dance steps.



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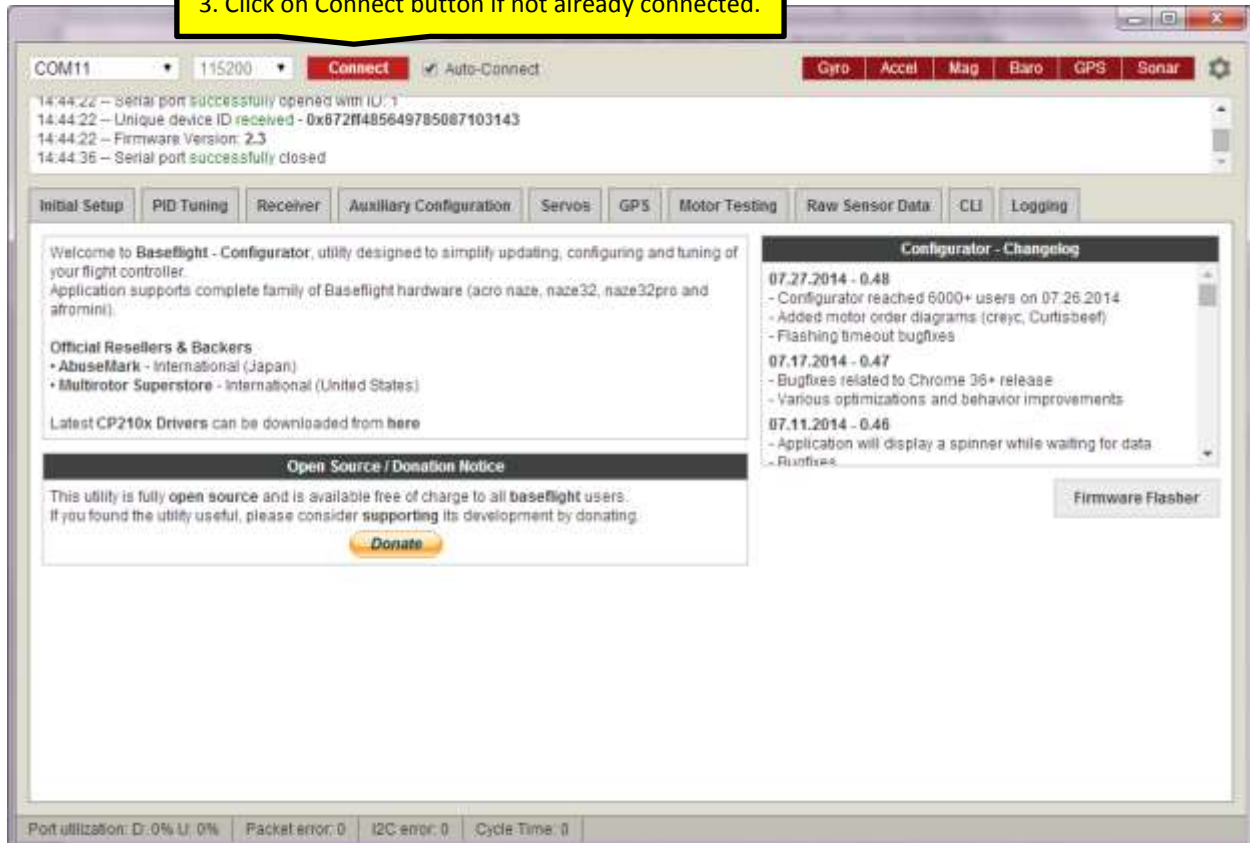
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**MAGNETOMETER (COMPASS) CALIBRATION USING THE GOOGLE CHROME BASEFLIGHT CONFIGURATOR:**

It is best to use a Blue Tooth connection when using the Google Chrome BaseFlight Configurator because a USB cable will be in the way as you rotate the Flip32+. If a Blue Tooth connection is not available, you can use the transmitter stick method instead.

1. Connect the Flip32+ to your pc or laptop via a Blue Tooth connection.
2. Start the BaseFlight Configurator.

3. Click on Connect button if not already connected.



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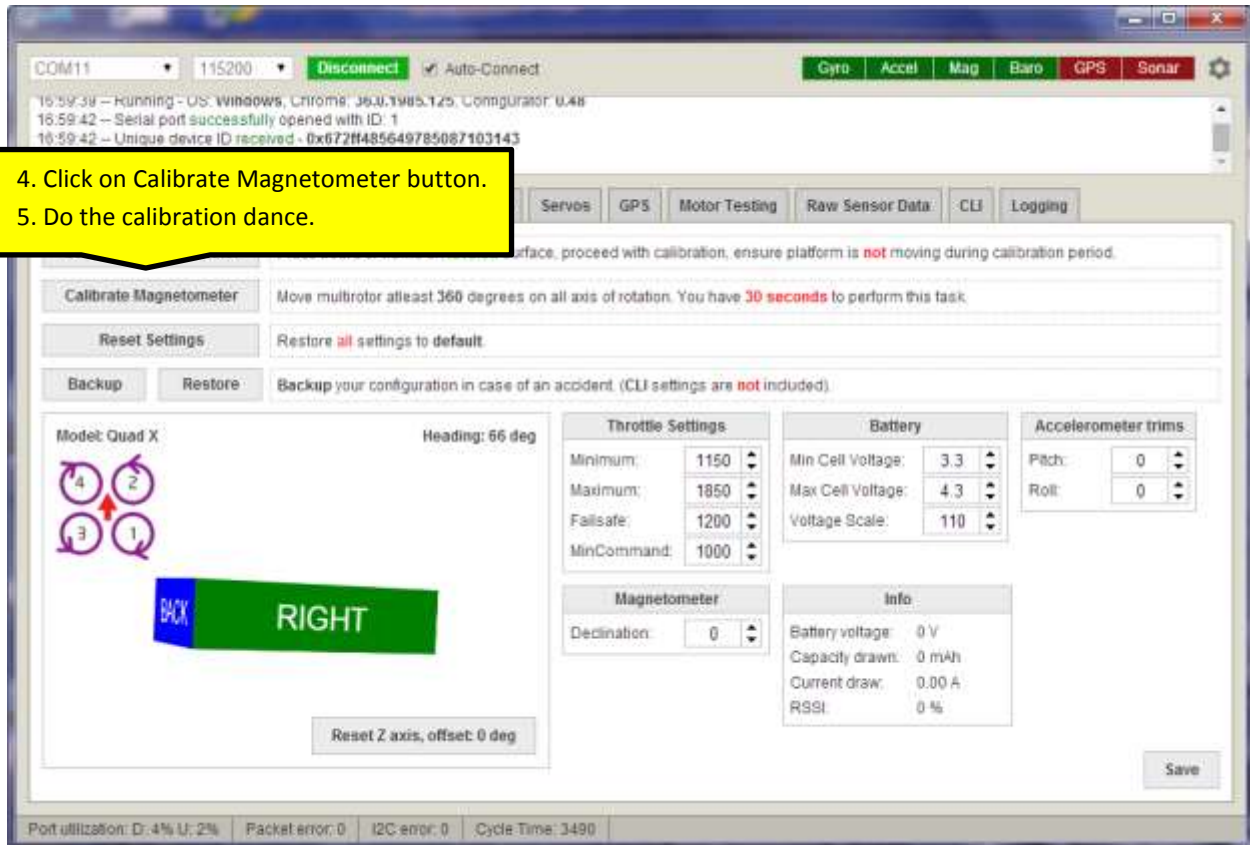
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4. Click on Calibrate Magnetometer button.
5. Do the calibration dance.



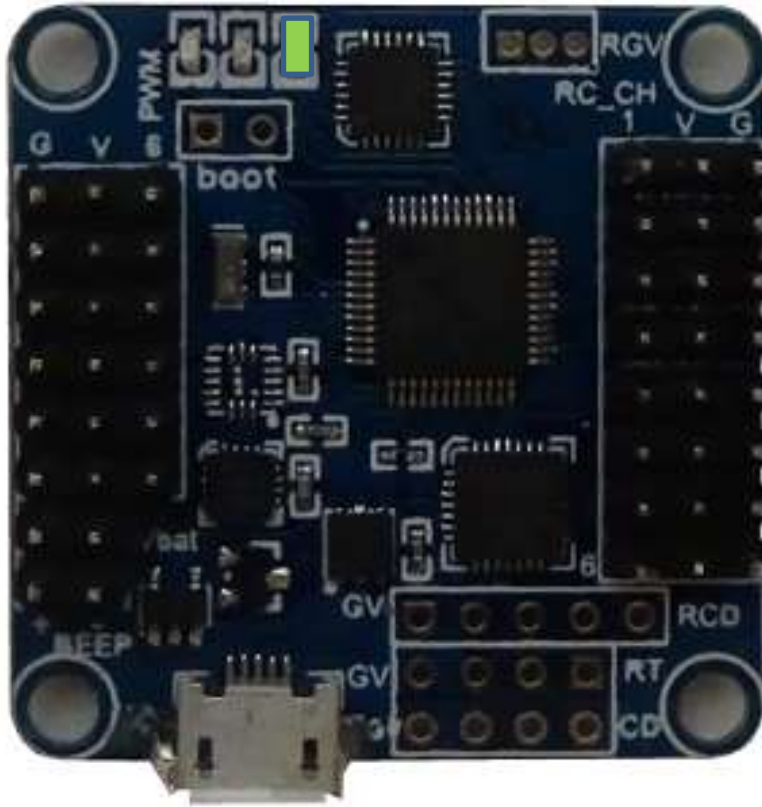
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6. The Green LED will blink rapidly for 30 seconds while you dance then turn off.
7. You're done!



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**MAGNETOMETER (COMPASS) CALIBRATION USING THE TRANSMITTER STICKS:**

1. Power on your transmitter
2. Power on the Flip32+
3. Ensure that the Flip32+/multirotor is level and motionless
4. Ensure that the Flip32+ is not armed

5. Slowly move the throttle stick all the way up and to the right.



6. Slowly move the roll/pitch throttle stick all the way down.  
7. Do the calibration dance.

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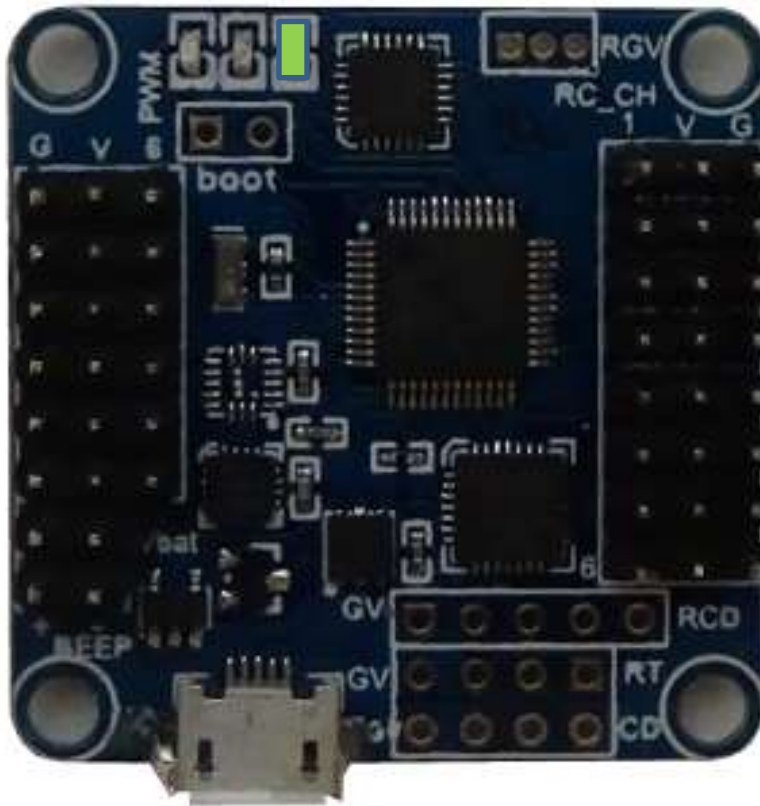
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8. The Green LED will blink rapidly for 30 seconds while you dance then turn off.
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**IN FLIGHT ACCELEROMETER TRIMMING:**

If the ANGLE mode (Self Leveling mode or Auto Level mode) is not performing the way you want it to, the accelerometers can be tweaked in flight using the transmitter sticks. It is probably best to perform this process on a calm or light windy day.

1. Enable ANGLE mode on your transmitter
2. Arm the multirotor, lift off and try to maintain a level hover/flight
3. Take notice of what sticks (roll, pitch or yaw) you need to move in order to maintain a level hover/flight
4. Land and disarm the multirotor

5. Slowly move the throttle stick all the way up.



6. For each direction that you wish to tweak quickly move (bang) the stick in that direction and then back to center repeatedly about 10 times.
7. Bring the throttle stick all the way back down when done.

Once you have finished making adjustments in steps 6 and 7, repeat the entire process starting with step 1 until you are satisfied. It may take a few tries so patient is a virtue. Please note that if you perform an accelerometer calibration using either the Google Chrome BaseFlight Configurator or the sticks, these tweak adjustments will be lost.

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**CALIBRATING THE GYROS PRIOR TO FLIGHT:**

It is inevitable that you will move the multirotor around while plugging in the main battery. This causes issues with the gyros because they need to be idle on power up in order for the calibration process to work correctly. The gyro calibration process lets you re-calibrate the gyros after power up.

1. Do not arm the multirotor

2. Slowly move the throttle stick all the way down and to the left.



3. Move the roll/pitch stick all the way down.

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**FLIP32+ TIPS:**

- Calibrate the gyros before arming
- Always take off in ACRO mode
- Switch to the desired mode only after the multirotor is stable
- Cover the Flip32+ barometer with open cell foam or place the Flip32+ in a protective case
- Never change trims or sub trims in flight
- If the multirotor starts to want to flip on takeoff, check motor/prop directions and channel movements in the configurator.

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**MODE 2 TRANSMITTER STICKS FUNCTIONS:**



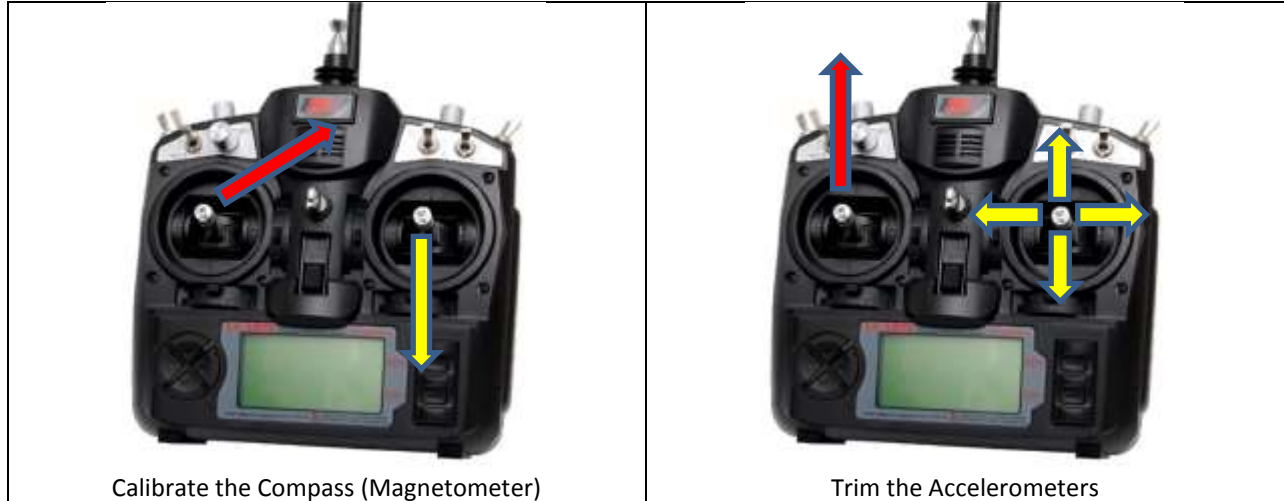
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