



## Lumenier RID Setup for Betaflight

### GPS Settings:

Firmware Version: 4.5 (or newer)

Ports Tab: Sensor Input = GPS

Baud Rate = AUTO

Example:

Identifier	Configuration/GPS	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	GPS   AUTO	Disabled   AUTO
UART3	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART4	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART5	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART6	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO

Note: Betaflight might automatically reset Baud Rate to 57600, this is normal.

Configuration Tab: GPS = Enabled

Example:

Other Features

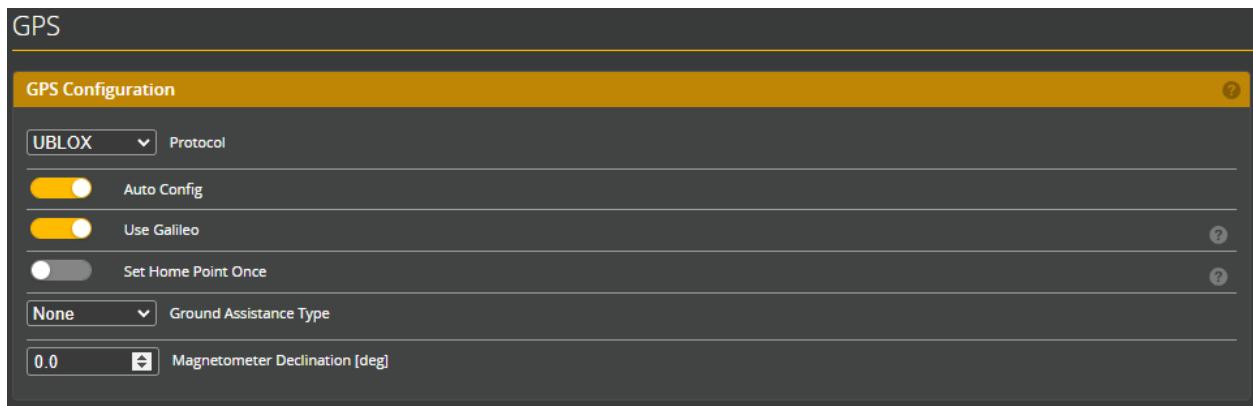
Note: Not all features are supported by all flight controllers. If you enable a specific feature, and it is disabled after you hit 'Save and Reboot', it means that this feature is not supported on your board.

<input checked="" type="checkbox"/>	<b>AIRMODE</b>	Permanently enable Airmode	
<input checked="" type="checkbox"/>	<b>GPS</b>	GPS for navigation and telemetry	?
<input type="checkbox"/>	<b>INFLIGHT_ACC_CAL</b>	In-flight level calibration	
<input checked="" type="checkbox"/>	<b>LED_STRIP</b>	Multi-color RGB LED strip support	?
<input checked="" type="checkbox"/>	<b>OSD</b>	On Screen Display	?
<input type="checkbox"/>	<b>SOFTSERIAL</b>	Enable CPU based serial ports	?



GPS Tab: Protocol = UBLOX  
Auto Config = Enabled  
Use Galileo = Enabled

Example:



Note: It is best practice to power cycle the board after configuring all GPS related settings

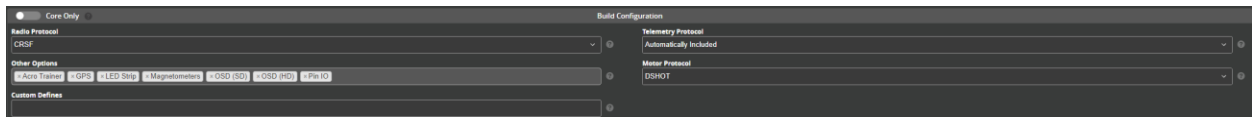


## Magnetometer Settings:

Firmware Version: 4.5 (or newer)

Note: Ensure when flashing firmware, Magnetometers is selected under “Other Options”

Example:



Configuration Tab: If RID module is mounted with the indication arrow pointing towards the front of the vehicle, MAG Alignment = CW 90°

Example:

