

Lumenier RID Setup for INAV

GPS Settings:

Firmware Version: 7.1.0 (or newer)

Ports Tab: Sensor Input = GPS

Baud Rate = 57600

Example:

Identifier					Peripherals
US8 VCP	MSP 115200 ¥	Disabled V AUTO V	Serial RX	Disabled v 115200 v	Disabled • 115200 •
UART1	● MSP 115200 ▼	Disabled V AUTO V	Serial RX	Disabled • 115200 •	Disabled • 115200 •
UART2	MSP 115200 ¥	Disabled V AUTO V	Serial RX	GPS V 57600 V	Disabled v 115200 v
UART3	MSP 115200 ¥	Disabled V AUTO V	Serial RX	Disabled • 115200 •	Disabled • 115200 •
UART4	MSP 115200 ¥	Disabled V AUTO V	Serial RX	Disabled • 115200 •	Disabled • 115200 •
UART5	MSP 115200 ¥	Disabled V AUTO V	Serial RX	Disabled • 115200 •	Disabled • 115200 •
UART6	MSP 115200 ¥	Disabled V AUTO V	Serial RX	Disabled • 115200 •	Disabled • 115200 •

Configuration Tab: GPS for navigation and telemetry = Enabled

Example:

Other Features			
	Enable CPU based serial ports	0	
	GPS for navigation and telemetry	0	
	Telemetry output	0	
	Reversible motors mode (for use with reversible ESCs)	0	
	Analog RSSI input	0	
	Multi-color RGB LED strip support	0	
	OLED Screen Display	0	
	Blackbox flight data recorder	0	
	Enable motor and servo output	Ø	
	CPU based SPI		
	OSD		
	Permanently enable AIRMODE		
	Permanently enable Launch Mode for Fixed Wing		
	Profile selection with TX stick command		
	Throttle voltage compensation	0	
	Automatic battery profile selection	0	
	Continuously trim servos on Fixed Wing	0	



GPS Tab: GPS for navigation and telemetry = Enabled Protocol = UBLOX

Gps use Galileo Satellites (EU) = Enabled

Gps use BeiDou Satellites (CN) = Enabled

Gps use Glonass Satellites (RU) = Enabled

Example:

GPS

Configuration			
Note: Remember to configure a Serial Port (via Ports tab) when using GPS feature.			
	GPS for navigation and telemetry	0	
UBLOX V	Protocol		
Disabled V	Ground Assistance Type		
	Gps use Galileo Satellites (EU)		
	Gps use BeiDou Satellites (CN)		
	Gps use Glonass Satellites (RU)		
00:00 hh:mm	Timezone Offset	0	
OFF 🗸	Automatic Daylight Savings Time	0	

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



Magnetometer Settings:

Firmware Version: 7.1.0 (or newer)

Configuration Tab:

INAV should automatically detect the magnetometer upon bootup as "LIS3MDL"

Example:

Sensors & buses			
ICM42605	•	Accelerometer	
LIS3MDL	•	Magnetometer	
SPL06	•	Barometer	
None	•	Pitot tube	
None	•	Rangefinder	
None	•	Optical flow	
Please switch to 800kHz if connected hardware allows for it			
400KHZ	•	I2C Speed	

Alignment tool Tab:

If RID module is mounted with the indication arrow pointing towards the front of the vehicle, MAG Alignment: Roll = 0° Pitch = -180° Yaw = -90°

Example:





Note: If you are using a mount that adds a tilt to the module like the **Lumenier RID** -**Remote ID + Antenna Rear Mount** add the angle of mount. In this case, for the **Lumenier RID - Remote ID + Antenna Rear Mount**, add in Roll = -25°

Example:



