

HGLRC Zeus35 Pro AIO Flight Controller User Manual

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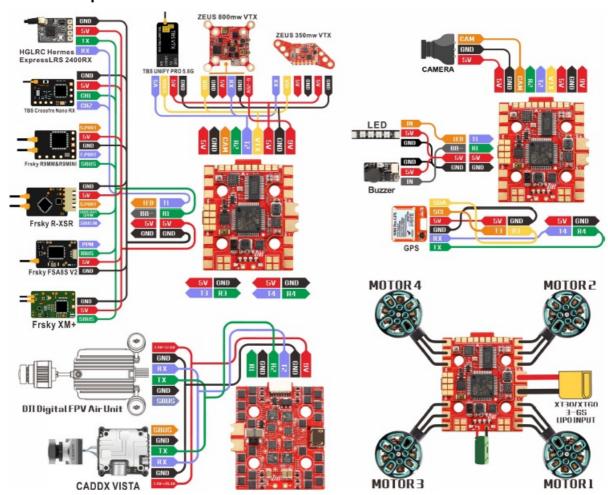




Product Specifications

Product parameters			
Model	Zeus35 Pro AIO		
Weight	13.8g		
Input Voltage	3-6S		
Usage	for 100mm-450mm Frame Kit		
Installing Hole	20x20mm/M3		
Dimensioms	40.0×34.0mm		
FC Firmware	BF ZEUSF722_AIO(HGLR)		
CPU	STM32F722		
MPU	MPU6000		
	9V/1A		
BEC			
BEO	5/2A		
BlackBox	8M		
UARTS	5		
ESC Firmware	BL_S		
Current Sensor	not support		
Constant Current	35A		
Peak Current	40A 5s		

Interface Description



Check the flight control drive

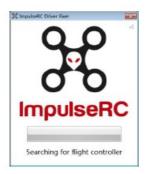
1. Long Press BOOT buttons.connect USB.The system automatically install the driver



2. Driver cannot be installed, please download ImpulseRC_Driver_Fixer



3. Double-click on the run(Plug in the flight controller to automatically install the driver)



4. open betaflight configurator

enter DFU mode

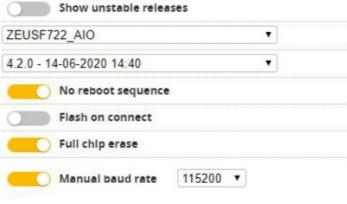
DFU

Auto-Connect

Connect

Select firmware version

Show unstable releases



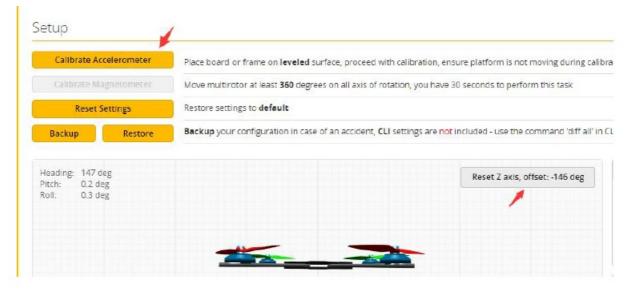
- 6. Click Flash Firmware Load firmware. Flash Firmware Waiting for completion It will be prompted upon Programming: SUCCESSFUL completion.
- 7. open beta flight configurator The controller is plugged into the computer. Betaflight Automatically assigned port click "Connect" Enter setup interface

 Different computer COM



Calibration accelerometer

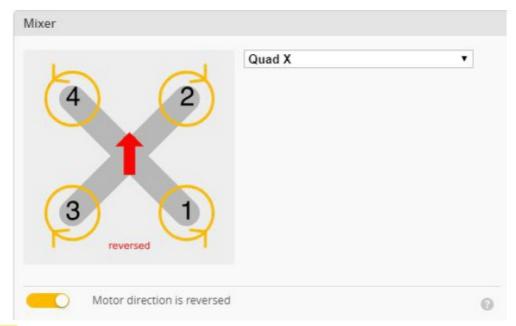
1. Put the aircraft horizontally and click "Reset Z axis" Click again



- 1. UART1 uses the receiver
- 2. UART2 uses VTX/DJI
- 3. UART3
- 4. UART4 uses GPS
- 5. UART6

Select aircraft model

1. Click Configuration Select model



2. .Click Motors Click "I understand the risks" Push Master to check motor steering Master" Steering can be changed at BLHeliSuite32



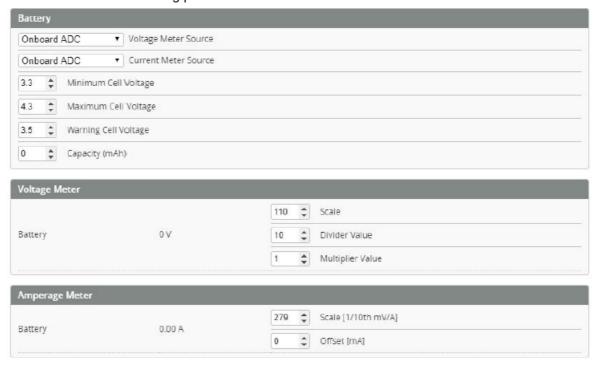
Choose ESC protocol

1. Choose the right ESC protocol, the optional universal protocol DSHOT600.



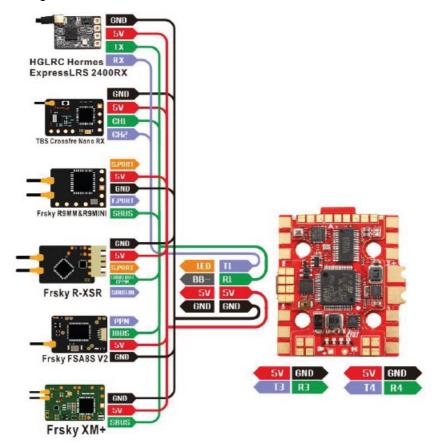
Voltage and current parameters setting

1. Click Power & Battery the Setting parameter



Setting up thereceiver

1. Receiver connection diagram

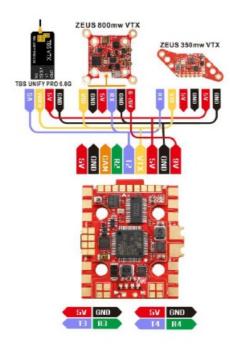


2. Click have found "UART1" Open the receiver serial port

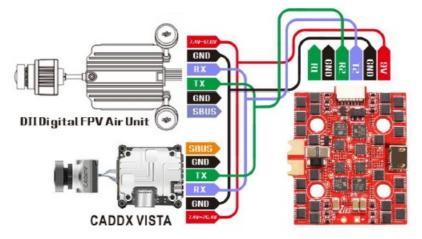
identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200 •		Disabled • AUTO •	Disabled • AUTO •	Disabled ▼ AUTO ▼
LIART1	115200 •		Disabled • AUTO •	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼
UART2	116200 •		Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼	VTX (IRC Tran ▼ AUTO ▼
LIART3	115200 •		Disabled • AUTO •	Disabled • AUTO •	Disabled • AUTO •
LIART4	115200 V		Disabled • AUTO •	Disabled • AUTO •	Disabled ▼ AUTO ▼
UARTO	115200 •		Disabled ▼ AUTO ▼	ESC • AUTO •	Disabled • AUTO •

VTX serial port use. VTXusesOSD smart audio

1. VTX connection diagram



2. DJI FPV Air Unit wiring



3. VTX serial port opens. The protocol is selected according to toits ownVTXprotocol.

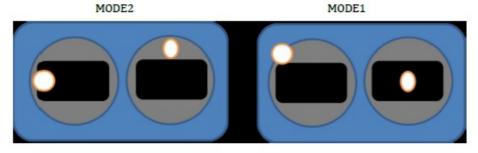


4. DJI serial port opens



Use OSD to adjust VTX

• which displays information like battery voltage and mAh consumed while you fly. In addition, the theBetaflight OSD can be used to configure the quadcopter, making in-field adjustments and tuningmore convenient.



- The graphics above show the stick command to bring up the OSD menu. The stick command is throttle
 centered, yaw left, and pitch forward. The exact stick command, therefore, depends on which
 modeyourtransmitter sticks are in. In the OSD menu, use pitch up/down to move the cursor between menu
 items. When a menu option has a > symbol to the right of it, this indicates that it contains a sub-menu. Rollright will enter the sub-menu.
- For example, on the screen to the right, moving the cursor to "Features" and then moving the roll stick to the right will enter the "Features" sub-menu. If you are using a video transmitter that supports remote configuration, enter the "Features" menu to configure the vTX. From there, enter either "VTX SA" if you are using SmartAudio (TBS Unify) or "VTX TR" if you are using IRC
- Tramp Telemetry. To adjust PIDs, rates, and other tuning-related parameters, enter the "Profile" sub-menu. In
 the "Scr Layout" sub-menu, you can move the OSD
 elements (like battery voltage, mAh, and so forth) around on the screen. The "Alarms" sub-menu lets you
 control when the OSD will try to alert you that the battery voltage is too low or the mAh consumed is too high.



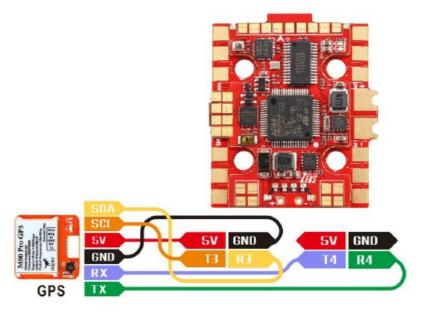


- When a parameter can be modified, the parameter's current value will be shown on the right-hand side of the screen. In this case, rolling left/right will adjust the parameter up and down.
- The screen to the right shows the current vTX settings. From here, you can change the frequency band, channel, and power level of the video transmitter. After making the changes, move the cursor to "Set" and press roll-right to confirm the settings.



GPS parameterssetting

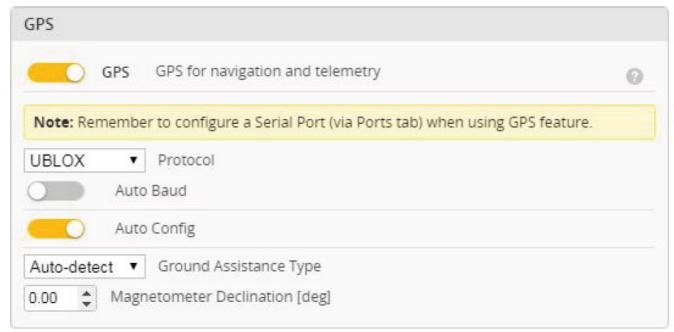
1. GPS connection diagram



2. Open the GPS serial port

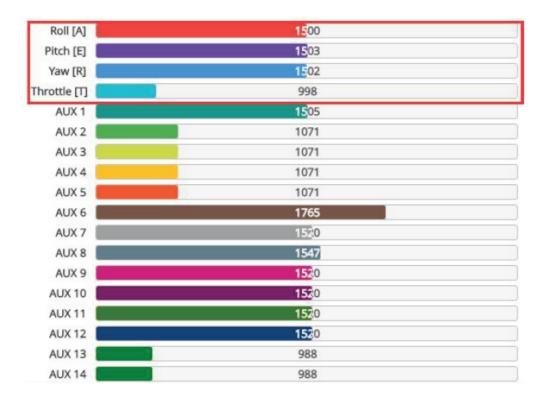


3. When using the GPS function, remember to configure the serial port(via the Ports tab).



Check receiver signal

1. Click Check the remote control output signal



Select flight modestartupmode

1. Click Motors set up the function of the remote control switch across the channel (below are for reference only)



OSD settings

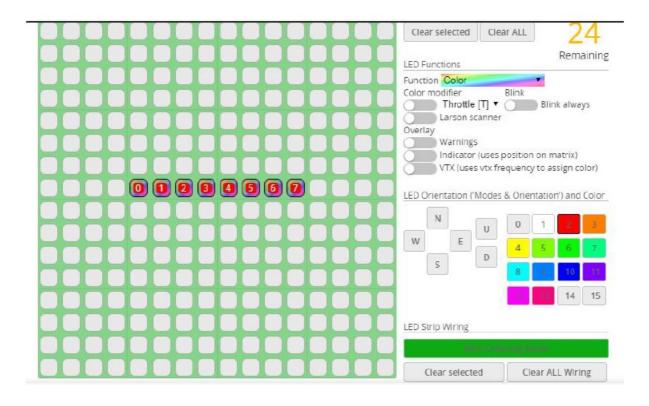
1. Click the OSD Settings, according to the need to choose, drag the OSD schematic diagram of the parameters that can be adjusted.



LED settings



2. Click. Click set according to the need



Troubleshooting

Warning:

- Please read the cautions as follows, otherwise stability of your flight controller cannot be ensured, your flight controller will evenget damaged.
- Keep focus on the polarity. Check carefully before power supply.
- Cut off the power when you connect, plug and pull anything.
- The refresh rate of PID and Gyroscope is up to 8K/8K

after-sales question:

- 1. After receiving the goods, it is found that the product cannot be used normally. If the return to the factory is a quality problem, the repairservice will be provided free of charge.
- 2. If the product is damaged due to improper operation, the repair service may be provided under the condition that the inspection canberepaired.
- 3. For domestic customers, please contact the after-sales service personnel. For overseas customers, please contact the official website for after-sales service.

Product daily problems

OSD garbled:

- 1. If you find garbled characters, please open Betaflight, click "OSD" .and click "Font Manager" clicks on "Upload Font" to update
- 2. When plugged in the battery, the aircraft does not pass the self-test without a "BBB" sound. There is only one sound. Please check if the ESC agreement is correct

- 3. The spin of aircraft keeps spinning
- 4. Please check if the propeller is correct
- 5. Please check if the motor direction is correct
- www.hglrc.com

Documents / Resources



HGLRC Zeus35 Pro AlO Flight Controller [pdf] User Manual

Zeus35 Pro AlO Flight Controller, Zeus35 Pro, AlO Flight Controller, Flight Controller, Controller

Manuals+,