

## **HGLRC**

1. Read this manual thoroughly before operation to avoid product damage and personal injury;

2. The use of this product requires a certain level of technical skills. Novices should operate under

4.Before using this product for flight, please confirm that the gyroscope direction, mixing control model, motor sequence and steering are correct when the propeller have been removed before

5. When flying, please choose a suitable flying environment and stay away from crowds and buildings;

four-channel maximum current 190A

The camera is defaulted to CAM1

The SBUS protocol uses the serial digital receiver UART2

The camera is defaulted to CAM1

TX1

CAM: 5V

**M**1

6. Please understand local laws and regulations first and fly legally! Enjoy the fun of FPV flying;

3. Please choose a reasonable electrical combination according to your needs, and do not exceed the operating voltage/current to avoid insufficient power or damage to the equipment;

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5S V1

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weight:22.4g **FC** parameters

HGLRC F460 6S V1 Stack

**Precautions** 

the guidance of professional personnel;

HGLRC F460 6S V1 Stack

Stack parameters

Mounting hole:30.5x30.5mm M3

Product name: HGLRC F460 6S V1 Stack

Support protocol: DShot600/300/150

Product name: HGLRC F405 8S V1 FC

user's guidance

user's guidance

flying;

- Operating voltage:7.4V-33.6V (2S-8S) MCU: STM32F405 GYRO: ICM42688P
- Barometer: SPL06-001
- Black box:16MB Flight control MCU:HGLRCF405V2
- Size:36.3×36.3mm Mounting hole:30.5×30.5mm, M3
- Weight:9.5g
- **ESC** parameters
- Product name: HGLRC 60A 6S V1 8 BL-S ESC

HGLRC F460 6S V1 Stack

RXS
CUR
M8
M8
M6
M7
M6
M5
GND
BAT
RXS
CUR
RXS
CUR
RXS
CUR
RXS
CUR
RXS
RXS
RXS
RXS

BATGMIM2M3M4CURRS DAT

SCL SDA TX4 RX4 RX4 SV GND GND

HGLRC F460 6S V1 Stack

RX5
CUR
M8
M8
M7
M6
M7
M6
M7
M8
RX5
GND
BAT
M1
GND
BAT

GND 7X

Wiring diagram

user's guidance

Use solder to short connect 10V/OUT or 5V/OUT

> Use solder to short connect 10V/OUT or 5V/OUT to control the output voltage of UART1 BEC

> > طار

GND
SV
SV
SV
GND
GND
SV
SV
SV
SV
SV

5

Firmware name: HGLRCF405V2

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Do not disconnect the board or turn off your computer while f

Note: Auto-Connect is always disabled while you are inside firm

Note: Make sure you have a backup; some upgrades/downgrade

Note: If you have problems flashing try disconnecting all cable Note: When flashing boards that have directly connected USB so

IMPORTANT: Ensure you flash a file appropriate for your target.

**Build Conf** 

0

0

v 0

**v** 0

0 • 0

0

0

× Acro Trainer × GPS × LED Strip × OSD (Analog) × OSD (Digital) × Pin IO × VTX

If you have lost communication with your board follow these steps to restore communication:

Release BOOT button if your FC has one. Flash with correct firmware (using manual baud rate if specified in your FC's manual).

Power on (activity LED will NOT flash if done correctly).

Install all STM32 drivers and Zadig if required (see USB Flashing section of Betaflight manual).

Enable 'No reboot sequence', enable 'Full chip erase'.
 Jumper the BOOT pins or hold BOOT button.

Close configurator, Restart Configurator

Power on (activity LED should flash).

Port recommended to use

BF4.3 The firmware needs to enter the following commands to display OSD normally

Disabled V AUTO V

BF4.4 The firmware needs to enter the following commands to display OSD normally

Disabled V AUTO V

**Camera Switching Procedure** 

Secondly, click on the CLI (Command Line) and enter the following command.

Disabled V AUTO V

Disabled > AUTO >

Disabled > AUTO >

Disabled V AUTO V

ESC V AUTO V

Copy this command

-②Execute Command

4 Locate USER1 and click add range

**5**Select desired auxiliary channel

1. If the product cannot be used normally after receiving the product, please consult the after-sales customer service or return it to the factory for repair in time. If the product is

If the manual is unclear

you can click the arrow in the upper

right corner to download the

high-definition PDF version

detected to be a problem, our company will provide free repair or replacement.

Sincerely thanks for everyone trust! Welcome to choose HGLRC products

This product is authorized by Shenzhen Huagulong Technology Co., Ltd.

Address: No. 206, No. 12, Tongfuyu Industrial Zone, Heping Community,

Technical phone: 18033023851 (same as WeChat)

Fuhai Street, Bao'an District, Shenzhen

Official website: https://hglrc.taobao.com

2. If the product is damaged due to improper operation, after inspection, if it can be

Configure Mode Assignment

Disabled

Disabled

✓ AUTO ✓

✓ AUTO ✓

▼ AUTO ▼

VTX (MSP + D V AUTO V

Disabled V AUTO V

Disabled V AUTO V

VTX (MSP + D V AUTO V

Disabled • AUTO •

VTX (IRC Tran ✔ AUTO ✔

Disabled V AUTO V

Disabled V AUTO V

VTX (IRC Tran V AUTO V

Disabled V AUTO V

Disabled V AUTO V

VTX (IRC Tran V AUTO V

Disabled V AUTO V

VTX (IRC Tran V AUTO

Submit Support Data Copy to clipboard Clear output history Load from file Save to File

Set range: 1800-2100

**Click Save & Reboot-**

**X** 

Disabled V AUTO V

▼ AUTO ▼

✓ AUTO ✓

✓ AUTO ✓

▼ AUTO ▼

▼ AUTO ▼

Disabled

✓ AUTO ✓

Disabled

▼ AUTO ▼

▼ AUTO ▼

Disabled

✓ AUTO ✓

Remove BOOT jumper.

Connect normally

HGLRC F460 6S V1 Stack

UARTS2: Receiver

**UARTS4: GPS** 

**UARTS5:ESC** 

UART1

UART4

UART1

UART2

UART4

USB VCP

UART2

UART5

USB VCP

UART4

USB VCP

UART2

UART3

UART1

UART2

UARTS3: Receiver/GPS

set osd\_displayport\_device = MSP set displayport\_msp\_serial =0

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set osd displayport device = MSP

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Receiver Setup Reference Diagram

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**GPS Setting Reference Diagram** 

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**ESC Setting Reference Diagram** 

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HGLRC F460 6S V1 Stack

Then find USER1, click on add range.

resource MOTOR 8 NONE resource PINIO 1 C14

set pinio\_config = 129,1,1,1

**SAVE** 

**BETAFLIGHT** 

**BETAFLIGHT** 

Add Range

FLIP OVER AFTER CRASH

Add Range VTX PIT MODE Add Range

> Add Range USER1

Add Range ACRO TRAINER Add Range VTX CONTROL DISABLE

Add Range

Add Range VTX PIT MOD Add Range

PARALYZE

Add Range ACRO TRAINER

VTX CONTROL DISABLE

HGI RC F460 65 V1 Stack

**Attention** 

Contact us

Open

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Download

**About after-sales** 

repaired, maintenance service can be provided.

3.please contact the after-sales service personnel.

user's guidance

set pinio\_box = 40,255,255,255

(CAM1 to CAM2)

Firstly, open BETAFLIGHT and connect to the flight controller.

After select the channel to set range to 1800-2100, then click save.

Then connect BETAFLIGHT again, click on the mode.

user's guidance

set vcd\_video\_system = HD

UARTS1: Analog VTX/ HD VTX

Digital Video Transmission Setting Reference Diagram

Digital Video Transmission Setting Reference Diagram

Analog video Transmission Setting Reference Diagram

user's guidance

HGLRCF405V2 flight controller supports 4.4 、4.5All firmware

2025-05-15 @13:57:48 – Using cached builds information for https://build.betaflight.com/api/builds/4.5.2/HGLRCF405V2

Show release candidates

Firmware Flasher

HGLRCF405V2

HGLRCF405

HGLRCF411

CRSF

**Custom Defines** 

HGLRCF411ELRS HGLRCF411SX1280

HGLRCF411SX1280\_15A

HGLRCF405AS

HGLRC F460 6S V1 Stack

**BETAFLIGHT** 

user's guidance

% Welcome

Firmware Flasher

GND

Interface definition

user's quidance

- Operating voltage: 7.4V-25.2V (2S-6S) Working current: single-channel rated current 60A,
- ESC firmware: Q-H-40- Bluejay, 0.19, 48kHz Size: 37mm×43mm
- Mounting hole:30.5×30.5mm, M3 Weight:14g