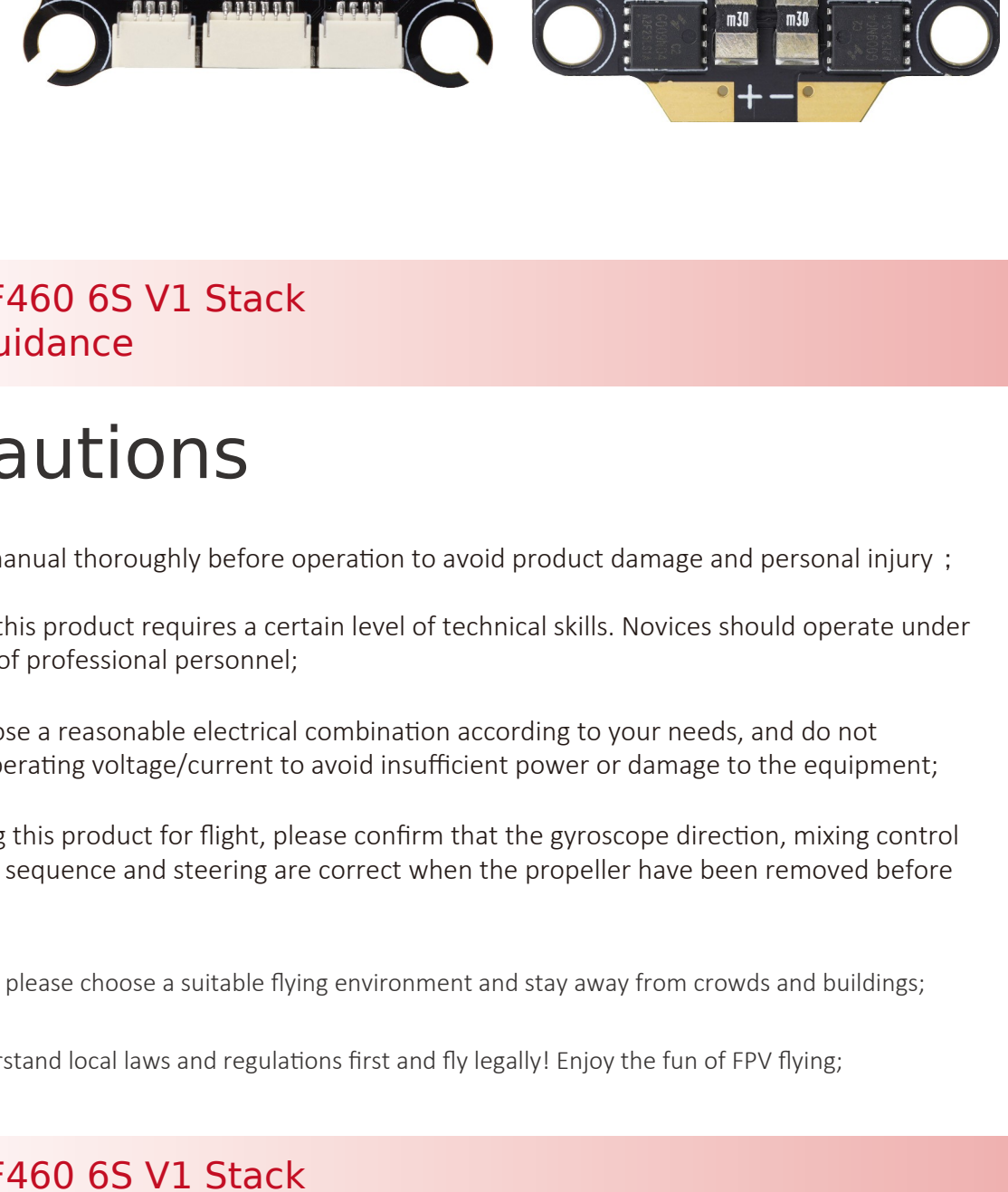




HGLRC F460 6S V1 Manual



HGLRC F460 6S V1 Stack user's guidance



Precautions

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 the guidance of professional personnel;
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;
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 flying;
5. When flying, please choose a suitable flying environment and stay away from crowds and buildings;
6. Please understand local laws and regulations first and fly legally! Enjoy the fun of FPV flying;

HGLRC F460 6S V1 Stack user's guidance



Stack parameters

Product name: HGLRC F460 6S V1 Stack

Mounting hole:30.5x30.5mm M3

Support protocol:DSHOT600/300/150

weight:22.4g

FC parameters

Product name: HGLRC F405 8S V1 FC

Operating voltage:7.4V-33.6V (2S-8S)

MCU : STM32F405

GYRO : ICM42688P

Barometer:SPL06-001

Black box :16MB

Flight control MCU:HGLRCF405V2

Size:36.3x36.3mm

Mounting hole:30.5x30.5mm , M3

Weight:9.5g

ESC parameters

Product name: HGLRC 60A 6S V1 8 BL-S ESC

Operating voltage:7.4V-25.2V (2S-6S)

Working current: single-channel rated current 60A, four-channel maximum current 190A

ESC firmware: Q-H-40- Bluejay, 0.19, 48kHz

Size:37mmx43mm

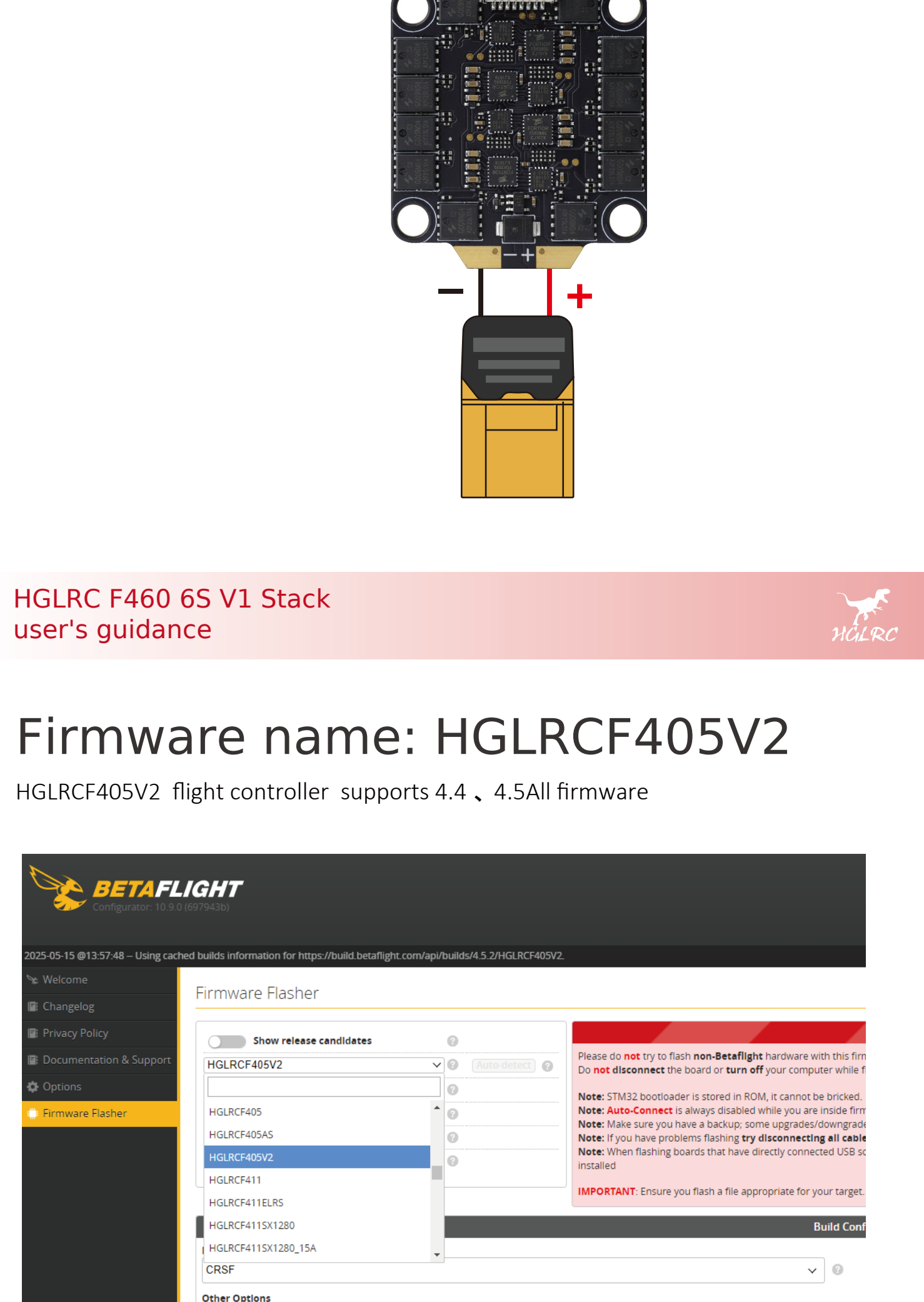
Mounting hole:30.5x30.5mm , M3

Weight:14g

HGLRC F460 6S V1 Stack user's guidance



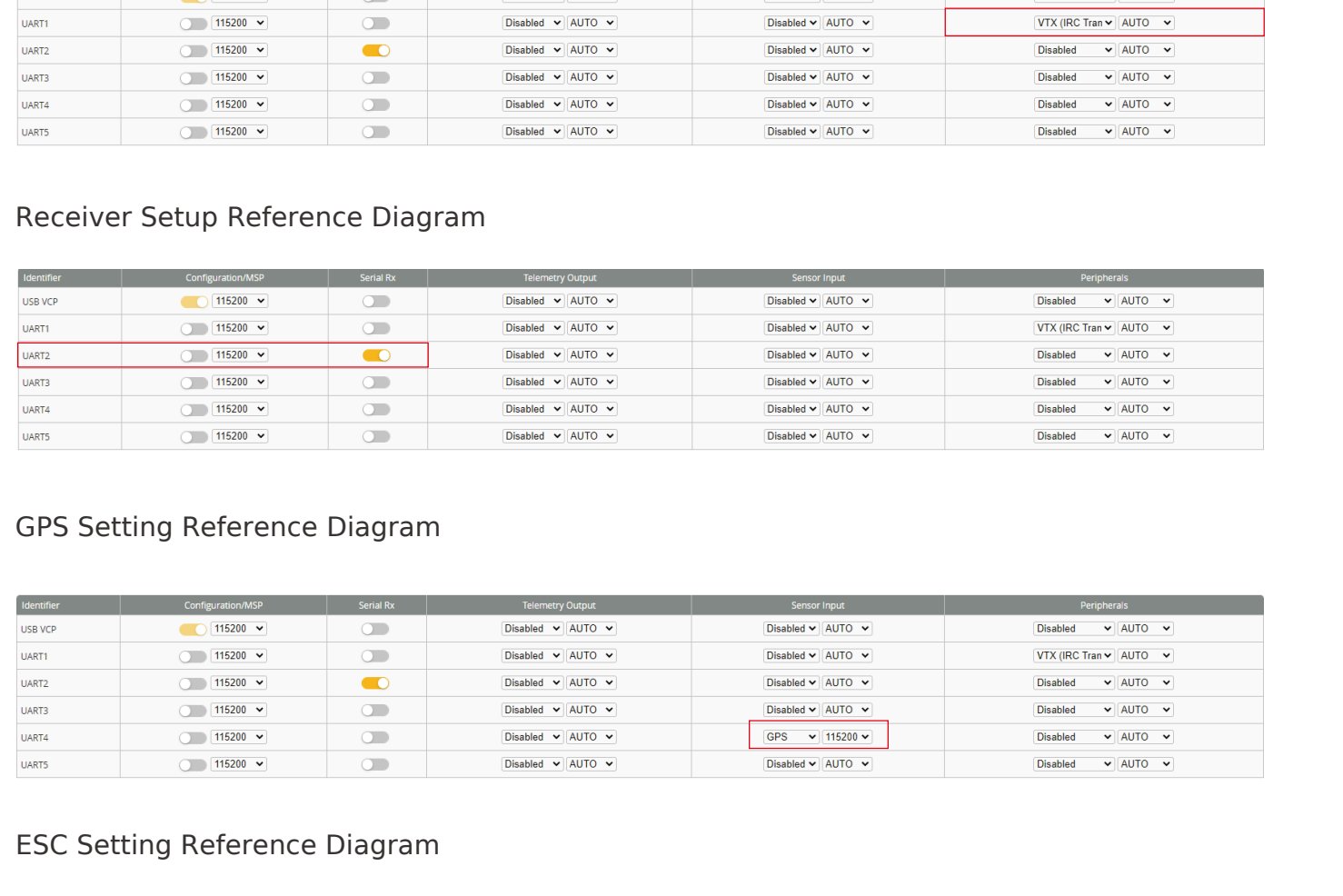
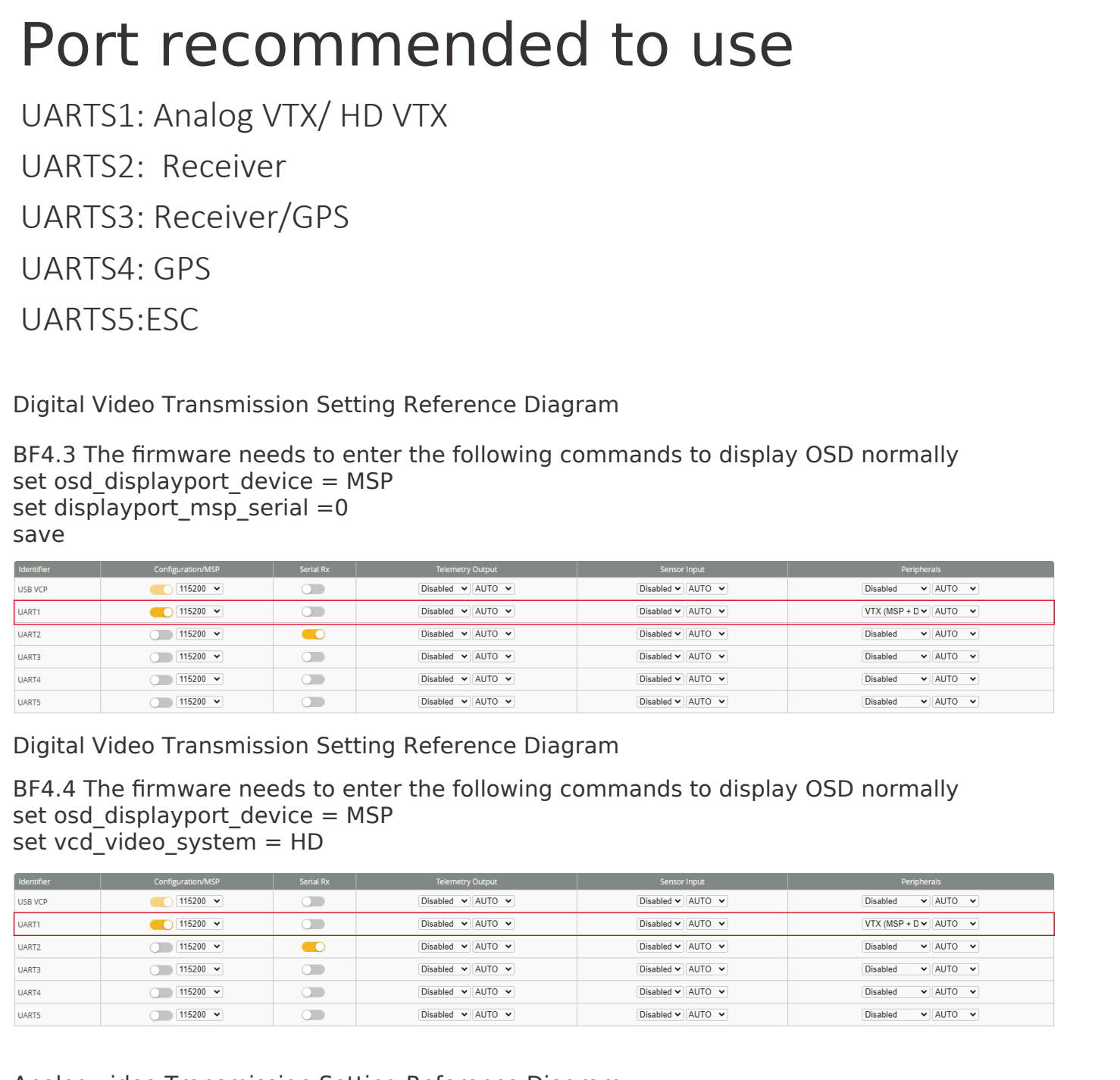
Interface definition



HGLRC F460 6S V1 Stack user's guidance



Wiring diagram

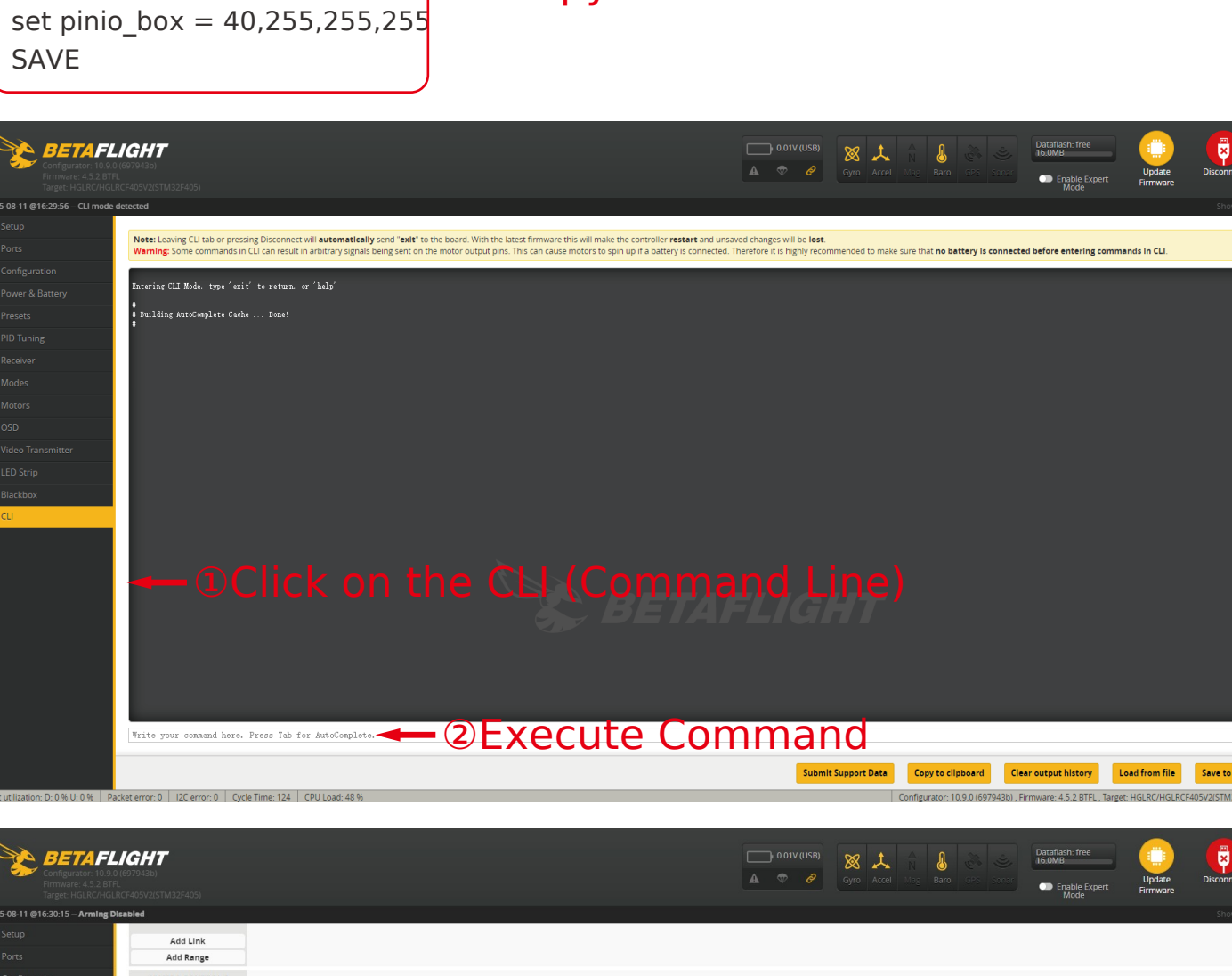


HGLRC F460 6S V1 Stack user's guidance

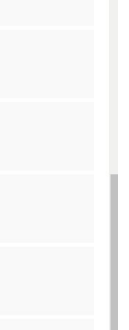


Firmware name: HGLRCF405V2

HGLRCF405V2 flight controller supports 4.4 , 4.5All firmware



HGLRC F460 6S V1 Stack user's guidance



Port recommended to use

UARTS1: Analog VTX/ HD VTX

UARTS2: Receiver/GPS

UARTS3: Receiver/GPS

UARTS4: GPS

UARTS5:ESC

Digital Video Transmission Setting Reference Diagram

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

```
set osd_displayport_device = MSP
set displayport_msp_serial=0
save
```

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

Digital Video Transmission Setting Reference Diagram

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

```
set osd_displayport_device = MSP
set vcd_video_system = HD
```

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

Analog video Transmission Setting Reference Diagram

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

Receiver Setup Reference Diagram

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

GPS Setting Reference Diagram

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

ESC Setting Reference Diagram

UART	Configuration/OSD	Serial No.	Transmitter Output	Serial Invert	Hardware
UART1	115200	115200	Disabled	AUTO	Disabled
UART2	115200	115200	Disabled	AUTO	Disabled
UART3	115200	115200	Disabled	AUTO	Disabled
UART4	115200	115200	Disabled	AUTO	Disabled
UART5	115200	115200	Disabled	AUTO	Disabled

HGLRC F460 6S V1 Stack user's guidance

Camera Switching Procedure (CAM1 to CAM2)

Firstly, open BETAFLIGHT and connect to the flight controller.

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

Then connect BETAFLIGHT again, click on the mode.

Then find USER1, click on add range.

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

```
resource MOTOR 8 NONE
resource PINIO 1 C14
set pinio_conf = 129,1,1,1
set pinio_box = 40,255,255,255
SAVE
```

← Copy this command

HGLRC F460 6S V1 Stack user's guidance

About after-sales

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 detected to be a problem, our company will provide free repair or replacement.
2. If the product is damaged due to improper operation, after inspection, if it can be repaired, maintenance service can be provided.
3. please contact the after-sales service personnel.

Attention

If the manual is unclear you can click the arrow in the upper right corner to download the high-definition PDF version

Contact us

Sincerely thanks for everyone trust! Welcome to choose HGLRC products

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

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