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DJ140 PNP

Manual

User manual and video please visit：WWW.LDARC.COM

PRODUCT>>多旋翼>>带卡录HD套机>>DJ140

DJ140 manual

DJI FPV Digital

RunCam 4K

191213

Configuration

Description

Wheelbase：148mm
Drone weight：204.6g(DJ140-Digital)
176.8g(DJ140-4K)
152.6g(DJ140)
Package size : 214*184*90mm
Package weight：641g(DJ140-Digital)
589g(DJ140-4K)
573.8g(DJ140)
Bumper：2.8 inch all surround
Plate thick： up plate 2.5mm，bottom plate 3mm
Camera angle：15-50°
Mounting size：Flytower 20*20mm，motor Φ9mm M2*9，
camera 19mm/20mm

KK tower new name

KKT16 mounting size 16*16mm
KKT20 mounting size 20*20mm
KKT30 mounting size 30.5*30.5mm

Configuration

FC：KKT20-F411　　Old name：F411+OSD（KK tower part）
ESC：KKT20-E20A　　Old name：ESC 20A（KK tower part）
DJ140-Digital : DJI FPV Digital+Camera
DJ140-4K : RunCam 4K+KKT20-V200
DJ140：NO CAM+VTX
Motor : XT1305-3600KV
Prop : 2840-3blade
Battery : 14.8V 650mAh
Receiver：DJ140-Digital（Include DJI RX，it canable to use DJI transmitter），
FC can use AC2000，XM+ etc. receiver，it canable to use Frsky，
Futaba etc. transmitter

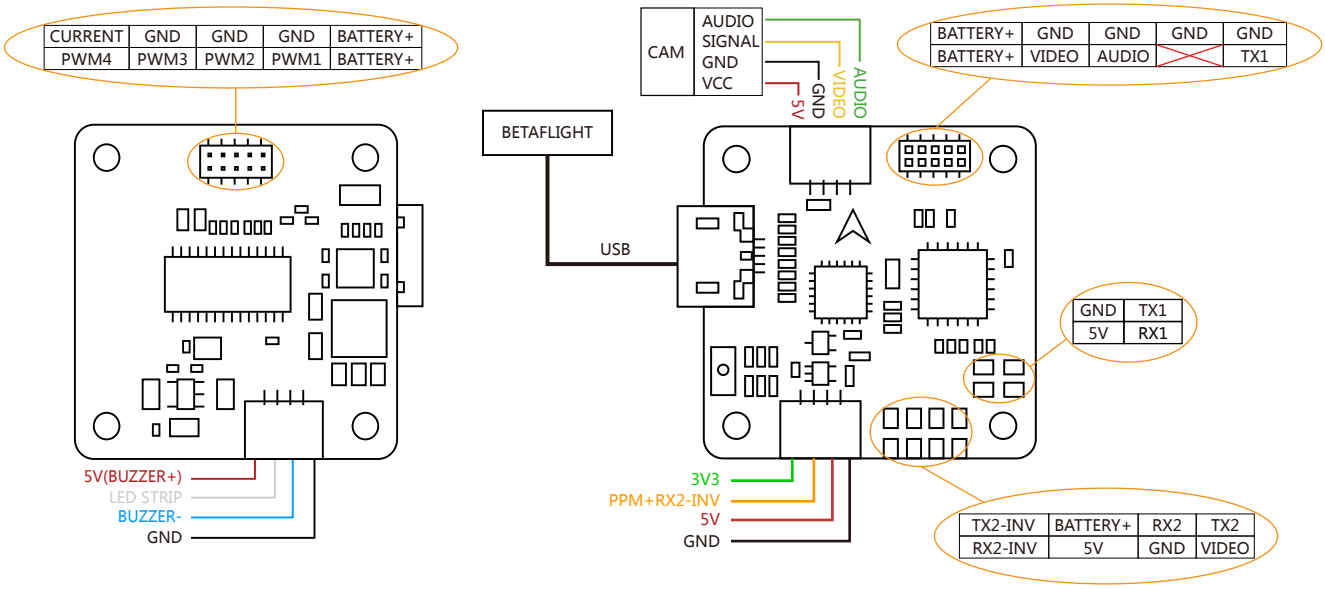
Package list

DJ140-Digital
DJ140-Digital PNP*1
DJ FPV manual*2
2840-3blade*10pairs
14.8V 650mAh*1
Sticker*2
Battery strap*1
Fixed seat*6
Damper*6（blue,red,clear both 2pcs）
Antenna rack*1
ST2*6*2
Video rack*2
ST1.2*4*4
M2*6*4

DJ140-4K
DJ140-4K PNP*1
RunCam 4K manual card*1
2840-3blade*10pairs
14.8V 650mAh*1
Sticker*2
Battery strap*1
Fixed seat*6
Damper*6（blue,red,clear both 2pcs）
Antenna rack*1
ST2*6*2
Video rack*2
ST1.2*4*4
M2*6*4

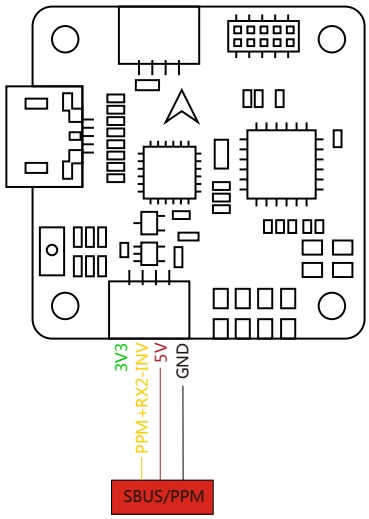
DJ140
DJ140 PNP*1
2840-3blade*10pairs
14.8V 650mAh*1
Sticker*2
Battery strap*1
Fixed seat*6
Damper*6（blue,red,clear both 2pcs）
Antenna rack*1
ST2*6*2
Video rack*2
ST1.2*4*4
M2*6*4

Pin definition



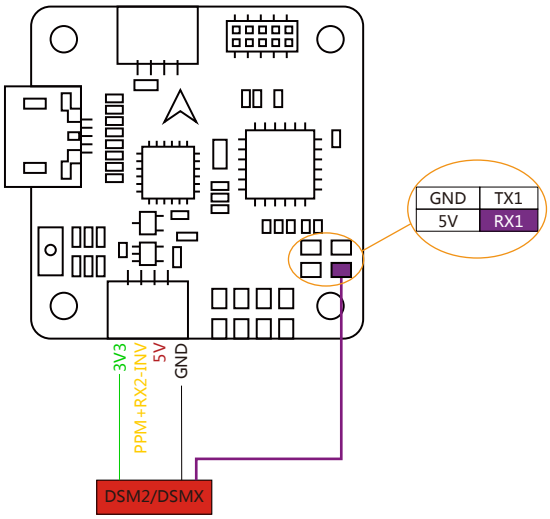
S.BUS and PPM receiver connection

Supply voltage is 5V
PPM or invert RX2 signal input



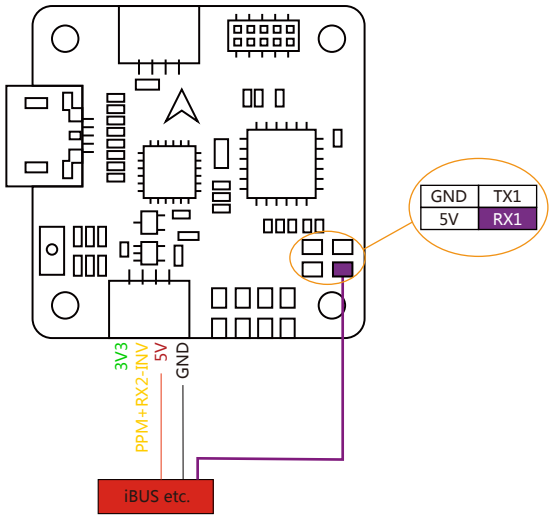
DSM2 and DSMX receiver connection

Supply voltage is 3.3V
NOT invert RX1 signal input



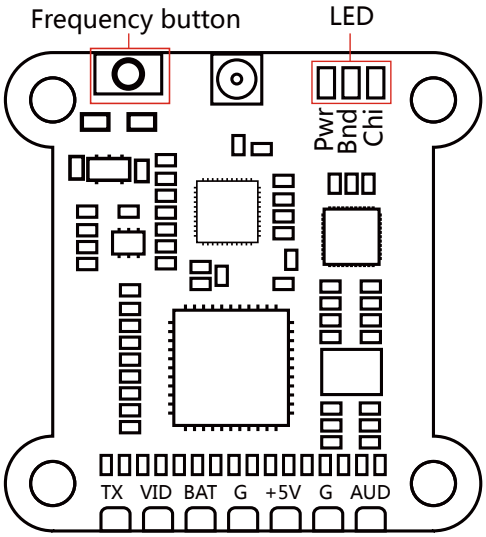
iBUS receiver connection

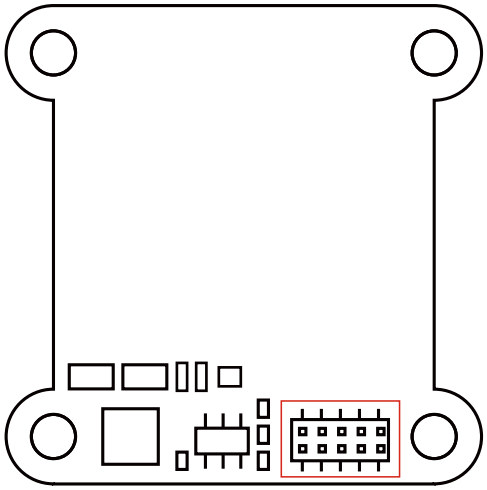
Supply voltage is 5V
NOT invert RX1 signal input



VTX(IRC-Tramp)

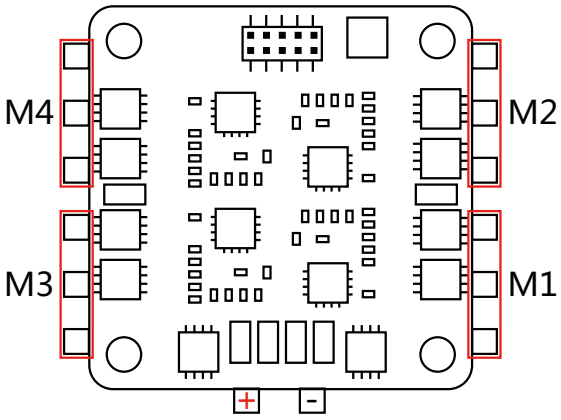
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band H	5658	5695	5732	5769	5806	5843	5880	5917
Band R	5362	5400	5436	5473	5510	5547	5584	5620



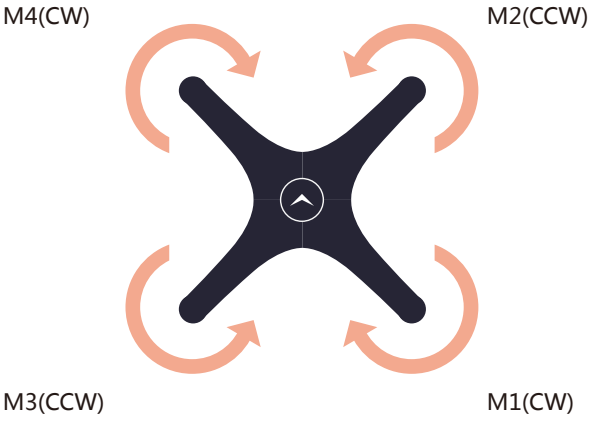


Bule LED is channel (CH) indicator,flash 1~8 times mean CH-1~8.Green LED is band(BD) indicator,flash 1~6 times mean BAND-A~F,Red is output power(PW)indicator,flash 1~3 times mean 25mW/100mW/200mW output power. In normal working state,quickly double-click button,R/G/B sync flash mean VTX turned off,and also quickly double -click can turn on the VTX.in normal working state,press and hold the key for 3s,only blue led flashes,now click the key change channel(CH).press and hold the key for 3s,only blue green flashes,now click the key change band(BD) . press and hold the key for 3s,only red led flashes,now click the key change output power(PW).

ESC

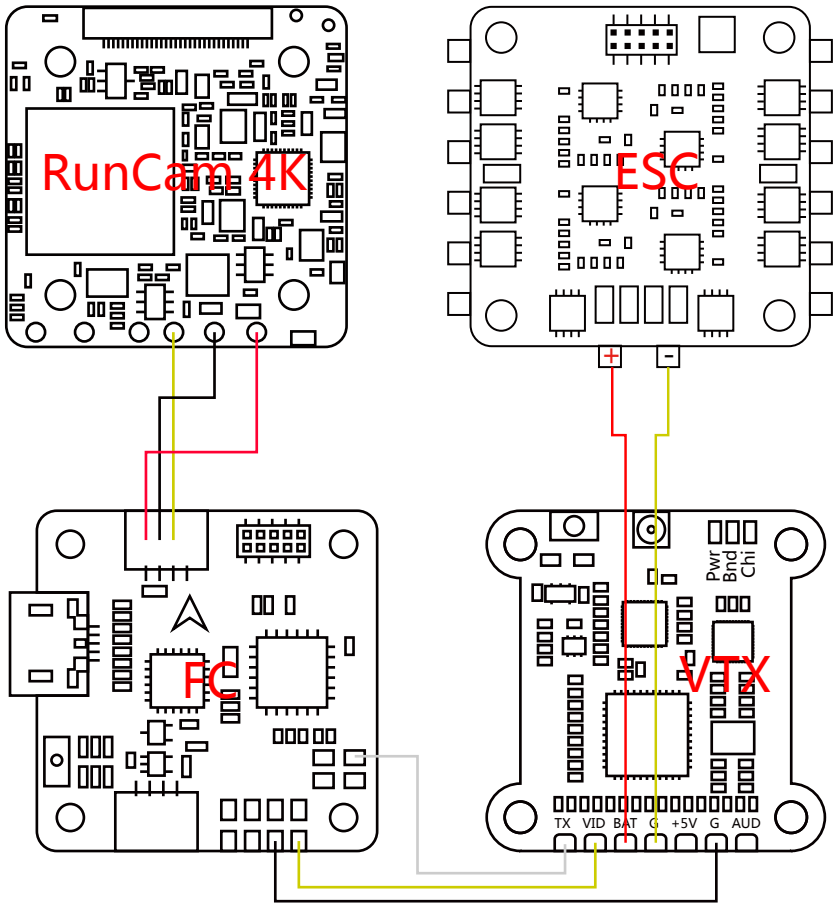


Motor

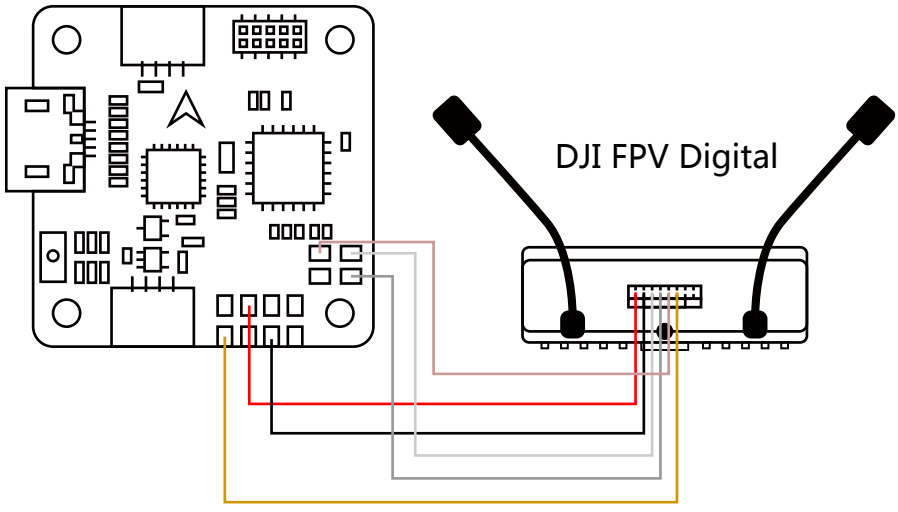


Note:pay attention to the direction of rotation of the motor when installing the prop

DJ140-4K pin definition

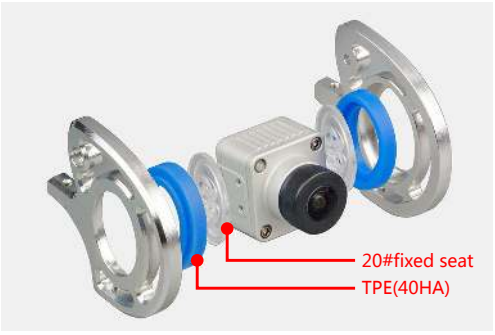


DJ140-Digital pin definition

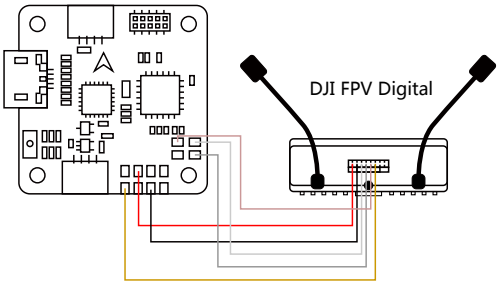


1.Remove the upper plate, and then stick the EVA on the upper plate

2.Remove the aluminum parts, then refer the picture to install the camera



3. Weld the DJI FPV cable to the FC



4.The antenna is pre-installed with heat shrink tube

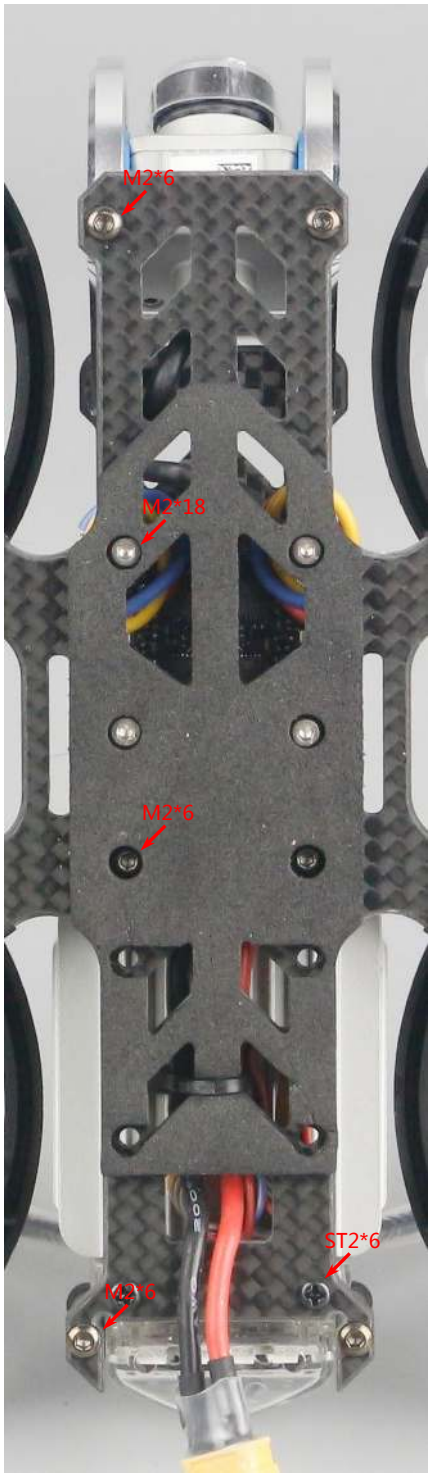
5. Install antenna and connect DJI FPV Digital

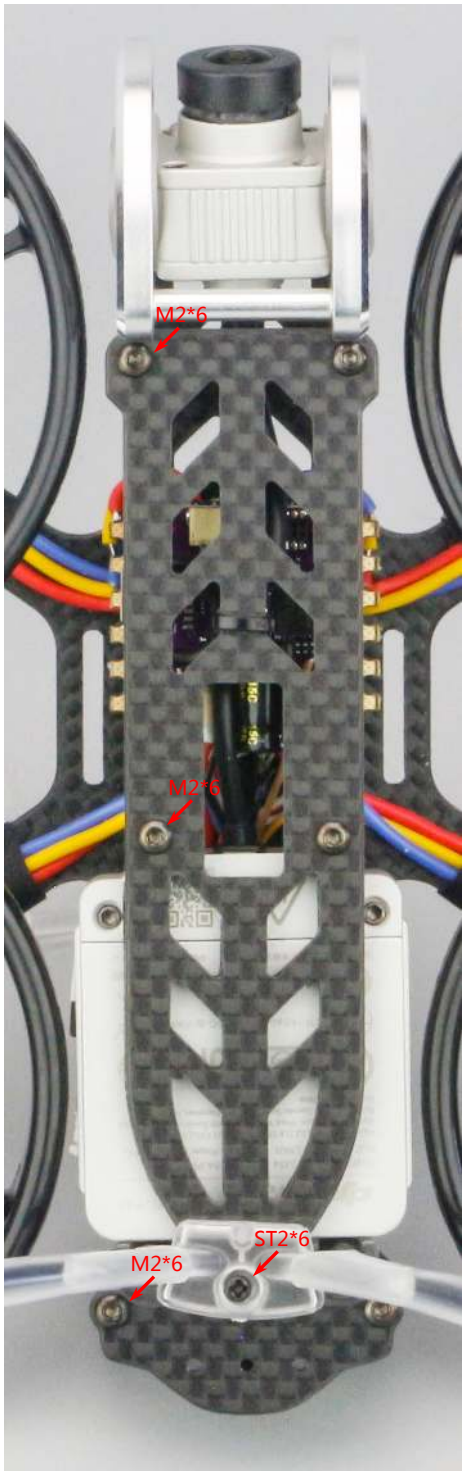
6.Install DJI FPV Digital

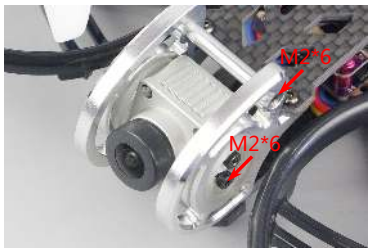
7.Install DJI FPV upper plate

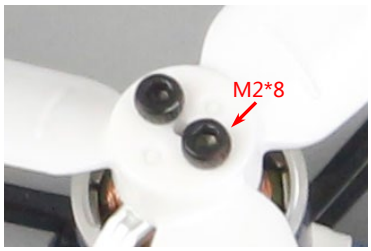
8.Install antenna fixed seat

Mounting screw	







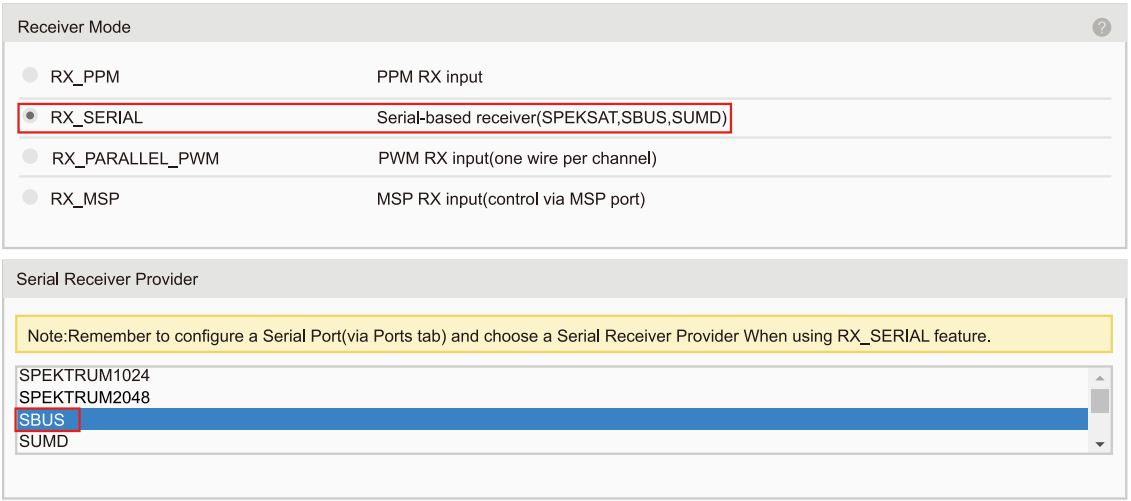


AC900(S-FHSS+D16) bind,transmitter(FRSKY X9D/Futaba T18SZ)

Bind:Check receiver mode before bind,the first blink after power on indicate the setting, ■is S-FHSS, ■is D16

FUTABA S-FHSS BIND:Turn on the TX then power on AC900 while pressing the key, green LED fast blink meaning already in bind mode, user can release the key. Bind procedure is completed and the receiver is working normally when green LED is solid

FRSKY D16(NO Telemetry) BIND:Power on AC900 while pressing the key, green LED fast blink meaning already in bind mode, user can release the key, then set your TX into D16 bind mode. red LED solid meaning bind finished, exit TX from bind mode, receiver’ s green LED solid meaning working normally



FM800 bind (default S.BUS, nonsupport PPM), example (FUTABA T8FG)

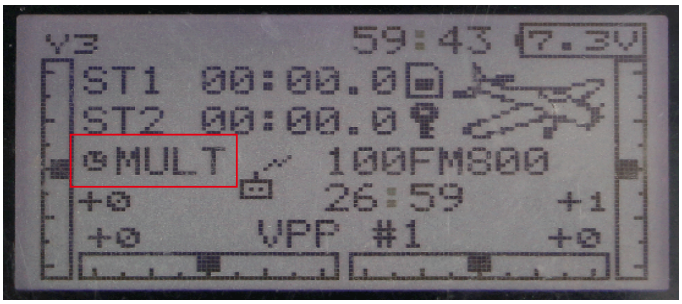
1. Open remote control, hold receiver bind button to power
2. Green light constant lighting means bind success

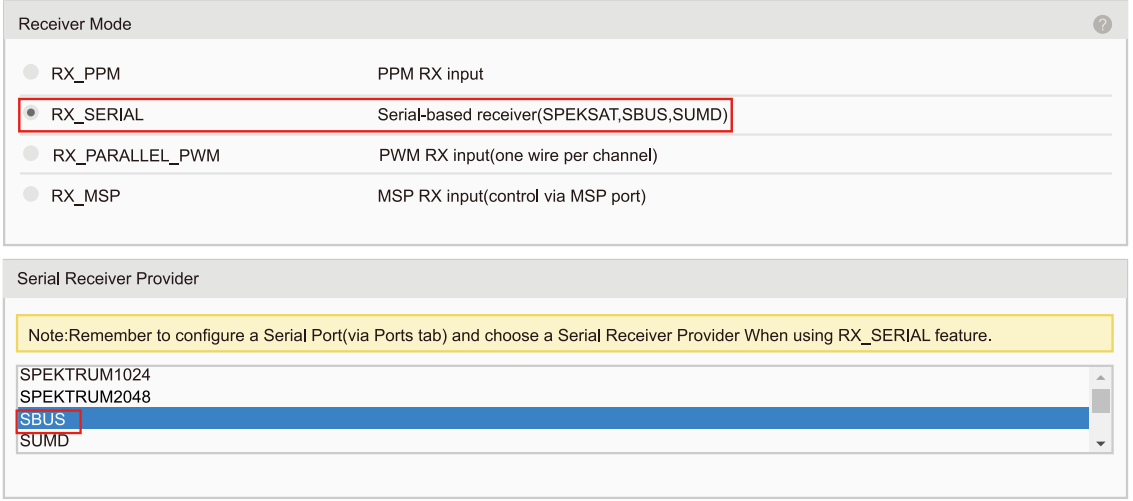
Note:

S.BUS and CPPM mode switch

Close remote control, press bind button 6S when red light flash, loosen until enter S.BUS and CPPM mode switch

1. Green light quick flashing, press bind button and disconnect power, power-on again, enter S.BUS mode
2. Green light slow flash, press bind button and disconnect power, power-on again, enter PPM mode





DSM bind, example (T-SIX)

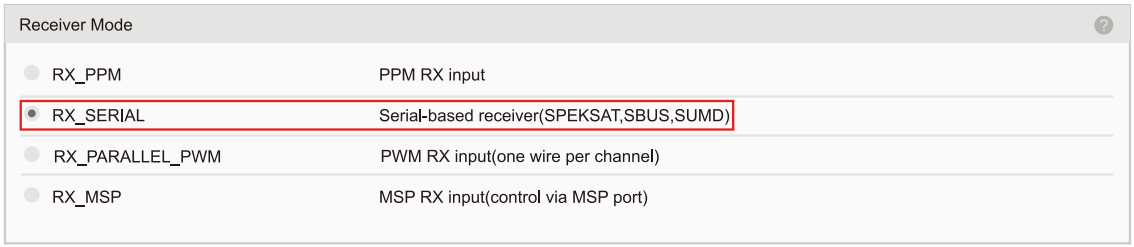
1. Remote control in off state, bind button to power
2. Loosen until indicator light fast blink, enter to bind mode
3. Open remote control bind mode, indicator light constant lighting means bind success

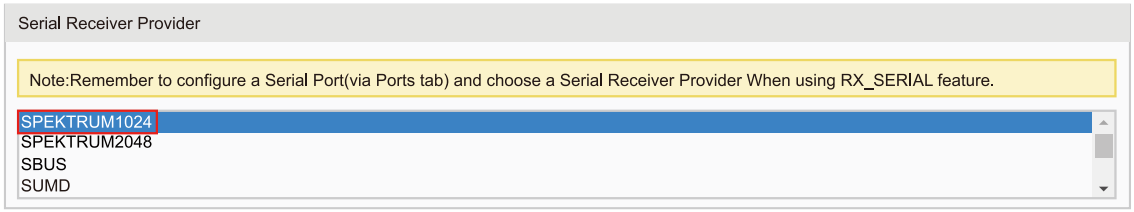
Note 1:

DSM2 uses SPEKTRUM1024 or SPEKTRUM2048 protocol， according to the remote control model to choose corresponding serial port protocol (example T-SIX, set protocol as SPEKTRUM1024)

Note 2:

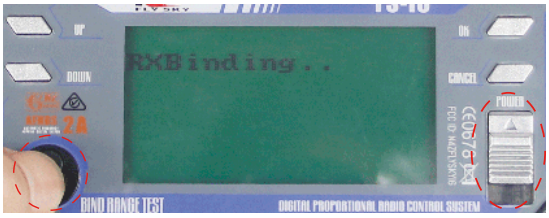
DSMX remote control bind to DSM2 and DSMX receiver, but DSM2 remote control only bind to DSM2 receiver.
DSM2: Old SPEKTRUM and JR remote control protocol, widely-used with good compatibility.
DSMX: Newest SPEKTRUM remote control protocol, DSMX backwards compatible DSM2.

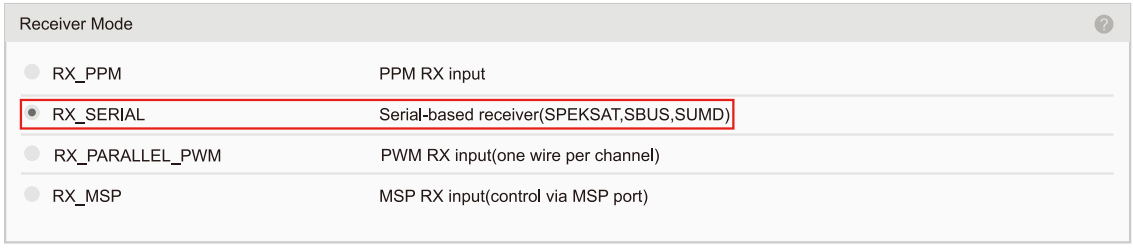


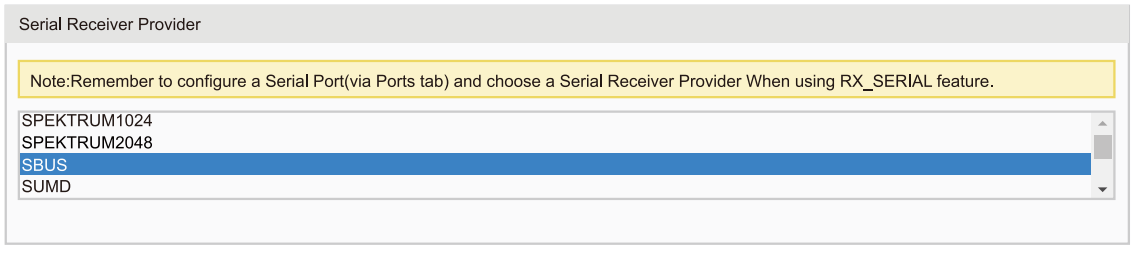


RX2A PRO Bind(S.BUS),transmitter(FLYSKY FS-i6)

BIND:Power on the receiver while pressing the key,green LED fast blink meaning already in bind mode, user can release the key,then set your TX into bind mode.Green LED turn off and red LED solid mean bind finished, exit TX from bind mode,receiver'sgreen LED solid mean working normally.



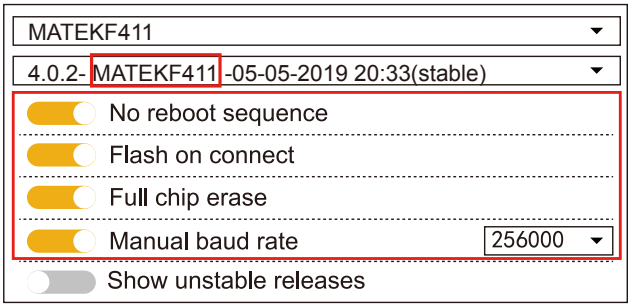




Firmware Update

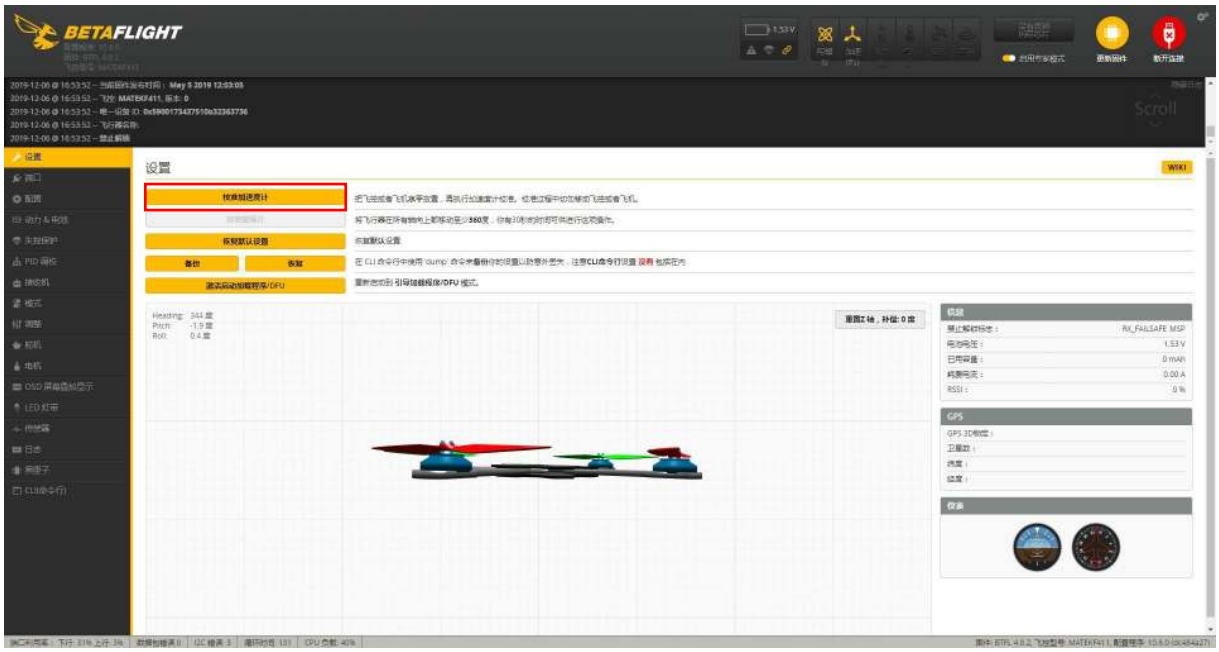
BETAFLIGHT firmware allready flash before leave the factory,user just need connect PC to adjust the parameter

1.Open betaflight configuration ,then click Firmware Flasher ,select FW version

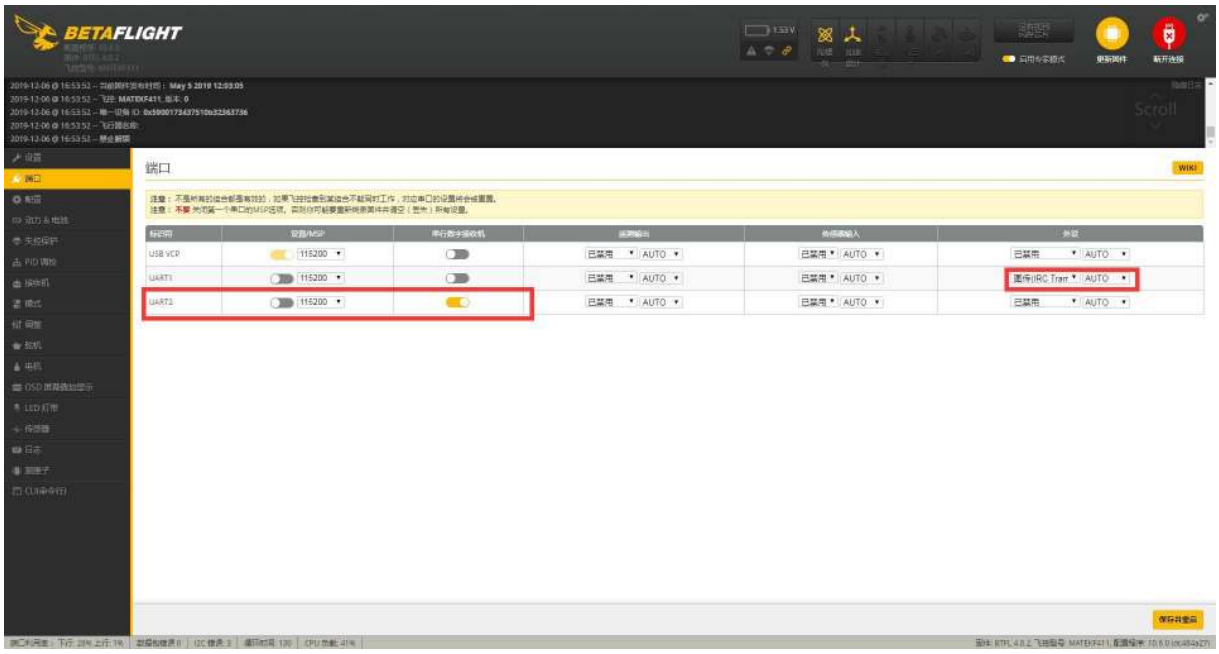


2.Click Load Firmware[Online] ,then click Flash Firmware to download FW to FC, click after FW updating finish into setting menu

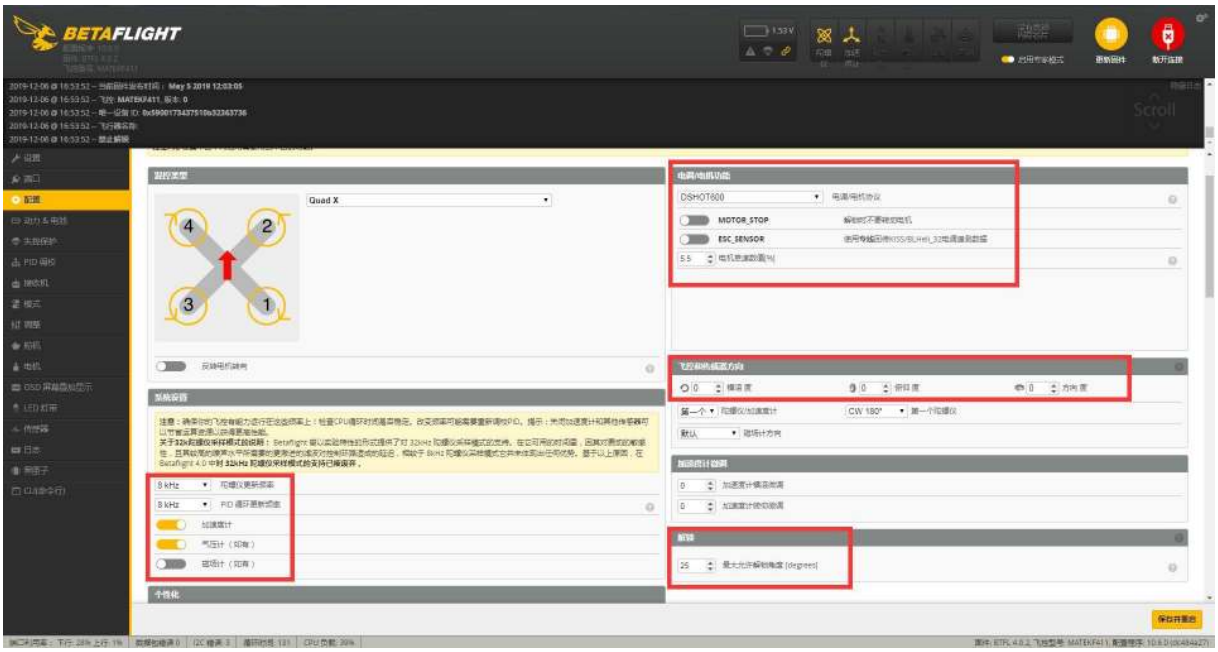
3.Calibration “Calibrate Accelerometer”

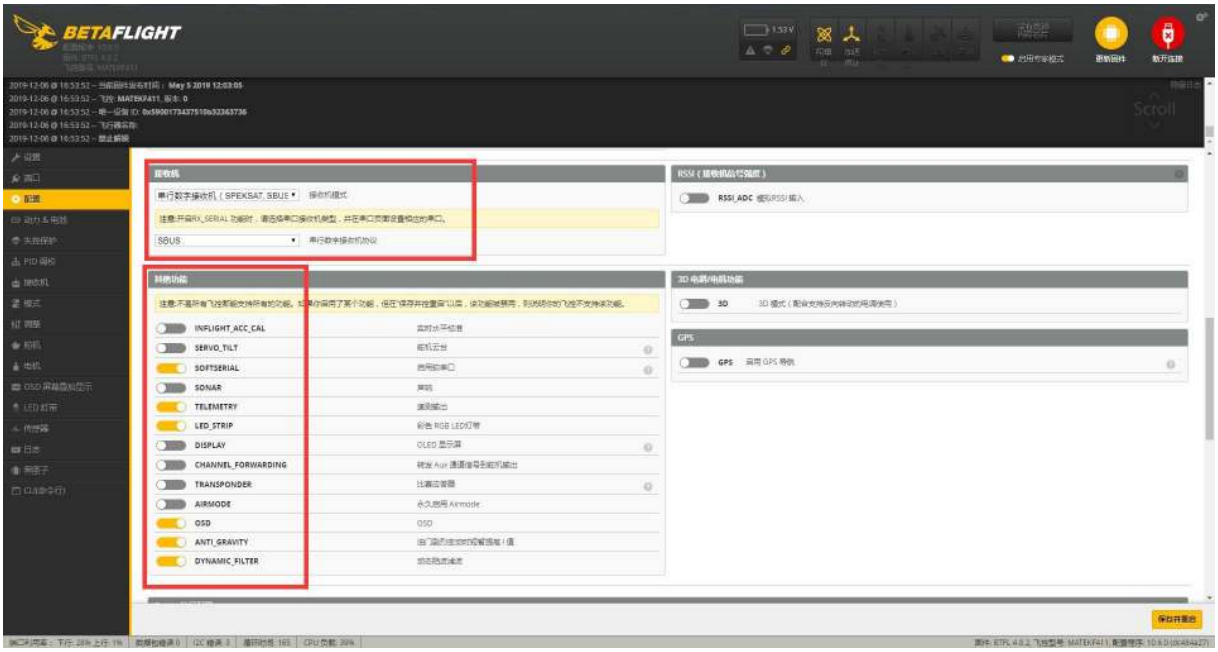


4.Port，open UART2 switch

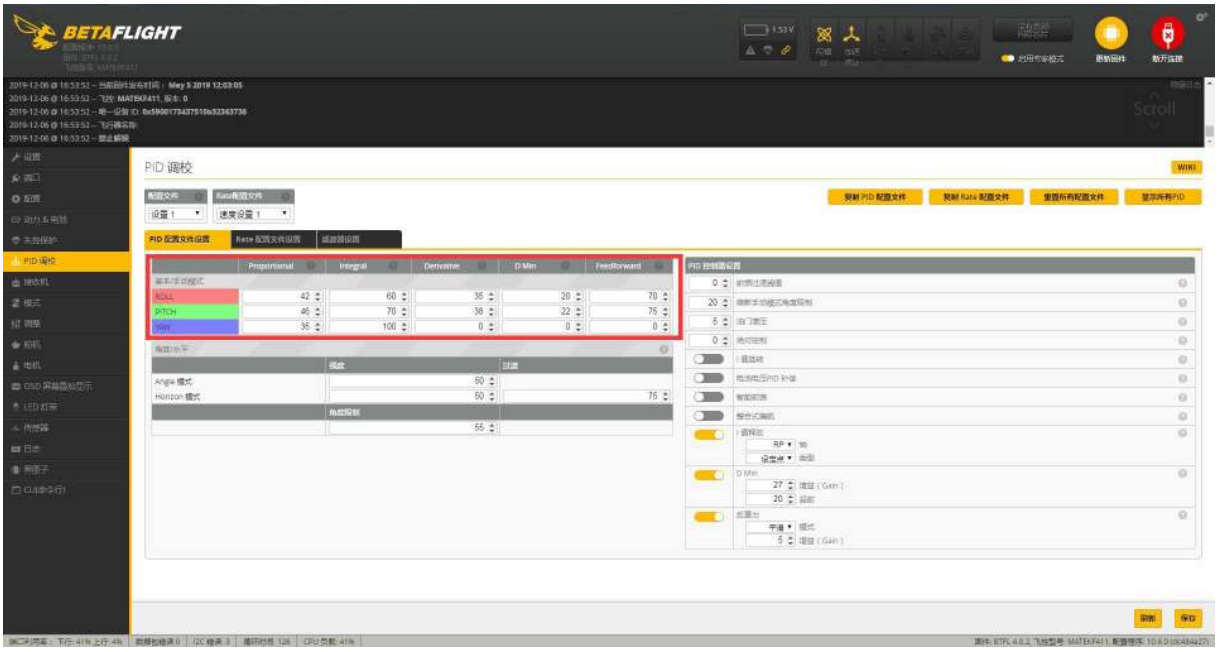


5.Select ESC protocol is DSHOT600,then follow the steps to set up

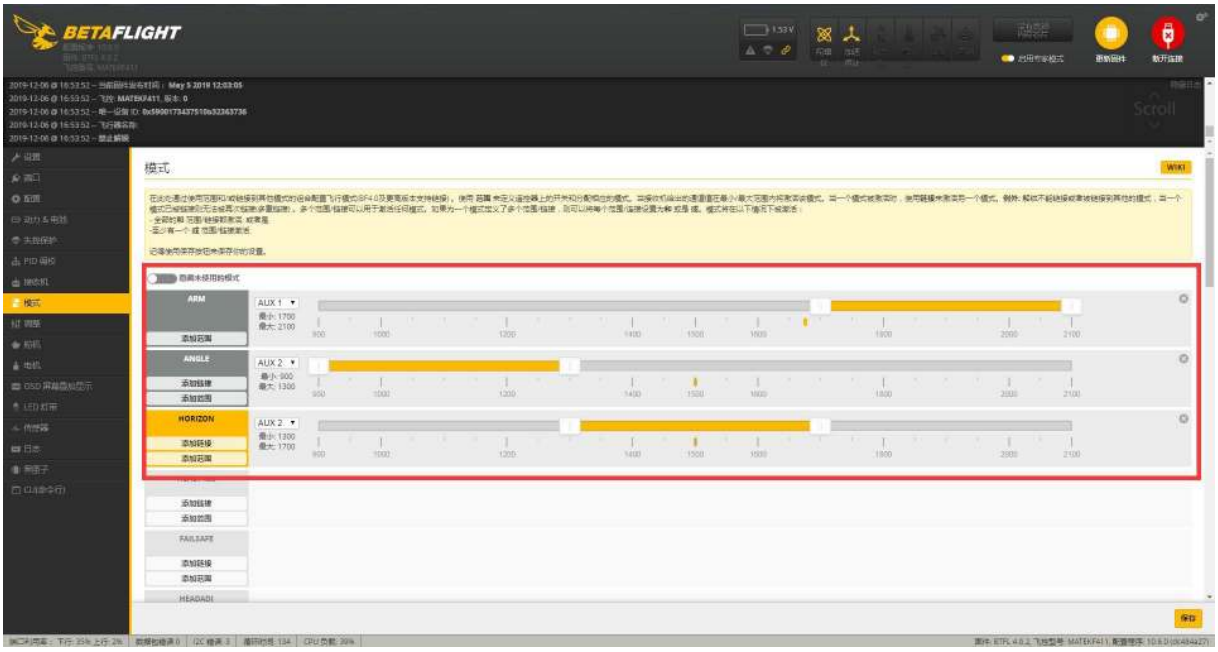




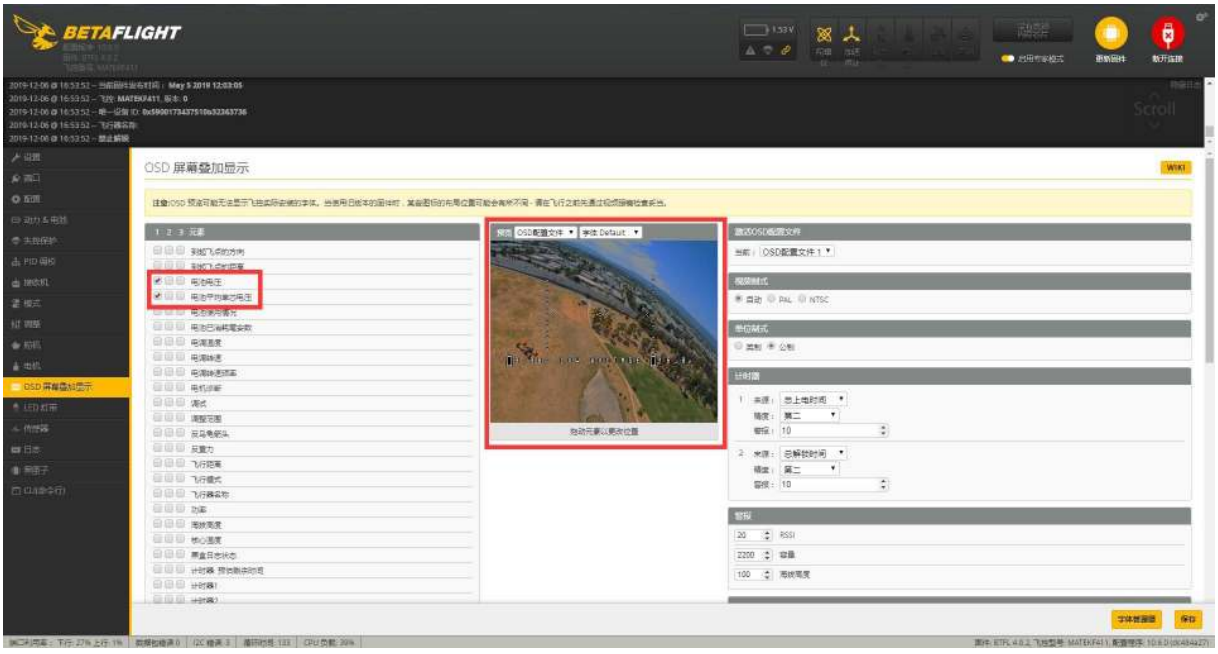
6.PID setting

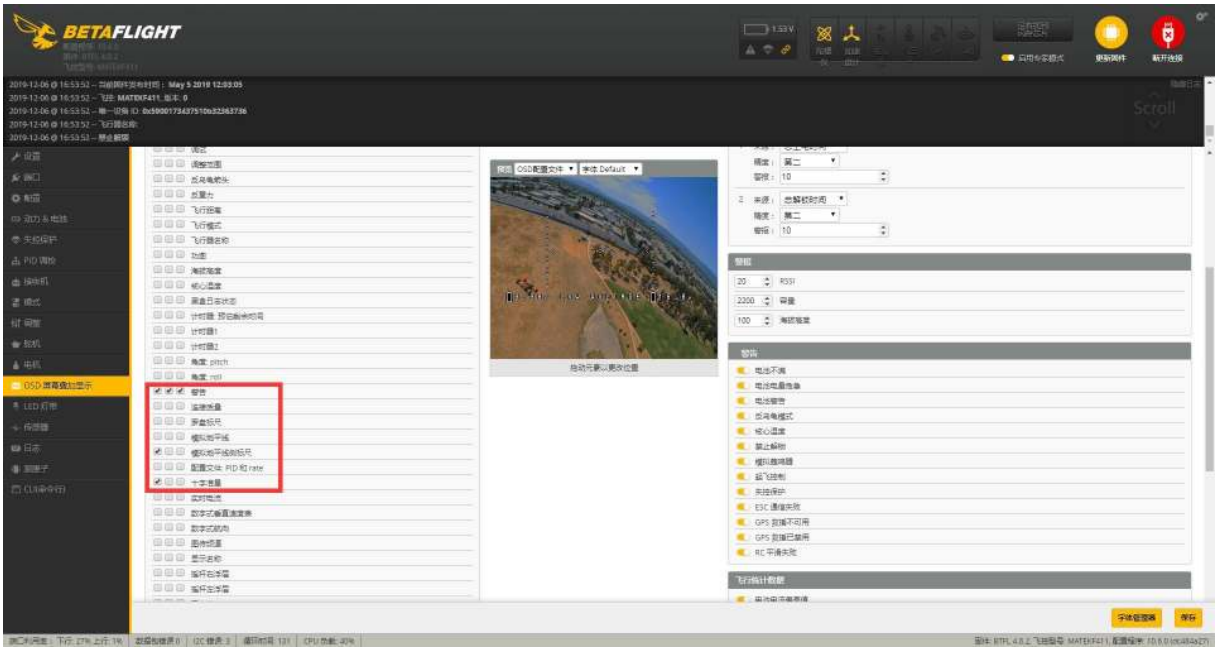


7.Mode setting

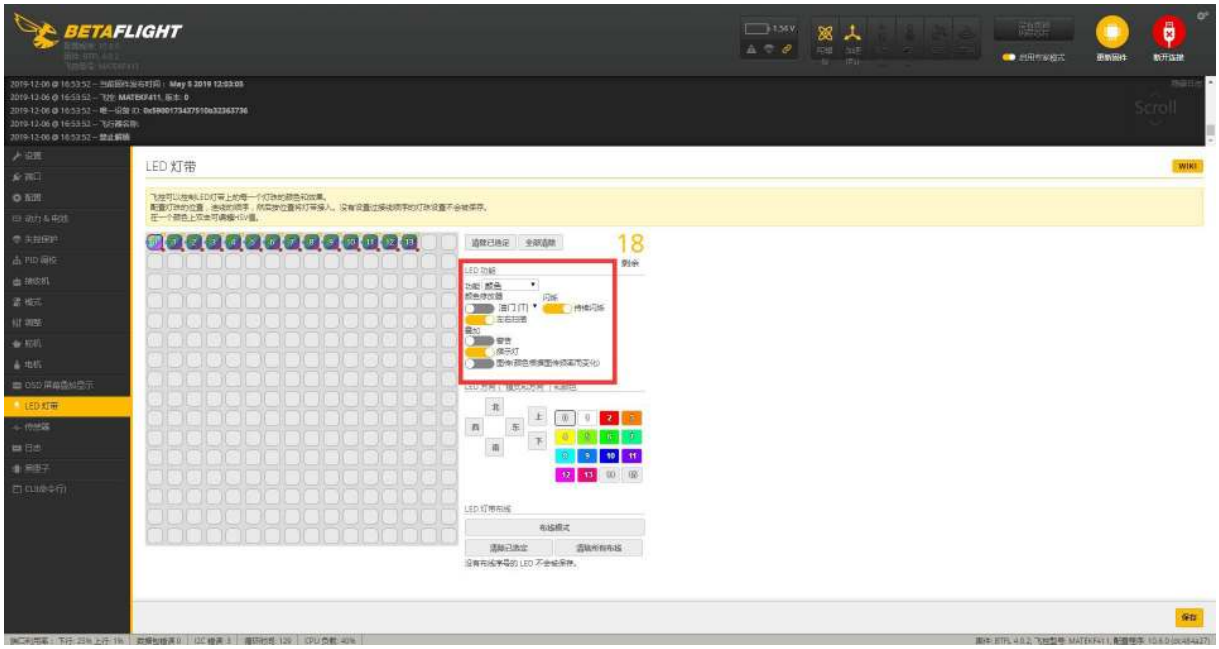


8.OSD setting





9.LED setting



Product and Factory Code

Name	Factory Code
DJ140-Digital	PNP.DJ140-DIGITAL
DJ140-4K NO RX	PNP.DJ140-4K.NO RX
DJ140	PNP.DJ140
DJ140 KIT	KIT.DJ140
14.8V 650mAh 50C	BAT.14.8V 650MAH 50C
2.8 inch all surround bumper	2.8 INCH PROTECTOR BUMPER(ALL)
DJ140 carbon plate	PART.DJ140 CARBON PLATE
DJ series aluminum frame	PART.DJ SERIES ALUMINUM FRAME
2840-3blade	PROP.2840.3.WHITE
XT1305-3600KV	MOTOR.XT1305-3600KV
KKT20-B3	FLYTOWER.KKT20-B3
KKT20-F411	FC.KKT20-F411
KKT20-E20A	ESC.KKT20-E20A
KKT20-V200	VTX.KKT20-V200
KKT20 2-layer screw	PART.KKT20 2-LAYER SCREW
KKT20 wire	PART.KKT20 WIRE

After Sale Service

1.Provide free reparation service when find the product defect after purchase.
2.Provide pay-needed reparation service when product damage because improper operation.
3.China customers please contact with the after-sales service,overseas client please contact the dealer.

PNP/RTF Test report ID :

Flight test

- ☐ Transmitter functions properly
- ☐ Flying in good condition
- ☐ Camera OK
- ☐ VTX OK

QC: _____

Package check

- ☐ PNP
- ☐ RTF
- ☐ Frame
- ☐ Transmitter
- ☐ ID is the same
- ☐ All parts of the installation
- ☐ Insulating sleeves have been installed manual
- ☐ Complete accessories,total ____packages

QC: _____