LDARC®
WWW.LDARC.COM

☐NO RX ☐FM800 ☐RX2A PRO ☐DSM2 ☐AC900(S-FHSS+D16)
☐ET100 V2 PNP ☐ET115 3S PNP ☐ET125 V2 PNP

ET V2/3S Series

Instruction manual

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

Note: 2S configuration using 3S battery will cause damage to electronic equipment			
Name	ET100 V2	ET115 3S	ET125 V2
Flytower 20*20(V2)	F3+OSD FC+4in1 ESC 12A BLHeliS		
Receiver	FM800,RX2A PRO,DSM2,AC900(S-FHSS+D16)		
Camera	OV231(800TVL 150° NTSC)		
VTX	Q100 VTX(25mW/100mW 16CH)		
Input Voltage	Only 2S	2-3S	Only 2S
Weight (not include battery&receiver)	78.6g	96.4g	96.7g
Wheelbase	100mm	115mm	125mm
Motor	XT1103-7800KV	XT1104-5500KV	XT1104-7500KV
Battery	7.4V 450mAh 80C(JST)	11.1V 600mAh 50C(XT30)	7.4V 550mAh 80C(JST)
Prop	1935	2345	2840

ET100 V2 Configuration

ET100 V2

Wheelbase：100mm

Flytower 20*20(V2)：

F3+OSD

4in1 12A BLheliS

VTX：Q100(25mW/100mW 16CH)

Camera：OV231(800TVL 150° NTSC)

Motor：XT1103-7800KV

Prop：1935

Battery：7.4V 450mAh 80C(JST)

Voltage：7.4V

Weight：78.6g(not include battery and receiver)

Receiver：FM800,RX2A PRO,DSM2 ,
AC900(S-FHSS+D16)

Package List

PNP*1

Suitcase*1

1935 Prop*4Pairs
(Color random)

7.4V 450mAh 80C*1(JST)

ET Canopy× 1

ET100 V2/115 3S
Red Canopy× 1

ET100 V2/115 3S
Clear Black Canopy× 1

Paper Stickers*1

ET115 3S Configuration

ET115 3S

Wheelbase：115mm

Flytower 20*20(V2)：

F3+OSD

4in1 12A BLheliS

VTX：Q100(25mW/100mW 16CH)

Camera：OV231(800TVL 150° NTSC)

Motor：XT1104-5500KV

Prop：2345

Battery：11.1V 600mAh 50C(XT30)

Voltage：11.1V

Weight：96.4g(not include battery and receiver)

Receiver：FM800,RX2A PRO,DSM2，AC900(S-FHSS+D16)

Package List

PNP*1

Suitcase*1

2345 Prop*4Pairs
(Color random)

11.1V 600mAh 50C*1(XT30)

ET Canopy× 1

ET100 V2/115 3S
Red Canopy× 1

ET100 V2/115 3S
Clear Black Canopy× 1

Paper Stickers*1

ET125 V2 Configuration

ET125 V2

Wheelbase：125mm

Flytower 20*20(V2)：

F3+OSD

4in1 12A BLheliS

VTX：Q100(25mW/100mW 16CH)

Camera：OV231(800TVL 150° NTSC)

Motor：XT1104-7500KV

Prop：2840

Battery：7.4V 550mAh 80C(JST)

Voltage：7.4V

Weight：96.7g(not include battery and receiver)

Receiver：FM800,RX2A PRO,DSM2，AC900(S-FHSS+D16)

Package List

PNP*1

Suitcase*1

2840 Prop*4Pairs
(Color random)

7.4V 550mAh 80C*1(JST)

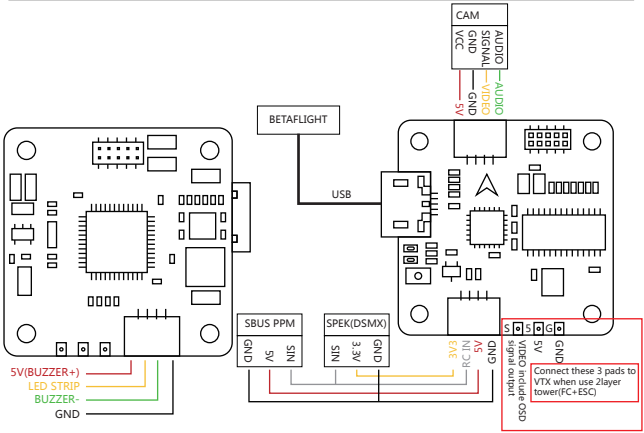
ET Canopy× 1

ET125 V2
Red Canopy× 1

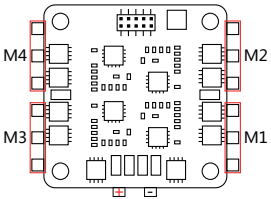
ET125 V2
Clear Black Canopy× 1

Paper Stickers*1

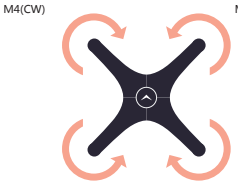
FC



ESC

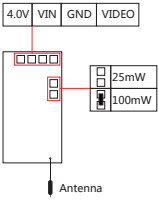


Motor

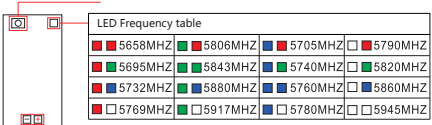


Note:pay attention to the direction of rotation of the motor when installing the prop

VTX



Click the key change frequency point



LED Frequency table

5658MHZ	5806MHZ	5705MHZ	5790MHZ
5695MHZ	5843MHZ	5740MHZ	5820MHZ
5732MHZ	5880MHZ	5760MHZ	5860MHZ
5769MHZ	5917MHZ	5780MHZ	5945MHZ

+	VIN
-	GND

2S-4S Lipo 7V-18V

Q100-Mini 25mW/100mW 16CH VTX (2S-4S Lipo 7V-18V)
L=28mm,W=11mm,Weight=2.5g(Without camera and wire)

Please attention ventilation cooling

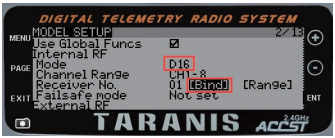
Receiver Bind

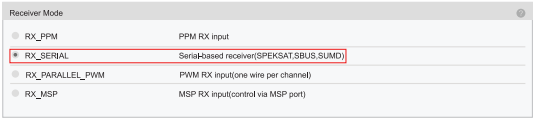
AC900(S-FHSS+D16) bind,transmitter(FRSKY X9D/Futaba T18SZ)

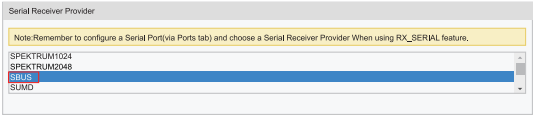
Bind:Check receiver mode before bind,the first blink after power on indicate the setting, ■is S-FHSS, ■is D16

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







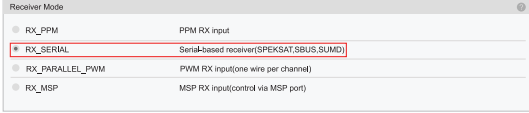
RX2A PRO Bind(S.BUS),transmitter(FLYSKY FS-i6)

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’s green LED solid mean working normally.

FAILSAFE:Support 2 failsafe mode,press the key and hold 3s while receiver working normally can switch failsafe mode.Please make sure failsafe is working correctly before use the receiver!
Failsafe mode 1: ■ After 1s when lost transmitter signal,S.BUS keep output,throttle will 988us,all other channels will 1500us.
Failsafe mode 2: ■After 1s when lost transmitter signal,S.BUS not output,user should setting related parameters to ensure flight controller handle failsafe.

STATUS LED ：LED of RX2A-PRO blink twice then solid when power on,the meaning as follow

First blink(air system)	Second blink(failsafe mode)	Then solid(signal status)
■ AFHDS2A air system	■ Failsafe mode 1	■ No signal
	■ Failsafe mode 2	■ Signal received



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

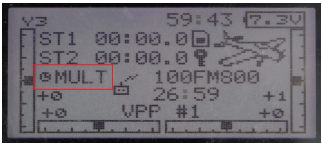
1. Open remote control, hold receiver bind button to power
2. Green light constant lighting means bind success

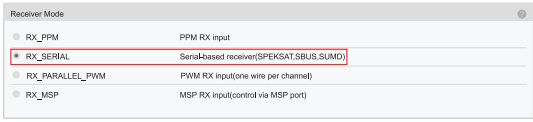
Note:

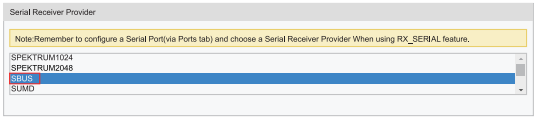
S.BUS and CPPM mode switch

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)

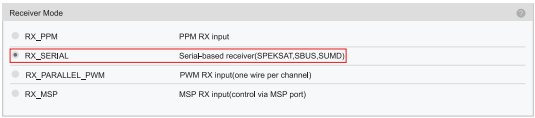
1. Remote control in off state, bind button to power
2. Loosen until indicator light fast blink, enter to bind mode
3. Open remote control bind mode, indicator light constant lighting means bind success

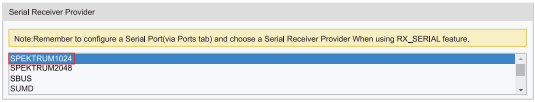
Note 1:

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.





Product and Factory Code

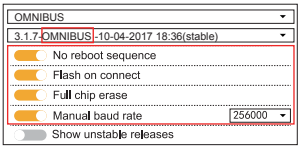
Name	Factory Code	Name	Factory Code
ET100 V2 PNP NO RX	PNPET100 V2.NO RX	1935 Prop	PROP.1935.3.WHITE
ET100 V2 PNP AC900	PNPET100 V2.AC900	2345 Prop	PROP.2345.3.WHITE
ET100 V2 PNP FM800	PNPET100 V2.FM800	2840 Prop	PROP.2840.3.WHITE
ET100 V2 PNP RX2A PRO	PNPET100 V2.RX2A PRO	Battery 7.4V 450mAh 80C	BAT.7.4V 450MAH 80C
ET100 V2 PNP DSM2	PNPET100 V2.DSM2	Battery 7.4V 550mAh 80C	BAT.7.4V 550MAH 80C
ET100 V2 KIT	KIT.ET100 V2	Battery 11.1V 600mAh 50C	BAT.11.1V 600MAH 50C
ET115 3S PNP NO RX	PNPET115 3S.NO RX	Carbon fiber plate(ET100 Part)	PART.BOTTOM PLATE.ET100
ET115 3S PNP AC900	PNPET115 3S.AC900	Carbon fiber plate(ET115 Part)	PART.BOTTOM PLATE.ET115
ET115 3S PNP FM800	PNPET115 3S.FM800	Carbon fiber plate(ET125 Part)	PART.BOTTOM PLATE.ET125
ET115 3S PNP RX2A PRO	PNPET115 3S.RX2A PRO	XT1103-7800KV	MOTOR.XT1103-7800KV
ET115 3S PNP DSM2	PNPET115 3S.DSM2	XT1104-7500KV	MOTOR.XT1104-7500KV
ET115 3S KIT	KIT.ET115 3S	XT1104-5500KV	MOTOR.XT1104-5500KV
ET125 V2 PNP NO RX	PNPET125 V2.NO RX	Flytower 20*20(V2)	FLYTOWER.20*20(V2)
ET125 V2 PNP AC900	PNPET125 V2.AC900	4in1 ESC 12A(KK Tower Part)	ESC.KK TOWER 12A
ET125 V2 PNP FM800	PNPET125 V2.FM800	F3+OSD FC(V2)	FC.F3+OSD(FLYTOWER 20*20 V2)
ET125 V2 PNP RX2A PRO	PNPET125 V2.RX2A PRO	2 Layer Tower Screw(KK Tower Part)	PART.KK TOWER SCREW(2 LAYER)
ET125 V2 PNP DSM2	PNPET125 V2.DSM2	Wire(KK Tower Part)	PART.KK TOWER WIRE
ET125 V2 KIT	KIT.ET125 V2	ET100 V2/115 3S Canopy	PART.ET100 V2/115 3S CANOPY
OV231	CAM.OV231	ET125 V2 Canopy	PART.ET125 V2 CANOPY
Q100 VTX	VTX.Q100	1.9 inch black propeller protector (all surround)	PART.1.9 PROTERTOR ALL.BLACK
LED+Buzzer(ET V2/3S Part)	PART.LED+BUZZER(ET V2/3S PART)	2.3 inch black propeller protector (all surround)	PART.2.3 PROTERTOR ALL.BLACK
Air Cowling(Φ5 M2)	PRRT.AIR COWLING(Φ5 M2)	2.8 inch black propeller protector (all surround)	PART.2.8 PROTERTOR ALL.BLACK

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

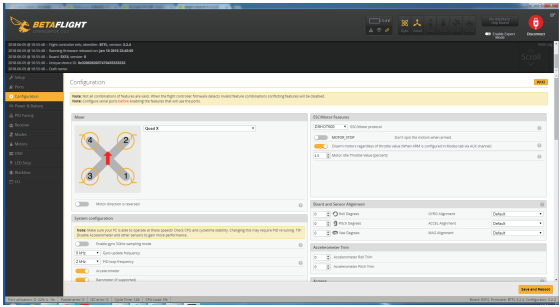


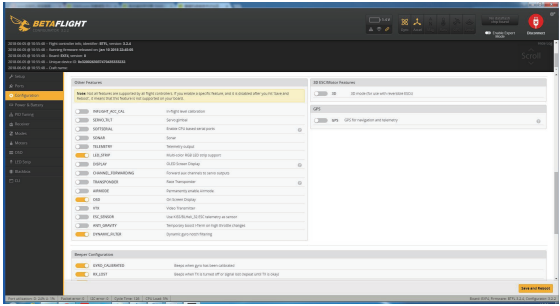
2.Click Load Firmware[Online] ,then click Flash Firmware to download FW to FC, click after FW updating finish into setting menu

3.Calibration "Calibrate Accelerometer"

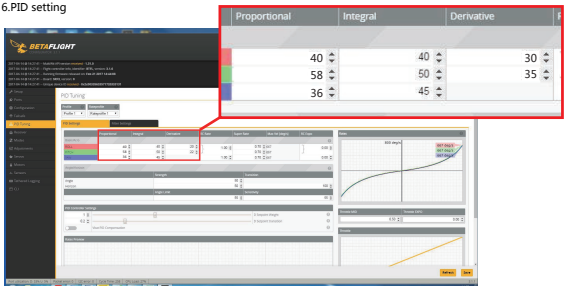
4.Selected UART3,then open "Serial RX" switch and saved

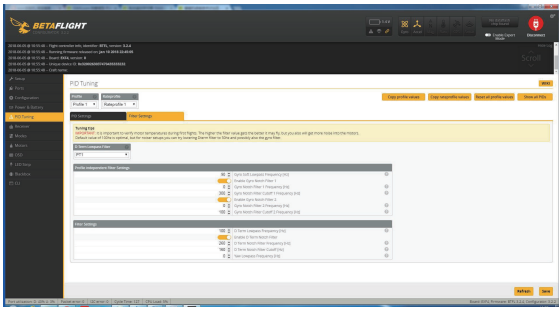
5.Configuration，select ESC protocol "DSHOT600" ，Set up the receiver protocol，then open LED,OSD and DYNAMIC_FILTER



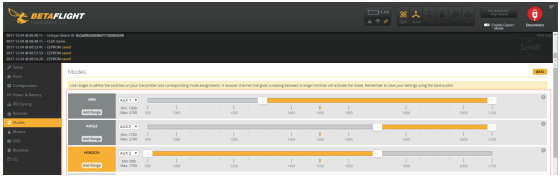


6.PID setting





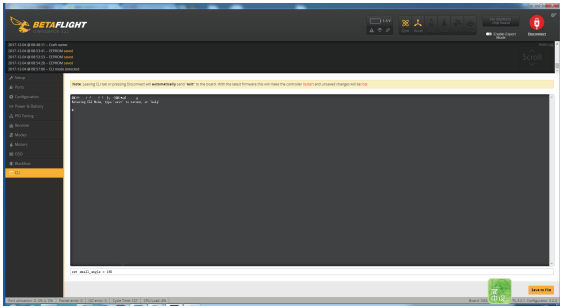
7.Default setting of receiver is 5th channel ARM(AUX1),6th channel mode switching(AUX2)



FLIP OVER AFTER CRASH please upgrade the firmware to 3.2.1 version first,then set by BETAFLIGHT

8.Setting 7th channel mode switching(AUX2).

9.Input "set small_angle = 180 ",then set



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: _____