

ET MAX

Instruction manual

User manual and video please visit:

WWW.LDARC.COM

ET MAX Configuration

Wheelbase : 185mm

KK Tower :

F4+OSD

4in1 20A BLheliS

OFF/25/100/200mW 48CH

Camera : (1200TVL 1/3' COMS NTSC)

Motor : MB2204-2250KV

Prop : 4*4.5*3

Weight : 283g(not include battery and receiver)



Pack List



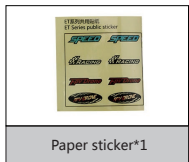
PNP × 1



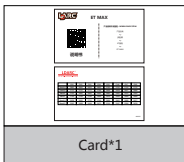
4*4.5*3 × 10 Pairs



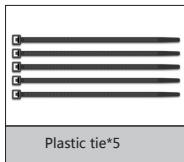
Magic tape*1



Paper sticker*1



Card*1

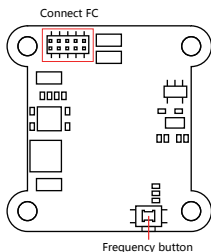
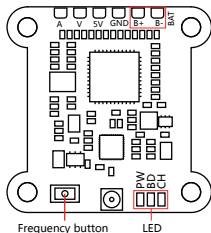
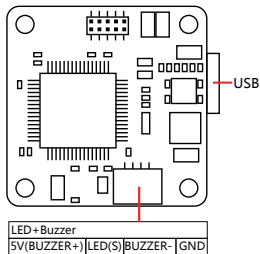
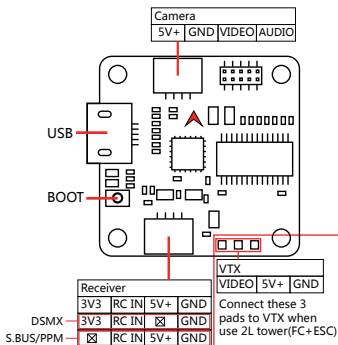
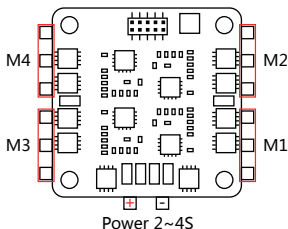
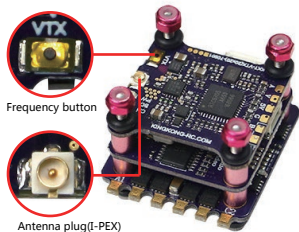


Plastic tie*5

Frequency Table

	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

KK Tower



Blue 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).

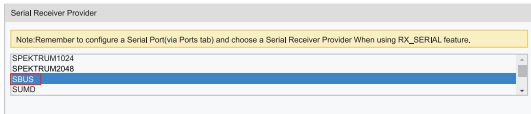
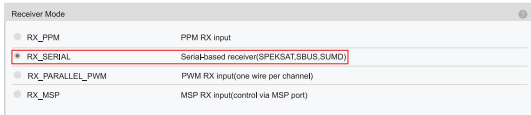
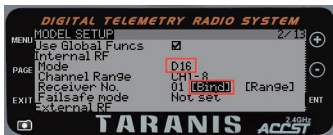
Receiver Bind

AC900(S-FHSS+D16 non-EU) 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(non-EU)

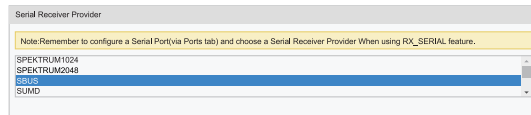
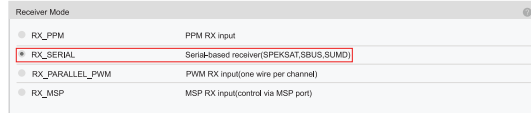
FUTABA S-FHSS BIND:Turn on the TX then power on AC900 while pressing the key, green LED fast blink meaning already in bind mode, user can release the key. Bind procedure is completed and the receiver is working normally when green LED is solid

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.



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

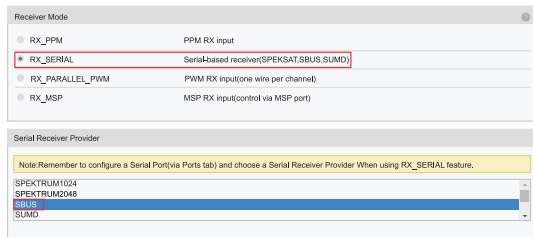
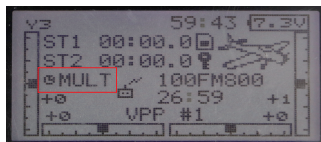
1. Open remote control, hold receiver bind button to power
2. Green light constant lighting means bind success

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:

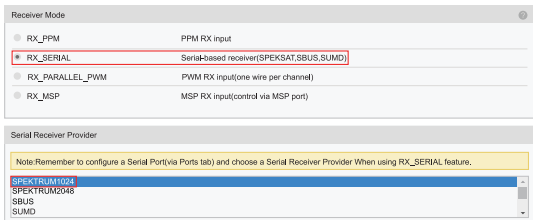
DSM2 uses SPEKTRUM1024 or SPEKTRUM2048 protocol, according to the remote control model to choose corresponding serial port protocol (example T-SIX, set protocol as SPEKTRUM1024)

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.



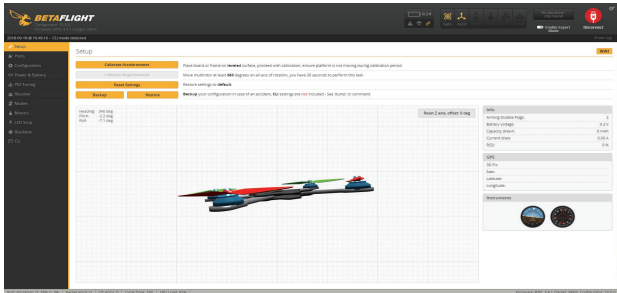
Product and Factory Code

Name	Factory Code
ET MAX PNP	PNPET MAX
ET MAX KIT	KIT.ET MAX
ET MAX Canopy	PART.ET MAX CANOPY
C1200 Camera	CAM.C1200
MB2204-2250KV(CW)	MOTOR.MB2204-2250KV(CW)
MB2204-2250KV(CCW)	MOTOR.MB2204-2250KV(CCW)
KK Tower(3 Layer) 20A	FLYTOWER.KK TOWER(3 LAYER) 20A
4in1 ESC 20A(KK Tower part)	ESC.KK TOWER 20A
F4+OSD(KK Tower part)	FC.KK TOWER(F4+OSD)
VTX(KK Tower part)	VTX.KK TOWER
Wire(KK Tower part)	PART.KK TOWER WIRE
3 Layer Tower Screw(KK Tower part)	PART.KK TOWER SCREW(3 LAYER)
4*4.5*3 Prop(clear black)	PROP.4*4.5*3
4 Inch propeller bumper	PART.4 INCH PROPELLER BUMPER
Carbon plate(ET MAX part)	PART.BOTTOM PLATE.ET MAX
LED+Buzzer(ET V2/3S part)	PART.LED+BUZZER(ET V2/3S PART)

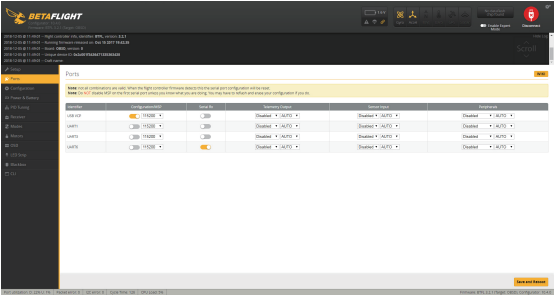
Factory setting

The factory has already load the firmware, default angle mode, please set directly

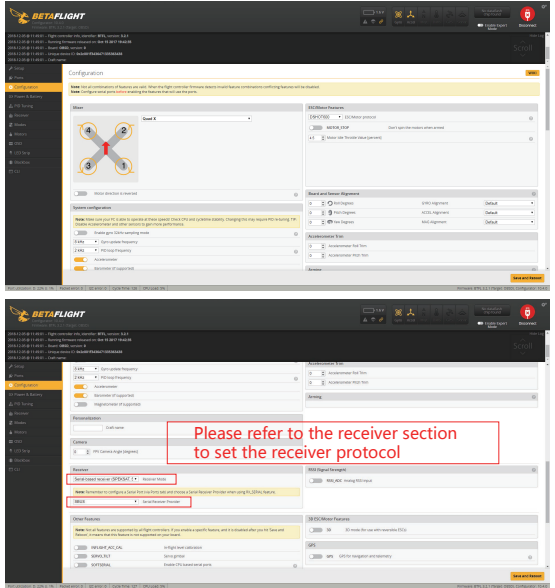
1. Open Betaflight
2. Click "Calibrate Accelerometer"

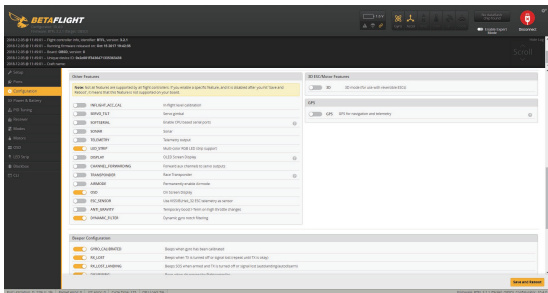


3.Prot,open UART6 switchable and saved



4.Select ESC protocol "DSHOT600" , set up the receiver protocol, open LED_STRIP,OSD,DYNAMIC_FILTER





5. PID setting

BETAFLIGHT
configuration v3.10.0 (beta) (beta)

2018-12-08 11:00:00 - Flight controller info: identifier: BFL, version: 3.2.1
2018-12-08 11:00:00 - Running firmware revision on Oct 18 2017 19:42:05
2018-12-08 11:00:00 - Board: STM32, version: 4
2018-12-08 11:00:00 - Unique device ID: 84620770267133333333
2018-12-08 11:00:00 - Load: none

PID Tuning

Basic: Not all features are supported by all flight controllers. If you enable a specific feature, it will be disabled after you hit 'Save' and 'Reboot', to ensure that the features are not supported by your board.

2D PID Feature Settings

☐ 2D: 2D mode for use with i2c interface 2D2

GPS

☐ GPS: GPS for navigation and telemetry

Beeper Configuration

☐ BEEPER_ENABLED: Beep when pins have been calibrated
Beep when 70% of pins are at target level (use this value)
Beep 50% when armed and this sums up all signal not exceeding 50% of pins
Beep 10% when armed and this sums up all signal not exceeding 10% of pins
Beep when the motor is at 10% of pins

Save and Reboot

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Save and Reboot

[illegible]

The screenshot shows the Betaflight Configurator's 'Modes' tab. On the left, a sidebar lists various settings: Modes (highlighted in orange), Profiles, Power & Battery, PID Tuning, Receiver, and Motors. The main area displays a table of modes and their associated ranges. The 'AUX1' mode is selected, and its 'AUX1' range is being configured. The range is set from 1000 to 2000. The 'AUX2' mode is also visible, with its 'AUX2' range set from 1000 to 2000. The 'Modes' tab is highlighted in orange.

Mode	Min	Max
AUX1	1000	2000
AUX2	1000	2000
AUX3		
AUX4		
AUX5		
AUX6		
AUX7		
AUX8		
AUX9		
AUX10		

When the drone is not flying properly, try to load FC firmware, then restore factory settings

1. Open  , then click  , select firmware

OMNIBUSF4SD

3.2.1- OMNIBUSF4SD -18-10-2017 03:31(stable)

☐

 No reboot sequence

☐

 Flash on connect

☐

 Full chip erase

☐

 Manual baud rate

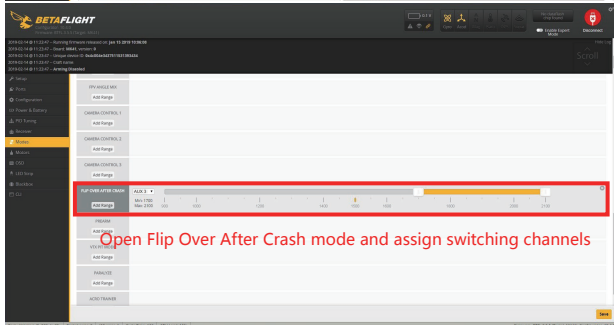
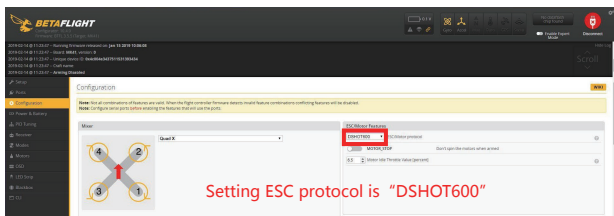
256000

☐

 Show unstable releases

2. Click  , then click  to download FW to FC , click  after FW updating finish into setting menu

Flip Over After Crash Setting



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

- ☐ Flying in good condition
- ☐ Camera OK
- ☐ VTX OK

QC: _____

Package check

- ☐ PNP
- ☐ Frame
- ☐ All parts of the installation
- ☐ Insulating sleeves have been installed manual
- ☐ Complete accessories, total ____ packages

QC: _____