

Manual for HiBiRD

Features:

HIBIRD is a Mini Quadcopter can be controlled by 2.4G Spectrum DSM2 /JR DMSS (XG7, XG8, XG11,XG6) and APP /Android system total four controller system.

DSM2 Board compatible with Spectrum DSM2 Radios: DX6I, DX7, DX8,DSX7,DSX9 DSX11,DSX12

DMSS Board compatible with JR DMSS Radios: XG7, XG8, XG11, XG6

Specification:

Body Dimension W*L*H: 100*100*45MM

rotor to rotor: 120mm

Empty Quad Weight: 22g

LIPO Battery Weight : 10g 3.7V/350MA

Body and LIPO Weight : 32g

Input Voltage: 3.7V/350MA

Flight Time: about 10min



Photo I Main Body



Photo II weight of DSM2/DMSS Board

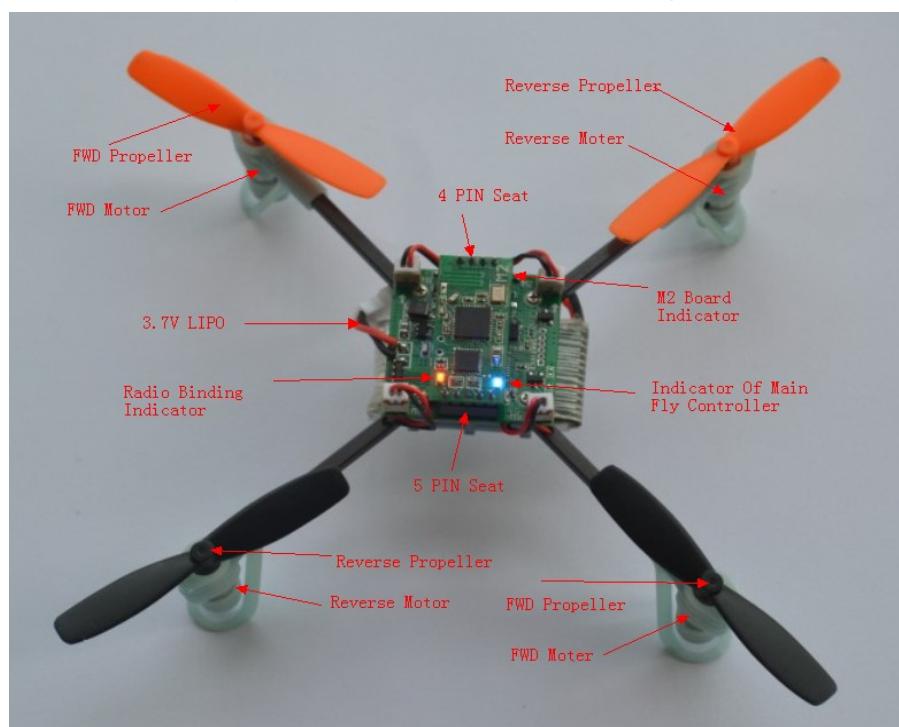


Photo III

Right Hand THRO



Unlock



Lock



Regulate GYRO

Left Hand THRO

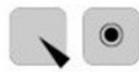


Photo IV

Photo V

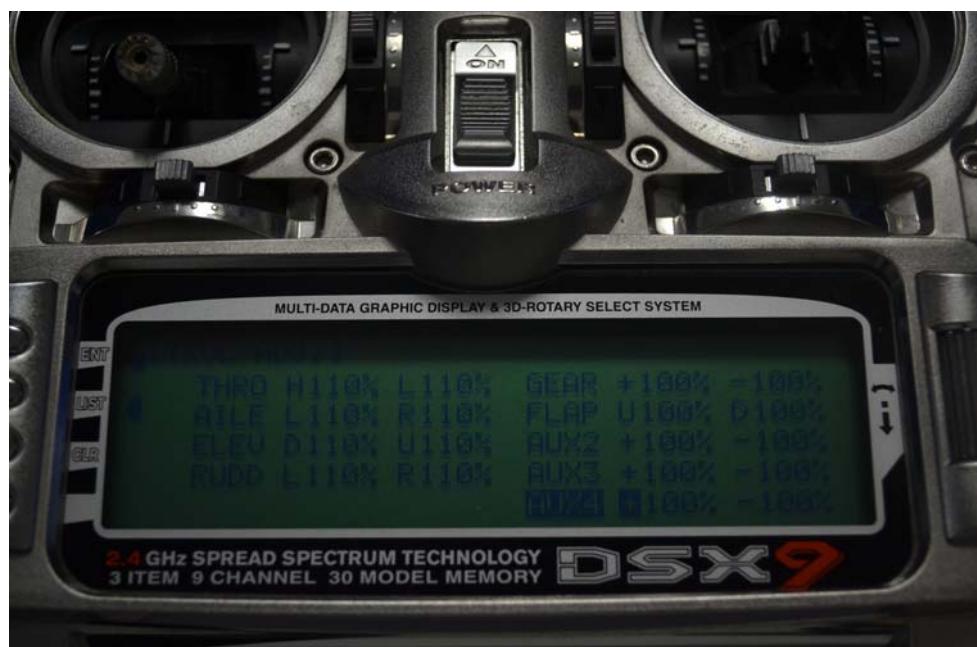


Photo VI



Photo VII

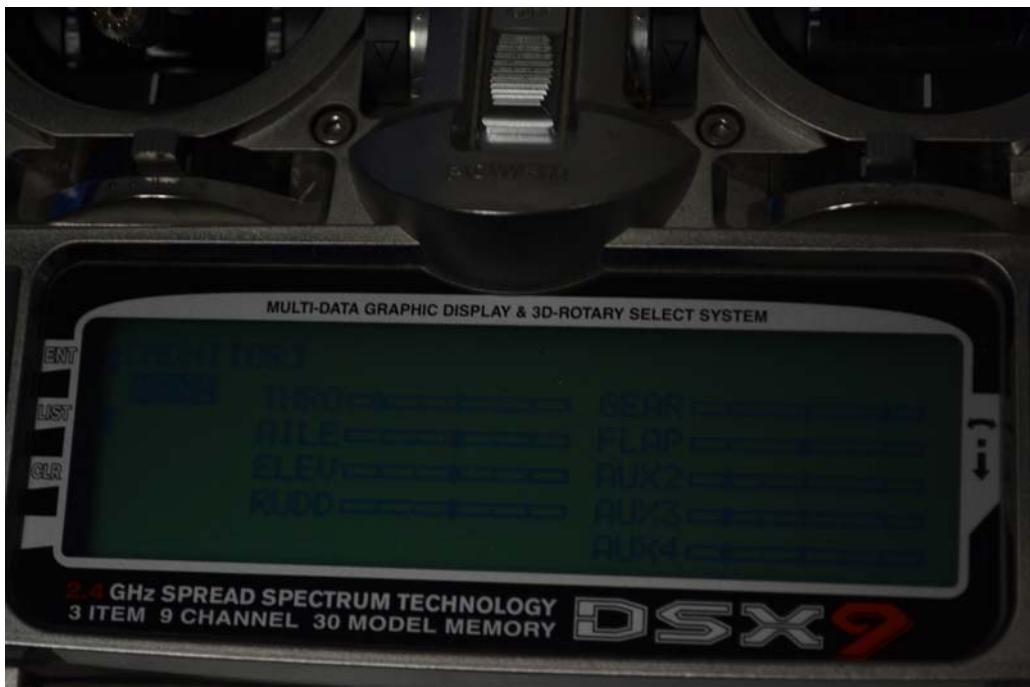


Photo VIII

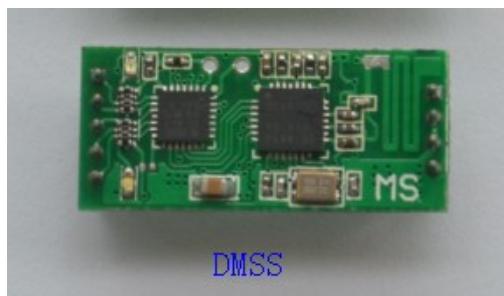


Photo IX

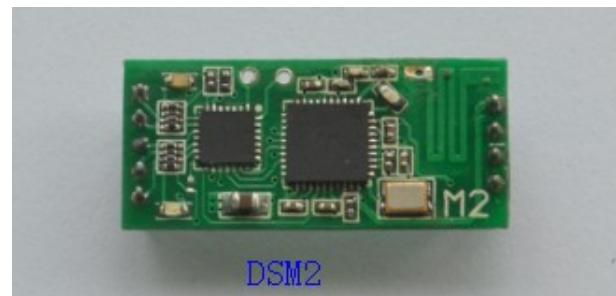


Photo X

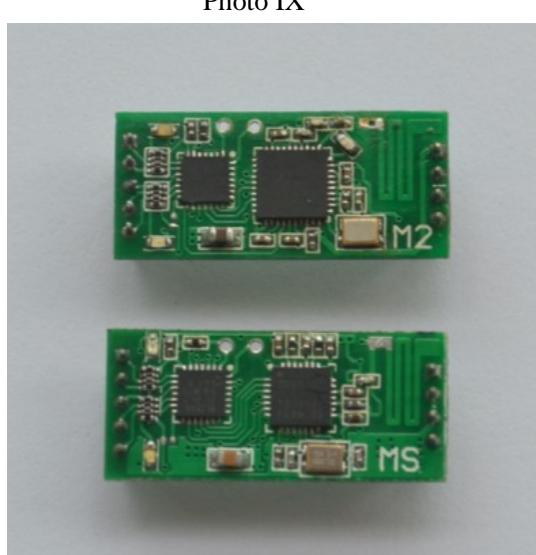


Photo XI

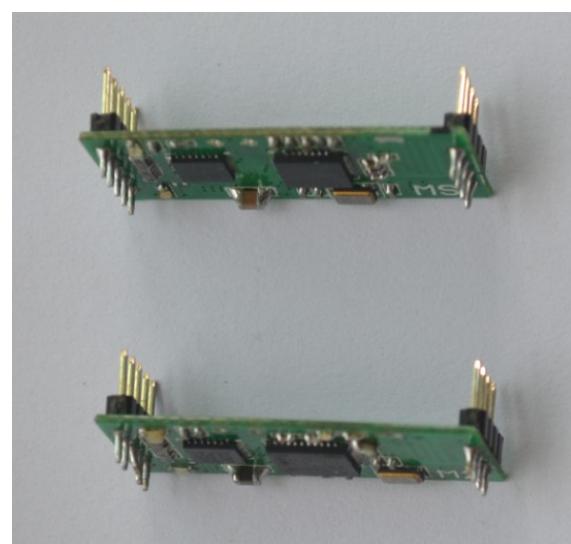


Photo XII

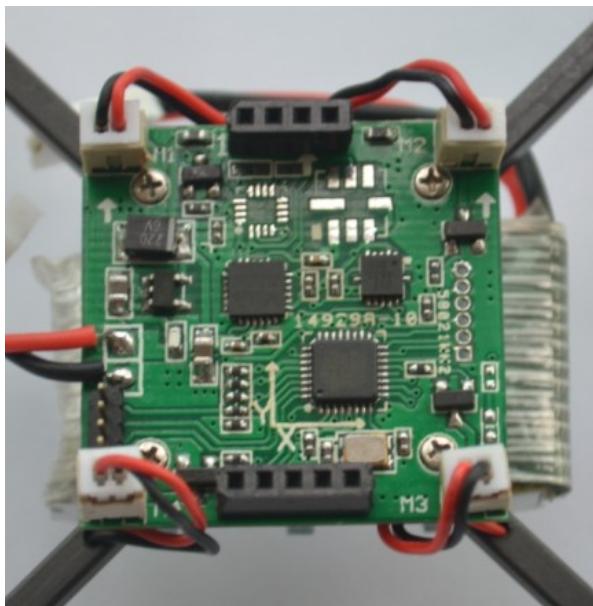


Photo XIII

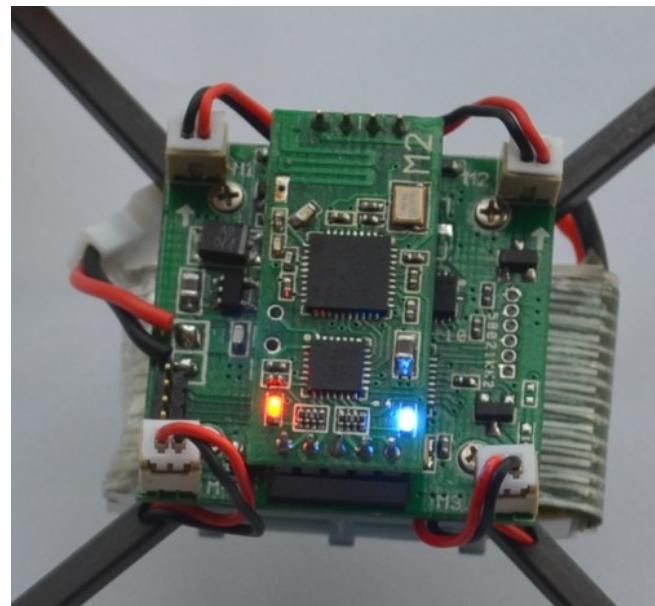


Photo XIV

Photo IX is DMSS control board for JR XG7,XG8XG11,XG6

Photo X is DSM2 Control board for DX6I,DX7,DX8,DSX7,DSX9 DSX11,DSX12

Photo XI and Photo XII you can find the difference from DSM2 and DMSS

How to change from DSM2 to DMSS or reverse

There're 4pin seat and 5 pin seat in Flight Controller board (Photo XIII), if you use Spectrum Radio please use DSM2 control board , or DMSS control board if you use JR Radio .

Radio Setting

Model : Air plane please refer to Photo V

Servo travel value: over 100% (between 100-120) refer to Photo VI , THRO/AILE/ELEV/RUDD/FLAP (AUX1)

Channel reverse setting: refer to Photo VII and Photo VIII they're reverse.

Bind the Radio to DSM2 or DMSS Board please refer to binding process and the radio will remember the signal after one time binding, no need to rebind for second time fly.

Lock and unlock refer to Photo IV, Blue LED (on Photo III) keep lit means it's on Unlocked mode , if locked the Blue LED off.

DSM2 Binding Process:

If use DSM2 Radio please plug DSM2 board on Quad main board, and connect Battery to Quad the Orange LED on DSM2 Board flash, then Press the bind button of radio and open radio , it starts to bind.

Orange LED slow flash then keep lit means binding completed.

Please repeat bind process, if you can't make bind completely at first time.

Binding completed, open the radio then connect quad to battery the Orange LED will keep solid lit and it's ready to fly.

After binding, for second time use, just open radio then connect battery to Quad, Orange LED on DMSS Board keep solid light , it's ready to fly, no need to bind again.

Please note, every time before fly please adjust the GYRO to make sure the Quad keep balanced.

DMSS Binding process:

If you use DMSS Radio please plug the DMSS Board on Quad, and connect battery to Quad the Orange LED on DMSS Board flash, then press bind button of Radio and open Radio, it starts to bind.

The LED on DMSS Control board will flash slow then keep Solid Light means binding completed.

Please repeat binding if you can't make the bind completely at first time.

After binding, for second time use, just open radio then connect battery to Quad, Orange LED on DMSS Board keep solid light , it's ready to fly, no need to bind again.

Please note, every time before fly please adjust the GYRO to make sure the Quad keep balanced.

LED Indication:

1. Orange LED Flash , means on binding process
2. Orange LED Keep lit means binding completely
3. Orange LED off means no power or no signal
4. Blue LED keep lit mean it's ready to fly
5. Blue LED flash means it's on regulation process
6. Blue LED off for one second then keep lit means fly angle over 15 degree
7. Blue LED off it's on lock mode

6CH or Radio AUX1 Function:

AUX1 in High Position AILE/ELEV/RUDD in High sensitive hand adjustment mode

AUX1 in Middle Position AILE/ELEV/RUDD in high sensitive auto-Adjustment mode

AUX1 in low position AILE/ELEV/RUDD for learner low sensitive auto-Adjustment mode

AUX1 can be adjust as needed when flying.

How to make Quad to fly:

1. Connect DSM2 or DMSS in Flight Controller then connect the body to battery, 3 seconds later the Orange LED and Blue LED on DSM2 or DMSS board will flash meanwhile open the radio to bind. For details refer to Binding Process.
2. After binding the Radio will remember it no need bind again, so second time fly , just open the radio first then connect battery to mini Quad , the orange LED of DSM2 or DMSS board keep Solid Lit and Blue LED flash. (Every time fly please adjust GYTO to make the Quad keep balance)
3. Put the Mini Quad balance and adjust the GYRO (Photo IV) now all LED off and radio can't control the Quad.(THRO, ELEV, RUDD are low output)
4. In unlock mode the Blue LED keep lit the radio can control the Quad (THRO, RUDD are high output,)
5. In lock mode the Blue LED on DSM2/DMSS board off (Thro Low output and RUDD high output) now radio can't control the Quad.
6. If unlock, the Orange and Blue LED keep lit and Radio can control the Quad.
7. To make the Quad vertical upward by Fine trimming the Radio (AILE/ELEV/RUDD) Channel. Before fly please adjust AILE/ELEV/RUDD to let mini Quad fly stable.

Caution:

The mini quad with failsafe works during flying if radio close or signal lost the Motor will slow down automatically and 8seconds later the motor will stop and land safely.

Please make sure the 4 Screw in flight controller be tight enough to make sure the body keep balance and stable. Please adjust the Screw to make sure the Motor feet in horizon level and make the Quad balance.

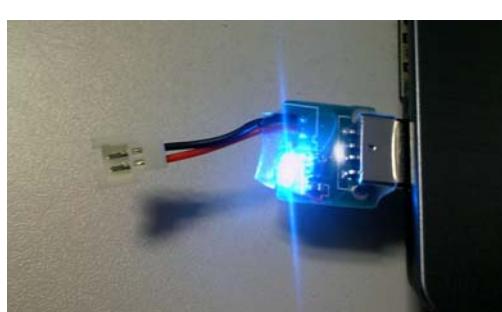


Photo XV

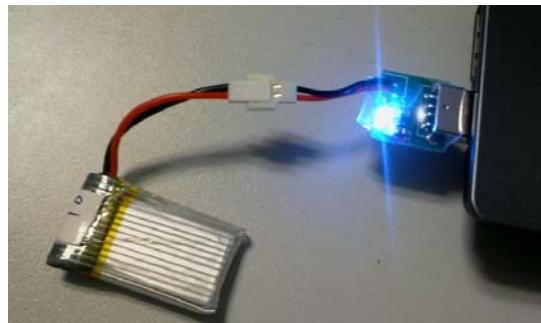


Photo XVI Charging



Photo XVII Full charged Battery

Charger Specifications:

Input Voltage : 5V

Current : 500MA

Output: 3.7V Single LIPO

Red Wire is + , Black wire is –

It can be used on PC , IPHONE Charger adaptor or 5V-Out Adaptor

LED of Charger Indication:

Photo XV Input Voltage is normal and LED solid lit

Photo XVI be in charging the LED light

Photo XVII full charged battery and the Blue LED on Charger is weak light

The Whole Package Including:

Main body ,

DSM2 (or DMSS) oard *1PC

DMSS Board* 1 PC

Motors * forward and reverse motor 1 pair each

Propeller* forward and reverse propeller 1 pair each

Charger* 1 PC

LIPO *1 PC