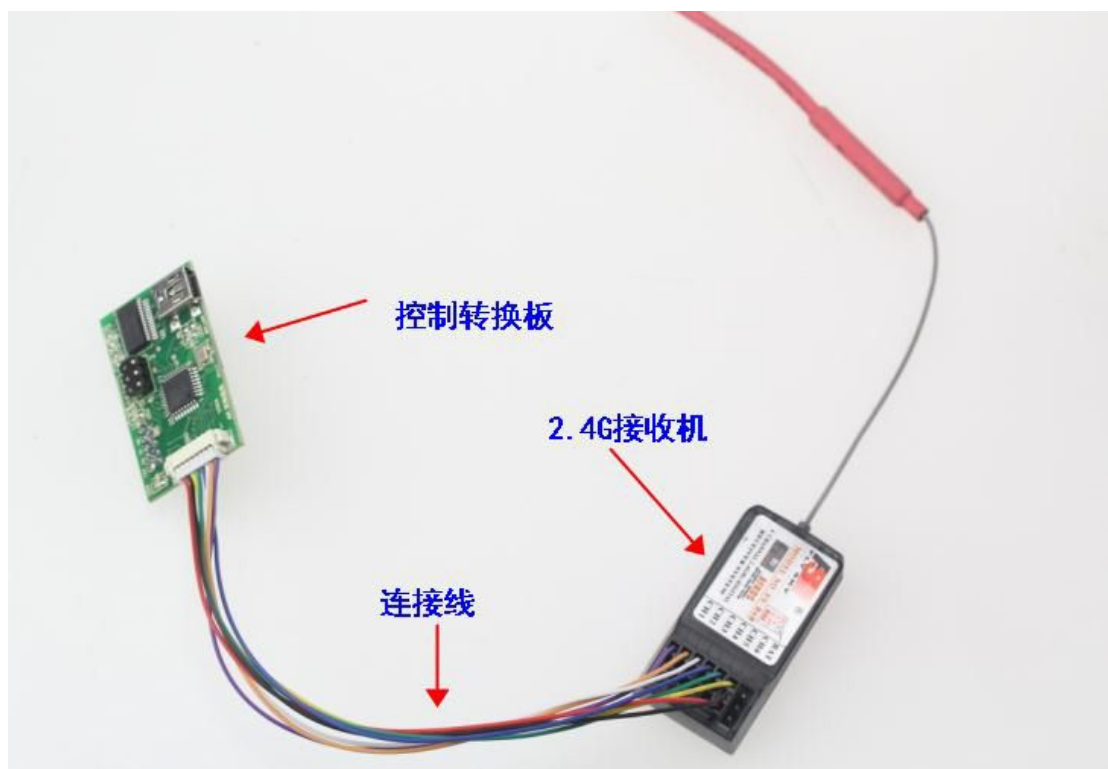# AR.Drone2.0 Modification Board User Manual

Accessories List:
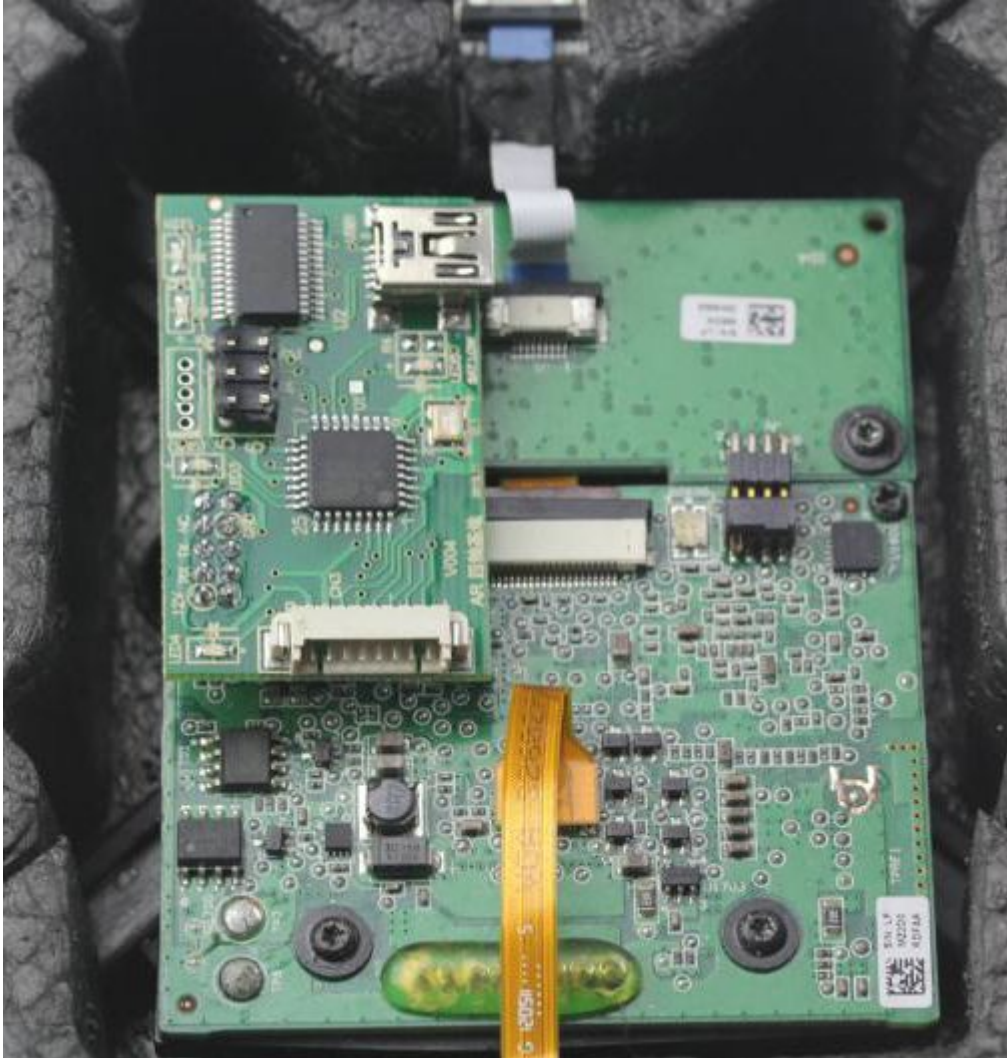
1. AR Remote Control Modification Board

2. Control board connecting cable
3. 2.4G 6ch Transmitter
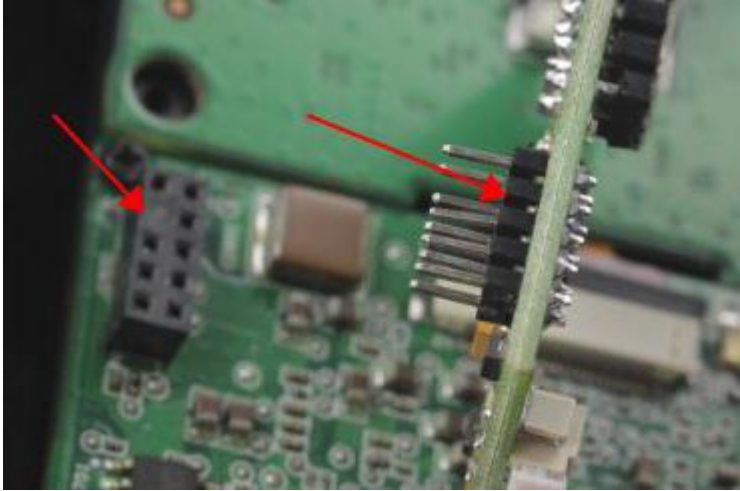4. 2.4G 6ch Transmitter receiver

控制转换板

2.4G接收机

连接线

The transmitter and receiver must be a set, you can equip by yourself.

Preparation:

1.Take off the bottom of AR.Drone2.0(Don't pull all of the bubble,pressure slowly forcely is ok)

2.Inserting the control board to the bottom of AR.Drone2.0,please aiming at the empty position of 10 needles.

3.Connect the control board with 2.4G receiver as follow(support all 2.4G 6ch and above transmitter)
Three lines of yellow, black and red are 6,7,8
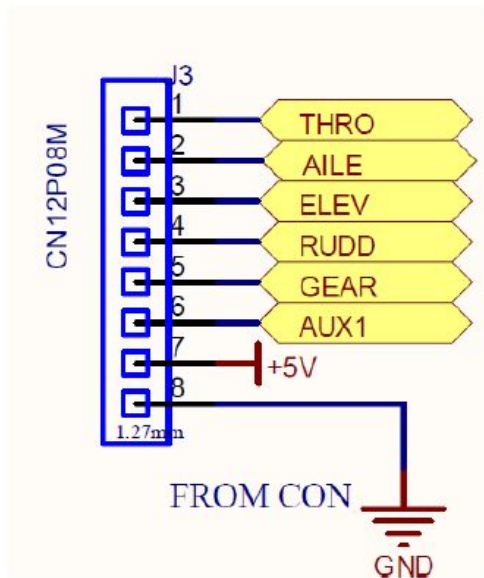
4.Fix the receiver to external of AR

Notice:

   This version is only support AR.Drone2.0 Aircraft of 2.0 and 2.1 version.(take off the bottom board ,it is 10 needles female jack)

No support	Support	No support
AR.Drone 1.0	**AR.Drone 2.0** HW Version 2.1	**AR.Drone2.0** HW Version 2.2
8 Pin Male ✗	10 pin female √	6pin female ✗

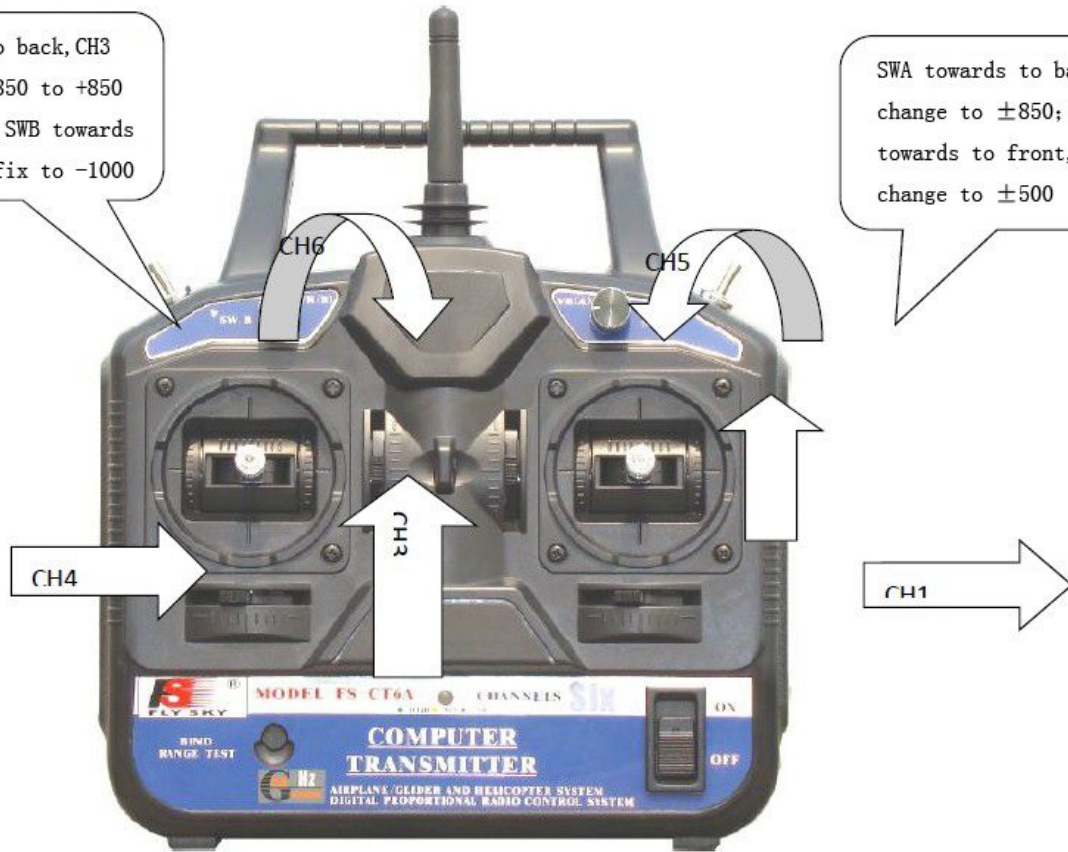Display Version of Control Software:

Enter AR.Freeflight2->Control->Setting, enter into the last one to check the status .If there is 2.2 in red frame shows in picture,it does not support.
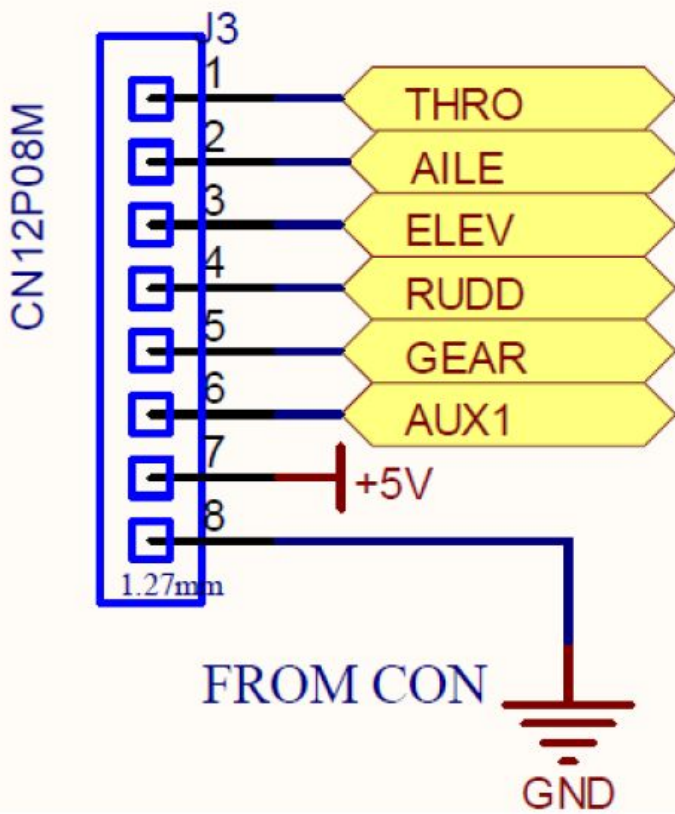
Installation /Setting Process:

How to connect wires .For example: Fly sky 6CH transmitter

SWB towards to back, CH3 change from −850 to +850 approximately, SWB towards to front, CH3 fix to −1000

SWA towards to back, CH2 change to ±850; SWA towards to front, CH2 change to ±500

CH6

CH5

CH3

CH4

CH1

FLY SKY ® MODEL FS-CT6A CHANNELS Six

COMPUTER TRANSMITTER

BIND RANGE TEST

6Hz

ON

OFF

AIRPLANE/GLIDER AND HELICOPTER SYSTEM
DIGITAL PROPORTIONAL RADIO CONTROL SYSTEM

Notice:Arrows direction are positive.

CH1
Ch2
Ch3
Ch4
Ch5
Ch6

Battery

Main receiver

Receiver Module

J3
CN12P08M

1 THRO
2 AILE
3 ELEV
4 RUDD
5 GEAR
6 AUX1
7 +5V
8

1.27mm

FROM CON

GND
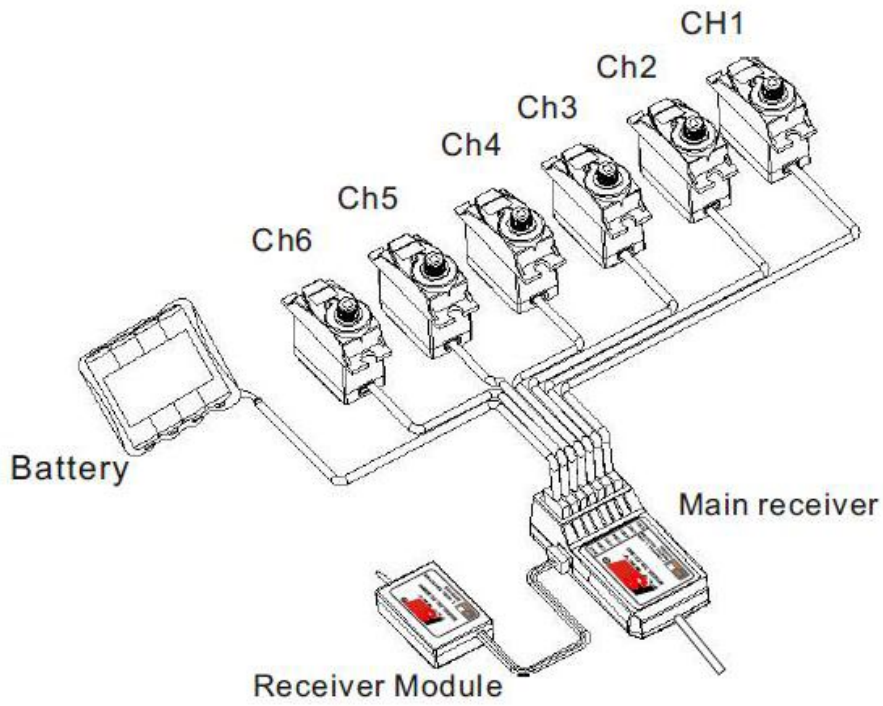
I. Basic Configuration

SWB is used for switching LAND/FM

SWA is used for switching FM1/FM2

II. Starting Up Step

1.Connect the hardware;

2. Push all the sticks to the center position. Turn VR(B) to LAND position(smallest position),the smallest position of VR(A) is FM1,the biggest position is FM2.Turn SWA and SWB to the back of transmitter;

3. Turn on the power of transmitter and AR Drone;

4. Start up NANO as follow:

    1) Turn on red light of drone and start up(boots);

    2) LED of Arduino flash 1,2,3or 4 times each second.

      1 flash: none or void RX (receiver) signal;

      2 flash: flight mode is not LAND (change it to LAND is ok)

      3 flash: Waiting for starting up of drone

      4 flash: Waiting for 'quiet' time on interface

    3) Turn off red light of drone and change to green light

    4) LED of Arduino is flashing rapidly,means it is uploading and push out "at2so"

    5) "at2so" make the LED of drone flash orange(1 time 1 second)

    6)"rx2atp" turn off LED and send configuration commands to "at2so".Once the "at2so" finished commands,the LED of drone flash green 1 second, to tell the rx2atp keep on.

5. Nano indication light flash rapidly(12.5Hz frequency),means drone get ready to fly.

6. Check your emergency STOP RESET/Restoration, make a ftrim before you start up,and enjoy fun.