

Specification

Wheelbase: 80mm
Dry weight: 40g (Exclude battery)
Size: 118mm*118mm*55mm
Flight controller: SPRACING F3 EVO BRUSH
Firmware version: Cleanflight 1.13.0
Motor size: 8520 Brushed
Propeller diameter: 55mm
Camera: 520TVL HD CMOS 1/4 inch camera
VTX: 5.8g 25mw 32ch
Battery: 3.7v 600mah
Flight time: 6 minutes

Components	QTY	Part No
QX80 Airframe	1	QX80F
Motors -8.5mm Brushed	4	QX803CW/ QX803CCW
Flight controller	1	QX804
5.8G VTX w/ Camera antenna	1	QX80V
Propeller	4 pairs	QX807
Lipo-battery	2	QX808
Charger cable	1	QX810
Propeller Disassembly tool	1	Qx811

CAUTION: Read and follow all instructions and warnings in the manual prior to setup or use. Failure to operate the product correctly can result in damage to the product, personal property and/or injury. This is a sophisticated hobby product. It must be operated with caution and common-sense and requires some basic mechanical ability.

Age Recommendation: Not for children under 14 years. This is not a toy.

Operating Safety Precautions

- As the user of this product, you are responsible for operating it safely, not endangering yourself and others, or damaging the product or the property of others.
- Operate your product in open spaces away from people and property.
- Never operate your product with damaged electrical components.
- Keep the transmitter powered on while model is powered on.
- Let parts cool after use before touching, motors will get hot in use.
- Remove batteries after use, as applicable.

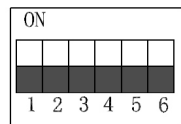
General Product Safety Precautions

- Keep all batteries, chemicals, small parts and anything electrical out of the reach of children.
- Avoid water exposure to this product. Keep parts dry.
- Keep moving parts clean.

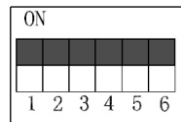
5.8G VTX channels list

Frequency group	CH1	CH2	CH3	CH4
Frequency group A	CH1-5865	CH2-5845	CH3-5825	CH4-5805
Frequency group B	CH1-5733	CH2-5752	CH3-5771	CH4-5790
Frequency group E	CH1-5705	CH2-5685	CH3-5665	CH4-5645
Frequency group F	CH1-5740	CH2-5760	CH3-5780	CH4-5800

Move Dip 1/2/3/4/5 to change the channel, Move Dip 6 to reverse the display



Dips 1-2-3-4-5-6 are "off"

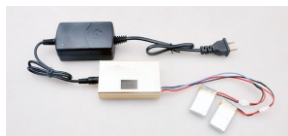


Dips 1-2-3-4-5-6 are "on"

Charge the Flight Battery

NOTICE: Inspect the battery to make sure it is not damaged e.g., swollen, bent, broken or punctured. Charge only batteries that are cool to the touch and are not damaged.

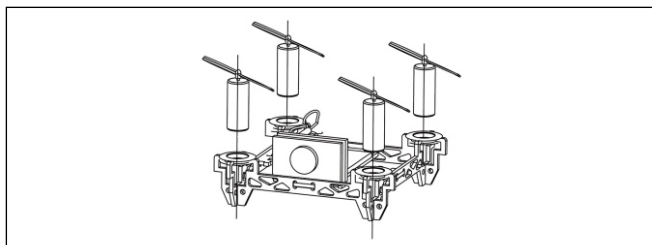
Connect the 2 batteries and the charge cable, then connect the cable to 2S Balance charge (Not include) like B3PRO, 3S10D, 4S15D, Charsoon DC-4S, etc.



⚠CAUTION: Only use 2 batteries together to charging

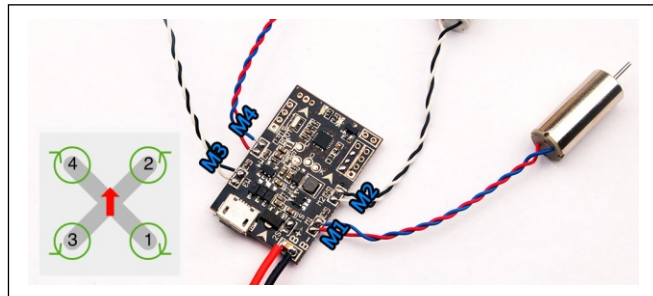
⚠CAUTION: Once charging is complete, immediately remove the battery. Never leave a battery connected to the charger.

QX80 Airframe setup



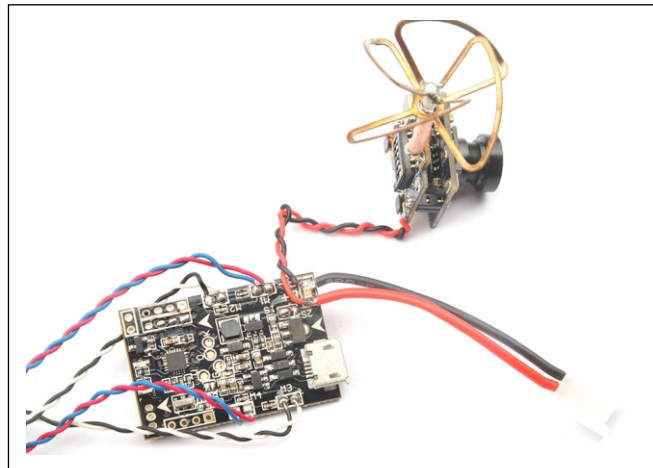
The Camera&VTX was fixed to the Airframe by the rubber band
The motors were installed to the rubber stopper directly
Flight controller and the receiver were fixed to the center in the QX80 Airframe by the Double-sided adhesive

QX80 Motor and propeller install



CW Motor: M1/M4, Blue wire solder to GND, Red wire solder to Positive
CCW Motor: M2/M3, Black wire solder to GND, White wire solder to Positive
M1/M4 motor use the propeller marked NO.2
M2/M3 motor use the propeller marked NO.1

QX80 VTX setup



Work voltage: 3.3v~4.5v

Current: 140ma @ 3.7v

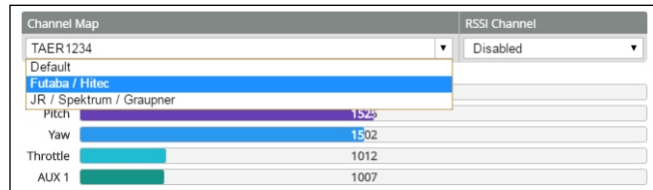
Red wire solder to Positive

Black wire solder to GND

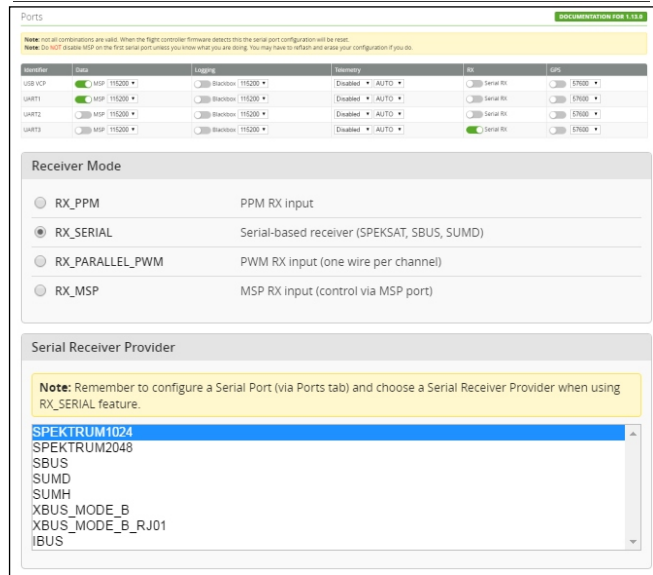
DIP 1/2/3/4/5 used to change the channel, DIP 6 used to reverse the display.

Receiver configuration:

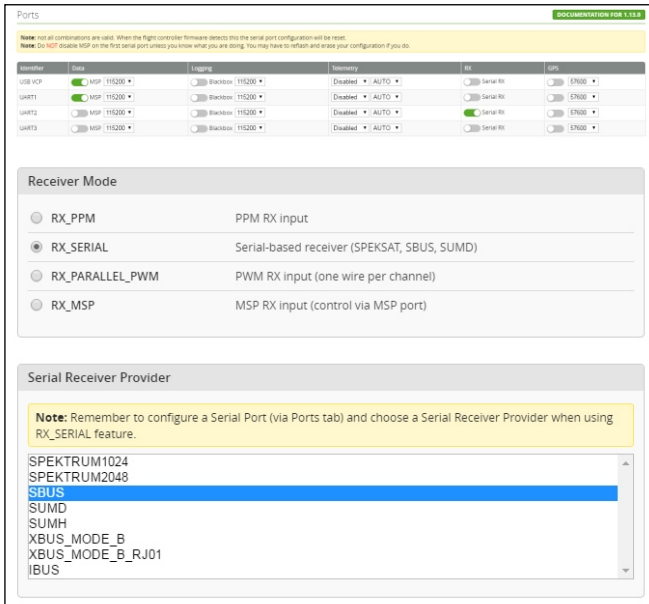
1. Please check the Channel map is matched with your transmitter, otherwise the quadcopter will not be armed. The default channel map comes is JR/ Spektrum/ Graupner, Please choose the appropriate channel map based on your Remote controller.



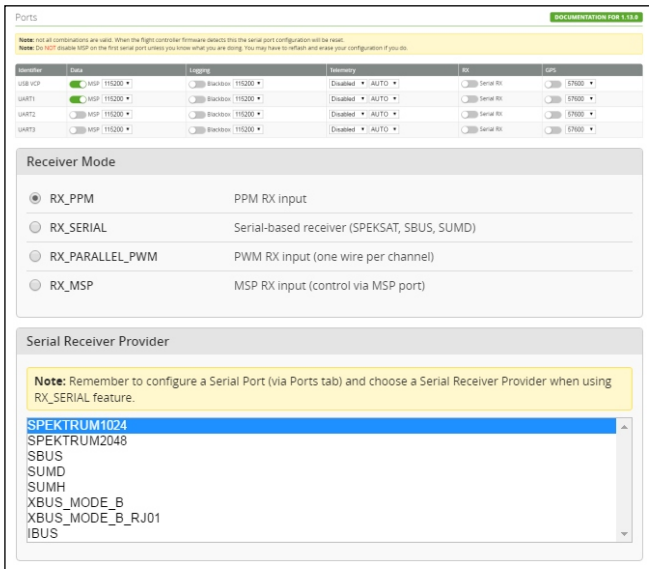
2. DSM/DSM2/DSMX receiver soldered directly to the DSM/DSM2/DSMX Receiver interface 3.3v, GND, RX3. Enable Seria_RX for UART3 and Set Receiver mode RX_SERIAL, Select Spektrum1024(DSM/DSM2) or Spektrum2048(DSMX) in Cleanflight configurator.



3. SBUS receiver welded to the UART2 GND, + 5V, RX2. Then Enable Serial_RX for uart2 and Set Receiver mode RX_SERIAL, Select Sbus signal in Cleanflight configurator.

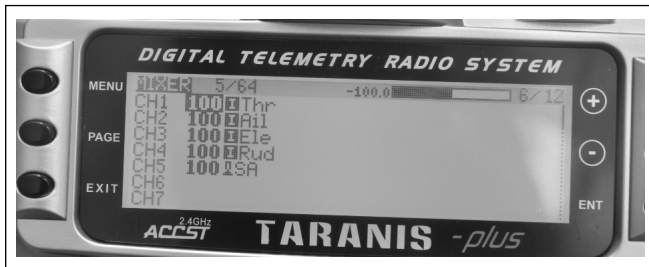


4. PPM receiver welded to the UART2 GND, + 5V, RX2. Then set Receiver mode to RX_PPM in Cleanflight configurator.



QX80 ARM/DISARM

1. Turn on the transmitter and move to the MIXER interface, Set "SA" or "SB" switch etc. for Ch5 to ARM/DISARM the motor. **Used Taranis X9D as an example.**



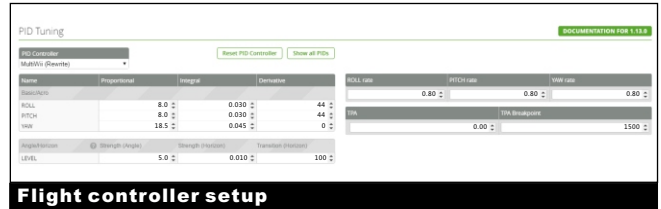
2. The QX80 ARF Flight controller was set AUX1(CH5) to ARM/DISARM the motor before shipping, you can also customize it by yourself.



3. The blue LED on the flight controller Will solid once the motor was armed.



The default PID SETUP of QX80 ARF KIT



Flight controller setup

SP racing f3 EVO_BRUSH
Firmware Cleanflight R1.13.0
Support SBUS/PPM/DSM/DSM2/DSMX receiver

