FPV RACING

Q220

快速操作手冊 - Quick Guide User Manual

DTS

Table of Contents

Introduction

Congratulations on purchasing the DTSQ220 Race QUAD. To ensure your continued enjoyment, please take the time to thoroughly read through this operating manual before using.

Important Notes

Radio Control (R/C) multicopters are not toys. R/C multicopters utilize various high-tech components to achieve superior performance. Improper use of this product can result in serious injury or even death. Please read this manual carefully before operating, and make sure to be conscious of your own personal safety and the safety of others nearby when operation all DTS products. Manufacturer and seller assume no liability for the operation or the use of this product. This product is intended for use only by adults with experience flying remote control aircraft at legal flying fields. After the sale of this product we cannot be held liable over its operation or usage.

As the user of this product, you are solely responsible for operating in a manner that does not in danger yourself and others or result in damage to the property of others.

Warning Label Legend

Do not attempt under any circumstances.

Mishandling due to failure to follow these instructions may result in serious damage or injury.

Safety Notes (General)

Fly only in safe areas, away from other people. Do not operate R/C aircraft indoors or within the vicinity of homes or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including: lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as of a result of R/C aircraft models.

Prior to every flight, carefully check all parts such as blades, screws, frame, arms, etc; ensure they are firmly secured and show no unusual wears, or unforeseen danger may happen.

Safety Notes (Battery Installation)

DTS Q-series has a flexible battery mounting system, and uses an industry-standard XT-60(AMASS) connector. This allows it to use a wide range of different batteries.

Voltage：3s (11.1V) pack is recommended. Running 4s (14.8V) is an extremely fast race-quad, which can easily get a pilot into trouble.

Capacity：1000mAh~1500mAh Li-Po battery is recommended.

C Rating：30C or above Li-Po battery is recommended.

When installing the selected battery, pay attention to the Center of Gravity mark on the bottom.

Safety Note (Intall Compatible RC Receiver)

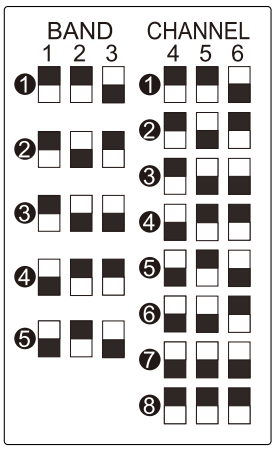
DTS Q-series is compatible with CPPM (all PPM channels down one single cable) receivers out of the box, and can support S-Bus, or Spektrum receivers with an optional cable.
It is also compatible with standard R/C receivers with multiple channels of PWM out (standard servo hookups)

DSM Binding : Plug DSM receiver into correspondence port, and switch all channel switch to top, power on the main control board. Then it will enter the binding mode with alert "Bi~~~" .

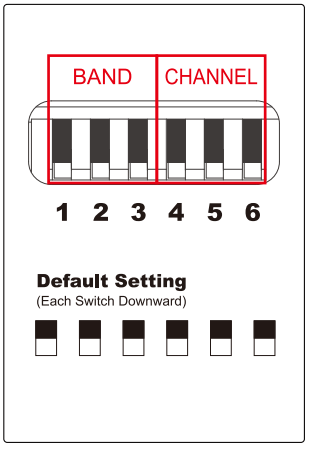
Safety Note (Setup the Video Link)

DTS Q-series are using the following method to switch the channel(Default Channel switcher : All downward) :
(Pilot should follow the ISM channel chart as below to connect **quad and goggles**)

Channel Switch Diagram:



Default Channel switcher:
All downward



ISM channel chart:

Band \ Channel	1	2	3	4	5	6	7	8	
1	5740	5760	5780	5800	5820	5840	5860	5880	**IRC/FS**
2	5658	5695	5732	5769	5806	5843	5880	5917	**Race**
3	5705	5685	5665	5645	5885	5905	5925	5945	**Band E**
4	5733	5752	5771	5790	5809	5828	5847	5866	**Band B**
5	5865	5845	5825	5805	5785	5765	5745	5725	**Band A**

Safety Note (Receiver Setting - CleanFlight)

Select Receiver Signal (PWM,PPM,SBUS,DSM)

- Download CleanFlight into your Computer as

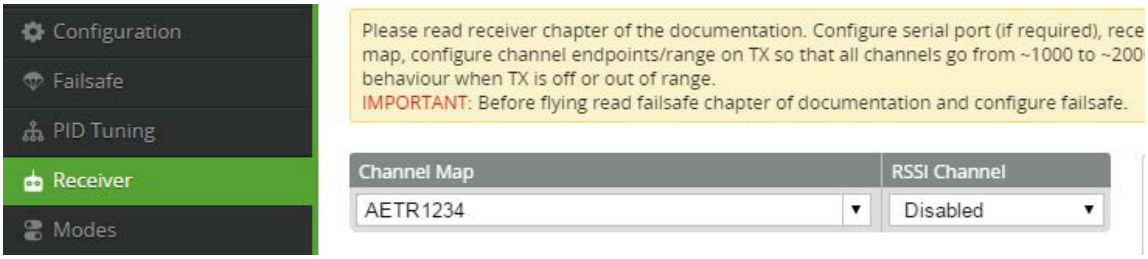
https://chrome.google.com/webstore/detail/cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb?hl=en-US

- Download the Version 1.2.4 and install it as Extensions in Goggle Chrome as

https://github.com/cleanflight/cleanflight-configurator/releases/tag/CLFL_v1.2.4

- Connect the Main Control Board to computer by USB Cable
- Enter the Receiver table
- Select the Receiver Brand which you are using -

Clean Flight Setting:



Enter the Receiver table

Select the receiver brand which you are using - AETR1234(Futaba/Hitec) or TAER1234(JR/Spektrum/Graupner)

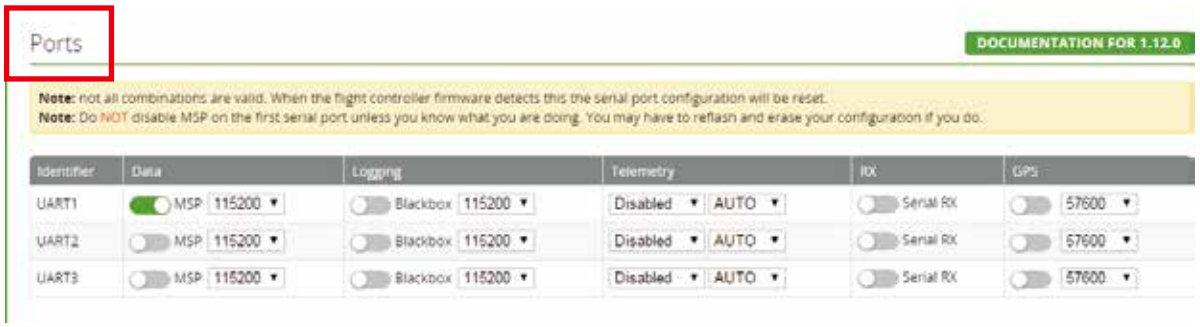
Press “Save” after setting.

Safety Note (Receiver Setting - CleanFlight)

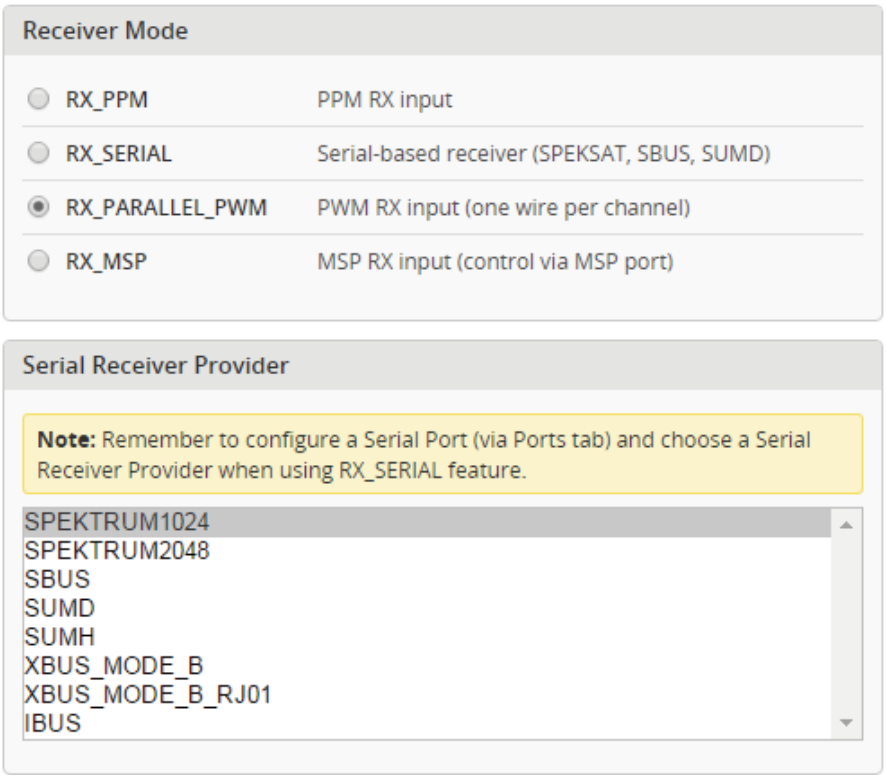
PWM Signal

- Download CleanFlight into your Computer as
https://chrome.google.com/webstore/detail/cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb?hl=en-US
- Download the Version 1.2.4 and install it as Extensions in Goggle Chrome as
https://github.com/cleanflight/cleanflight-configurator/releases/tag/CLFL_v1.2.4
- Plug PWM receiver into correspondence port
(Port Position please refer to P.14- Main Control Board Introduction)
- Power on the Main Control Board
- Connect the Main Control Board to computer by USB Cable

Clean Flight Setting : Enter Ports Table



Enter Configuration or Receiver Table



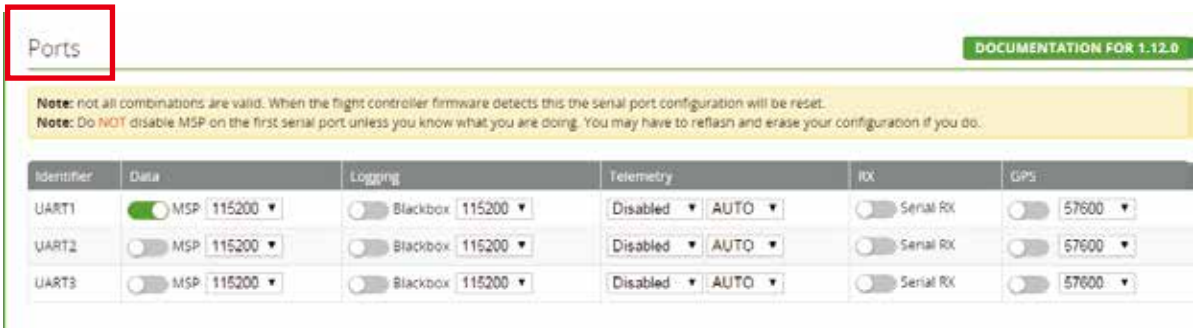
Press”Save and Reboot”after each step
Testing : Ensure 6 channel is operating normally at receiver table (After test, power off the quad, then disconnect)

Safety Note (Receiver Setting - CleanFlight)

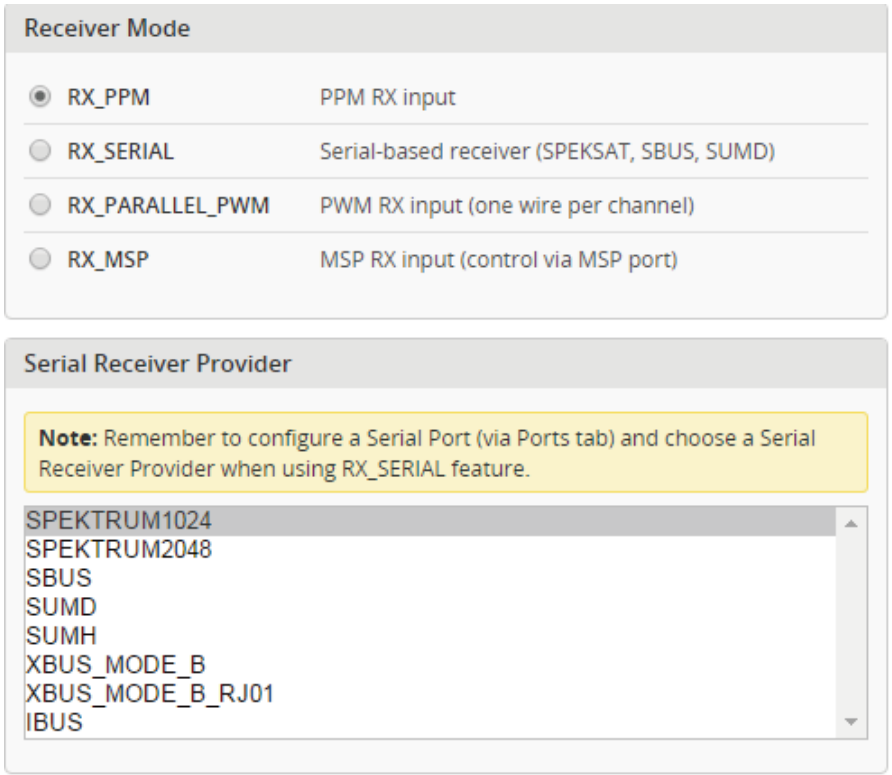
PPM Signal

- Download CleanFlight into your Computer as
https://chrome.google.com/webstore/detail/cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb?hl=en-US
- Download the Version 1.2.4 and install it as Extensions in Goggle Chrome as
https://github.com/cleanflight/cleanflight-configurator/releases/tag/CLFL_v1.2.4
- Plug PPM receiver into correspondence port
  (Port Position please refer to P.14- Main Control Board Introduction)
- Power on main control board
- Connect the Main Control Board to computer by USB Cable

Clean Flight Setting : Enter Ports Table



Enter Configuration or Receiver Table



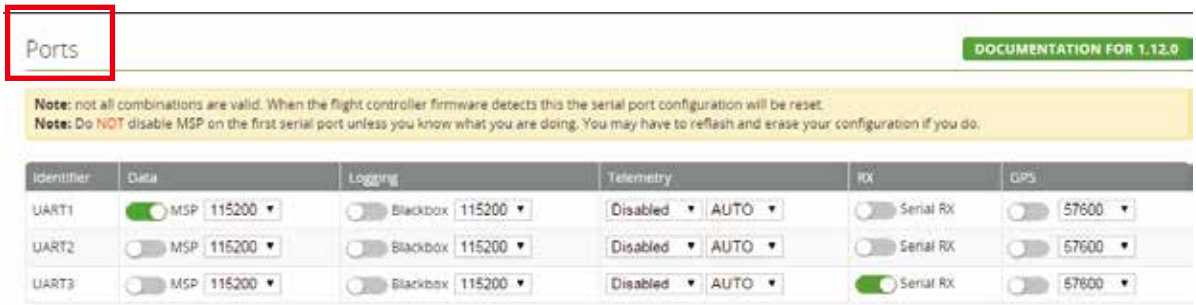
Press”Save and Reboot”after each step
Testing : Ensure 6 channel is operating normally at receiver table (After test, power off the quad, then disconnect)

Safety Note (Receiver Setting - CleanFlight)

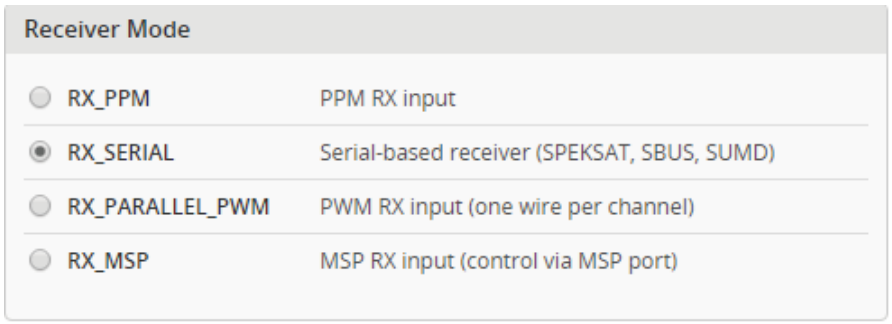
SBUS Signal

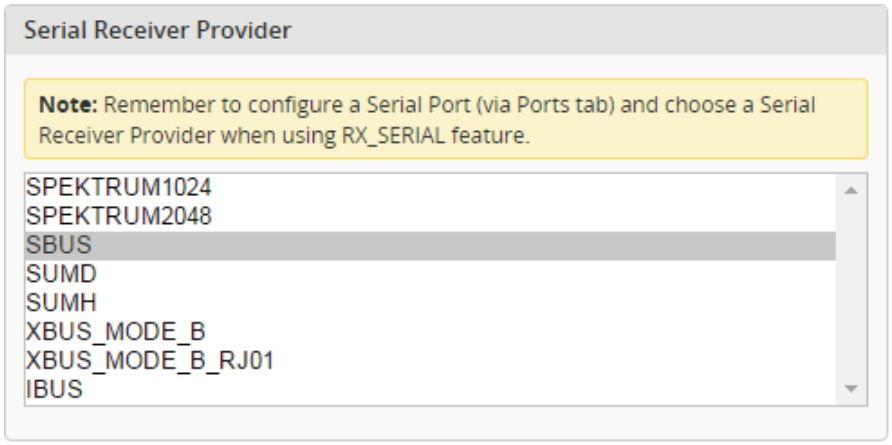
- Download CleanFlight into your Computer as
https://chrome.google.com/webstore/detail/cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb?hl=en-US
- Download the Version 1.2.4 and install it as Extensions in Goggle Chrome as
https://github.com/cleanflight/cleanflight-configurator/releases/tag/CLFL_v1.2.4
- Plug PWM receiver into correspondence port
(Port Position please refer to P.14- Main Control Board Introduction)
- Power on main control board
- Connect the Main Control Board to computer by USB Cable

Clean Flight Setting : Enter Ports Table



Enter Configuration or Receiver Table





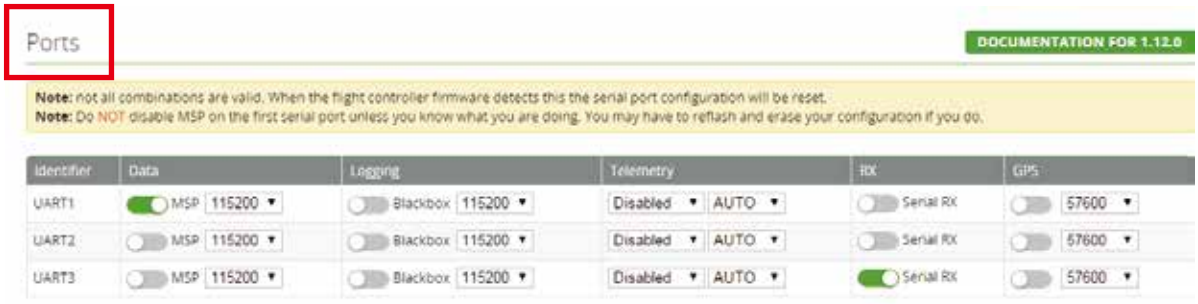
Press”Save and Reboot”after each step
Testing : Ensure 6 channel is operating normally at receiver table (After test, power off the quad, then disconnect)

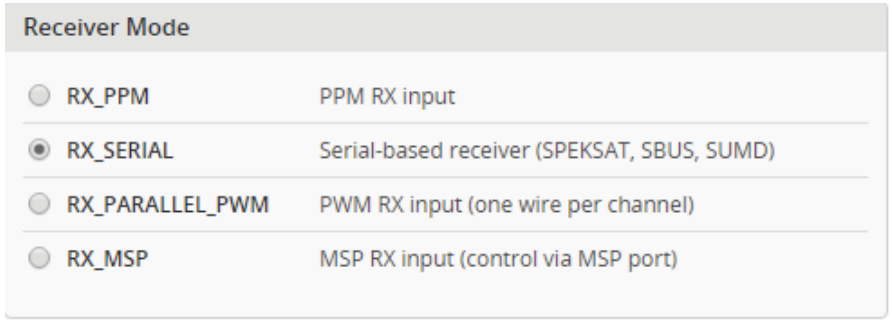
Safety Note (Receiver Setting - CleanFlight)

DSM SIgnal

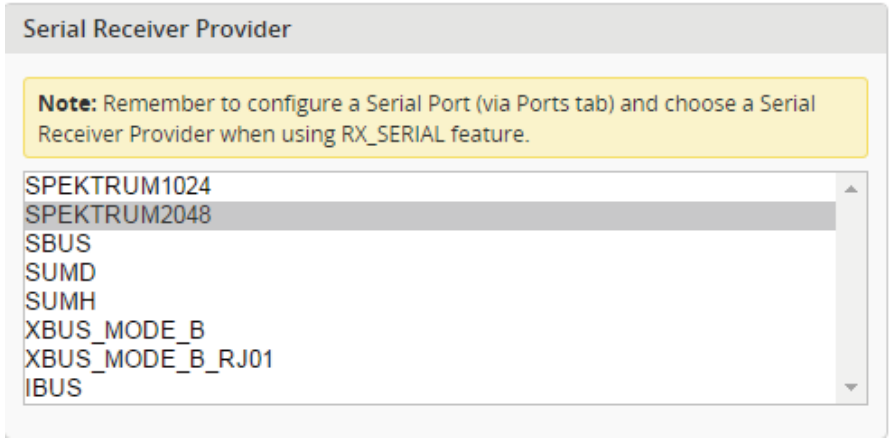
- Download CleanFlight into your Computer as
https://chrome.google.com/webstore/detail/cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb?hl=en-US
- Download the Version 1.2.4 and install it as Extensions in Goggle Chrome as
https://github.com/cleanflight/cleanflight-configurator/releases/tag/CLFL_v1.2.4
- Plug DSM receiver into correspondence port
  (Port Position please refer to P.14- Main Control Board Introduction)
- Switch all channel switch to bottom
- Power on the main control board. Then it will enter the binding mode with alert "Bi~~~"
- Binding Transmitter and Receiver
- Power off the main control board, then switch all channel switch to top
- Power on the main control board, connect the mainboard to computer by USB

Clean Flight setting: (Enter Ports Table)





Enter Configuration
or Receiver Table

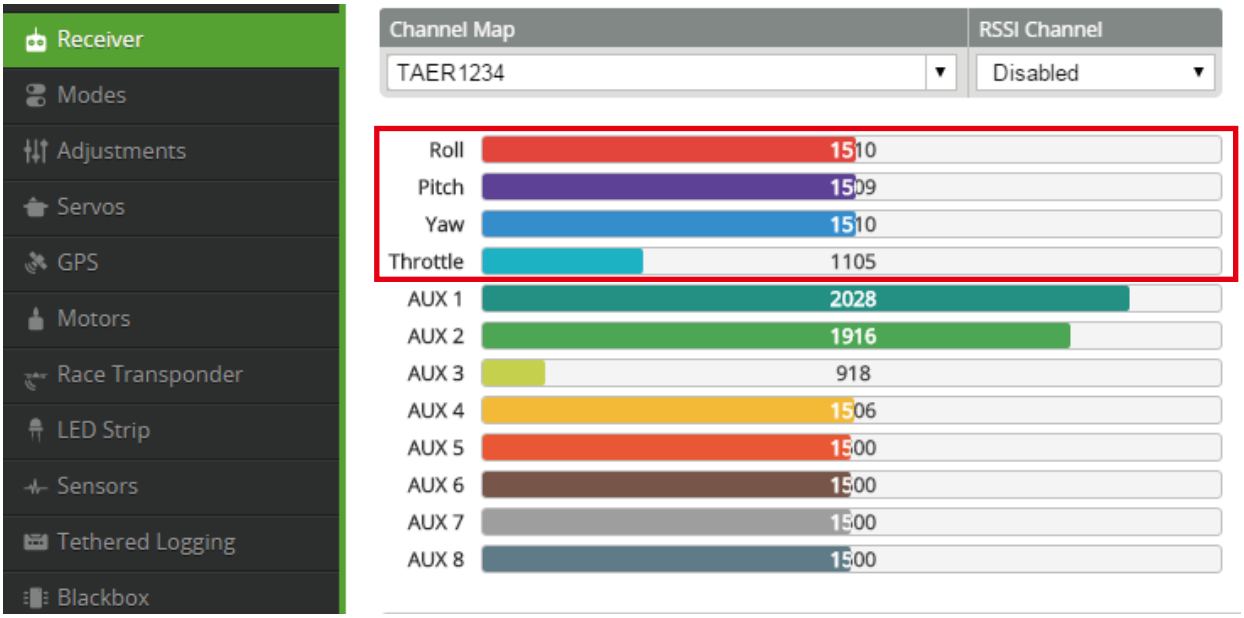


Press" Save and Reboot" after each step
Testing : Ensure 6 channel is operating normally at receiver table(After test, power off the quad, then disconnect)

Safety Note (Receiver Setting - CleanFlight)

Receiver Channel Range Setting

- Adjust the transmitter parameter (Travel), let Roll, Pitch, Yaw, Throttle
  Lowest value within **1000 - 1096**, and the largest value within **1944 - 1999** in the Receiver Table.
- AUX 1 and 2 are on your transmitter, and there will be have 3 switches.



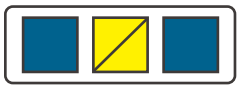
Default mid-point

DSM/PPM - 1500
SBUS/PWM - 1520 .

Safety Note (Pre-flight Check)

Motor Lock Mode

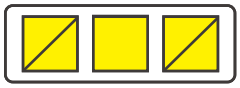
- Throttle channel locked (Middle condition LED flashing in Yellow)



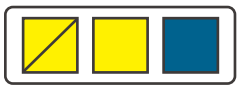
Chcek the transmitter stick and condition LED is it at the same direction

(MUST process in Motor Lock Mode)

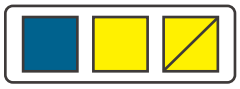
- Push Elevator Stick to Top (Left / Right Condition LED flashing in Yellow)



- Push Aileron Stick to Left (Left Condition LED flashing in Yellow)



- Push Aileron Stick to Right (Right Condition LED flashing in Yellow)



- Push Throttle Stick to Top in Motor Lock Mode (Middle Condition LED solid in Blue and Green)

Motor Unlock Mode

- Throttle channel unlocked(Middle Condition LED solid in Blue and Green)

Safety Note (Racing Instruction)

The current generation of FPV Analog video link brings many advantages. Low-cost, and zero latency being two of the most significany. They do however suffer from less than ideal selectivity, even when using large channel spacing as is the case with RaceBand. If a few simple rules are followed, quad racig can be a lot of fun.

1) NEVER land near another pilot

This is an absolutely golden rule. Landing your quad near another pilot, especially one who is at a significant distance.

2) NEVER walk back to the pilot area with a powered-up quad

This is the most common cause of issues at the race track. When retrieving a model, unplug the battery before walking back to pilot area.

3) POSITION the launch and landing zone as far from the pilot area as possible

This ensures that collisions at race start don’t affect other pilots. A distance of at least 10 meters is recommended, more than this is a bonus.

4) ALWAYS warn in-air pilots before powering up a quad, even if you KNOW it is on a different channel

Warn pilots, and be ready to power down IMMEDIATELY if a pilot is affected, and wait until he lands. Remember that it only takes a seond or two, when flying race quads at speed, to crash and damage the quad, and whatever (whoever) it hits.

Safety Note (Remove Props)

Mini-quad props can do come serious damage when coming in contact with human skin, risk do deep cuts and lacerations should be avoided at all cost.

So when you are working on a quad with the battery connected, it is highly recommended to REMOVE ALL PROPS, unless you are just about ready to fly.

Safety Note (Li-po Low Voltage Alarm)

DTS Q-series quad included LI-po Low Voltage alarm. Alert “Bi~Bi~” when battery in low voltage to prevent over discharge. This function is compatible with GWY COBRA V, due to it has buzzer function.

Safety Note (General)

FPV RACING

FORBIDDEN 禁 止

Do not fly near buildings , high voltage cables, or tress to ensure the safety of yourself.

FORBIDDEN 禁 止

Do not attempt to modify the aircraft to alter its intended design. Please use only designated replacement parts listed in the manual to ensure its design structural integrity.

FORBIDDEN 禁 止

Do not fly your model in inclement weather, such as rain, wind, snow or darkness.

WARNING 警 告

R/C aircraft are made of various forms of plastics, such as carbon fiber and polyethylene. Plastics are very susceptible to damage or deformation from extreme heat and cold climate.

WARNING 警 告

Frequency interference can cause your model, or other models to crash. Then guidance provided by an experienced pilot will be invaluable for the assembly, tuning, trimming, and actual first flight or unforeseen danger may happen.

WARNING 警 告

Operate this unit within your ability. Do not flywhile feeling impaired, as improper operation may result in danger.

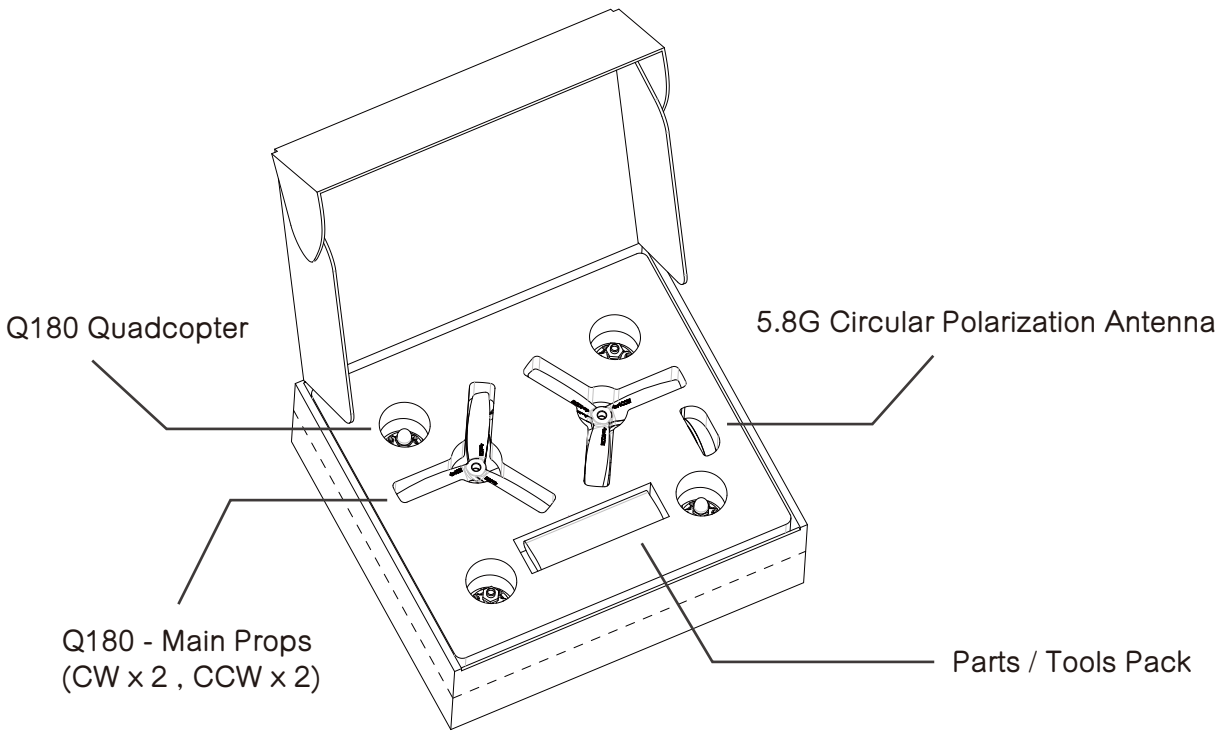
WARNING 警 告

During the operation of the multicoptere, the rotor will be spiinning at a high rate of speed. The blades are capable of inflicting serious bodily injury and damage to surrounding properties.

WARNING 警 告

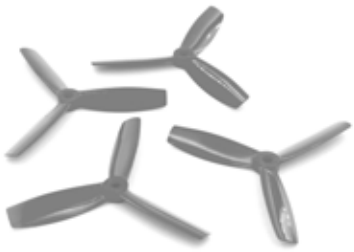
Any time found motor is operating abnormal. Turn off the throttle and check the reason immediately. If not, damage will cause motor to be broken.

Packing Contents



Details Packing Contents

Q220 Quadcopter



Q220 - Main Props

5.8G Circular
Polarization Antenna

Receiver Signal Cable
(PWM,PPM)

Receiver Signal Cable
(SBUS,DSM2/X)

Landing Skid - Rubber

L Shape Hex Key
M2.5x6mm x 1 / M2.5x6mm x 1

Round Head Socket Screw
M2.5x6mm x 6 / M2x5mm x 6

Velcro (Hard x 1 Rough x 1)

Hex Handle (For Main Props)

Equipment Required

Transmitter - 6 Channel or above
(Aircraft / Multicopter system)

Receiver - 6 Channel or above, PPM,DSM,SBUS signal

FPV Goggle

Balance Charger

3 cells or 4 cells Li-po Battery

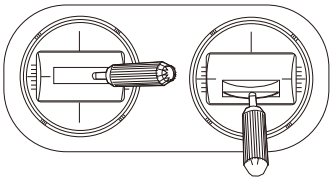
Flight Steps

1. Install Receiver (self-provided) (Please refer to P.2 - Intall Compatible RC Receiver) to quad
2. Install Battery (self-provided) (Please refer to P.1 - Battery Installation)
3. After binding (self-provided) Receiver and Transmitter (self-provided), please go to the pre-flight check (Please refer to P.9 - Pre-flight check)
4. Install Props (Please refer to P.19 - Main Blade Assembly Introduction)
5. Motor Unlock (Please refer to P.13 - Motor Unlock)

Motor Unlock

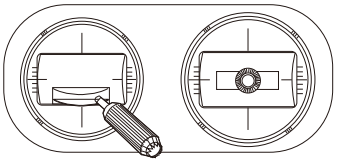
After Binding, Place the throttle stick at the bottom and push the aileron stick to the rightmost for at least 3 second . Then release.

Mode 1



Aileron Stick Throttle Stick

Mode 2

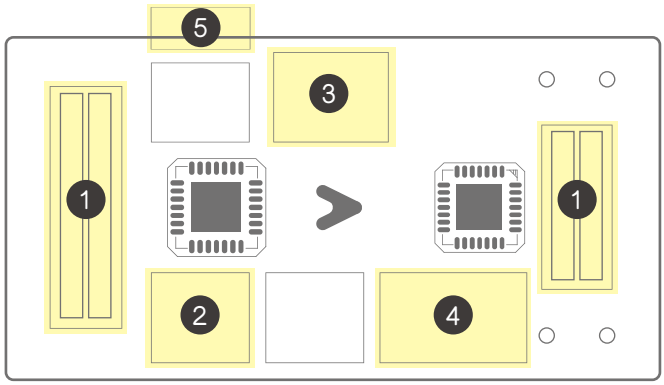


Throttle/Aileron Stick

Main Control Board Introduction

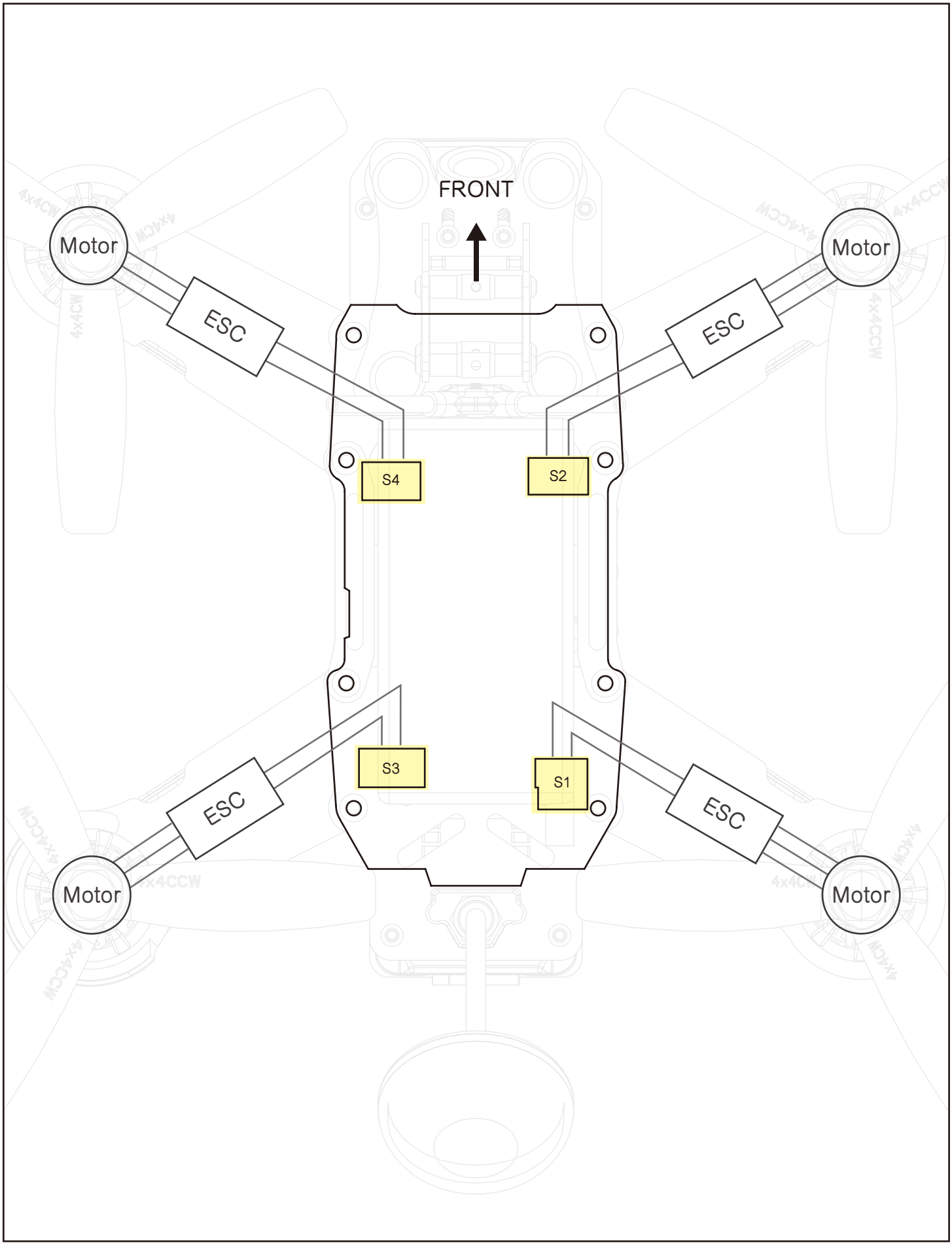
1. 5V Camera Socket (with VOL-L/R) 5 PIN
2. 5V Camera Socket 3 PIN
3. 12V Camera Socket 4PIN
4. Green LED Light Socket (Front)
5. B. ESC Control Signal Socket S4
6. 5.8G Video Socket
7. Green LED Light Socket (Front)
8. B. ESC Control Signal Socket S2
9. B. ECS Power Connecter S2
10. OSD Parameter Adjustment Socket
11. B. ECS Power Connecter S4
12. Low V. Alarm Singal Input / Video R channel Socket
13. B. ESC Control Signal Socket S6
14. B. ESC Control Signal Socket S5
15. DSM Signal Input Socket
16. USB Signal Input Socket
17. SBUS Signal Input Socket
18. PWN Signal Input Socket
19. Flight Control Socket
20. Channel Switcher
21. External Buzzer / Conditional LED Socket
22. PPM Signal Input Socket
23. B. ESC Control Signal Socket S1
24. Red LED Light Socket (Rear)
25. B. ECS Power Connecter S1
26. Flight Control Buzzer
27. Li-Po Battery Socket
28. B. ECS Power Connecter S3
29. B. ESC Control Signal Socket S3
30. Red LED Light Socket (Rear)

Flight Control Introduction



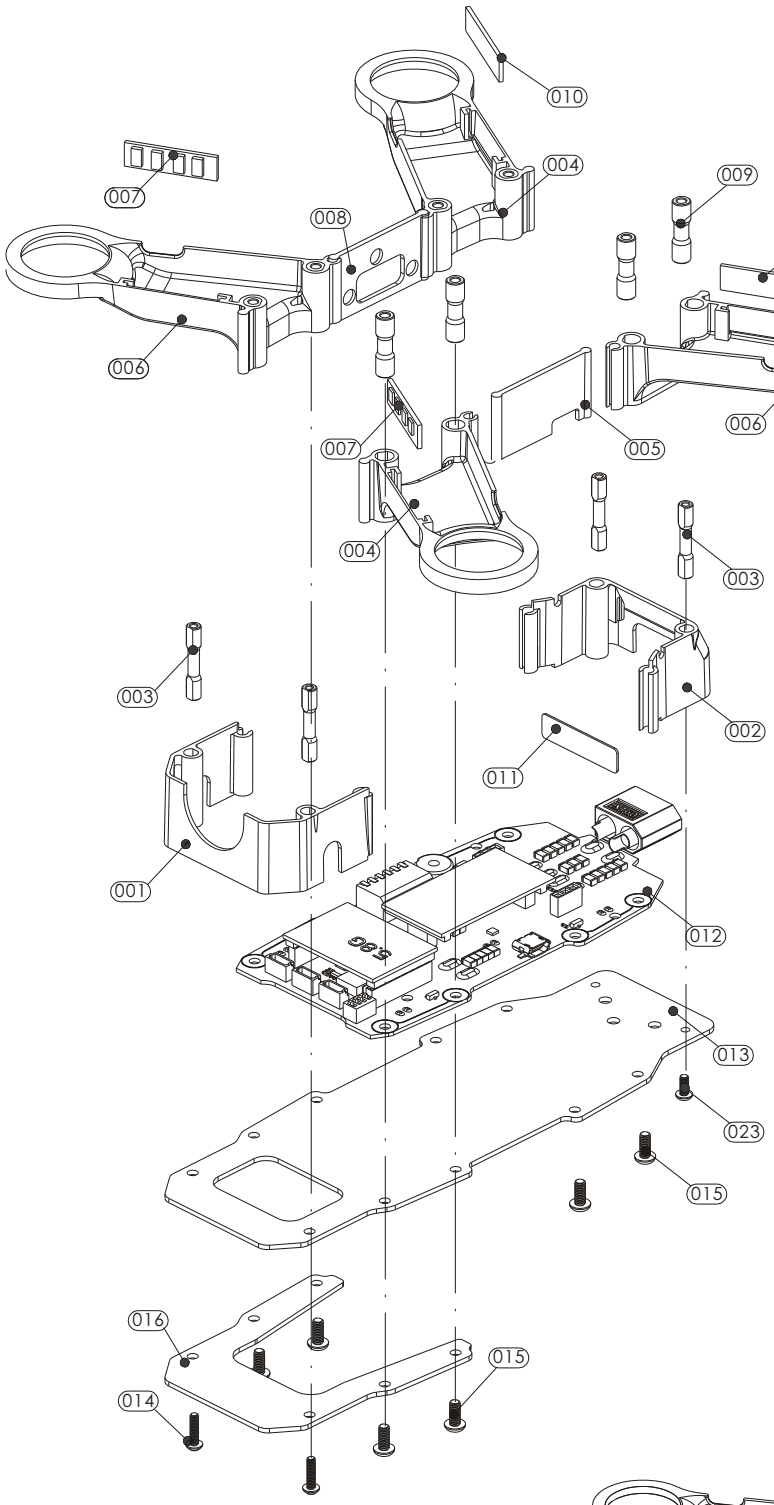
1. Flight Control Socket
2. GPS or DATA Socket
3. Geomagnetic sensor and Barometer socket
4. Sonar sensors and Signal strength input socket
5. BOOT Switch

Welding Introduction

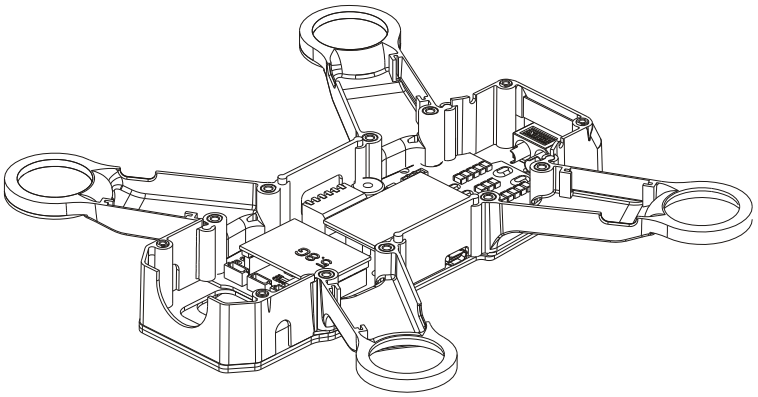


Assembly Introduction

(Before Assembly, Ensure Motor and ESC has been welding on the Main Control Board)



No.	Specification	Quantity
001	Front Body Cover (Plastic)	1
002	Rear Body Cover (Plastic)	1
003	Mount Rod for Front and Rear	4
004	Arm Cover (Front)	2
005	Left Body Cover (Plastic)	1
006	Arm Cover (Rear)	2
007	LED Light Set (Green)	2
008	Right Body Cover (Plastic)	1
009	Mount Rod for Center	8
010	LED Light Set (Red)	2
011	LED Light Set (F/C Condition)	1
012	Main Control Board	1
013	Main Plate (Bottom)	1
014	M2*6 Screw	2
015	M2.5*6 Screw	8
016	Top Fixed Plate (Front)	1
023	M2*5 Screw	2

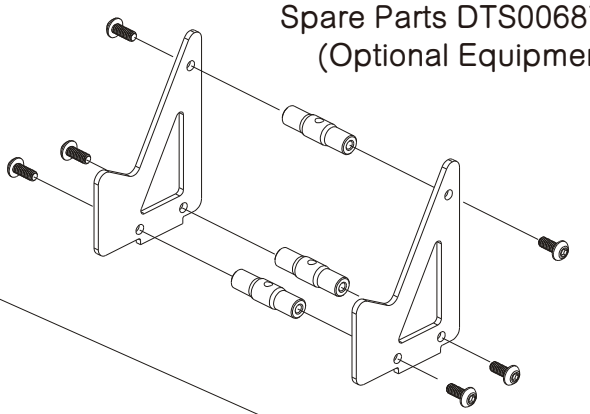


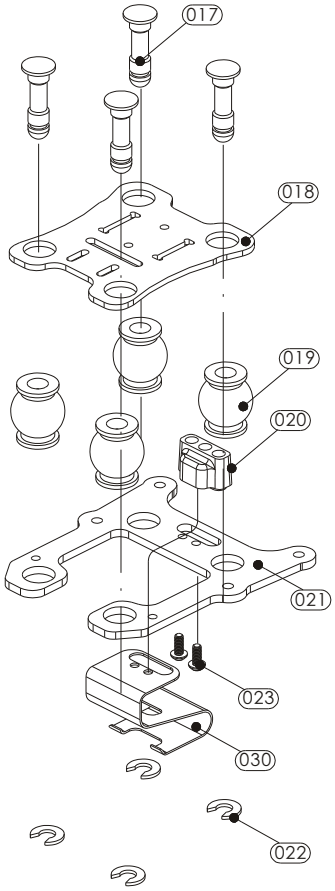
Step One Diagram

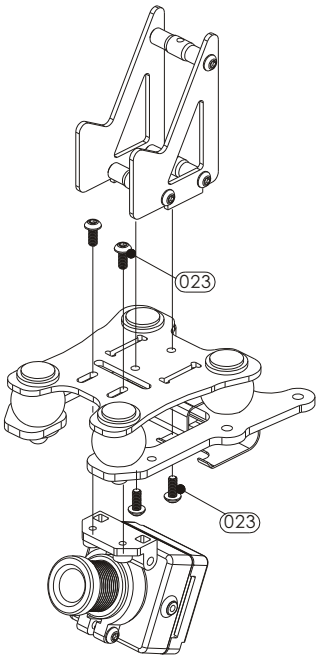
Assembly Introduction

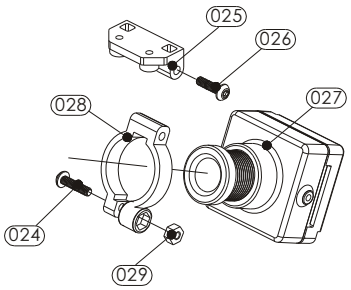
(Before Assembly, Ensure Motor and ESC has been welding on the Main Control Board)

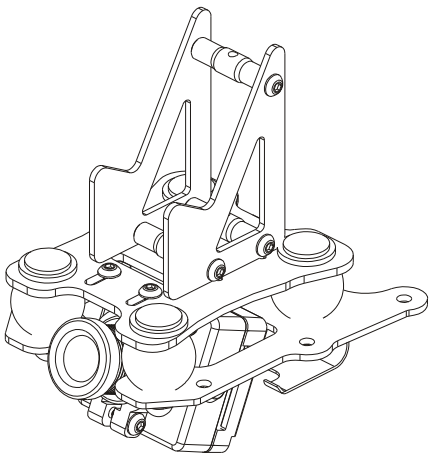
Spare Parts DTS006871
(Optional Equipment)









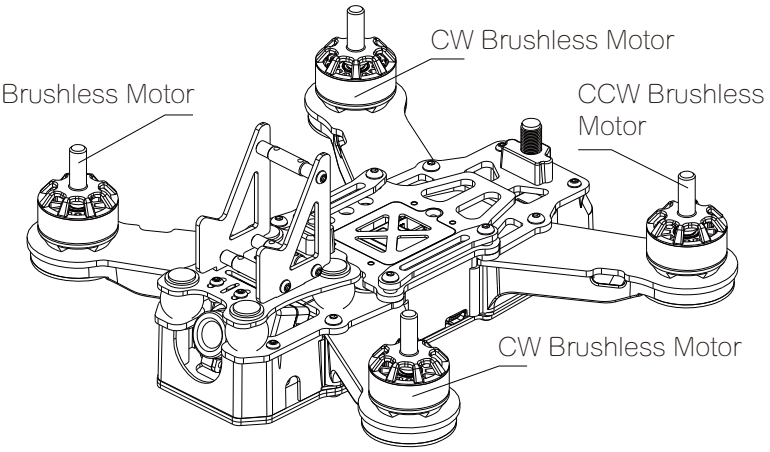


NO.	Specification	Quantity
017	Camera Damping Rod	4
018	Camera Damping Plate	1
019	Camera Damping Ball	4
020	Antenna mount	1
021	Top Fixed Plate (Front)	2
022	Camera Damping Ball Ring	4
023	M2*5 Screw	4
024	M2*12 Screw	1
025	Camera Mount	1
026	M2*16 Screw	1
027	FPV Camera	1
028	Camera Mount	1
029	M2 Screw Nut	1
030	Video Tx Holder	1

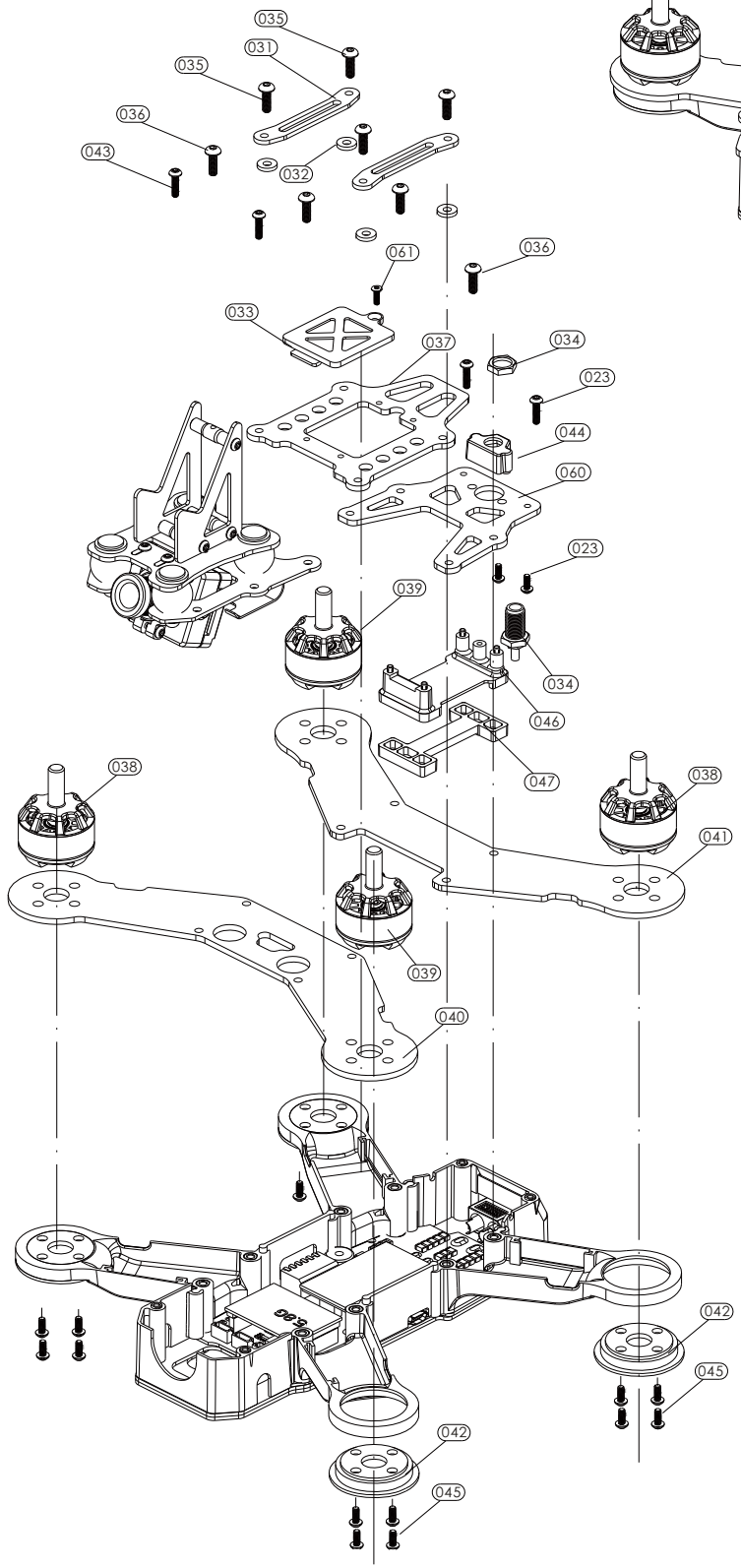
Step Two Diagram

Assembly Introduction

(Before Assembly, Ensure Motor and ESC has been welding on the Main Control Board)



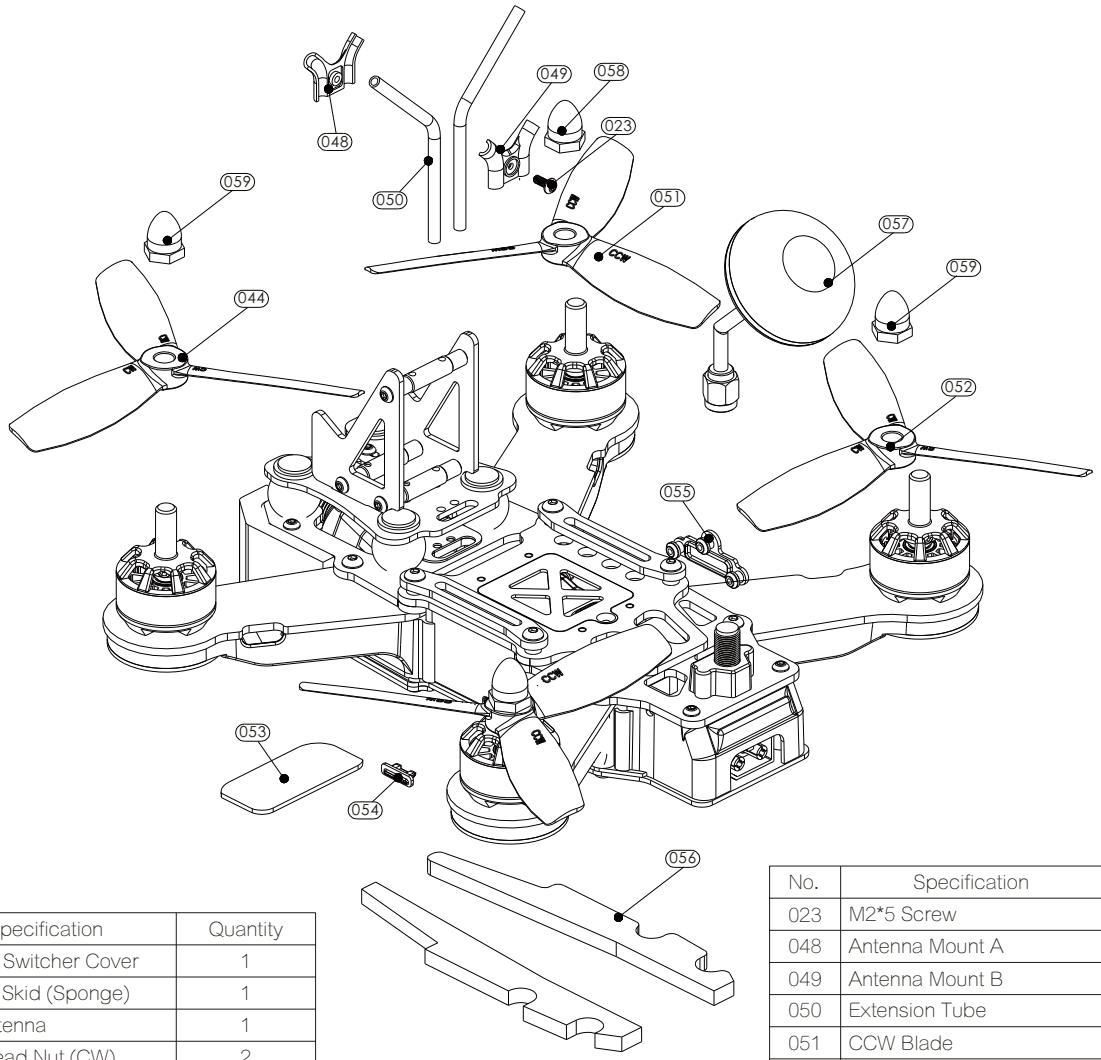
Step Three Diagram



No.	Specification	Quantity
023	M2*5 Screw	4
031	Battery Fixed Plate (Side)	2
032	O Ring	2
033	Cover for Receiver Placement	1
034	Antenna Mount	1
035	M2.5*12 Screw	4
036	M2.5*8 Screw	4
037	Battery Fixed Plate (Center)	2
038	CW Brushless Motor	2
039	CCW Brushless Motor	2
040	Front Arm Cover (Plastic)	1
041	Rear Arm Cover (Plastic)	1
042	Motor Mount	4
043	M2*7 Screw	2
044	5.8GHz Antenna Mount	1
045	M3*6 Screw	16
046	Flight Control Holder (Top)	1
047	Flight Control Holder (Bottom)	1
060	Rear Fixed Plate (TOP)	1
061	M2*5 Screw	1

Assembly Introduction

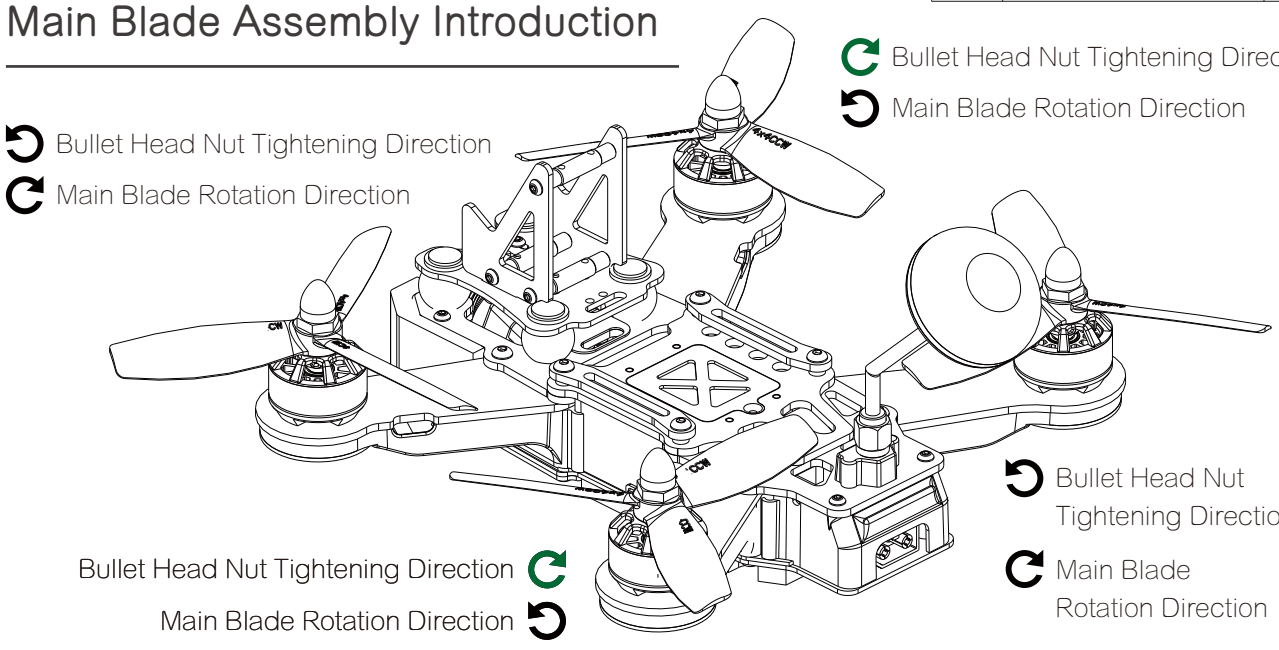
(Before Assembly, Ensure Motor and ESC has been welding on the Main Control Board)



No.	Specification	Quantity
055	Channel Switcher Cover	1
056	Landing Skid (Sponge)	1
057	5.8G Antenna	1
058	Bullet Head Nut (CW)	2
059	Bullet Head Nut (CCW)	2

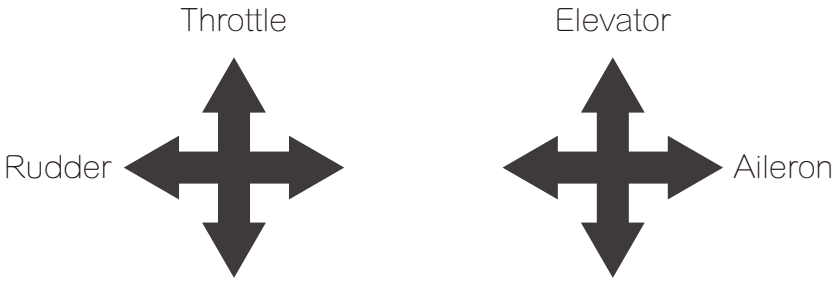
No.	Specification	Quantity
023	M2*5 Screw	1
048	Antenna Mount A	1
049	Antenna Mount B	1
050	Extension Tube	2
051	CCW Blade	2
052	CW Blade	2
053	Landing Skid (Sponge)	1
054	USB socket Cover	1

Main Blade Assembly Introduction

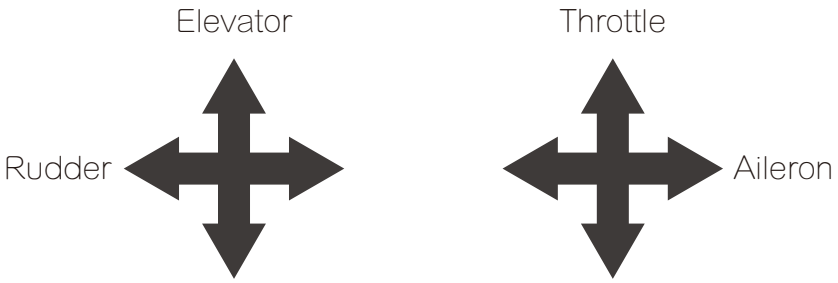


Flight Control Introduction

Mode 2



Mode 1



Mode 2 is the most common mode in USA, always use on RC Helicopter and Multicopter.
To identify Mode 2, we can find where is the throttle stick, if the left stick push to the top and it wasn’t bounce back to middle, it should be Mode 2.

Mode 1 we can find it in Euro usually.
To identify Mode 1, we can find where is the throttle stick, if the right stick push to the top and it wasn’t bounce back to middle, it should be Mode 1.

Otherwise, Mode 3 and Mode 4 is a very special control mode, we won’t use these mode if you are beginner, either you very understand these mode already, so we won’t explain it over here.

(AUX1) Flight Mode Switch

Three flight modes are configured by the Clear Flight, and are maped by default to channel 5 (AUX1) of the R/C Tx.
These modes are as follows：

Angle (Pos 1)

Angle mode is the easiest to learn. When the sticks are centered, the flight controller is always working to level the quad.

Horiz (Pos 2)

Horiz mode is a bit of a hybrid mode. It does auto-level, buy also allows flips and rolls.

Acro (Pos 3)

This mode is the preferred mode for the more advanced mini-quad pilot. In many ways it is the simplest mode, but also the hardest mode to learn.

In Acro mode, the accelerometer part of the IMU is not used, only the Gyro.
Because of this, the quad will not self-level, explaining the steep learning curve for this mode.
To learn this mode, it is recommended to start flying the quad FPV, in Level mode, get some altitude, and switch into Acro mode.

Landings in Acro mode can be a bit challenging for the beginner, so switching to Level mode before landing is a reasonable way to deal with this.

Acro mode is the ideal mode to have fun with flips and rolls.

(AUX2) OnScreenDisplay and Beeper Switch

OSD and Beeper Switch are configured by the Clear Flight, and are maped by default to channel 6 (AUX2) of the R/C Tx. These functions are as follows：

Display OSD on your Goggles or Monitor (Pos 1)

Do not show OSD on your Goggles or Monitor (Pos 2)

Switch on Beeper on your Quad (Pos 3)

Compatible Open Source

The development of the DTS, flight control firmware has referenced from the popular open source(F3), it would not have been possible without the effort of a large team of individuals who invested in the open source flight controller software that running on the DTS.

The variant of the open source flight controller firmware that we chose to power the DTS is Clenflight, mainly die to it is solid support of the OneShot ESC control protocol.

Since the OSD firmware needs an intimate knowledge of the flight controller API, care must be taken when installing updated Cleanflight builds.

DTS team may not have support for Beta, and recently released Cleanflight builds the day they are released, buy we are committed to keep up with changes.

Check the DTS product page for compatibility information.

Clean Flight Configurator Connection

To hook up the Clieanflight Configurator, hook up a Personal Computer via a standard Micro-USB cable, to the connector on DTS Q-series.

Be aware that making certain changes via the configurator may make operate abnormal. Please backup for resetting factory settings Before making any changes.

Spare Parts

DTS006881
Body Cover (Four Sides)

DTS006882
Arm Cover (Plastic)

GWY006883
LED Light Set (Front / Rear)

DTS006885
Motor Mount Set

DTS007091
3S 11.1V 1350mAh 40C
Li-Po Battery

DTS006887
Brushless Motor (CCW)

DTS006888
Brushless Motor (CW)

DTS006889
Main Plate (Bottom)

DTS006890
Main Fixed Plate (Front/Rear)

DTS006891
Top Fixed Plate (Front)

DTS006892
Damping Ball Set (4PCS)

DTS006893
Top Fixed Plate (Center/ Rear)

DTS006855
Mount Rod (Long) for Front / Rear

DTS006856
Mount Rod (Short) for Center

GWY006858
LED Light Set (F/C Condition)

DTS006859
Camera Mount Set

DTS006861
Antenna Mount Set

DTS006866
Bullet Head Nut CW/CCW

DTS006871
Camera fixed Mount
for Action Camera

DTS006933
Landing Skid (Plastic)

 GWY006894 Main Control Board With 20A 25mW PAL	 GWY007087 Main Control Board With 30A 25mW PAL	 GWY007084 Main Control Board With 20A 25mW NTSC	 GWY007088 Main Control Board With 30A 25mW NTSC
 GWY007085 Main Control Board With 20A 200mW NTSC	 GWY007089 Main Control Board With 30A 200mW NTSC	 GWY007086 Main Control Board With 20A 600mW NTSC	 GWY007090 Main Control Board With 30A 600mW NTSC
 GWY006875 F3 Flight control	 (RHCP) (LHCP) GWY006899 / GWY006900 Antenna Set Circular Polarized Antenna	 DTS006936 Battery Fixed Plate (Size)	 GWY006940 Receiver Connecting Cable
 DTS006929 Main Blade Set (Green)	 DTS006928 Main Blade Set (Orange)	 DTS006886 Main Blade Set (Black)	 DTS007057 Motor Cover (Orange)
 DTS007058 Motor Cover (Green)	 DTS007056 Motor cover (Black)	 GWY006878 ESC - 20A	 GWY006934 ESC - 30A

 GWY006831 Long Lens - NTSC	 GWY006952 Short Lens - NTSC	 GWY006954 Long Lens - PAL	 GWY006955 Short Lens - PAL
 GWY00xxxx 720P/60F Storage Camera	 GWY007083 DSM Signal Output Receiver	 GWY007082 SBUS Signal Output Receiver	 GWY006939 Aluminium Box
 GWY006227 AH6T Transmitter (Mode 2)	 GWY007092 AH6T Transmitter (Mode 1)		

Specification

Q220 Quadcopter

Main Blade：5 x 4 x 3
Wheelbase：220mm
Length x Width：~170mm x ~200mm
Height : ~65mm (Not included Antenna)
Weight：405g (Not included Battery)

ESC

Input Voltage ： 7V ~ 16.8V
Operating Temperature ： -20˚C ~ 65˚C
Max Continuous Current ： 30A

Brushless Motor

Input Voltage ： 11.1V ~ 14.8V
Stator Arms ： 12
Max Continuous Current(3mins) ： 18A
Max continuous Power(3mins) ： 198W
Magnet Poles ： 14
Dimesion ： Ø5 xØ27.7 x 30.7cm
Weight ：28.4g

5.8G Video Transmitter

Input Voltage：5V
Operating Current：350mA
Operating Frequency：5.8GHz
Antenna Interface：SMA
Transmitting Power：25mW, 200mW , 600mW (Selectable)
Dimesion：30 x 21mm
Weight：3g

Circular Polarized Antenna Transmitter

Operating Frequency ： 5.8GHz
Antenna Gain ： 1 dBi
Operating Temperature ： -20˚C ~ 80˚C
Impedance ： 50 OHM(Ω)
Antenna Interface ： SMA
Colverleaf ： 3 Pieces
Dimesion ： Ø35 xØ5 x 60mm
Weight ： 10.1g

Camera

Input Voltage： 5V
FOV ： Horizonal 90˚
Interface ： CVBS
Video Output Format ： Selectable PAL、NTSC
Aspect Ratio ： 16:9

Flight Control

Input Voltage：7V ~16.8V
Operating Frequency：1000Hz
Operating Temperature：-20˚C ~ 65˚C
Maximum Tilting Angle ： 80˚
Maximum Angular Speed：2000˚/ Sec

DTS