F6TB Manual

2.4G transmitter system

www.fd-rc.com

Contents

1 Preface

1.1 Important statement

1) The transmitter is suitable for experienced pilots beyond 14 years old.
2) Flying the model aircraft in approved ground is a must.
3) We are not responsible any safety caused by operation, usage or control once the transmitter is sold out.
4) We consign our distributors to offer technical support and service after sale. Please contact the local distributors for problem solutions cause by usage, operation, maintenance, etc.

1.2 Safety notice

1) Far away from obstacle and people
RC aircraft in flights is uncertain of flight speed and status, which potential risk exists in when flying. Please keep your radio controlled aircraft far away from people, high buildings, high-tension line, etc, and avoid operating in rain, storms, thunder and lightening.

2) Far away from humidity environment
Radio system should be kept away from humidity and vapor because it is composed of complicated precise electronic elements and mechanical parts.

3) Proper operation
Use original spare parts to upgrade, modify or maintain your equipment in order to assure its safety. Please operate your equipment within the range of functions permitted. It is forbidden to use out of the safety laws or regulations.

4) Safety operation
Operate your equipment according to your body status and flight skills. Fatigue, listlessness and misoperation will increase the possibilities of accidental hazard.

5) Far away from heat sources
The inside of the transmitter is composed of precise electronic components and mechanical parts. Keep it far away from heat sources and sunshine to avoid distortion, or even damage caused by high temperature and Max. operation temperation: +55 degree

6) Supply power correct
Please read the voltage range of transmitter and receiver from the manual, don't use the voltage beyond the range to supply power to transmitter and receiver.

1.3   Attention before flight

1) Ensure the battery packs of both transmitter and receiver are fully saturated.
2) Please ensure that the transmitter and receiver binding success, and the receiver has been set up in accordance with the failsafe.
3) Ensure both the throttle stick and the throttle trim of your F6TB stay at the lowest positions before operation.
4) When starting your flight, turn on your F6TB first, and connect the battery to the aircraft last. When turning off the aircraft, disconnect the battery first, and turn off your F6TB last.
5) Ensure whether the directions and actions of all the servos in your RC aircraft are correct when executing commands of the transmitter. Using broken servos will result in unforeseen dangers.

2 Item specification and features
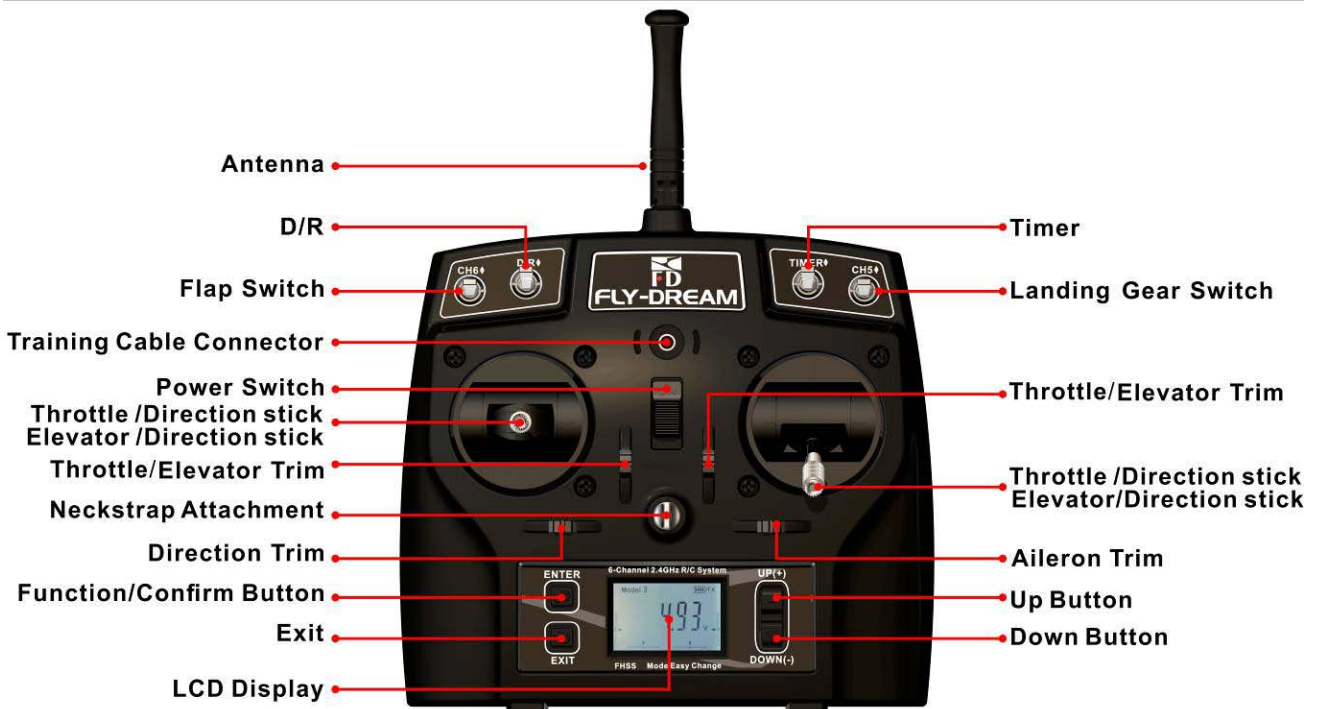Transmitter
2.1 Packing list
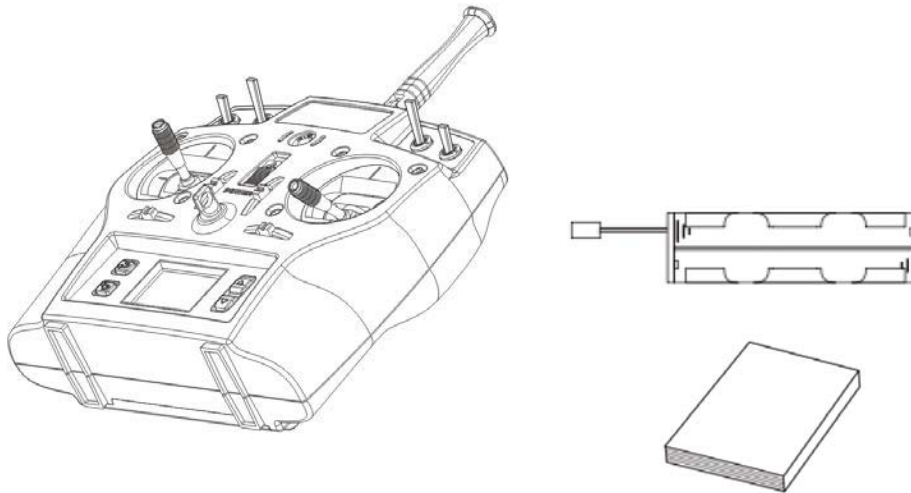
2.2 Transmitter F6TB

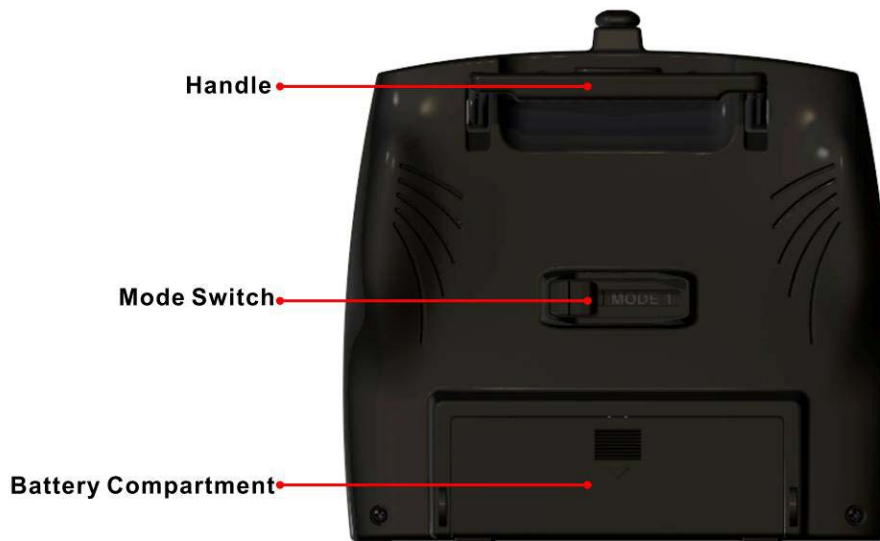| Channel	1-20CH	-	-
Frequency range	2.404GHz-2.480GHz	Rated voltage	6.0V
Spread Spectrum	FHSS	Operating current	≤200mA

1) The first choice transmitter for fixed wing plane.
2) To break the traditional, realize a second to switch from left to right quickly
3) Perfect design accord with human body engineering, the unique handle design, hold it more comfortable.
4) Antenna is stretchable, easy to carry and convenient to packing
5) Clear and legibility of the code screen, easy and convenient to debug
6) The system adopts 2.4G FHSS, compatible with FLY-DREAM V3 system.
7) High frequency output power can be adjusted, more humanized and more environmental protection
8) Save eight of fixed wing plane.
9) Digital electronic trim, position display, electronic voice prompt.

3 Operation panel

3.1 Front of F6TB

Antenna

D/R

Flap Switch

Training Cable Connector

Power Switch

Throttle /Direction stick
Elevator /Direction stick

Throttle/Elevator Trim

Neckstrap Attachment

Direction Trim

Function/Confirm Button

Exit

LCD Display

Timer

Landing Gear Switch

Throttle/Elevator Trim

Throttle /Direction stick
Elevator/Direction stick

Aileron Trim

Up Button

Down Button

CH6 D/R FD FLY-DREAM TIMER CH5

ENTER 6-Channel 2.4GHz R/C System UP(+)

Model 3 FD6TX

4.93v

EXIT FHSS Mode Easy Change DOWN(-)

3.2 Back of F6TB

Handle

Mode Switch

MODE 1

Battery Compartment

4.1 Model choice

Press the button of "Enter" and gets into model choice interface, screen will display as:
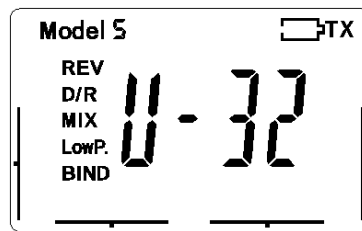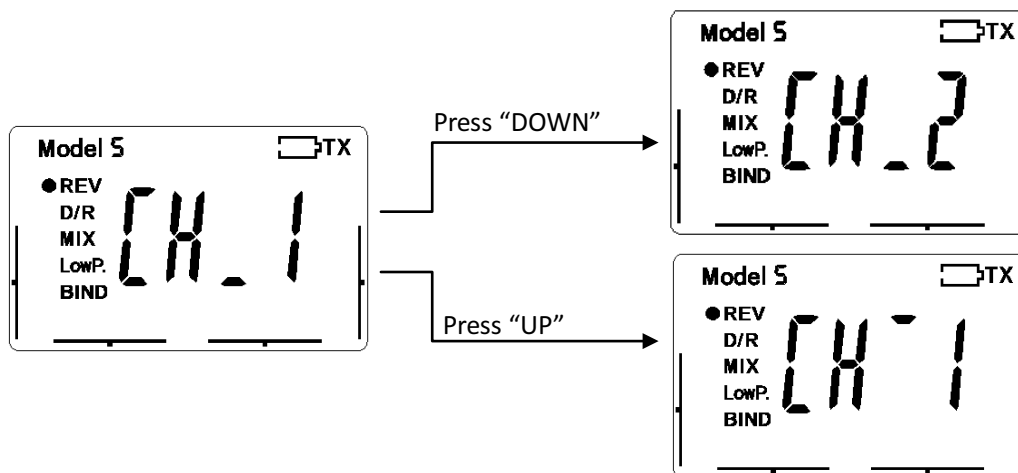

You can change the model No. by "UP" and "down", and gets into channel reverse interface. Press "Exit" button exit setting.

U-32 display on the screen is the version of transmitter V3.2.
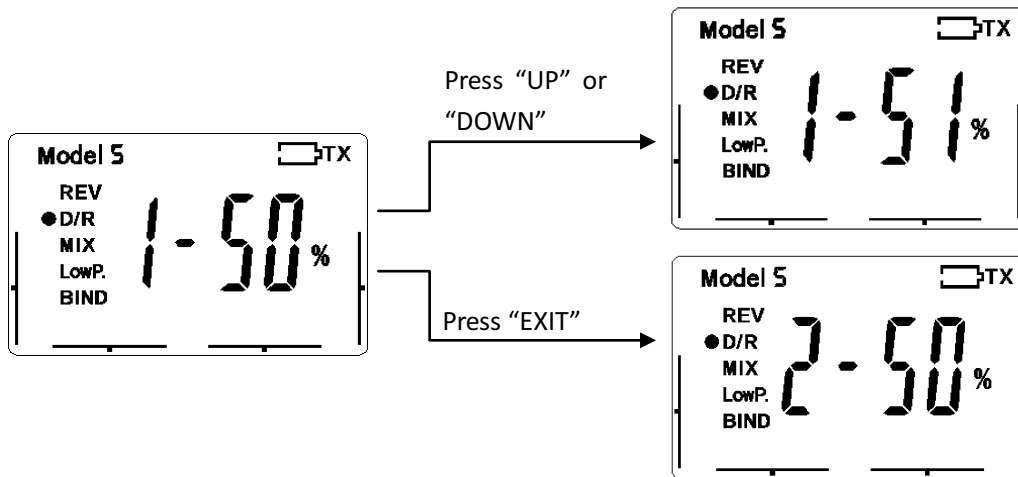
4.2 Channel reverse

Press "ENTER" and gets into "channel reverse setting" interface, screen display as :

Change channel by press "DOWN", press "UP" change channel reverse setting.Please save the setting after confirm, and gets into "Dual rate setting". Press "EXIT" to exit the setting.

4.3 D/R setting

Press the button "ENTER" gets into "D/R setting" interface, csreen will display as :

Press "EXIT" button to change the channel No., Press "UP" or "DOWN" change rudder value.After confirm press "ENTER" button save setting, and enter "D/R setting"interface.

F6TB transmitter can adjust three channels of small rudder proportion (CH1,CH2…CH20). During use, you can through the "D/R" switch on the left of transmitter to realize the small and big rudder change. Please note that, when clicked "D/R" switch, the rudder of three channels change at the same time; Switch up is big rudder, switch down is under small rudder.

4.4 Power supply setting

Press "ENTER" gets into "low power setting" interface,screen display as:
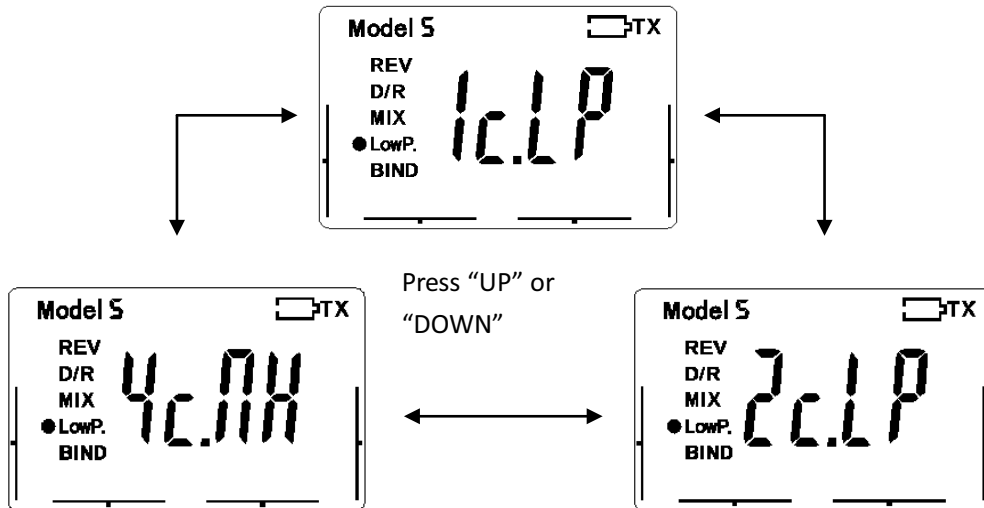
Press "UP" or "DOWN" key to change low power supply scheme, F6TB can choose 1 s lithium battery (1 c. LP), 2 s lithium batteries (2 c. LP) or 4 cell dry battery, nickel metal hydride, nickel cadmium battery (4 c. NH). Different low power supply scheme, the system will automatically adjust alarm voltage value; make sure that the users' battery won't over discharge. After confirm press "ENTER" save the setting and gets into "Bind" interface. Press "EXIT" button exit setting

4.5 Bind setting

Press"ENTER" button and gets into "Bind " interface,screen display as:
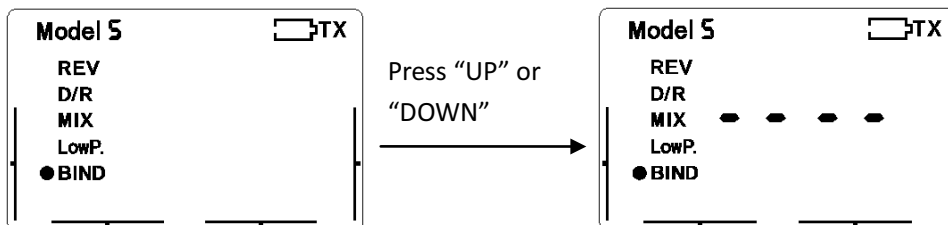
Press "UP" or "DOWN" gets into the bind settings, screen four eight segment code position in turn display "-", the transmitter stops working, start to transmit code information. Hold the button under "V3" of IS-6R and supply power to it, the red LED receiver on lights up, released the button before the red LED off, the red LED will flash 6 times, suggests that bind success. Press the "EXIT" three times, transmitter will exit bind setting and gets into normal working state. Supply power to receiver again, receiver gets into normal working.

Notice: Once the receiver was bind, it will be automatic initialization; the earlier failsafe information will be cleared, so after bind please reset the failsafe.

5 Senior menu

Press "ENTER" and turn on the transmitter gets into senior menu.You can set timer and power.

Press "EXIT"

```
1-01
```

```
b--P
```

```
20db
```
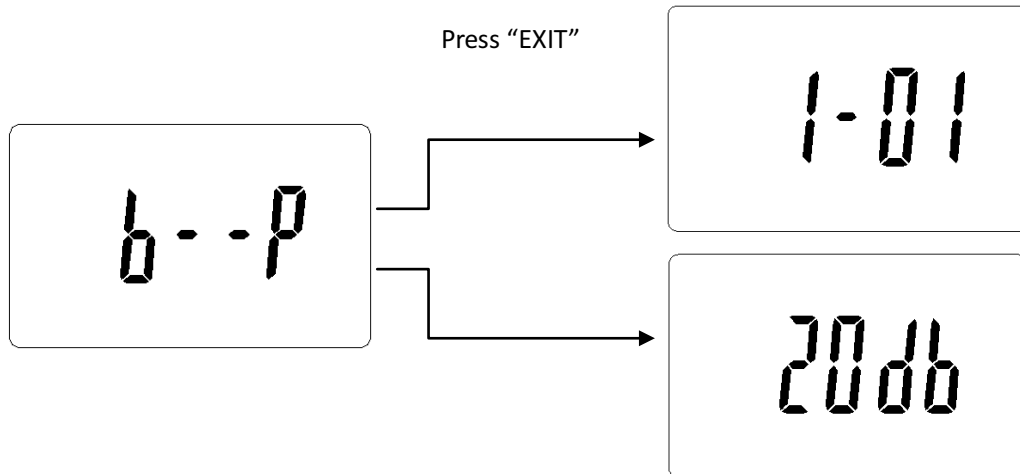
5.1 Timer setting

After into the senior menu, press "ENTER" button get into "timer setting" interface, screen display model number and timing time (unit for minutes). Such as: the current screen display : 1-01, indicating that the model NO. 1 time for 01 minute. Press the "UP" or "DOWN" key to change timing, press "ENTER" key to change model number.

After finished, press "EXIT" save the setting and back to senior menu interface. Switch down the timer, screen will display as follow:

```
Model 5         [████]TX
        00:00
```
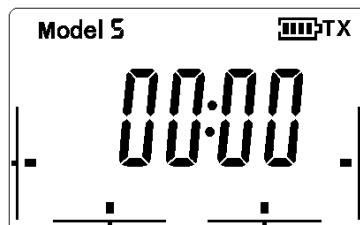
Put up the throttle stick, at the beginning of timer; Throttle stick in idle, pause timer; Timing to the set value, the remote control buzzer will slow ring alarm; switch up the timer, closed down the timer.

5.2 Transmit power setting

After into senior menu, press "EXIT" into "Transmit power "

6 Mode choices

Press "ENTER" and "EXIT" at the same time turn on the transmitter then into mode choice interface, you can choose "hand type choice" and "country and area choice" two settng.
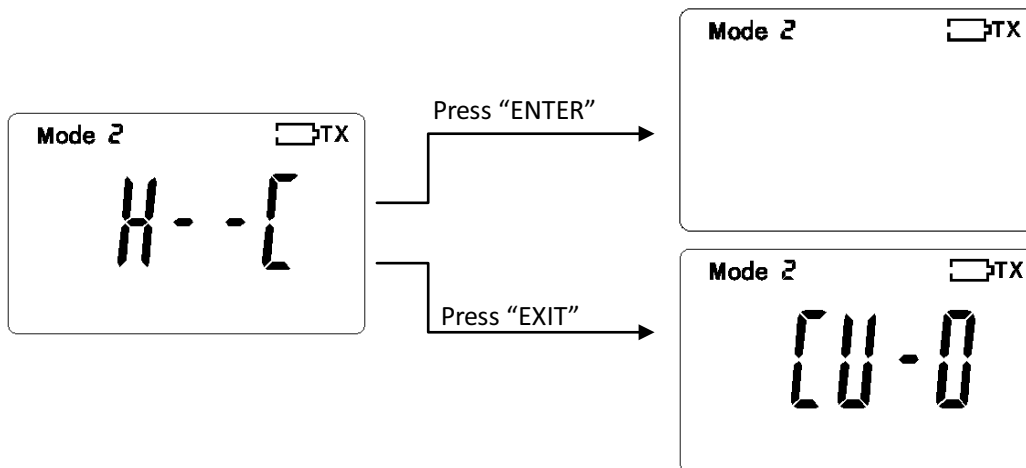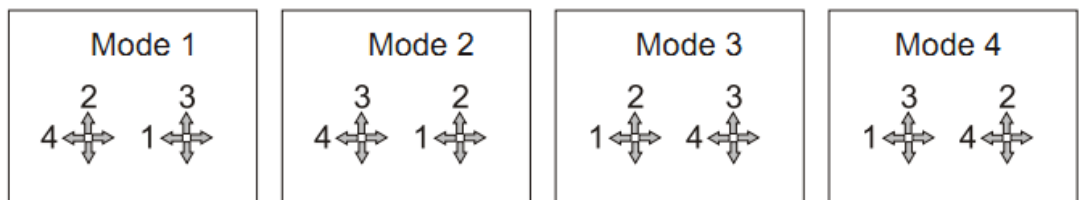

6.1 Hand Type Choice

After into"Mode choice" interface, press "ENTER" into "hand type choice" interface,screen display the current hand mode. Press "UP"or "DOWN" change hand mode.Press "EXIT" save setting and back to the senior menu interface.
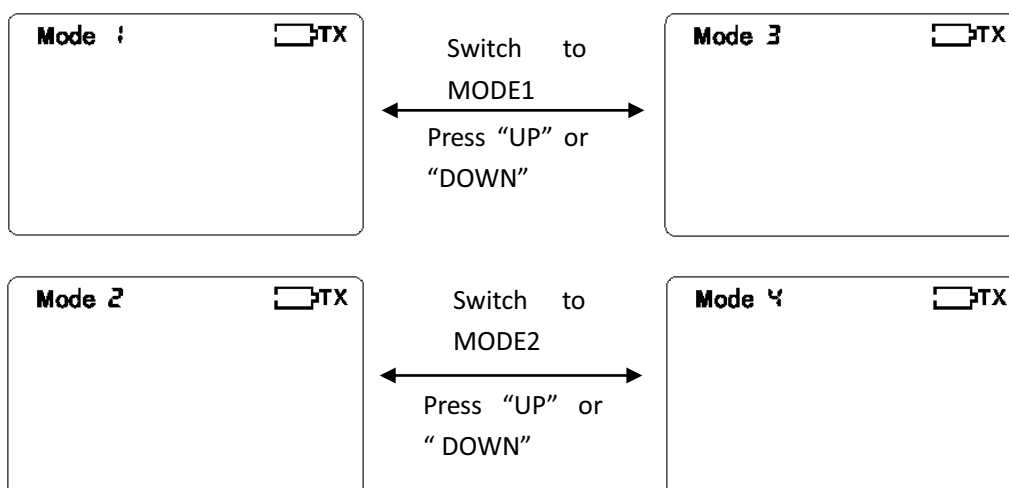
There are four kind of hand model for choosing(F6TB)

1--Aileron
2--Elevator
3--Throttle
4--Rudder

Make the switch on the back of F6TB to MODE1 mode, press "UP" or "DOWM" can choose Mode1 or Mode3, Make the switch on the back of F6TB to MODE2 mode, press "UP" or "DOWN" buttons can choose Mode2 or Mode4

After finished, press "EXIT" button save the setting and back to "Mode choices" interface.

6.2 Country and area choice

After into "mode choice"interface, press "EXIT" button into "Country and area choice" interface,screen display the current country. Press UP and DOWN buttons can choose countries.

Four eight segment code position shows "CU - 0", said the international general range.
Four eight segment code position shows "CU - 1", said France frequency range.
After finished the choice, press "ENTER" button save the setting and back to "Mode choices" main interface.

| Mode 2 ▭TX	Press "UP" or " DOWN"	Mode 2 ▭TX
CU-0	⟵⟶	**CU-1**
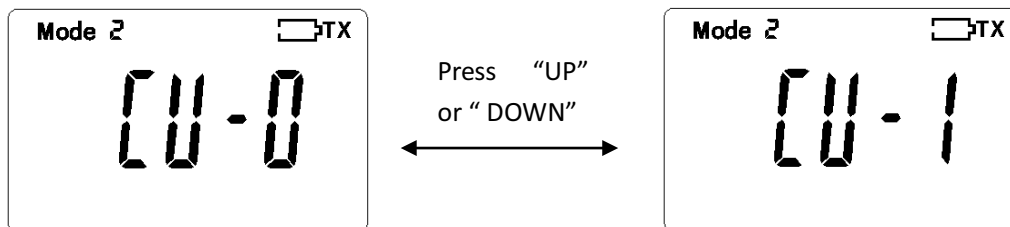
7 Failsafe

Failsafe function is used for various reasons (such as: electromagnetic interference, distance too far, transmitter without electricity, etc.) and lead to the receiver loss control. Set the failsafe, when the receiver lost signal, it will make the servo position or ESC output returns to the pre-set value automatically, which protect the model maximum

Setting:

1) After succeed binding of IS-6R, turn on F6TB.
2) Press and hold the button on the receiver (under the symbol of "Thumb"), connect the receiver to the battery. The LED on the receiver will light (about 1s) and then go out (about 1s),At this time (when the LED off) remove your hand from the receiver button. If you didn't remove your hand in time , please operate again as above.
3) Move the joystick on your transmitter to where you want the surfaces / motor etc to be in the event of lost signal. Press the button on the receiver .The LED will flash several times; this shows the receiver has remembered the position which you have set. In the rare event that your system losses signal, all channels will return to the position which you have set.
4) Turn off the power to the receiver. Failsafe is now set.

8 Simulator mode

Insert one side of simulator 3.5 audio nipple into F6TB "D.S.C" hole, the screen will display as:

Model S ▭▭TX
PPM
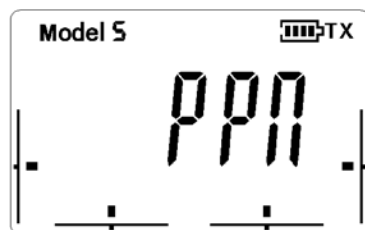
The RF function of F6TB is closed, the transmitter output PPM signal to simulator for computer simulation of flight.

FCC WARNING

Caution: Any changes or modications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Control Information

This device is in accordance with the requirements in Radio / Telecommunications Terminal Equipment Directive 1995/5/EC.

This device complies with the requirements in EMC Electromagnetic Compatibility Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.