Scout X4

deVention

- Auto Take off
- Auto Landing
- Follow me mode
- Circle flight
- Fence flight
- Single Waypoint flight

- Altitude hold mode
- One key Return To Home
- Automatic Cruise
- Hyper IOC mode
- Backtracking
- Waypoint record

Match with GCS Ground Station Software
Quick Start Guide and Systems Flowchart

● Specifications:

Main Rotor Dia. : 233mm

Overall (L x W x H): 335 x 335 x 275mm

Weight: 1770g(Battery included)

Takeoff Weight: <2270g

Transmitter: DEVO F12E

Receiver: DEVO-RX707(CE) / RX709(FCC)

Brushless Motor: WK-WS-34-002

Brushless ESC: WST-16AH (R/G)

Main Controller: FCS-X4

Battery: 22.2V 5400mAh Li-Po

Ground Station: GCS

2.4G Bluetooth Datalink: BT-2401A(FCC) / 2401B(FCC)
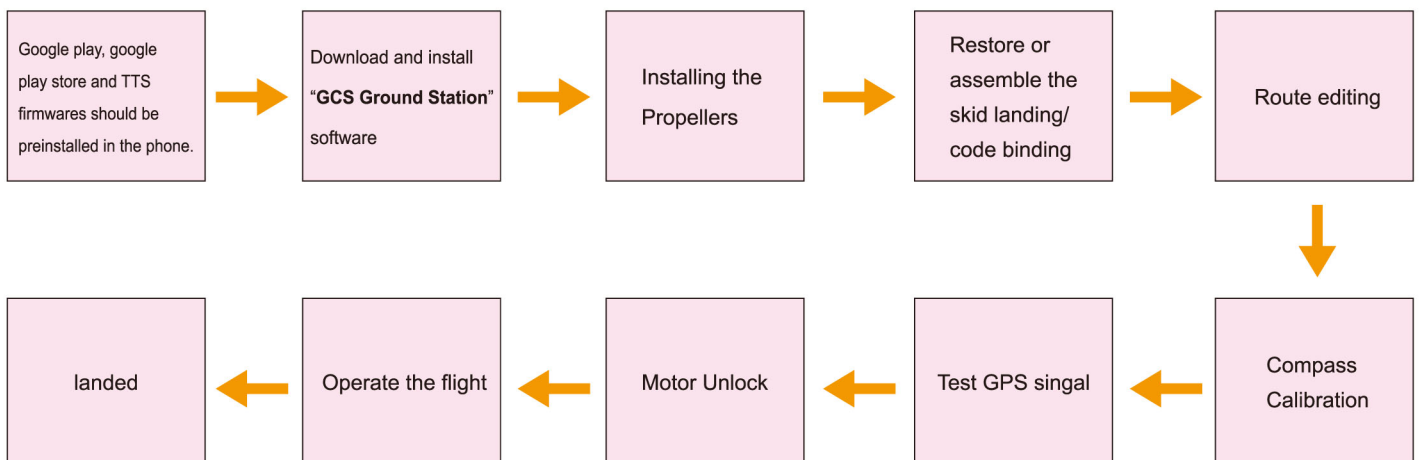BT-2402A(CE) / 2402B(CE)

M1 **M2** **M4** **M3**

● BT-2401B(FCC)/BT-2402B(CE) Battery Working Time: 6-8 hours.

● Flight Time: Non-Load 25minutes, Loaded Gimbal and Camera 20minutes.

● M1/M3 rotate in clockwise, motors are the levogyrate thread.

● M2/M4 rotate in counterclockwise, motors are the dextrogyrate thread.

● When assemble the propellers, rotating direction is oppsite to the arrow direction, the directions are the same when take down the propellers.

Contents

Simple operate steps

Google play, google play store and TTS firmwares should be preinstalled in the phone.	→	Download and install "**GCS Ground Station**" software	→	Installing the Propellers	→	Restore or assemble the skid landing/ code binding	→	Route editing

landed	←	Operate the flight	←	Motor Unlock	←	Test GPS singal	←	Compass Calibration

1.0 Devices that support Ground Station: Android and Apple phone

Android phone requirements:

(1) The Android version should be 4.0 or above, the screen resolution should be 480 x 800 pixels or above.

(2) Google play services, google play store and TTS software should be preinstalled in the phone.

2.0 Download and install software

(1) Please download the "**GCS Ground Station**" software from walkera official web (www.walkera.com) / Google for Android version 4.0 above.

(2) Apple IOS system, Please download the "**GCS Ground Station**" software from APP Store.

Suggestion: please set the phone to flight mode when you are using the GCS software to control the flight.
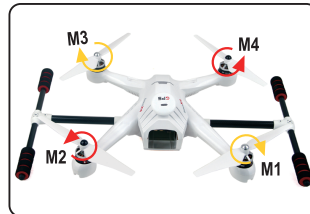
3.0 Installing the Propellers
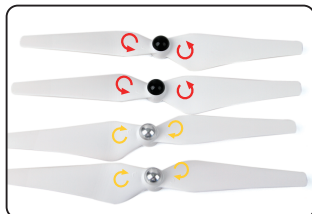
3.1 Prepare forward propeller
(Clockwise arrow mark), counter
propeller (counterclockwise
arrow mark)

3.2 Match the arrows on the
propellers to the arrows on the
arm next to each motor. Screw
each propeller onto the motor,
secure by hand, no need for tools.

3.3 Prepellers assembled
(assembled skid landing)

3.4 Prepellers assembled
(unassemble skid landing)

4.0 Restore or assemble the skid landing/code binding

### 4.1 Skid landing assembled(restoration/code binding)

The Landing gear is shipped in the retracted position. **DO NOT try to extend the landing gear by pulling on it.**
We will deploy the landing-gear the first time the system is powered, please follow these instructions carefully.


4.1.1 Install the fully charged
battery DO NOT turn on the
battery until later.
*Please check the charger
manual for charging instructions

4.1.2 Turn X4 on its back. The
belly and the retractable legs
should now be facing up.
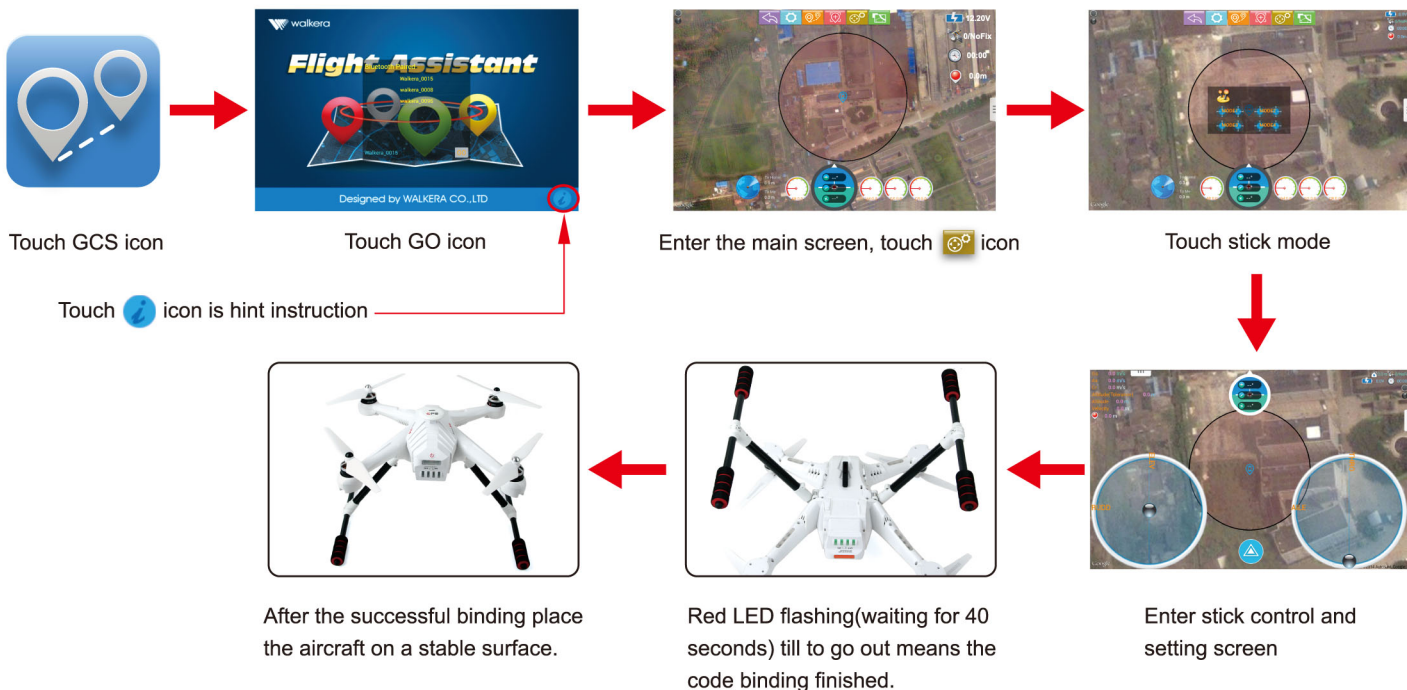MAKE SURE nothing is blocking
the legs.
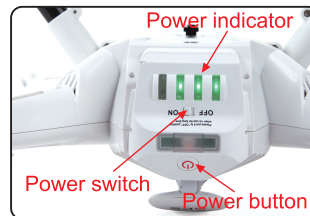
4.1.3 Turn the power switch to
"ON" position, and press on the
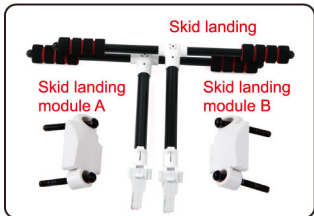power button about 3-5 second
till the Green power indicator solid.
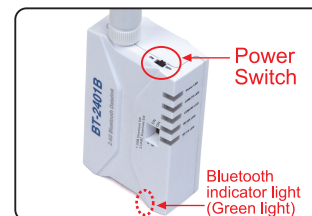
4.1.4 Turn on the power switch
(to position ON) of 2.4G Bluetooth
Datalink. The green light of
bluetooth will flash quickly,
waiting for the connection with
the phone bluetooth.

4.1.5 Enter phone settings and open the bluetooth function. In the bluetooth search list find and touch "walkera-****", input password 1234 to connect
and the connection will be successful if it displays "connected". Exit the settings when finished.

4.1.6 Touch GCS icon at middle of the mibile screen, GCS software will search automatically and display matched bluetooth, then select the matched bluetooth and touch GO icon to enter into main screen. In the main screen, touch ⊙° icon then touch stick mode to enter stick control and setting screen.(Skid landing comes back automatically)


Touch GCS icon

Touch GO icon

Touch ⓘ icon is hint instruction

Enter the main screen, touch ⊙° icon

Touch stick mode

After the successful binding place the aircraft on a stable surface.

Red LED flashing(waiting for 40 seconds) till to go out means the code binding finished.

Enter stick control and setting screen

4.2 Skid landing unassembled(assemle skid landing/code binding)

Skid landing

Skid landing module A   Skid landing module B

4.2.1 Prepare two skid landing, skid landing module A/B, 4pcs M2.5X20 screws.
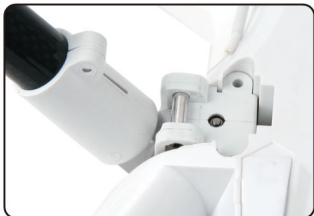
4.2.2 Put the skid landing into the skid landing position.
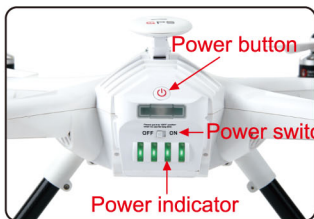

Skid landing module A   Skid landing module B
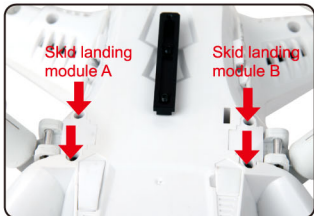
4.2.3 Install the skid landing module, and screw down the M2.5X20 screw to fix skid landing.

4.2.4 Skid landing installation finished.
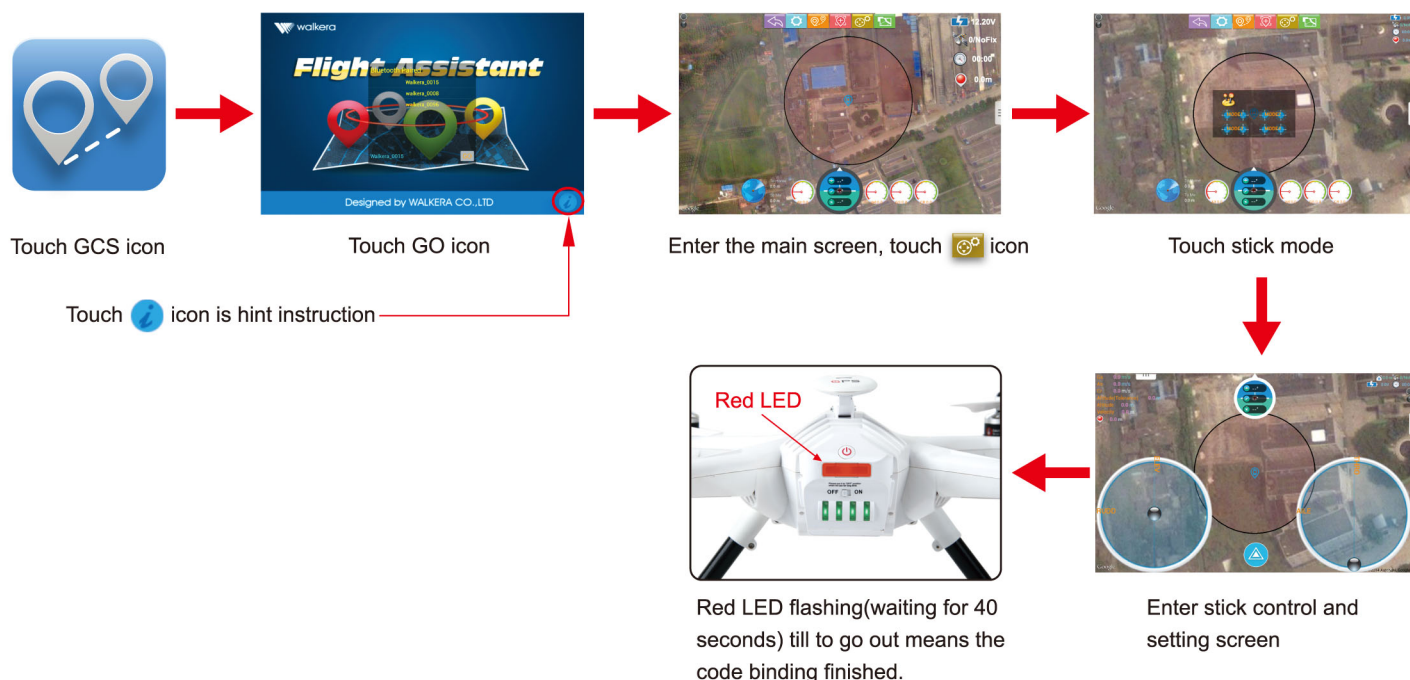

Power button

Power switch

Power indicator

4.2.5 Put the aircraft on the horizontal position, slide the power-switch to the ON position, then press on the power button for about 3-5 seconds, until the green power indicator lights solid.

Power Switch

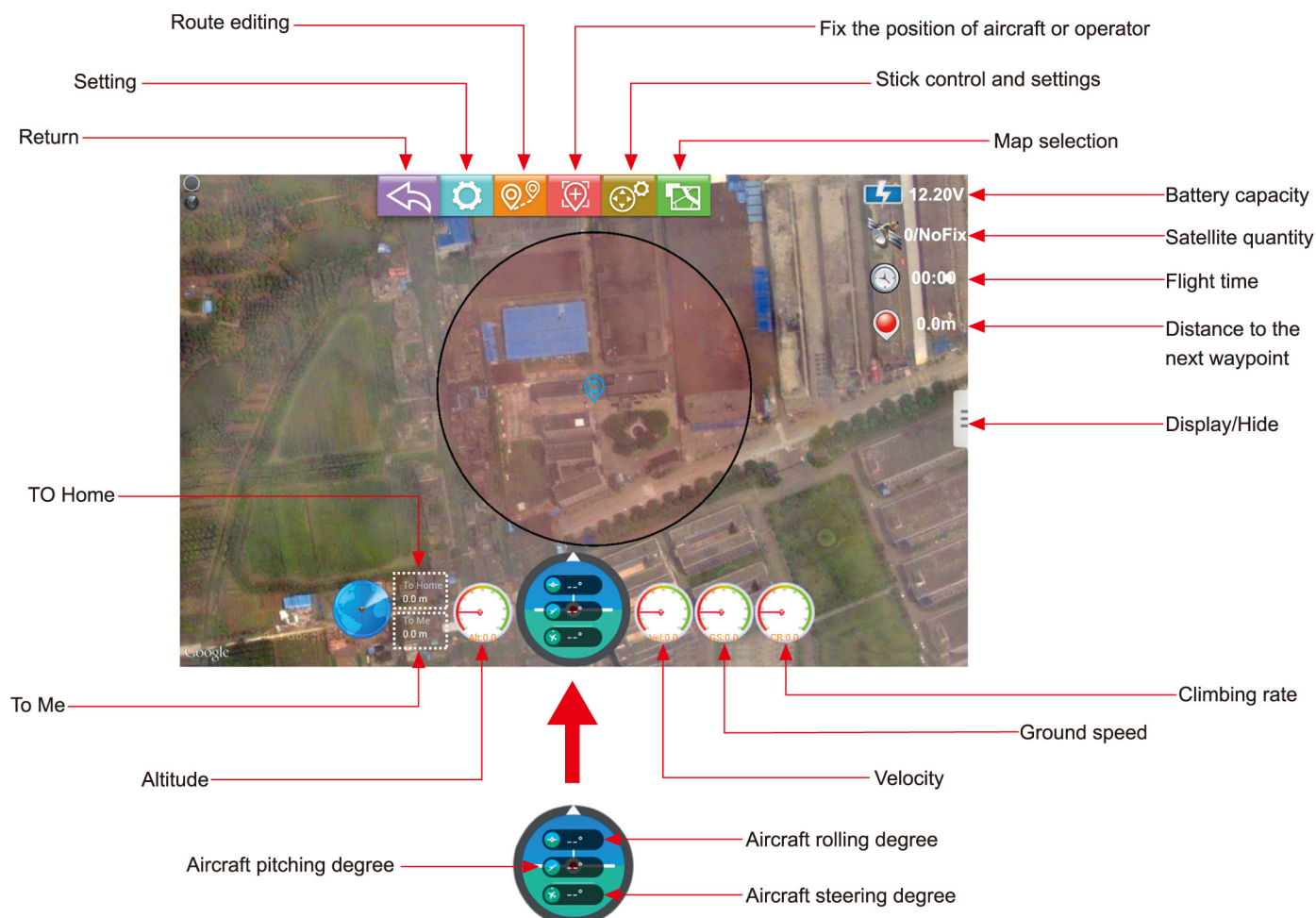Bluetooth indicator light (Green light)
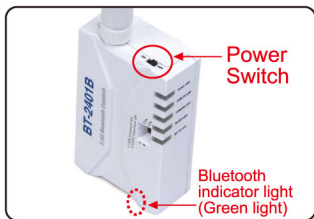
4.2.6 Turn on the power switch (to position ON) of 2.4G Bluetooth Datalink. The green light of bluetooth will flash quickly, waiting for the connection with the phone bluetooth.

4.2.7 Enter phone settings and open the bluetooth function. In the bluetooth search list find and touch "walkera-****", input password 1234 to connect and the connection will be successful if it displays "connected". Exit the settings when finished.

4.2.8 Touch GCS icon at middle of the mibile screen, GCS software will search automatically and display matched bluetooth, then select the matched bluetooth and touch GO icon to enter into main screen. In the main screen, touch [icon] icon then touch stick mode to enter stick control and setting screen.

Touch GCS icon

Touch GO icon

Enter the main screen, touch [icon] icon

Touch stick mode

Touch [icon] icon is hint instruction

Red LED

Red LED flashing(waiting for 40 seconds) till to go out means the code binding finished.

Enter stick control and setting screen

5.0 Main screen instructions

Route editing

Setting

Return

Fix the position of aircraft or operator

Stick control and settings

Map selection

Battery capacity

Satellite quantity

Flight time

Distance to the next waypoint

Display/Hide

TO Home

To Me

Altitude

Velocity

Ground speed

Climbing rate

Aircraft pitching degree

Aircraft rolling degree

Aircraft steering degree

6.0 Route editing illustration

In the main screen, touch 🔶 icon and enter route editing screen. Touch icon 🟦 to write into the aircraft when finishing route editing.

Position hold function: fix the position of aircraft or operator

Map selection

Route write into aircraft

Readout route from aircraft

Route recorded into phone

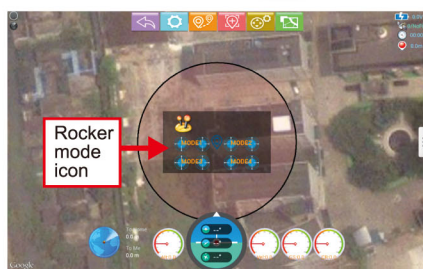Readout route from mobile phone

Waypoint increase

Route editing

Delete waypoint, long press 🟪 icon to clean up all waypoints inside the aircraft

Distance to Home: 19.5 m

7.0 Compass Calibration

In the main screen, touch ⚙️ icon then touch stick mode to enter stick control and setting screen.

Compass calibration icon

Rocker mode icon

Touch icon

IMPORTANT: Make sure the motors are locked before calibration (Aircraft red LED indicator is NOT flashing). Factory default setting, is for the motors to be locked after the completed ID binding process. (For details on motor lock and unlock process see point 10)


Compass calibration icon
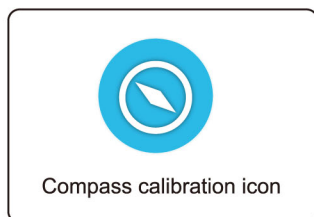
7.1 Touch the icon and enter compass calibration. The red LED of the aircraft will flash rapidly.

7.2 FORWARD rotation. Rotate tilting the aircraft forward rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg.(0 / 90 / 180 / 270 / 360)
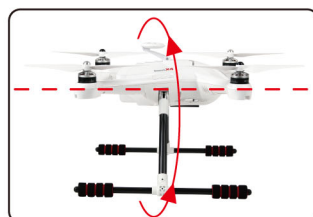

7.3 CLOCKWISE rotation. Rotate the aircraft around the roll axis rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)
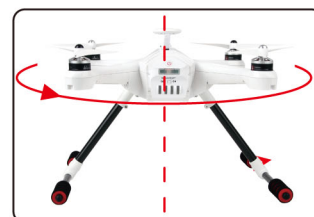
7.4 HORISONTAL rotation. Rotate the aircraft around the YAW axis rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)

Ground

Head vertical down
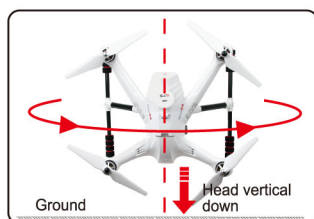
7.5 NOSE DOWN rotation. Rotate the aircraft facing the nose down. rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)

The red LED light out
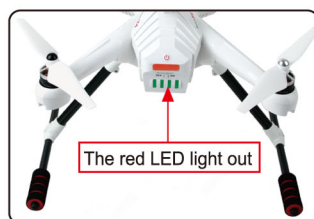
7.6 Put aircraft to the horizontal position, the red LED light out which means calibration finished. pleasereconnect the aircraft power after calibration.

● **IMPORTANT: The first couple of flights, you may expereince the aircraft drifting,**

This is normal, please continue to fly the aircraft manually, while the system inprove the calibration, after 5-10 minutes land, lock the motors, this will save the improved settings.

Notice: The slight drifting may continue for a couple of batteries, you will notice significant improvement in the GPShold & stability after 4-5 batteries.

Notice: Always perform the calibration away from eletric fields and metal surfaces.

Trivia: Different brands have different calibration processes, the process is typically refered to as "the Calibration Dance".
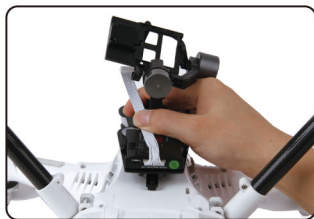
8.0 G-3D 3-axis brushless Gimbal installation

IMPORTANT: **REMOVE the battery from the Scout X4 while you install the gimbal**
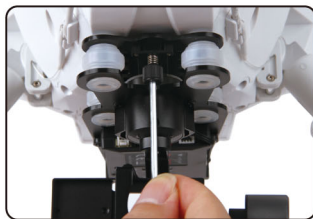The gimbal is a high-performance eletromechanical design and should be handled with great care. AVOID using force when installing.

8.1 Prepare the G-3D gimbal, M3x12 screw, spring.

8.2 Slide the gimbal unto the quik mount rail, the gimbal shouldslide from the front of the aircraft towards the rear, gently move it as far back as possible.

8.3 Install the springloaded M3x12mm "finger screw" at the front of the gimbal, this will secure the gimbal.

8.4 Connect the 9pin white data cable to the "complex data port" on the bottom of the X4, then connect the cable to the back of the G-3D gimbal.

9.0 Installing the iLook+ 1080p camera with 5.8ghz video link

9.1 Screw the short "mushroom" antenna into the camera, use the included wrench to gently secure the antenna, do not use force.

9.2 Release the two M2x4 screws securing the camera mounting bracket.

9.3 Install the camera into gimbal, Fix it with camera fixed frame (ensure the gap close to the lens), then screw the M2x4 screw to the camera fixed frame again.
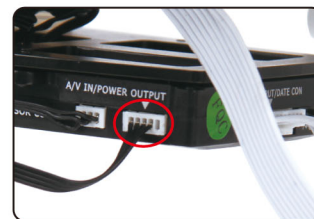
9.4 Connect the cameras power cable to the power port on the G-3D gimbal controller.

9.5 The iLook+ camera is now successfully installed in your G-3D gimbal.

10.0 Motor Unlock / Lock

10.1 Motor Unlock

After successful in binding the code, push the throttle control ball to the lowest point when under stable mode. Long press stable mode icon 🔺 , when the red LED indicator turn solid red, it means that the motor is unlocked. In this condition, if you turn upward the throttle control ball, the motor will run.

Note: For safety, the motors will automatically lock after 10 seconds. This means, if you do not start flying in 10 seconds, you have to unlock the motors again.

10.2 Motor Lock

After unclock the motor, push the throttle control ball to the lowest point, long press "AUTO Take Off " icon 🔼 , when the Red LED indicator light out means the motor locked, and the motor won't moved if you push up the throttle control ball.

Long press stable mode icon: Motor unlocked

Long press AUTO take off icon: motor locked

11.0 GPS indicator lights

GPS Satellites	<6	6	7	8	9	10	11	12	13
The blue LED status	No blinking	Blinking once	Blinking 2 times	Blinking 3 times	Blinking 4 times	Blinking 5 times	Blinking 6 times	Blinking 7 times	Blinking 8 times

IMPORTANT: For SAFE flight in GPS flight mode: the BLUE indicator light should at least "double" blink, (two blinks at a time).

It is highly recommended to wait for "triple blink" 8 statelites before starting the flight.

NEVER attempt to AUTO-START with less than "triple blinks"

12.0 Function and stick control interface description

In the main screen, touch ⚙ icon then touch stick mode to enter stick control and setting screen. Long press stable mode icon △ motor unlocked.
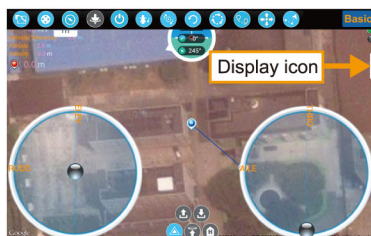
Touch AUTO take off icon ⬆ or push throttle control ball.

Touch display/hide icon

Display/hide icon
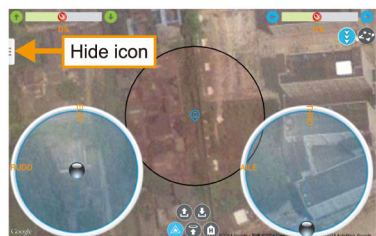
As shown in figure interface

Hide icon
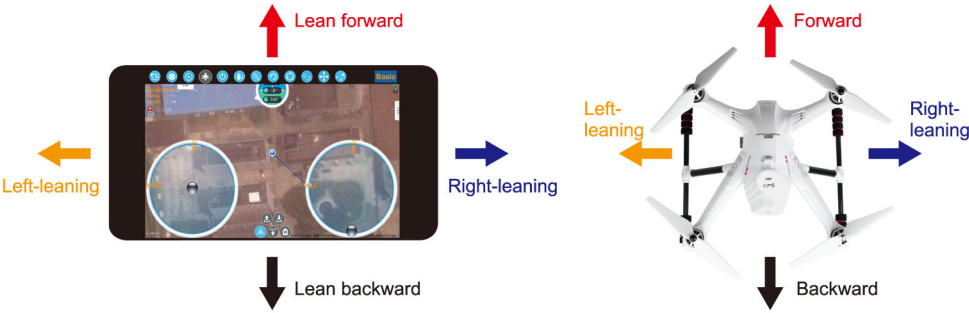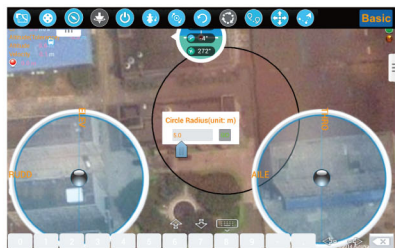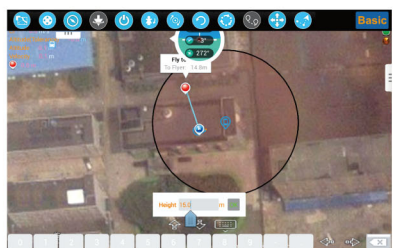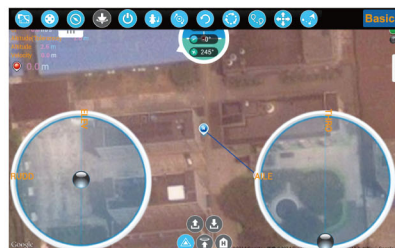
Touch display icon

Display icon

Touch senior function icon

Senior function icon

Function	Icon	Instructions
Stable (normal) mode	△	Touch icon → Switch to common flight, using the control ball to control the Aircraft. Long press the icon to unlock the motor.
AUTO Take Off	⬆	Place aircraft on level ground → Unlock Motors → Touch icon → The aircraft could take off automatically. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.
Auto Landing	⬇	Touch icon → The aircraft could land automatically
Altitude hold mode	⬆	Touch icon → The aircraft could get into Altitude hold mode automatically. **Notes:** (1) You can use this function only when you can receive GPS signal and the GPS signal should be in good condition. (2) If there is no GPS signal or the signal isn't in good condition, it will enter automatically altitude hold mode, instead of holding at one position.
One key Return To Home	H	Touch icon → The aircraft could get back to the origin automatically. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.

Function	Icon	Instructions
Map selection		Map selection
Stick mode selection		There are 4 types of stick mode.
Compass calibration		Compass calibration
Gravity Sensor		The default setting is off, after turning on, it will be switched to gravity sensor control.
DATA Switch		Factory defaults are as "open".
Hyper IOC mode		IOC means the aircraft flight direction only related to the position of the first GPS signals, unrelated to head direction of the aircraft. **Notes:** (1) You can use this function only when you can receive GPS signal and the GPS signal should be in good condition. (2) During the flight, the drone will enter hyper IOC mode when the distance between the flight position of drone and the initial position where the GPS signal has been received is more than 10m. (3) When you take the headless flight, you just need to press and hold back the control ball to make the aircraft fly back to the origin.
Waypoint record		Touch icon ⟶ The aircraft could record the flight points automatically. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.
Follow me mode		Touch icon ⟶ The aircraft could follow the location of mobile automatically Touch the icon under flight condition. In the automatically altitude setting box, according to environment choose "Normal" or "Fast" to set altitude. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.

| Function	Icon	Instructions
Automatic Cruise		Touch icon ———▶ The aircraft could cruise automatically Touch icon 🔄 , the plane will cruise automatically and cruise according to pre-set route. Under condition of flight, if you want to edit a new route, please long press the Automatic Cruise Icon 🔄 . Touch icon Write to write into the aircraft when the edition is finished. Delete — Delete waypoint Cruise — Cruise according to edit route Store — Record to mobile phone Write — Write into aircraft **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.
Backtracking		Touch icon ———▶ The aircraft could get back to the origin automatically. In cruise automaticly mode, touch the icon, the aircraft will comes back automatically according to the pre-set route. **Notes:** (1) You can use this function only when you can receive GPS signal and the GPS signal should be in good condition. (2) Must touch the icon before aircraft arrive at the last waypoint to make it return back in same way.
Circle flight		Touch icon ———▶ The aircraft could circle flight automatically. Touch the icon 🔄 In the automatically radius setting box, you can set radius according to environment and touch **Go** icon to start. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.
Single Waypoint flight		Touch icon ———▶ The aircraft will hover when arriving the flight point. Touch the icon 🔄 In the automatically altitude setting box, you can set altitude according to environment and touch **OK** icon to start. **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.
Fence flight		Touch icon ———▶ Get into fence flight automatically After touching the icon, the aircraft could only fly within the set area. The aircraft will return automatically when reaching the edge **Notes:** You can use this function only when you can receive GPS signal and the GPS signal should be in good condition.

Function	Icon	Instructions
Skid landing folded		Touch the icon to make the aircraft skid landing folded
Skid landing unfolded		Touch the icon to make the aircraft skid landing unfolded.
Return distance		Return distance
Control the gimbal tilting	0% — Controlled variable	
Control the gimbal rolling	0% — Controlled variable	

13.0 2.4G Bluetooth Datalink

The 2.4G Bluetooth Datalink consists of Air end and Ground end, which provides reliable and stable long distance wireless transmission when Ground Station software be used. The signal flow is as shown below.
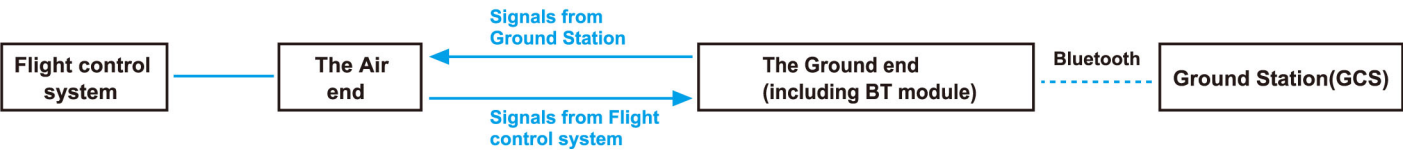
Air end: same usage as BT-2401A(FCC)/BT-2402A(CE), take BT-2402A(CE)as an example.

Ground end: same usage as BT-2401B(FCC)/BT-2402B(CE), take BT-2402B(CE) as an example.

13.1 Antenna Installation
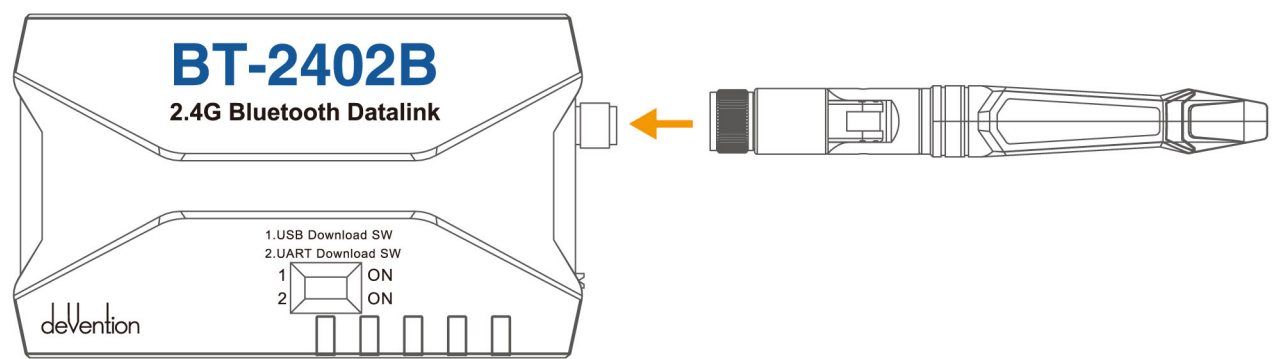
Important:

(1) If there are obstacles between the ground and air ends then the radio signal of the 2.4G Bluetooth Datalink will be weak; please make sure the antennas are always visibly unobstructed during the flight. Human body, trees, builings or hills will disconnect the link between the Air end and the Ground end.

(2) Make sure the antenna of the Air end is pointing down, and the antenna of the Ground end is pointing upwards; it's better to put the Ground end at a high place to get further transmission distance.

The end of the Antenna should be pointed upwards and unobstructed to ensure the transmitting distance.

BT-2402B
2.4G Bluetooth Datalink

1.USB Download SW
2.UART Download SW
ON
ON
1
2

deVention

BT-2402B
2.4G Bluetooth Datalink

1.USB Download SW
2.UART Download SW
ON
ON
1
2

deVention
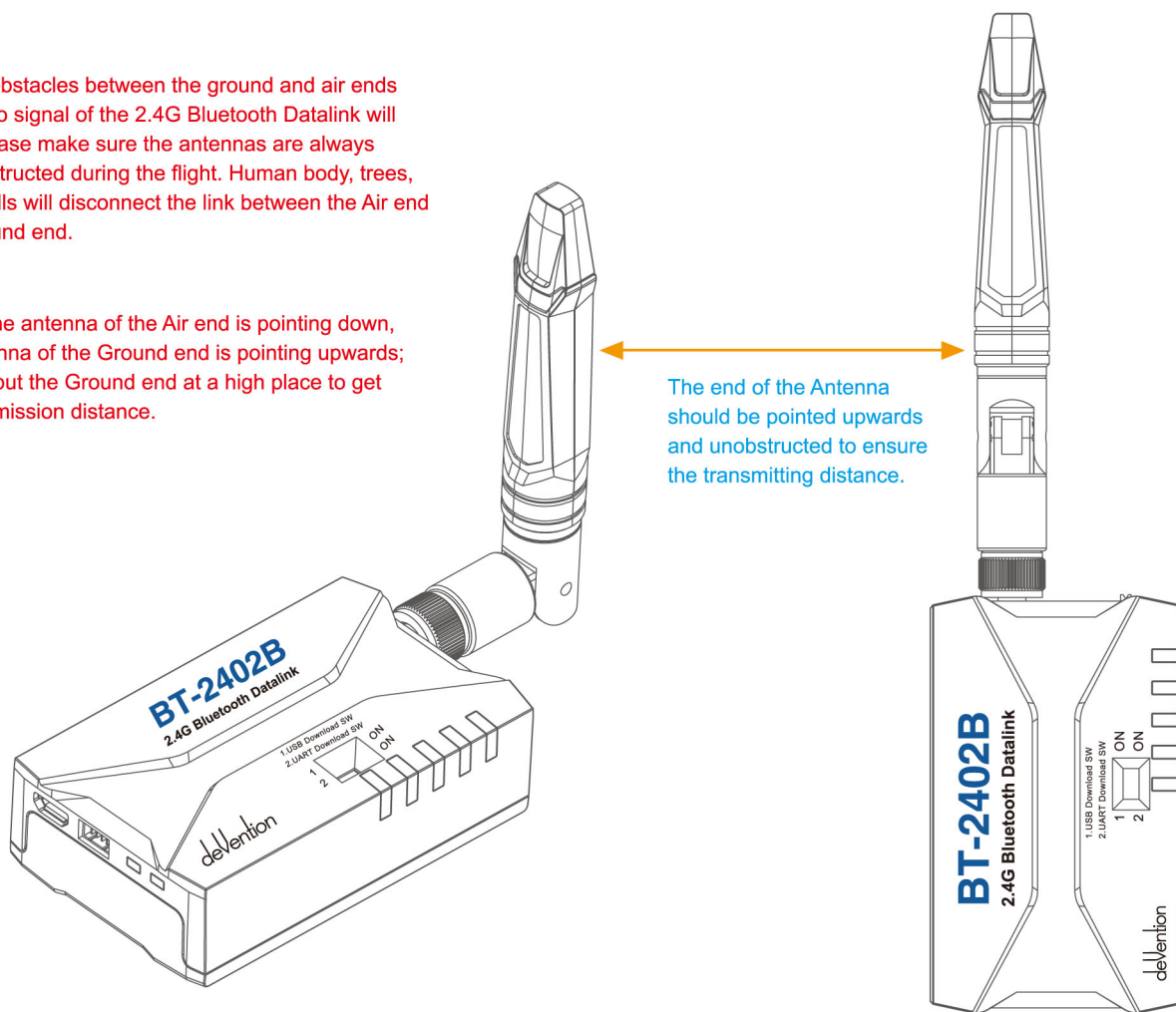
13.2 The cognition of BT-2402A(CE) the Air end

USB Port

USB

Upgrade button

UPGRADE

The back of
BT-2402A(CE)

Antenna

Green LED

UART

Blue LED

Antenna

deVention

BT-2402A
2.4G Bluetooth Datalink

CE

MADE IN CHINA

PWM1 OUT
PWM2 OUT
PWM3 OUT
PPM OUT

PWM1 IN
PWM2 IN
PWM3 IN
PPM IN

PWM1 signal output
PWM2 signal output
PWM3 signal output
PPM signal output

PWM1 signal input
PWM2 signal input
PWM3 signal input
PPM signal input

Green LED: Data receiving or transmitting indicator between the Air and Ground end.

Blue LED: Data receiving or transmitting indicator between the Air end and flight controller.

13.3 BT-2402B(CE) Ground end instruction
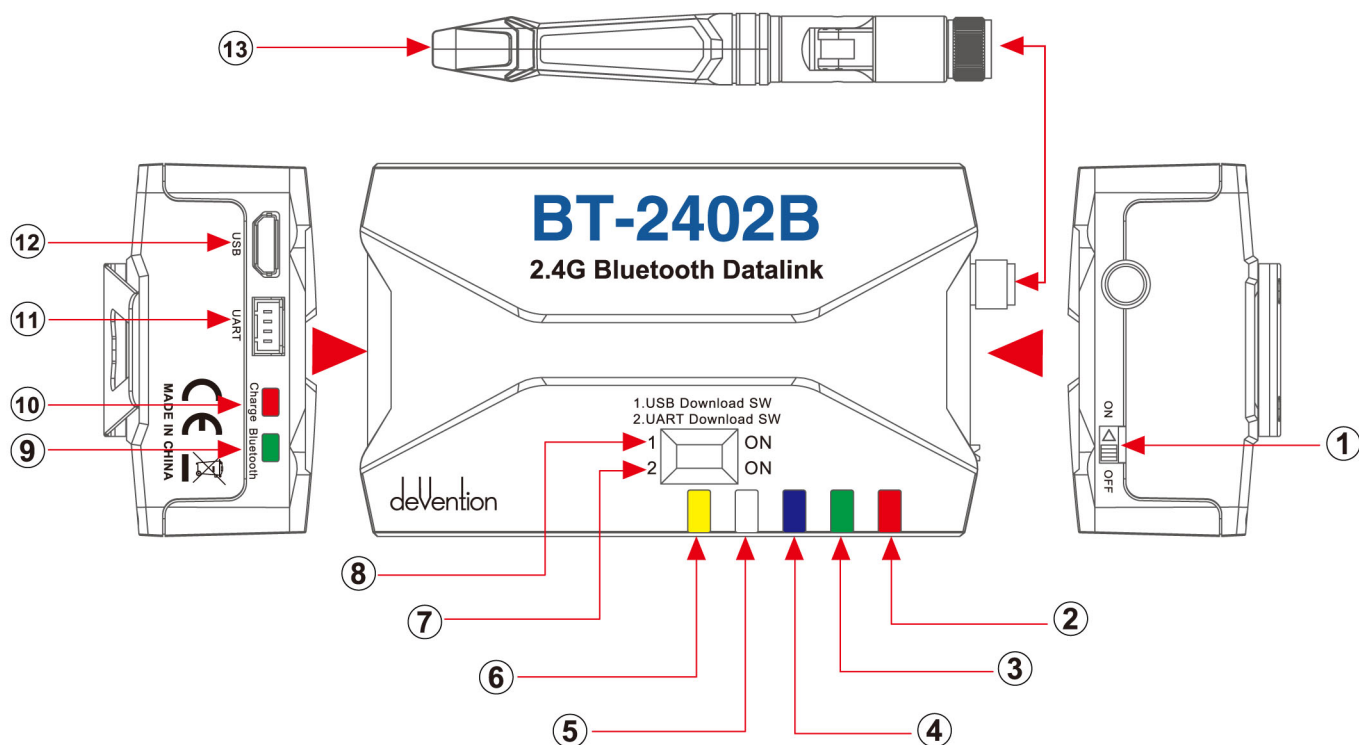
①	**ON-OFF:** Power switch	
②	**Power LED:** Power indicator(RED)	
③	**COM-TX LED:** Indicator of data receiving from ground station to the ground end (Green).	
④	**COM-RX LED:** Indicator of data transmitting from the ground end to the ground station (Blue).	
⑤	**RF-RX LED:** Indicator of data receiving from the flight controller to the ground end (White).	
⑥	**RF-TX LED:** Indicator of data transmitting from the ground end to the flight controller (Yellow) .	
⑦	**1 USB Download SW**	
⑧	**2 UART Download SW**	
⑨	**Bluetooth:** Bluetooth indicator (Green)	
⑩	**Charge:** Charging indicator (Red)	
⑪	**UART**	
⑫	**USB:** USB port	
⑬	**Antenna**	

13.4 Cables connectting illustration

DATA PORT

FCS-X4
Main controller

DATA BUS ►

deVention

BT-2402A

2.4G Bluetooth Datalink

UART

CE

MADE IN CHINA

PWM1 OUT ►
PWM2 OUT ►
PWM3 OUT ►
PPM OUT ►

PWM1 IN ►
PWM2 IN ►
PWM3 IN ►
PPM IN ►

PIT
ROLL

PIT

ROLL

PIT

ROLL

PIT

ROLL

PIT

ROLL

PIT
ROLL
Skid landing
servo

DATA BUS ►
AUX4 ►
AUX5 ►
AUX6 ►

RX707(CE)/RX709(FCC)
Receiver
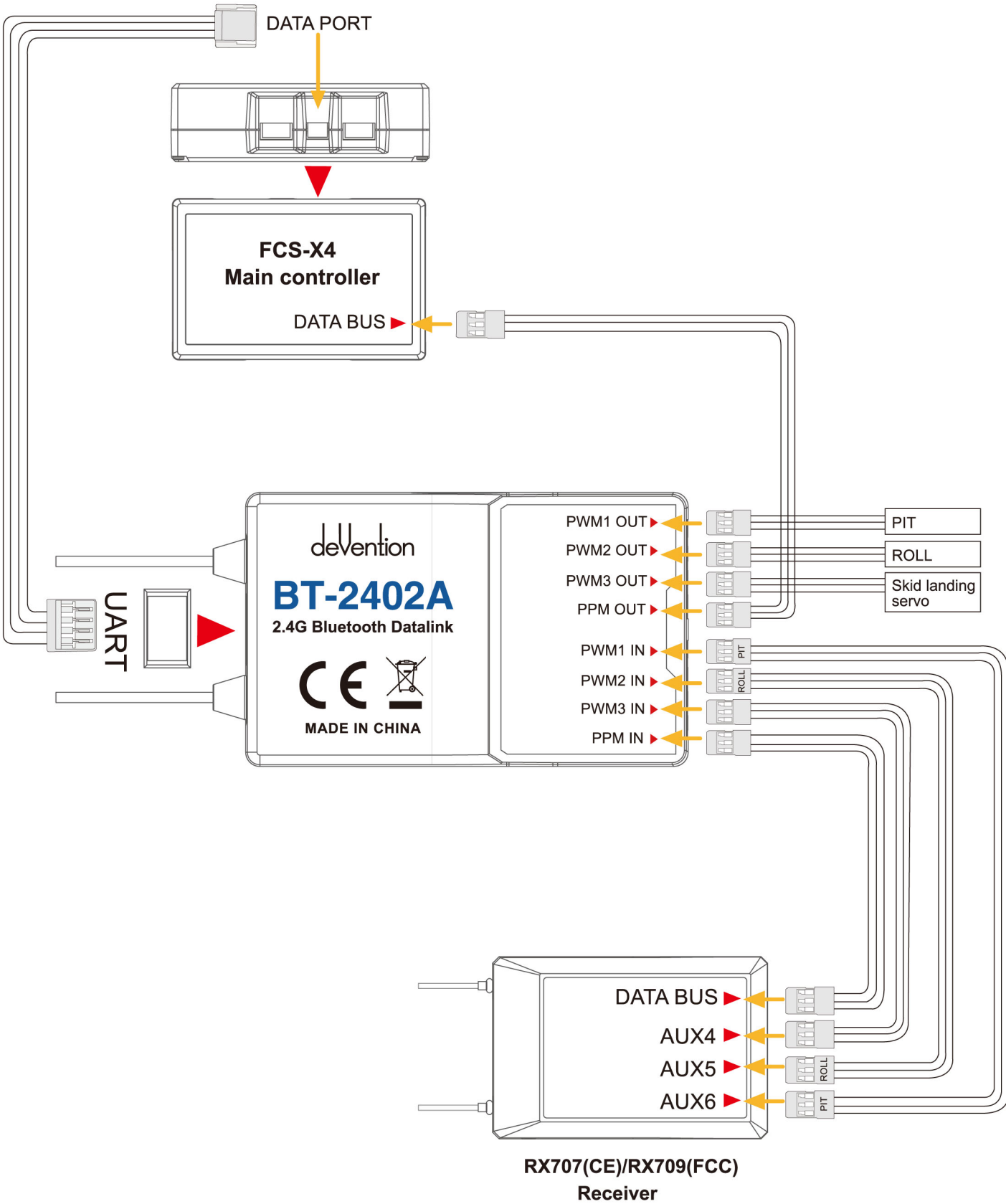
13.5 Program Upgrade

Both the Air end and the Ground end program can be upgraded in Walkera website. Upgrade tool: UP02 and UP02 adaptor.

13.5.1 Air end Upgrading

(1) Please insert the blue, yellow, black color plug to the corresponding upgrading connection socket and insert the other end to the **UART port.**
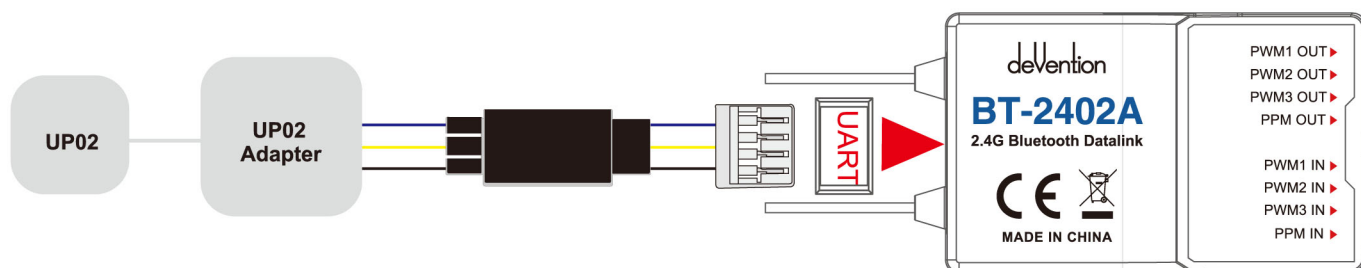
(2) Press button "**UPGRADE**" to supply power enter upgrading statue.
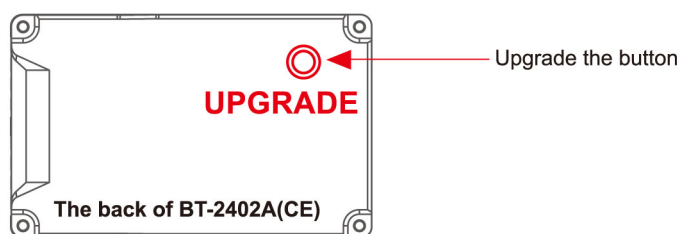
13.5.2 Ground end Upgrading

(1) Please insert the red, yellow, blue, black color flat cable to the **UART port.**

(2) Turn the switch **"UART Download SW"** ("ON" position)

(3) Turn on the power switch to enter into upgrading status ("on" position)

13.6 LED Indicator descriptions

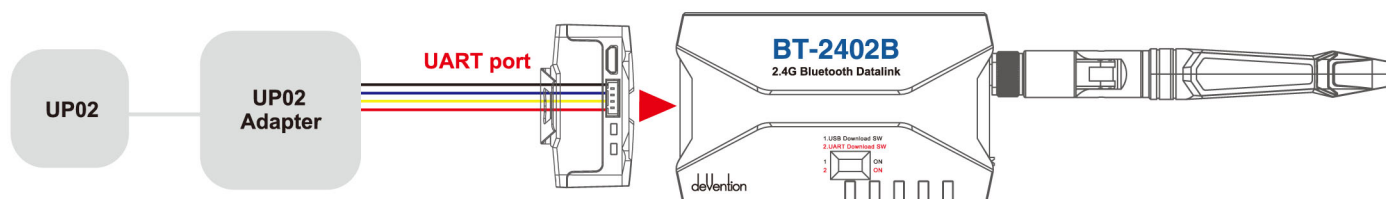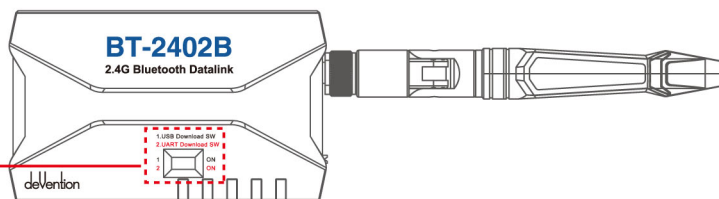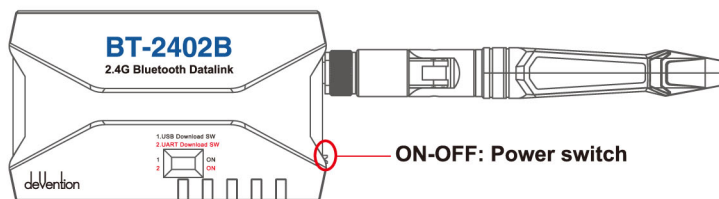|	LED status	Status instructions
The Air end	Green LED flashes quickly	The Air end and Ground end is receiving/transmitting data
	Green LED keeps solid	The Air end and Ground end do not receive/transmit data
	Blue LED flashes quickly	The Air end and Flight control end is receiving/transmitting data
	Blue LED keeps solid	The Air end and Flight control end do not receive/transmit data
	Green and Blue LED flashes slowly	The Air end and Ground end lost signal
The Ground end	Power LED keeps solid Red	Normal power voltage
	Power LED flashes Red	Power voltage is less than 3.3V
	COM-TX LED flashes Green quickly	The Ground end is receiving Ground Station data
	COM-TX LED keeps solid Green	The Ground end dose not receive data from Ground Station data
	COM-RX LED flashes Blue quickly	The Ground end is transmitting data to the Ground Station
	COM-RX LED keeps solid Blue	The Ground end does not transmit data to the Ground Station
	RF-RX LED flashes White quickly	The Ground end is receiving Flight Control data
	RF-RX LED keeps solid White	The Ground end does not receive Flight Control data
	RF-TX LED flashes Yellow quickly	The Ground end is transmitting data to the Flight Control
	RF-TX LED keeps solid Yellow	The Ground end does not transmit data to the Flight Control
	RF White and Yellow LED flashes slowly	The Ground end lost contact with the Air end
	Bluetooth LED flashes Green quickly	Bluebooth unconnnect
	Bluetooth LED flashes Green slowly	Bluebooth connnected
	Charge LED keeps solid Red	Under charging
	Charge LED lights out	Charging finished / normal situation

14.1 Channel setting

In the main screen, touch ⚙ icon and enter into the setting interface.

Configuration

Channel Reverse:
- ELEV ⬭
- AILE ⬭
- THRO ⬭
- RUDD ⬭
- Wifi Camera ⬭
- Parameter Setting: ▶
- Parameter Configuration: ▶
- BlueTooth Upgrade: ▶
- Connect/Diconnect: 🔄
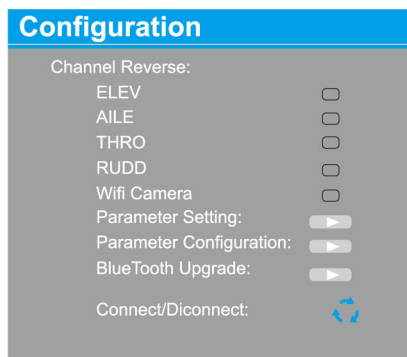
ELEV, AILE, THRO, RUDD default setting is "NORMAL".

14.2 Parameter Setting

Configuration

Channel Reverse:
- ELEV ⬭
- AILE ⬭
- THRO ⬭
- RUDD ⬭
- Wifi Camera ⬭
- Parameter Setting: ◀━━━━━━━━━━
- Parameter Configuration: ▶
- BlueTooth Upgrade: ▶
- Connect/Diconnect: 🔄

Advanced

Use offline maps
use map tiles on the local storage for offline map view(under Maps directory) ☐

Enable Auto Pan
auto pan the map according a new GPS coordinate received ☐

Enable Text To Speech
speak messages for important events ☑

Enable TTS English
speak messages for important events_english ☑

Enable TTS Chinese
speak messages for important events_chinese ☐

Enable FollowMe Mode
fly to Mobilephone GPS coordinate ☑

UI Style
mai user interface display style

UI Interaction
user control interface interaction switch

Curve Setting
show curve setting interface or not

Gsensor Reverse
reverse the Gsensor's orientation ☐

FollowMe Height Set
default height = 10

One Key Takeoff
default height = 10

Waypoint Default Altitude
default height = 15

Flight Path Size
512(set to zero to disable)

(1) Gsensor Reverse

If the gravity sensor be activated and the aircraft acts different from the corresponding tablet pc or phone's inputting
(please refer to page 7 for Gravity Sensor explanation), please press "√" to reverse it.

(2) FollowMe Height Set

Default height=10m

You can change the height with new settings(5-200m).

(3) One Key Takeoff

Default height=10m

You can change the height with new settings(5-15m).

(4) Waypoint Default Altiude

Default height=15m

You can change the height with new settings(5-400m).

14.3 Battery voltage point

Configuration

Channel Reverse:
- ELEV ☐
- AILE ☐
- THRO ☐
- RUDD ☐
- Wifi Camera ☐
- Parameter Setting: ▶
- Parameter Configuration: ▶
- BlueTooth Upgrade: ▶

Connect/Diconnect: ↻

Parameters   Calibration   Flight Mode   Pids   **Battery/FS**   Geo Fence

Battery Monitor   FailSafe
Disabled   Disabled

Measured voltage 22.2   battery voltage point 21.2   FS Pwm 950
Calculated voltage 0.00   ☑ Battery Fs Enable
Voltage Ratio 2.592   ☐ GPS Fs Enable   ☐ GCS Fs Enable
                           Alarm Battery   21.4V

Standard battery voltage 22.2V   Low voltage protection 21.2V
                                         Low battery warning 21.4V

14.4 Geo Fence

Configuration

Channel Reverse:
- ELEV ☐
- AILE ☐
- THRO ☐
- RUDD ☐
- Wifi Camera ☐
- Parameter Setting: ▶
- Parameter Configuration: ▶
- BlueTooth Upgrade: ▶

Connect/Diconnect: ↻

Parameters   Calibration   Flight Mode   Pids   Battery/FS   **Geo Fence**

Geo Fence
Enable   ☐   Tick it if you need to use.
Type   Altitude and circle
Action   RTL or Land

Max Altitude   100   m   15~1000m
Max Radius   150   m   15~1000m
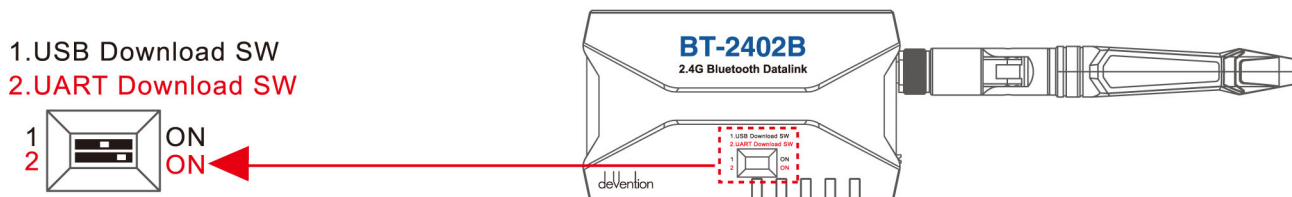RTL Altitude   15   m   15~80m

14.5 Bluetooth Upgrading

14.5.1 BT-2401B(FCC)/BT-2402B(CE) Ground end upgrading

(1) Turn on the switch **"2. UART Download SW"** (position "ON")

1.USB Download SW
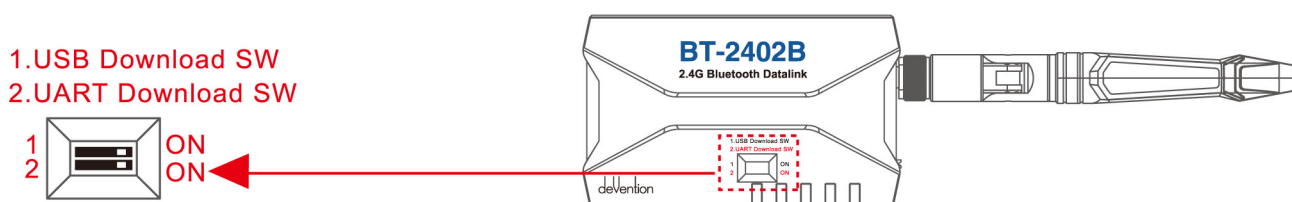2.UART Download SW

1 ON
2 ON

(2) Connect the Ground end BT-2401B(FCC)/BT-2402B(CE) to Ground Station software GCS and entering into the upgrade interface.

(3) Choose the correct Ground end file to upgrade

14.5.2 BT-2401A(FCC)/BT-2402A(CE) Air end upgrading

(1) Turn on the switches of **"1. USB Download SW" and "2. UART Download SW"** (To "ON")

1.USB Download SW
2.UART Download SW

1 ON
2 ON

(2) Connect the ground end BT-2401B(FCC)/BT-2402B(CE) to Ground station software GCS and enter into the upgrade interface

(3) Connect the Air end BT-2401A(FCC)/BT-2402A(CE) to the Ground end BT-2401B(FCC)/BT-2402B(CE).

(4) Choose the correct air end file to upgrade
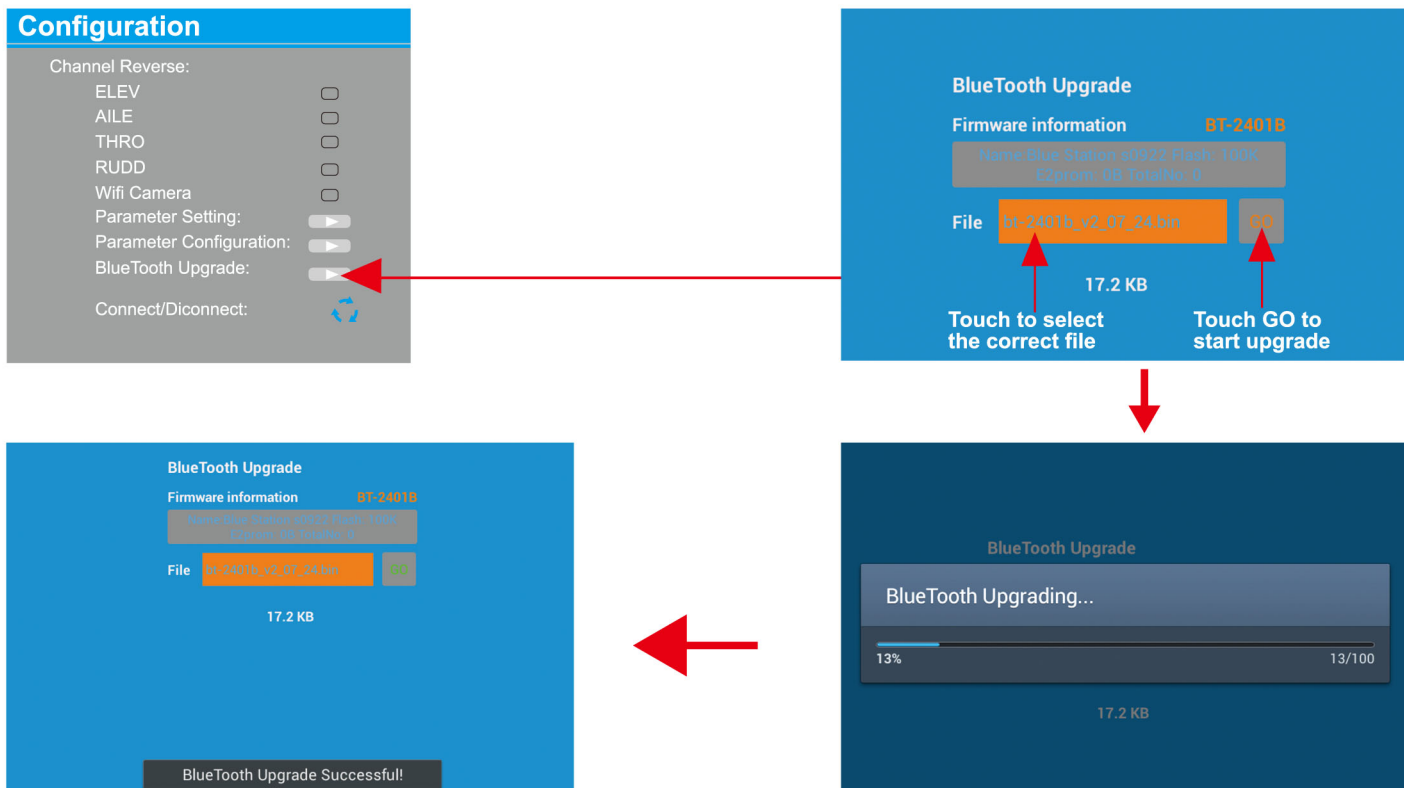
Tips: Please reconnect and upgrade again if the upgrading can't be finished and succeed in one minute.

deVention