

ScoutX4

devention

- Auto Take off
- Object Round fly mode
- Hyper IOC mode
- GPS telemetry
- Altitude hold mode
- One key Return To Home
- Retractable Landing Gear
- 5.8G video down link

Match with DEVO F12E Radio

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

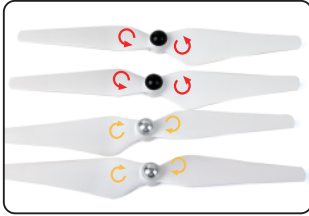
Ground Station: GCS

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



- M1/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.

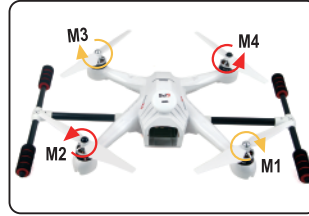
1.0 Installing the Propellers



1.1 Prepare forward propeller (Clockwise arrow mark), counter propeller (counterclockwise arrow mark)



1.2 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.



1.3 Propellers assembled (assembled skid landing)



1.4 Propellers assembled (unassemble skid landing)

2.0 Restore or assemble the skid landing/binding the radio

2.1 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.



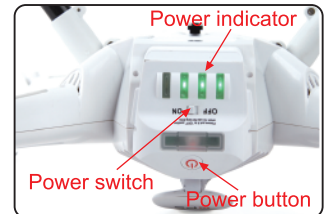
2.1.1 Install the fully charged battery DO NOT turn on the battery until later.
*Please check the charger manual for charging instructions



2.1.2 Turn X4 on its back. The belly and the retractable legs should now be facing up. MAKE SURE nothing is blocking the legs.



2.1.3 Put all function switches to 0 position, put all trims/knobs on Mid position, move the throttle to the lowest position, then turn on the radio power.



2.1.4 Turn the power switch to "ON" position, and press on the power button about 3-5 second till the red LED light solid. The undercarriage(skid landing) will unfold automatically.

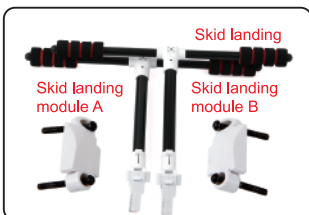


2.1.5 Turn the aircraft to its UP-right position. The Red LED flashing will stop shortly. When it stops, the DEVO F12E and the X4 have successfully connected to each other.
* This process is called "ID binding"



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

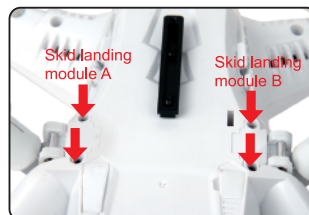
2.2 Skid landing unassembled(assemble skid landing/code binding)



2.2.1 Prepare two skid landing, skid landing module A/B, 4pcs M2.5X20 screws.



2.2.2 Put the skid landing into the skid landing position.



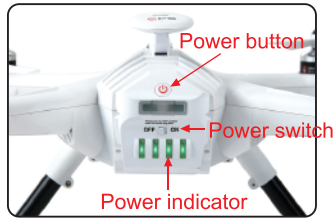
2.2.3 Install the skid landing module, and screw down the M2.5X20 screw to fix skid landing.



2.2.4 Skid landing installation finished.



2.2.5 Put all function switches to 0 position, put all trims/knobs on Mid position, move the throttle to the lowest position, then turn on the radio power.



2.2.6 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 up.



2.2.7 Red LED flashing till to go out means the code binding finished.

3.0 Compass Calibration

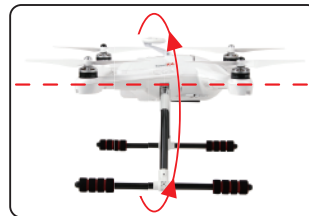
IMPORTANT: Make sure all TRIMs are in the center position, the trim value should be "0", and that the motors are locked. The aircraft should NOT be flashing RED. By default, the motors will automatically be locked after the ID binding process. For more details about locking and unlocking motors, see points 6 & 7.



3.1 Enter the calibration mode Do this by moving both sticks DOWN and to the middle position at the same time. The aircraft will start a blinking fast RED.



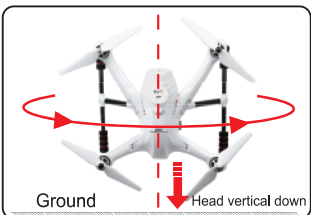
3.2 FORWARD rotation. Rotate tilting the aircraft forward rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg.(0 / 90 / 180 / 270 / 360)



3.3 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)



3.4 HORIZONTAL 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)



3.5 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)



3.6 Place the aircraft in normal position The rapid RED blinking will stop This indicate that the calibration is finished Disconnect the battery to save the settings.

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

This is normal, please continue to fly the aircraft manually, while the system improve 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 GPS hold & stability after 4-5 batteries.

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

Trivia: Different brands have different calibration processes, the process is typically referred to as "the Calibration Dance".

4.0 G-3D 3-axis brushless Gimbal installation

IMPORTANT: REMOVE the battery from the X4 while you install the gimbal

The gimbal is a high-performance electromechanical design and should be handled with great care. AVOID using force when installing.



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



4.2 Slide the gimbal onto the quick mount rail, the gimbal should slide from the front of the aircraft towards the rear, gently move it as far back as possible.



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



4.4 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.