



Quick Start Guide

# X PLUS ONE



# 1. Getting Started

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## 1. Watch the Tutorial Videos

Watch the training videos at: [www.xcraft.io](http://www.xcraft.io)



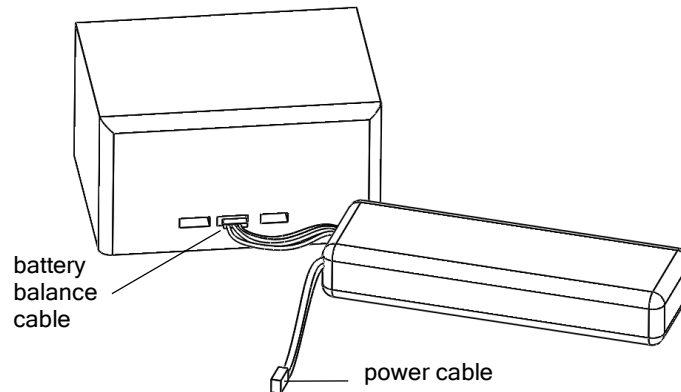
training videos

## 2. Read the Operation Manual

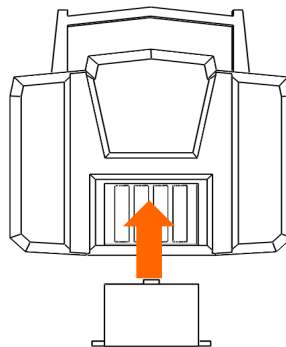
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### 3. Charging the Battery

a) Plug charger into a power outlet and the battery balance cable into the middle port of the charger. It is the only port that fits that size plug.



b) The X PlusOne transmitter runs off of 4AA, included in the box. Slide the battery hatch off of the back of the transmitter, insert the AA batteries and slide the battery hatch back into place.



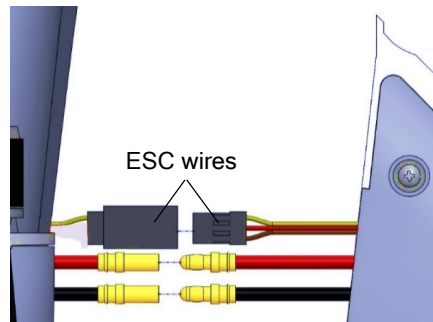
## 2. Prepping the Craft

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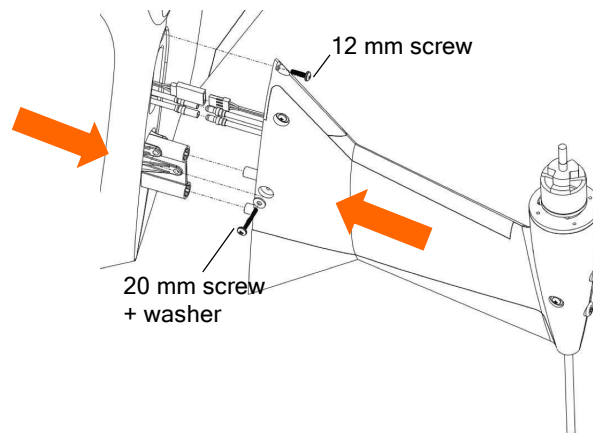
### 1. Pylons

a) Connect the two bullet connectors, and one ESC wire together from the pylon to the wing.

\*Ensure that colors align correctly i.e. red to red, black to black, and silver edge to silver edge on the connector.



b) Insert the pylon spars into the connector on the wing and slide the pylon onto the wing. Bundle the wires into the cavities in the wing and pylon.



\*if there is resistance, “hug” the pylon to the craft by placing the motor mount in the pit of your arm and squeezing the pylon into place with your hand.

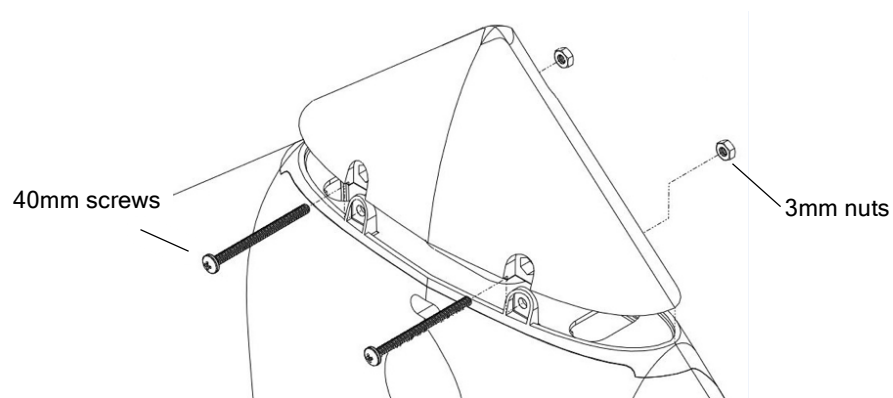
c) Install the second pylon onto the wing by repeating steps a-b.

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### 2. Nosecone

a) Install as shown below using the supplied hardware.

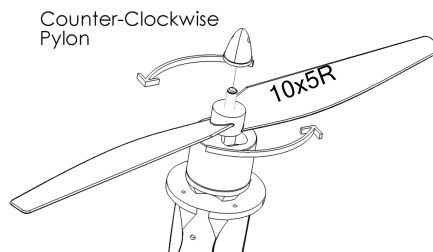
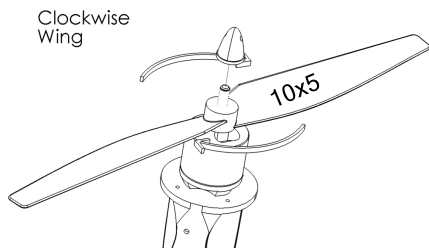
\*for fixed mount or gimbal mounting instructions, see manual.



### 3. Propellers

The wings silver spinners spin clockwise and the pylons black spinners spin counter-clockwise.

- Unscrew the spinner and place the 10x5 props on the main wing motors, and the 10x5R on the pylon motors.
- Tighten the spinner by holding the motor still and spinning the spinner into place. Tighten firmly with fingers.

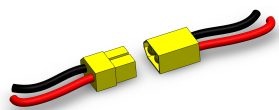


\*Check that the propellers are secure before each flight.

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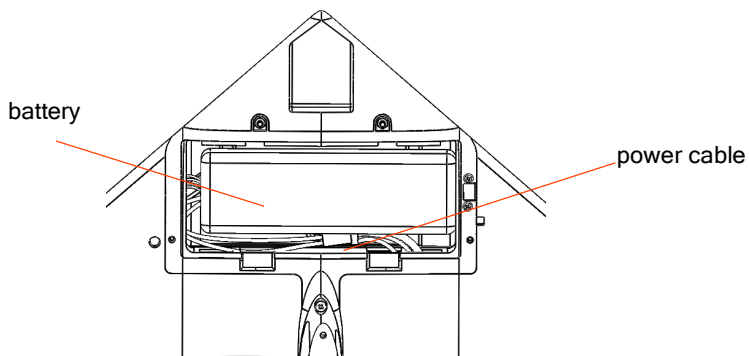
### 4. Plugging in the Battery

- Install the battery by connecting the matching yellow ends of both power cables.



- Fold the wires underneath the battery and install as shown.

\*the battery balance cable is left loose.



- Cover the battery and all wires with the battery cover.
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### Recommended first calibration

You should calibrate your X PlusOne every time you fly in a new location. Use Mission Planner software (Windows), or QGroundControl (iOS/Windows) to calibrate, set modes, or set way points for your X PlusOne.

\*For more information, see the Operation Manual.

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\*Always fly at locations that are clear of building and other obstacles.

\*DO NOT fly above or near large crowds.

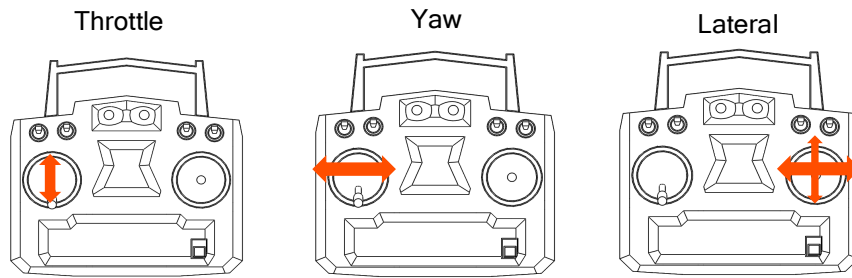
\*Avoid flying at altitudes above 400 ft.

\*Be very careful when flying 19,600 ft. or more above sea level.

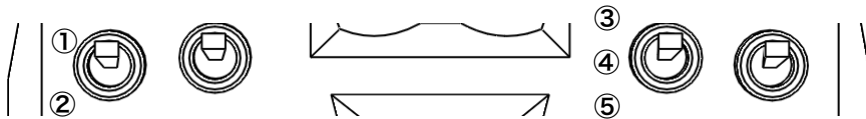
\*Fly in moderate weather conditions with temperatures between 32° F to 104° F.

## 3. How to Fly

### 1. Controls



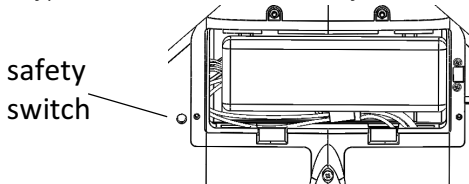
### 2. Modes



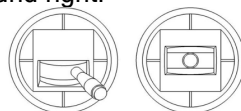
- ① Fly - Normal switch position for flight.
  - ② Home - Return to Home. Craft will return to original take off location.
  - ③ Hover - Hover in place. Craft will hold position and can be controlled with hover controls. Craft uses GPS to auto-stabilize itself. Ensure GPS has clear signal, free of buildings and trees etc.
  - ④ Smart - Same as Hover except, craft will react to direction inputs regardless of orientation. i.e. even if the craft is turned sideways, pulling back on the right stick will bring the craft back.
  - ⑤ Acro - Use for forward flight. Craft is stabilized but does not use GPS to hold a hover position. In forward flight, craft will pitch forward up to 75°
- Auto (set via Mission Planner (Windows) or QGroundControl (Windows/Mac) - Autonomous mission. X PlusOne will fly the flight plan saved to the autopilot.
- Guided (set via Mission Planner/QGroundControl) - Ground station controlled flight. X PlusOne will fly to waypoints sent from the ground station in real time.
- Follow Me (Ground stations with GPS required) - Follows ground station. X PlusOne will follow the ground station as you move. Install "3DR Services" and "Tower" apps on smartphone to connect with craft.

### 3. Take-off

- a) Set the throttle all the way down and all mode switches up
- b) (Ai Only) Press and hold the safety switch next to the battery compartment until it turns solid red.



- c) (Ai Only) Ensure that the craft has a GPS signal by checking for a blue light inside the compass unit.
- d) Arm the motors by holding the throttle down and right.



\*once armed, the motors will begin spinning.

**WARNING: Never approach the craft when it is armed**

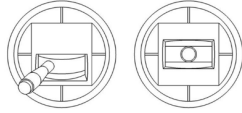
- e) Increase the throttle to approx. 50% and lift the drone off the ground.

\*Do not "inch" the X PlusOne off of the ground. Air circulation can cause the craft to tip over.

\*Always perform preflight inspections

## 4. Landing

- a) Return craft to take-off point.
- b) Reduce throttle to smoothly descend.
- c) Fully reduce throttle once on the ground.
- d) Disarm the motors by holding the throttle down and left.



\*Rotating propellers can be dangerous. Do not start the motors when there are people nearby.

\*Always keep your hands on the remote controller as long as the motors are spinning.

\*Always stay at least 15 ft. away from the rotating propellers and motors.

\*Maintain line of sight of your aircraft at all times.

\*Do not fly under the influence of alcohol or drugs.

\*Always obey local No Fly Zones and other flight regulations.

## 4. Specs

### Aircraft

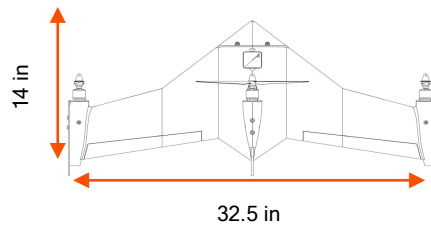
Weight: 2.9 lbs.

Max Speed: 60 MPH

Flight Time: Approx. 20 mins

Max Service Ceiling: 11,000 FASL

Operating Temp: 32° - 104° F



### Transmitter

Operating Frequency: 2.400 GHz

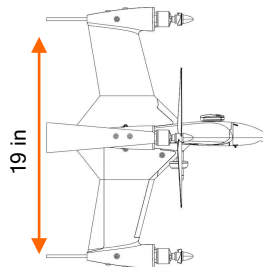
Max Transmission Distance:

FCC Compliant-2.5 miles (Unobstructed)

Operating Temp: 32° - 104° F

Batteries: 4AA batteries

Operating Voltage: 6V



### Gimbal

Range: Pitch-70°-190°

Roll-160°

### Charger

Voltage: 240V

Rated Power: 50W

### Battery

Capacity: 5.4A

Voltage: 11.1V

Battery Type: LiPo 3S

Operating Temp: 32° - 104° F