

#### **H6X AIRFRAME**

- 1 x Top Dome
- 1 x Foam Enclosure
- 1 x Top Main Plate
- 1 x Bottom Main Plate
- 1 x ESC Plate
- 6 x Inner Mounts
- 6 x Outer Mounts
- 1 x Airframe Screw Set (Screws, nuts spacers etc)
- 6 x 360mm Carbon Fibre Tubes
- 6 x Motor Mount Set
- 1 x AV Gimbal Bracket Set
- 1 x Battery Plate
- 1 x Lanyard & Sticker

## **H6X KIT** Also includes

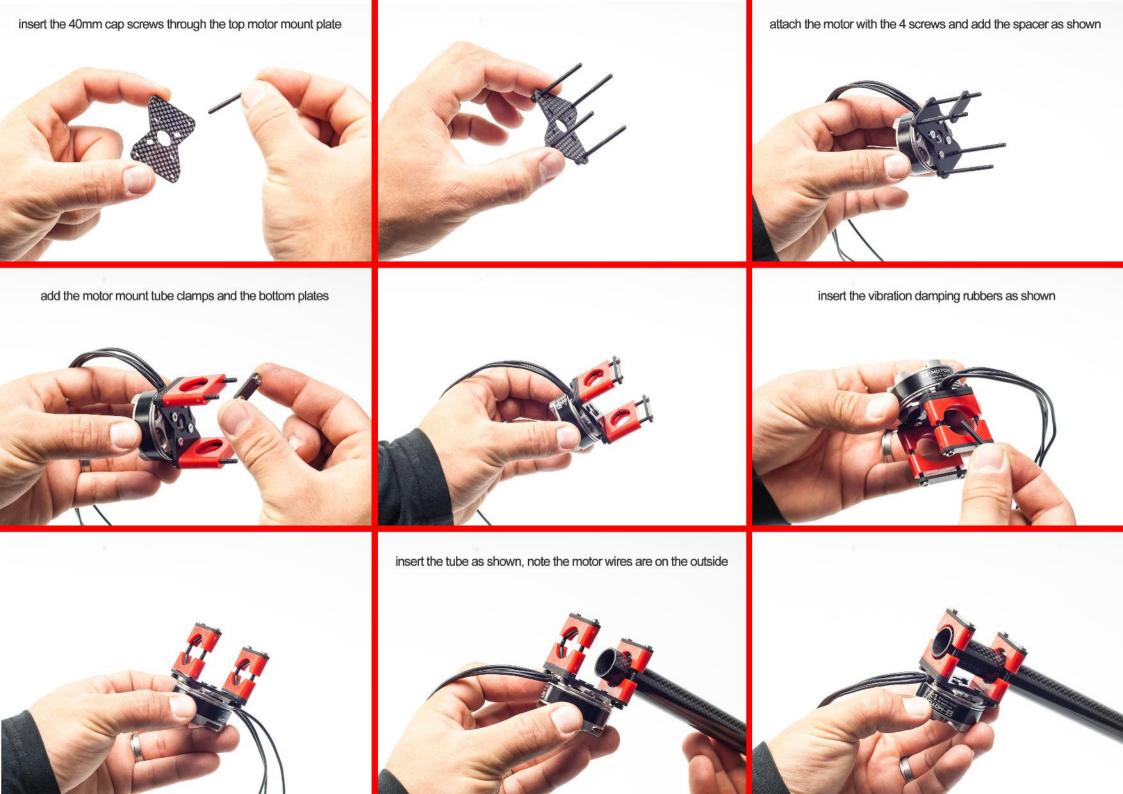
- 1 y GPS Mount
- 3 x 14" APC Prop Pairs
- 1 x AV130 Gimbal Kit
- 1 x ArduCopter Flight Controller Kit
- 6 x 30A ESC
- 6 x 4008 T-Motors
- 1 x 5/6V uBEC

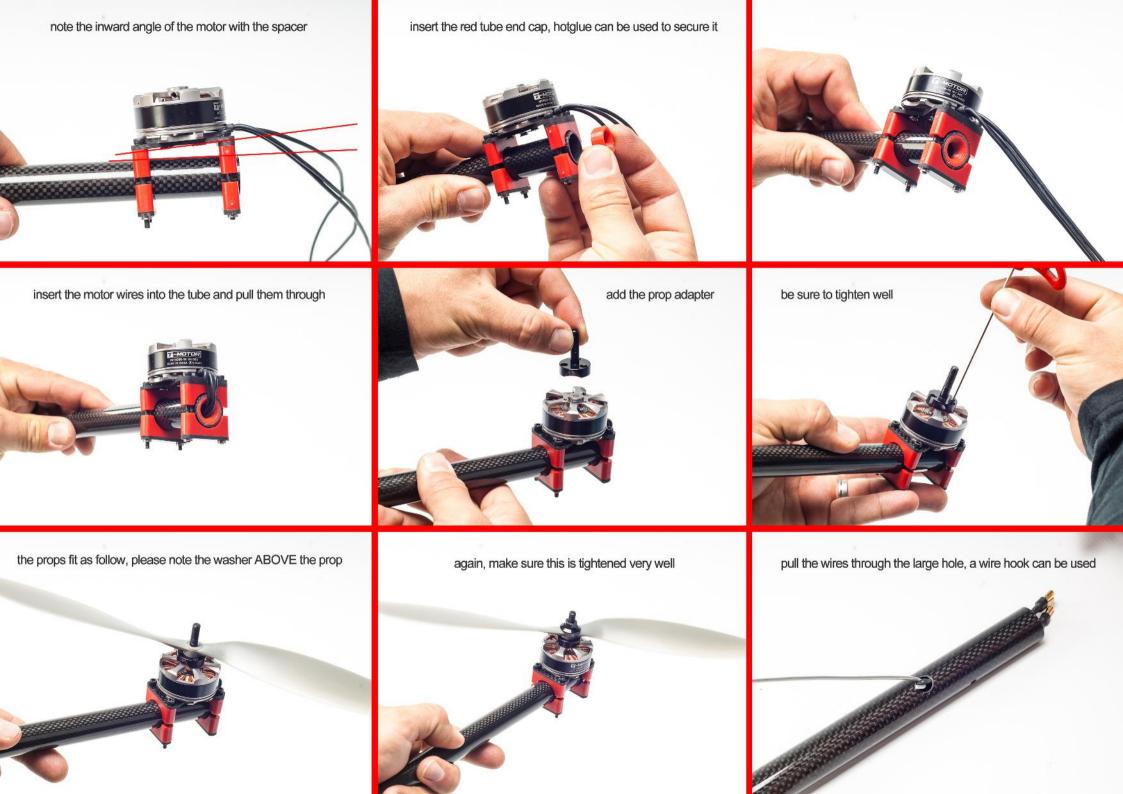
## **H6X RTF KIT** Also includes

- 1 x Hitec Aurora 9 Radio System
- 1x Wireless Data Telemetry Kit
- 2 x 6200mah 4S LiPo Battery
- 1 x Battery Charger
- 1 x LiPo Checker Alarm

Please Note: Kits may also include various extra items and parts not listed here, screws, nuts, washers, foam pads etc



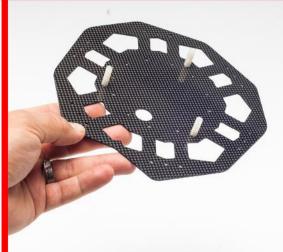












insert the 35mm cap screws through the top of the top main plate









pick up the assembly as shown by grabbing it with your hand



now we can fit the bottom main plate





make sure you tighten them well, but do not over tighten or you may damage the embedded nuts



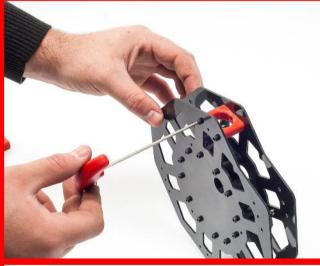


we are now ready to add the ESCs

thick double sided tape is useful for placing the ESC's

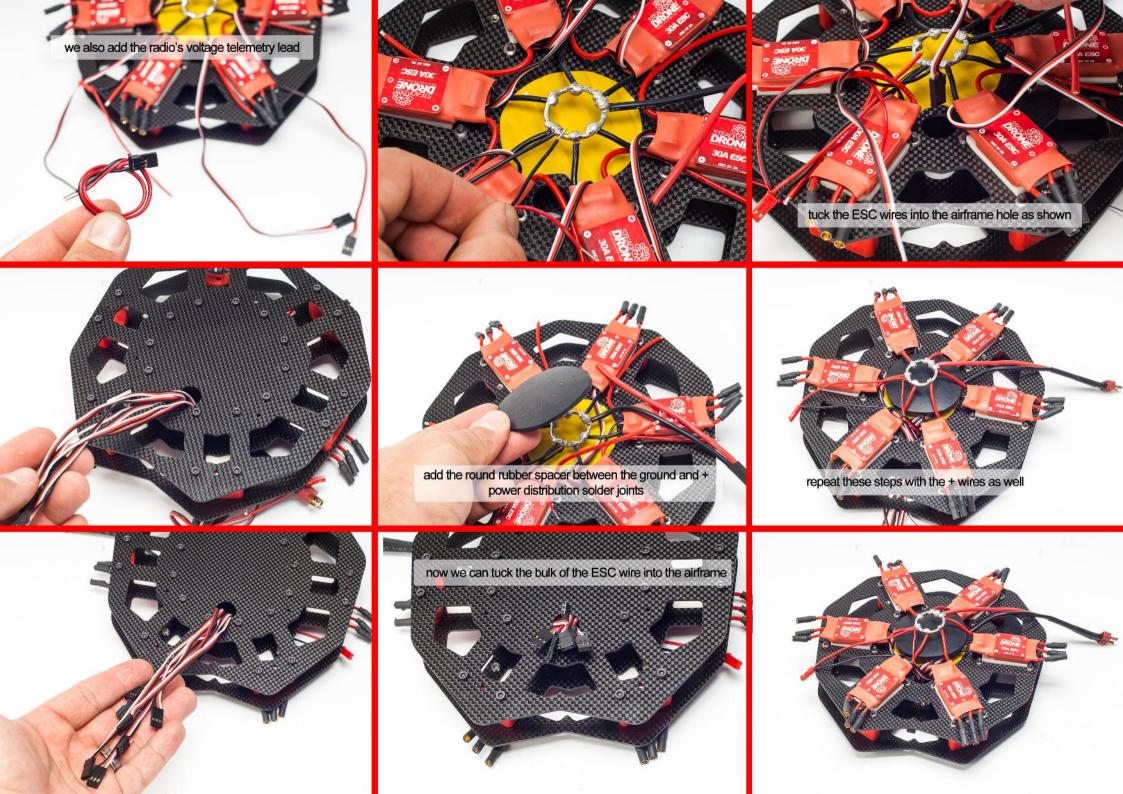


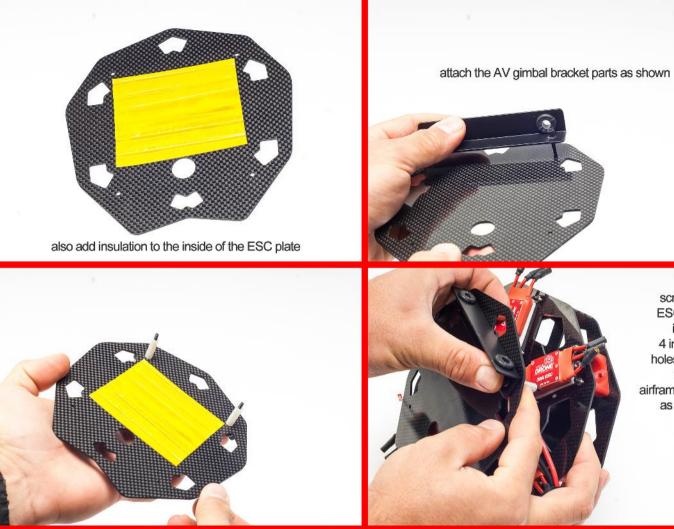












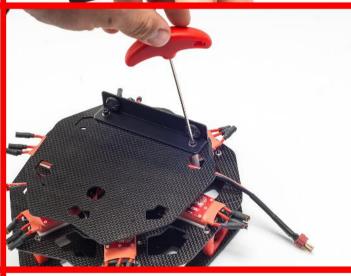
tighten well





screw the ESC plate into the 4 inverted holes in the bottom



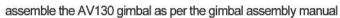










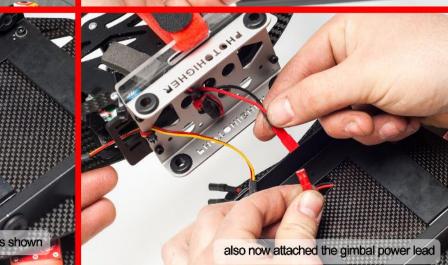






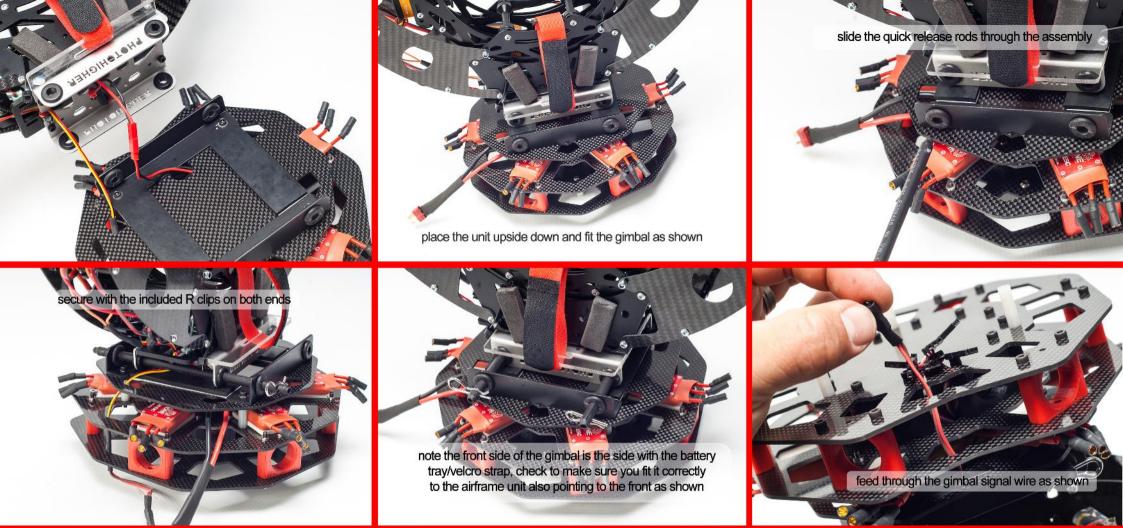




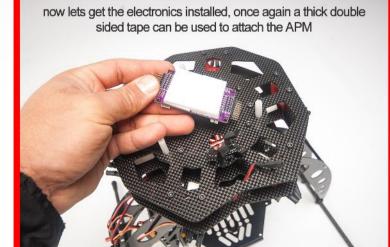


we are now ready to attach the gimbal to the man airframe unit

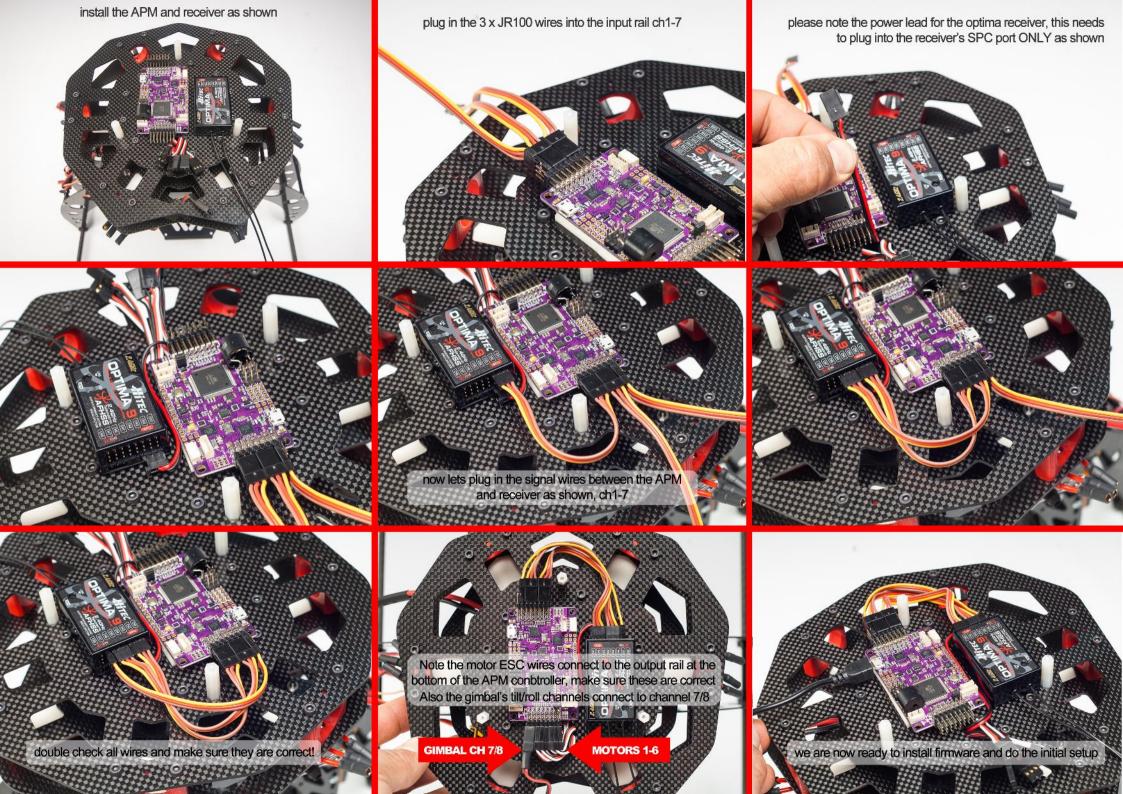














To install firmware and setup your drone please see the video guide online at

www.vimeo.com/64847415





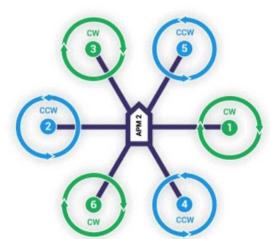


now lets install the arms



Please ensure motor direction is correct for each motor you can then use colored heat shrink or tape to color code the correct wires for quick and easy setup. To reverse motor direction simply swap any 2 of the 3 wires around.



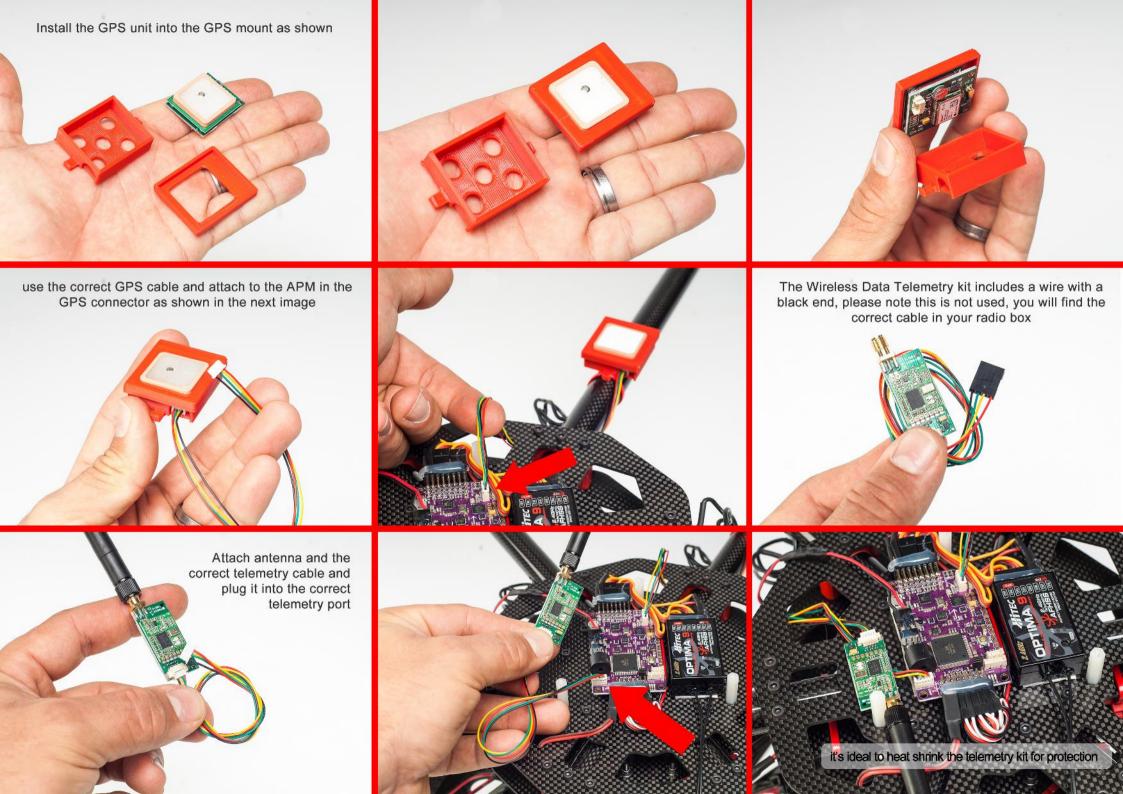


Be sure to check out the ArduCopter Wiki page for all the ArduCopter settings, advanced features, videos and more!

SteadiDrone is built around the ArduCopter flight controller and it's essential that you understand the system and how it all works.

http://code.google.com/p/arducopter/

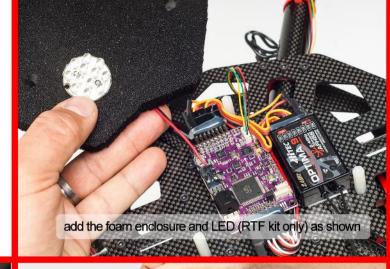
For any other help or advice please feel free to contact SteadiDrone any time.





To connect via the wireless data telemetry, please see the setup guide online at

www.vimeo.com/64847415

















You will notice the 3 modes on switch C on your radio included with the H6X RTF Kit

Firstly we have STABILIZE which is your default mode and the mode you should use when taking off and landing, this is also the only mode where you are able to arm and disarm your motors

STABILIZE mode is manual control but the drone will stabilize and level out with no stick input, no GPS or ALT hold in this mode.

GPS HOLD, also known as LOITER will keep the drone in position both vertically and horizontally with the GPS sensor and the onboard altimeter.

YAW LEFT

You are still able to manually LOITER MODE, when you leave your stick will simply hold that position. centred. You can also mix two switches, C and D for example, to get more than 3 flight modes, please refer to the

YAW RIGHT

Altitude is held by putting your throttle stick at 50% (exactly half throttle) the drone will then keep the altitude, if you need to ascend, simply push the throttle stick above 50%, if you need to descend lower the throttle stick below 50% and to hold altitude again just keep the stick at 50%, this works in all autonomous modes like LOITER, AUTO, etc

The third mode is for RTL, also known as return to shown in the bottom most left photo, the drone will ascend 15m, then make it's way back above home and then descend and land, you can regain control

launch or return home, by toggling this switch as attempt to come back to HOME position, which is where you armed the drone, it will by default first anytime during this by simply releasing the RTL toggle switch. Ensure that you do not trim any sticks and check that all trims are

ROLL RIGHT

ROLL LEFT

AURORA 9

radio's user manual about mixes.



Switch C is you flight mode switch Up/top position is Stabilize, middle is GPS hold and bottom is RTL (return to launhc)





The H6X batteries are 6200mah 4S Lipo (Lithium Polymer) the charger needs to correspond with these specifications.

- 1) In the charger menu select LIPO charging mode
- 2) Press the ENTER button to select the correct AMPS and VOLTAGE, ensure you select 5A and 4S VOLTAGE of 14.8v, you will see the 4S symbol
- 3) Press and hold ENTER again, simply confirm by pressing ENTER once more, you will see the charger charging the battery
- PLEASE NOTE: Never charge a battery un-attended, always make sure you charge at the correct settings and read the safety label on the battery.

For more info on LIPO batteries see this great source online - http://www.rchelicopterfun.com/rc-lipo-batteries.html

#### First Flight - Check List

Always power up your radio first and ensure mode switches are in the default positions

Throttle stick at 0% - all the way down

Insert and fasten the battery, ensure it is tight and will not come loose during flight

Connect the battery and put the drone down and ensure you give it 5-10 second to initialize, the gyros need to be still for a few seconds to do this so do not hold the drone

Before arming the drone, double check your mode switches, also make sure there are no people, kids or animals nearby and that your flying area is open and free of obstacles.

With your throttle stick at 0% arm your drone by keeping your YAW all the way right for about 5 seconds, a quick double beep from the drone will confirm it has armed

Gently move your throttle stick up until the drone lifts off the ground, get it out of ground effect and try maintain a steady hover about 1-2m, do not fly any higher on your first flight

Take this time to get to know your new drone and how it feels and reacts to control input

Give the drone a few minutes in the air to auto calibrate the compass and GPS before trying GPS HOLD or other advanced GPS features, the more the drone flies, the better accuracy you can expect from the GPS

After your first flight gently drop the throttle stick down until the drone touches down, ALWAYS disarm before approaching or picking up the drone!!

# Safety / Terms & Conditions

The safety instructions are intended not only for the protection of the aircraft, but also to protect the safety of yourself and others. Improper operation can cause serious injury and property damage. In case of improper use, a SteadiDrone can be dangerous, SteadiDrone does not guarantee error-free behaviour of the hardware, electronics or software

\* Use at own risk. The Purchaser agrees to use of the electronics at his/her own risk (this also applies to associated computer software)

\* Safe flying areas. The Purchaser agrees to refrain from flying over people and stay away from children and animals

\* Comply with local rules. The Purchaser agrees to comply with all local government rules, especially when flying near airports.

\* Safe Flying. The Purchaser agrees to use his/her best judgement and always practice safe flying techniques Maintenance/checklist. The Purchaser agrees to conduct a thorough systems check before each flight and to conduct periodic

\*SteadiDrone is not responsible for inexperienced operators and is not accountable for the training or any equipment used in on, or with the aircraft. SteadiDrone systems involve complicated machinery that presupposes a basic knowledge of computer programming. If unfamiliar with programming or the SteadiDrone technology, the Purchaser agrees to seek further information and assistance

#### USE OF THIS PRODUCT IS ENTIRELY AT YOUR OWN RISK!

\* Do not touch the propellers while they are spinning.

\* Do not attempt to hand launch or retrieve the QU4D by hand from the air as this could cause serious injury from the spinning propellers!

\* Do not fly the QU4D into yourself or anyone else! \* Do not fly over or near people or animals!

 Do not fly in strong winds! \* Do not fly in the rain or any form of irrigation!

\* Do not fly in highly combustive environments!

\* Keep out of reach of children!

Do not land the QU4D in water!

\* Do not over charge or over discharge the battery! Do not fly while under the influence of alcohol or any drugs!

