### Installing the Propellers 0 . .

.

1.1 Unpack the propellers, there are two kind right-hand and left hand rotation, the rotation is identified with arrows on the prop, and also with the colored prop-top. You need 3 of each kind.

"We recommend balancing the propellers."



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.



Before EACH flight, Inspect propellers for damage

### 2 Installing Battery, Binding the radio, and extending the landing gear. nding gear is shipped in the retracted position. DO NOT try to extend the landing gear by pulling on it.





2.4 Slide the power-switch to the ON position then press on the triangle power button for about 3-5 seconds, until the green Power indicator lights up.

The Landing gear will now unfold automatically.

\*In the Deglining of this process the light in the arms flast red-green, this means the system is binding.

2.5 Turn the aircraft to its UP-right position. The Red-Green LED flashing will stop short! When it stops, the F12e and the H500 have successfully connected to each other.
\* This process is called "ID binding"

# 2.2 Turn TALI on its back. The belly and the retractable legs should now be facing up. MAKE SURE nothing is blocking the legs. 2.3 On the F12e, move ALL switches to the "0" position, and move the

to the "0" position, and move throttle to the lowest position. Then turn on the F12e power.



#### 3 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 cREEN. By default, the motors will automatically be locked after the ID binding proces For more details about locking and unlocking motors, see points 6 x.



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-GREEN



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)



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)



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



### 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

This is normal, place continue to find the antidamental ways and properties the alteral drifting.

This is normal, place continue to find the antidamental who the the yearth ingrove the calibration, after 5-10 minutes land, lock the motion, this value is the improved settings.

Motice: The slight chiffing may continue coague of batteries, you will notice significant improvement in the GPShold & stability after 4-5 batteries. This could be a support to the continue of the co

4 G-3D 3-axis brushless gimbal installation



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

3.4 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)

Unpack the G-3D gimbal, prepare the gimbal, the mounting rail, rubber washer, screws and spring loaded screw.



4.2 Put the rubber washer on the threaded hole on the bottom of the H500, use the M3x8mm and M3x10mm screws to install the gimbal "mounting block" also refered to as the quick mount rail.



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



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



4.6 Make sure the gimbal move freely in all directions. The G-3D gimbal is now successfully

# TALI H500

Auto Take Off

Hyper IOC mode

GPS telemetry

- Altitude hold mode
- Object Round fly mode
   One key Return To Home
  - Retractable Landing Gear
  - 5.8 ghz video down link



devention

## **Match with DEVO F12E Quick Start Guide and Systems Flowchart**



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

IMPORTANT: NEVER POWER the iLook+ camera without the antenna installed. Powering a video transmitter may cause damage to the transmitter.







5.4 Connect the cameras power cable to the power port on the G-3D gimbal controller.



5.5 The iLook+ camera



5.3 Position the camera into the gimbal "tray", then secure the camera by positioning the mounting bracket over the camera, use the two M2x4m screws to secure the mounting bracket \* There is a cutout on the mounting bracket, this will fit around the lens.



\*\* It is also possible to install a GoPro3 camera in this gimbal. If you install a GoPro, unscrew and remove the motor cover on the pitch motor, this will adjust the balance of the gimbal for the GoPro.

\*\*\* Use the switch on the end of the iLook+ camera to select between STILL and 1080p video.

\*\*\*\* You can change the video link frequency on the back of the came see the instructions included with the camera for details on camera operation.

### **6** Motor Unlock

After binding the F12e to the H500, Check that all trims are neutral, the throttle stick ALL the way DOWN. the display should say 0% throttle Check that ALL switches are in the UP position, You can not start the motors in the GPS hold mode. Gently push the throttle stick down and move the rudder (YAW) stick to the left side. ( on mode 2 radios throttle and rudder is the same stick) fou will see the RED / GREEN indicator LED's will turn on, this indicate the motors are unlocked.

motors are unioceed, Be very careful at this point, as pushing the thottle up will start the motors. You can test by pushing the stick up a little, the motors should start. For your safety, the motors will dis-arm again after 10seconds..

(0) Manual Mode



(1) GPS-hold Mode

(2) Return To Home

#### Motor Lock

Lock the motors by moving the throttle stick all the way down and the rudder (YAW) stick all the way to the right.

The RED-GREEN ED light will go out when the motors are disarmed. TEST: push the throttle stick up a little, the motors will not start when locked.

NOTICE:

"The motors are LOCKED by default after successful binding.

"Motors can NOT be unlocked or locked in GPS-hold mode.

if you and in GPS mode, move the "Mix" withch to position "0"
before locking the motors, make sure you wait until the TALL is safely
on the ground before changing the switch to "0" (innuall).

While changing, make sure to keep the throttle DOWN to prevent motors start.

NOTICE:





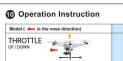
### 8 DEVO F12e - quick guide to control functions Left stick THRO/RUDD stick



## GPS indicator lights

The blue	No	Blinking	Blinki						
LED status	blinking		2 times	3 times	4 times	5 times	6 times	7 times	8 time

Function	Switch	Transmitter setting	Instructions
AUTO Take Off	RUDD D/R	Model Menu → Device Output → Flap → RUDD DIR → Active	Flace aircraft Unlock motors Move throatise staket Set MIX switch Set RUIDO DiR no level ground to the Very Flatter on level ground to VP dustion to "1" Position to "1" Posit
GPS hold mode	MIX SW	Model Menu → Device Output → Gear → MIX SW → Active	"O" position: Manual mode  "1" position: GPS hold mode  "2" position: Return To Home  NEVER use this mode with less than 8 satellies locked, you should see BLUE TRIBLE BLINK.  BEFORE witching mode, always put the throttle stick to middle position (30%)  If the GPS signal degrades, the 1600 will automatically enter "Altitude hold mode" note in this mode it will drift, but will hold its altr  After playing 50% of the battery, do how which from GPS mode to Manual, this may cause a sudden drop / crash.  You can land in GPS mode, after landing, skeep the throttle stick DOWN and switch to manual, then lock the motors.
ROUND FLY mode	FMOD	Model Menu → Device Output → AUX3 → FMOD SW → Active	"O' Position: OFF 1' Position: Not in use 2' Position: activate round fly  This mode require 8 satellites locked, you should see BLUE TRIBLE BLING.  BEFORE activating the round fly mode; you should be in "OE's hold mode" always put the throutle stick to middle position (50%).  The default condity radius is 5 meets if Seet. If you can change the Round fly you disk by editing the ALIX 3 EPA (End Point Adjusts on the F12e transmitter, for details on editing EPA settings, see the F12e instruction manual.
RETURN TO HOME	MIX SW	Model Menu → Device Output → Gear → MIX SW → Active	"O' position: Manual mode "1" position: GFS hold mode "2" position: Beturn To Home  MIX switch to "2" position
HYPER IOC MODE	ELEV D/R	Model Menu → Device Output → AUX2 → ELEV D/R → Active	IOC or intelligent Orientation Control mode Means the aircraft's flight direction is only relative to the original take-off point (where you arred the motors) READRESS of the scalar aircraft heading, with this mode you can fiv past something and pan the aircraft to frame your shot, without having to worny what direction the aircraft is facing.  ELEV DIR switch: "O'P relation: IOC OFF "1" Position: IOC ON The IOC mode require a strong OS lock, you should have within believe of the Sin discator light. IOC is in section of the 1500 is less than 10 mater (of Neel from the original take-off position, point whereyou arread the motors) IOC is in section of the 1500 is less than 10 mater (of Neel from the original take-off position, point whereyou arread the motors) IOC is in section of the 1500 is less than 10 mater (of Neel from the original take-off position, point whereyou arread the motors) IOC is in section of the 1500 is less than 10 mater (of Neel from the original take-off position, point whereyou arread the motors) IOC is in section of the 1500 is less than 10 mater (of Neel from the original take-off position, point whereyou arread the motors) IOC is materied from 1500 in the 1500 in
Extend / Retract Landing Gear	GEAR	Model Menu → Device Output → AUX4 → GEAR SW → Active	GEAR Switch: "O' Position: Extend Landing gear "1" Position: Retract Landing Gear NOTE: BEMEMBER your blooding gear, it is eary to forget the landing gear when thing IPV. Its not a good idea to land on your ca. When activating the BEMEMBER of Homely yetern, which by the place of the heliader system. The FALL HSGO will automatically extend the leading gear for protect your camera and make sure the HSGO land safely. You can not change the landing gear that the HSGO law seathers allowed the forming and and lock if unlock more













**PITCH** 











You should have triple blink = 8sats for this feature.



































Move FMOD switch to \*2 The Round Fly will start

