

# MUST READ BEFORE USING TTROBOTIX GHOST+



1. Please read and follow all the steps in the instruction manual completely.
2. Do not use threadlocker and do not over tighten adapter.
3. Before your first flight, you must download the TTR HERO APP from the Google Play Store and install the APP on your smart phone. Do the compass calibration steps via the TTR HERO APP.



Scan QR Code above and download the TTR HERO APP

4. Please read and follow all the steps in instruction manual and tutorial video at TTR official website ([www.ttrobotix.com](http://www.ttrobotix.com)) or YouTube channel (<https://www.youtube.com/user/ThunderTigerVideo>) for gimbal assembly. We provide different sizes of damper balls and posts for all kinds of flight conditions and user preferences (The factory default is 20mm post with small damper balls). You can also adjust the Ghost+ parameters through TTR HERO APP for suitable parameter / video effect. Below is the factory default parameters and factory suggested parameters for your reference.

### Ghost+ w/o gimbal

Roll Sensitivity : 45 / Pitch Sensitivity : 45 / Sway Compensation : 70

### Ghost+ with gimbal

Roll Sensitivity : 40 / Pitch Sensitivity : 40 / Sway Compensation : 60

**If you choose to adjust suggested values above, please DO NOT increase or decrease the values over 30. The incorrect values will cause high/low sensitivity and instable flight, which may result crash your Ghost+.**

5. Before you power on the gimbal, please adjust the camera(GoPro) to a horizontal position manually. This can avoid inaccuracy initialization of gimbal.
6. Please turn off the WiFi function of the camera(GoPro) to avoid affecting the Tx Function.

If you have any other questions on Ghost+ operation, please contact Thunder Tiger Corp., TTRobotix's authorized distributors or customer service centers worldwide.

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## FLIGHT STATUS INDICATORS / LED LIGHT OF GHOST+

The indicators are defined below:

■ LED is GREEN    ● LED is RED



1. First stage : indicate the battery is low. Please keep your Ghost+ near landing area.
2. Final stage : the Ghost+ will decrease altitude automatically. User could select landing area but CAN NOT push the throttle stick to gain altitude.

Flight Status	LED situation	Description
Manual altitude (Satellite ≤ 4)	<span style="color: green;">■</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> -- <span style="color: green;">■</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span>	LED blinks GREEN once & RED 3 times one loop
Manual altitude (Satellite = 5)	<span style="color: green;">■</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> -- <span style="color: green;">■</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span>	LED blinks GREEN once & RED 2 times one loop
Auto hovering (Satellite ≥ 6)	<span style="color: green;">■</span> <span style="color: green;">■</span> -- <span style="color: green;">■</span> <span style="color: green;">■</span> -- <span style="color: green;">■</span> <span style="color: green;">■</span>	LED blinks GREEN 2 times one loop
First stage low voltage alert	<span style="color: red;">●</span> <span style="color: red;">●</span> -- <span style="color: red;">●</span> <span style="color: red;">●</span> -- <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span>	LED blinks RED 2 times one loop
Final stage urgent low voltage alert	<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> -- <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span>	LED blinks RED 3 times one loop
Return Home	<span style="color: red;">▬</span>	LED solid in RED
Magnetic compass calibration	Horizontal Alignment <span style="color: green;">▬</span>	LED solid in GREEN
	Vertical Alignment <span style="color: red;">▬</span>	LED solid in RED