

# 01 Disclaimer



Thank you for purchasing this HOBBYWING product! Please read this declaration carefully before use...

# 02 Warnings

- Read through the manuals of all power devices and aircraft and ensure the power configuration is rational before using this unit.

# 03 Features

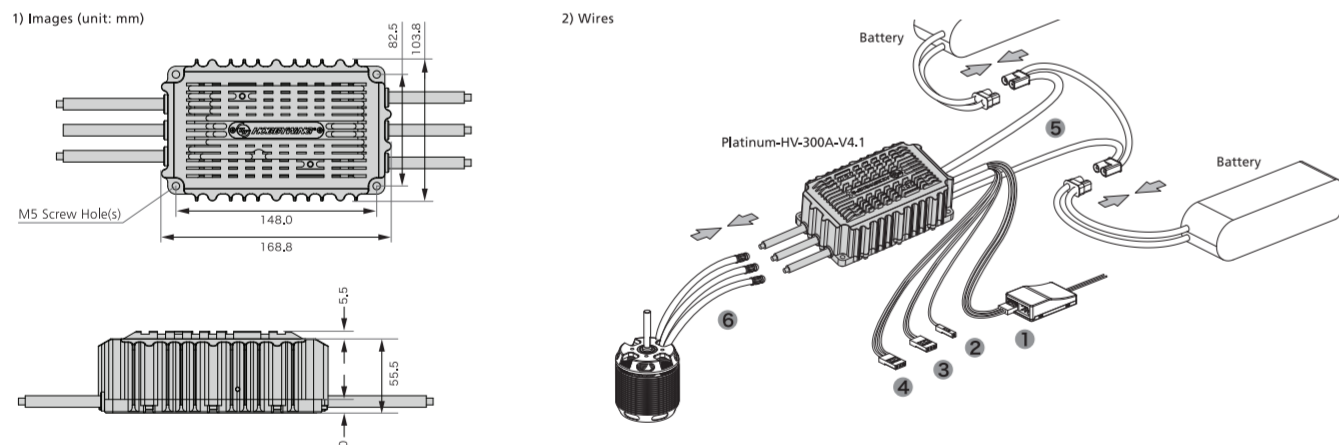
- Special industrial design for good waterproof & dustproof performance, integrated aluminum-alloy housing & one-sided (aluminum base) power circuit board...

# 04 Specifications

Table with 2 columns: Model and Platinum HV 300A V4.1. Rows include Cont./Peak Current, Input Voltage, BEC, Input/Output wires, Separate Programming wire, LED Indicator, Size, Weight.

# 05 User Guide

## 1 Wiring



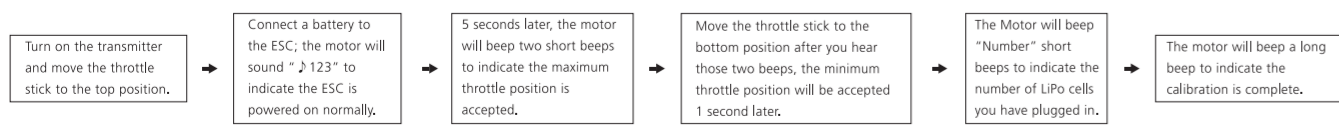
- Tricolor (White/Red/Black) Throttle Signal Wire Harness: for connecting to the corresponding TH channel...

## 2 Normal Start-up Process



- Notes: When the motor beeps to indicate the number of LiPo cells you've plugged in, a long beep "B-" represents a 5S LiPo...

## 3 ESC/Radio Calibration

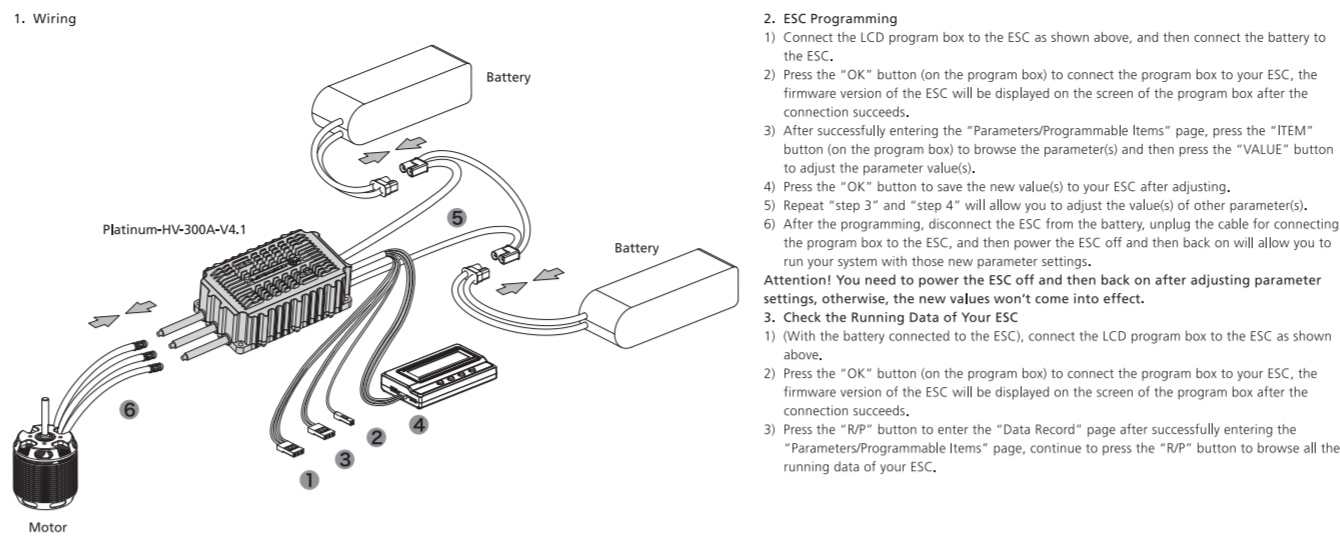


Notes: The throttle range of the ESC is from 1100µs to 1940µs by default. You need to re-calibrate the throttle range when the first time you use this ESC or after you change the transmitter.

# 06 ESC Programming & Data Checking

- Attention: The parameters of this ESC are programmable, you can adjust relevant parameter settings to meet different flight demands.

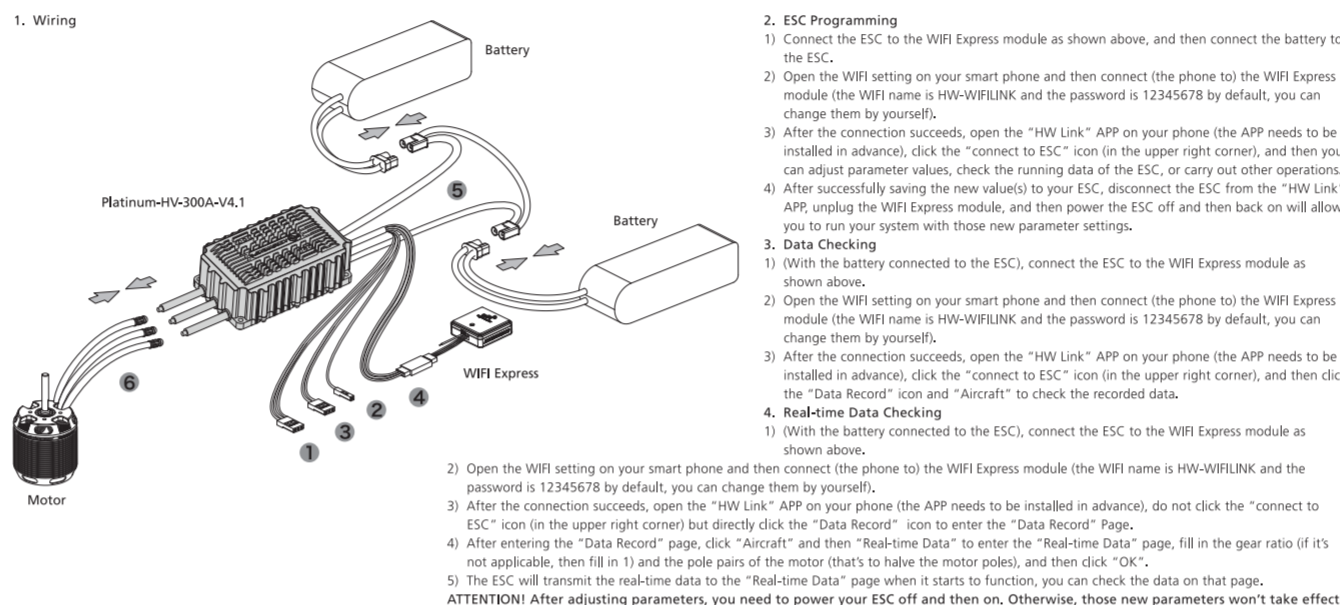
## 1 Program Your ESC with a Multifunction LCD Program Box



- 1. Wiring: Connect the LCD program box to the ESC as shown above...

- 2. ESC Programming: Press the "OK" button on the program box to connect the program box to your ESC...

## 2 Program Your ESC with a WIFI Express (Item sold separately)



- 1. Wiring: Connect the WIFI Express module as shown above...

# 07 Programmable Parameters & Explanations

## 1 Programmable Parameters

1) There are four flight modes available for the ESC, please refer to the following form to check the programmable items under each mode.

Table with 6 columns: Flight Mode, Fixed-wing, Helicopter (Linear Throttle/ External Governor), Helicopter (EI Governor), Helicopter (Store Governor), and Helicopter (Store Governor). Rows list parameters like LiPo Cells, Voltage Cutoff Type, etc.

2) Programmable Parameters & Parameter Values

Table with 5 columns: Parameter Values, Option 1, Option 2, Option 3, Option 4. Rows list parameters like Flight Mode, LiPo Cells, Voltage Cutoff Type, etc.

The options marked with "\*" are the factory default settings.

## 2 Explanations for Programmable Parameters

- 1. Flight Mode: 1.1 Fixed-wing: in this mode, the motor only starts up when the throttle amount reaches 5% or above...

- 7. Governor Parameter P: This item is for controlling the ESC compensate the amount of the motor speed during the process of maintaining the speed-governing effect...

# 08 Speed-governing Function

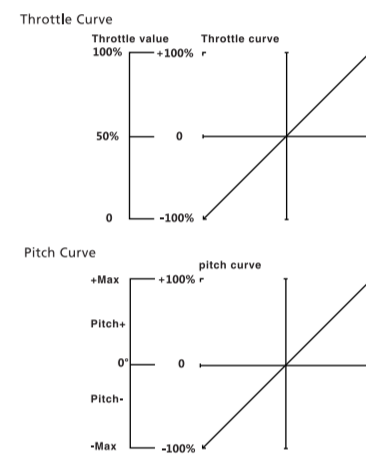
## 1 Explanation for ESC Speed-governing

Establish the "Motor RPM-Throttle Amount Curve" via the speed standardization, and then set the throttle amount to some fixed value on the transmitter...

- 1) In the "Helicopter (EI Governor)" mode, the ESC won't save the "Motor RPM-Throttle" curve after it's disconnected from the battery...

## 2 RPM Standardization

- 1) Theory of RPM Standardization: During the RPM standardization, the ESC will establish a "Motor RPM-Throttle" curve by itself based on the actual battery voltage...



## 3 How to Set the Speed-governing Function

- Notes: 1) The best throttle amount (set in the Helicopter "Store Governor" mode) of the ESC ranges from 70% to 90%, so please try to set the throttle amount...

# 09 Warning Tones & Protections

## 1 Warning Tones

Table with 4 columns: Trouble, Warning Tone, LED Status, Cause. Rows describe input voltage anomalies, throttle signal loss, and over-current protection.

## 2 Protections

- 1. Power-on Abnormal Voltage Protection: The ESC will measure the input voltage when it's connected to a battery or power supply...

# 06 ESC Programming & Data Checking