



感谢您购买本产品！错误的使用可能导致设备损坏，强烈建议您在设备使用前仔细阅读本说明书并保存，严格遵守规定的操作程序。我们不承担因使用本产品或擅自对产品进行改造所引起的任何责任，包括但不限于对附带损失或间接损失的赔偿责任。我们有权在不通知的情况下变更产品的设计、外观、性能及使用要求。

01 规格参数

| | | | |
|------|-----|----------------|-----------------|
| 工作电压 | 重量 | 尺寸(供参考) | 应用 |
| 5V | 46g | 95x66.5x16.3mm | Lightning系列车模电调 |

02 使用方法

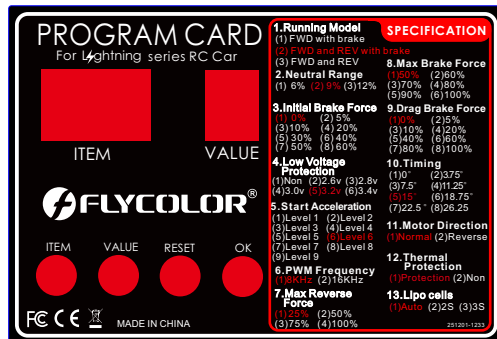
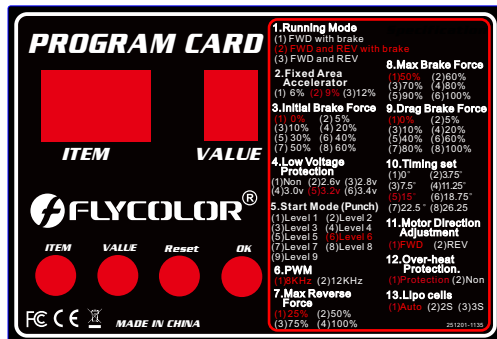
- 用编程卡对电调进行设置是最理想和方便的选择，只要将电调信号线插入编程卡对应的 (+ -) 接口。
(注意：1.未带BEC输出的电调，请在“+”加入5VDC；2.先将电调信号线插入编程卡，再给电调上电。)
- 按下【ITEM】按键选择想要更改的项目；
按下【VALE】按键选择该项目的参数值；
按下【OK】VALUE窗口显示“S”表示该参数值设置完毕。
- 恢复出厂默认选项先按【RESET】，再按【OK】即可。

03 编程项目和参数

*阴影部分为出厂默认设置

| 项目 | 参数 | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|-----------|-------|-------------------|-------|--------|------|--------|-------|--------|-----|-----|
| 1.运行模式 | 正转带刹车 | 正反转带刹车 | 直接正反转 | | | | | | | |
| 2.油门中立点区域 | 6% | 9% | 12% | | | | | | | |
| 3.初始刹车力度 | 0% | 5% | 10% | 20% | 30% | 40% | 50% | 60% | | |
| 4.电池低压保护 | 不保护 | 2.6V | 2.8V | 3.0V | 3.2V | 3.4V | | | | |
| 5.启动加速度 | 1级 | 2级 | 3级 | 4级 | 5级 | 6级 | 7级 | 8级 | 9级 | |
| 6.工作频率 | 8KHz | 12KHz (16KHZ)* | | | | | | | | |
| 7.最大倒车力度 | 25% | 50% | 75% | 100% | | | | | | |
| 8.最大刹车力度 | 50% | 60% | 70% | 80% | 90% | 100% | | | | |
| 9.拖刹力度 | 0% | 5% | 10% | 20% | 40% | 60% | 80% | 100% | | |
| 10.进角设置 | 0度 | 3.75度 | 7.5度 | 11.25度 | 15度 | 18.75度 | 22.5度 | 26.25度 | | |
| 11.电机运转方向 | 正转 | 反转 | | | | | | | | |
| 12.过温保护 | 保护 | 不保护 | | | | | | | | |
| 13.锂电池节数 | 自动判别 | 2节 | 3节 | | | | | | | |

*16KHZ适用于80A以上lightning车模电调，详见电调说明书



Thank you for choosing our brushless electronic speed controller (ESC). Any improper operation may cause personal injury and equipment damage. We strongly suggest users read the instruction carefully and completely. We will not assume any responsibility for personal injury, property damage, or any consequential damages resulting from our product.

01 Specification

| | | | |
|---------------|--------|---------------------------|---------------------------------|
| Rated voltage | Weight | Dimension (for reference) | Application |
| 5V | 46g | 95x66.5x16.3mm | Lightning series ESC for RC Car |

02 How to use

- Use ESC programming card to program is the most convenient choice, only need to insert the ESC signal cable into (+ -) port on the programming card. (Note: 1.Please supply 5VDC to programming card if the ESC is without BEC; 2.First insert the ESC signal cable into the programming card, then power up the ESC).
- Press the [ITEM] button to select the item you want;
Press the [VALUE] button to select the value of the Item you want;
Press the [OK] button, the VALUE window display "S" which means this value is saved;
- To restore the factory default values press the [RESET], then press [OK].

03 Programming Item and Value

*Shadow parts are factory default value

| items | values | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------------|--------------------|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|-----|
| 1. Running Mode | Forward with brake | Forward and reverse with brake | Forward and reverse | | | | | | | |
| 2. Fixed Area Accelerator | 6% | 9% | 12% | | | | | | | |
| 3. Initial Brake Force | 0% | 5% | 10% | 20% | 30% | 40% | 50% | 60% | | |
| 4. Low Voltage Protection | Non-protection | 2.6V | 2.8V | 3.0V | 3.2V | 3.4V | | | | |
| 5. Start Mode (Punch) | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | |
| 6. PWM | 8KHz | 12KHz (16KHZ)* | | | | | | | | |
| 7. Max Reverse Force | 25% | 50% | 75% | 100% | | | | | | |
| 8. Max Brake Force | 50% | 60% | 70% | 80% | 90% | 100% | | | | |
| 9. Drag Brake Force | 0% | 5% | 10% | 20% | 40% | 60% | 80% | 100% | | |
| 10. Timing | 0° | 3.75° | 7.5° | 11.25° | 15° | 18.75° | 22.5° | 26.25° | | |
| 11. Motor Direction Adjustment | Forward | Reverse | | | | | | | | |
| 12. Over heat Protection | Protection | Non-Protection | | | | | | | | |
| 13. Lipo Cells | Auto | 2S | 3S | | | | | | | |

*16KHZ is for 80A and above 80A lightning series ESCs, please see the ESC user manual for details.

