

1-8 ESC M8 V2.0 Firmware Intorduction (for FLETA M8)

• Operation Mode

1. For/Brake

“Forward Only with Brake” this mode is meant for competition use. In this mode the car can go forward and brake, there is no reverse.

2. For/Rev/Brake

“Forward/Reverse with Brake” this is the basic all-around mode. In this mode the car can go forward and reverse and can also brake. When you move the throttle to the reverse position while the car is moving forward, brakes are applied until the car stops, reverse cannot engage while the car is moving. To engage reverse, once the car has stopped, release the brakes and move the throttle to the reverse position again. While braking or in reverse, if the throttle is moved to the forward position, the car will immediately accelerate forward.

3. For/Reverse

“Forward/Reverse” this mode is meant for Rock Crawler use. In this mode there is no brake, the car can go from forward to reverse immediately without any pause. Do not use this mode with other car types as it can overload and/or damage the ESC.

• Reverse Speed

Max. Reverse Speed

Different reverse amount will bring different reversing speed. For the safety of your vehicle, we recommend using a low amount(25%).

• Low Volt Cut

Sets the voltage at which the ESC lowers or removes power to the motor in order to either keep the battery at a safe minimum voltage. The ESC monitors the battery voltage real time, it will immediately reduce the power to 30% (in 3 seconds) and cut off the output 10 seconds later when the voltage goes below the cutoff threshold. The RED L flash that repeats to indicate the low-voltage cutoff protection

is activated. Please set the

“Cutoff Voltage” to “Disabled” or customize this item if you are using NiMH batteries.

1.None

The ESC does not cut the power off due to low voltage. We do not recommend using this option when you use any LiPo battery as you will irreversibly damage the product. You using a NiMH battery select this option.

2.Custom

The customized cutoff threshold is a voltage for the per cell battery.

• Drag Brake

Drag brake is the braking power produced when releasing the throttle trigger to neutral zone. This is to simulate the slight braking effect of a neutral brushed motor while coasting. [Attention] Drag brake value will consume much power, so please apply it cautiously.

• Initial Brake

It can also be called as the minimum brake force. It’s the brake force applied to the motor when pushing throttle trigger from neutral zone to the initial brake position. For getting the smooth braking effect, the default is equal to the drag brake. If you set this item to a big value, then you can have a different braking effect. if drag brake is active

• Full Brake

This parameter adjusts the maximum breaking force.

A higher value provides stronger braking, but it also causes extra stress to the ESC and motor.

The actual break force will also be affected by gear ratio and rotor size.

Recommend setup 95% value super linear break feeling.

Modified Motor 3.5T to 9.5T 90%

Stock Motor 10.5T to 27.5T 95%

• Brake Frequency

You can have a strong brake force when setting this item to a low value; you will get a smooth brake force when setting this item to a high value. Please select the most suitable brake frequency after you test your car on the track.

Recommend setup

Modified Motor 3.5T to 5.5T 2KHz

Stock Motor 10.5T to 27.5T 1KHz

• NEU Dead Band

This setting adjusts the wide of neutral dead band suitable for your R/C system.

Smaller value gives you more immediate stating point of throttle.

• Temp Cut Set

This setting adjusts the Thermal Protection shout down temperature.

Note the internal temperature sensor requires a brief moment to detect temperature change. In case of sudden current overload, the thermal protection may not shut down in time.

The ESC will automatically cut off the output and the RED LED will flash a short, single flash that repeats when the temperature gets up to the value you preset and activates the ESC thermal protection. The output won’t resume until the temperature gets down.

• BEC Voltage

1. 6.0V

It’s applicable to ordinary servos.

2. 7.4V

It’s applicable to high voltage servos. Do not use this option with ordinary servos. If use normal servos may be broken to the high voltage.

• Rotation Mode

This setting reverses the spinning derection of the motor's rotor shaft. Enable this setting if you chassis requires a different spinning direction. For example if you use 3 gear transmission 2WD off road car.

• Restore Default

Selecting this setting will erase and reset all setting to factory default values.

After you up and down grade ESC firmware please try one time this "Restore Default"

• Max Temperature & Max RPM

After your run , turn off the ESC , the data will be saved to the memory.

You connect the SHR Program box to the ESC and turn on can be check the Max ESC temperature and Max Motor out.

The data in the memory will be updated when you turn the speedo on and off next running.