FLETA EURO V2

HIGH-PERFORMANCE ELECTRONIC SPEED CONTROL

FLETA EURO V2 ESC USER MANUAL

Thank you for purchase of Muchmore Racing FLETA EURO V2 electronic speed controller.
New FLETA EURO V2 is specifically designed for 1/10 scale electric R/C racing.
No matter which class of competition you race in, the FLETA will help you achieve better results.
Before you start, please read through this instruction manual carefully.
It contains important safety information as well as setup tips from MuchmoreRacing website.
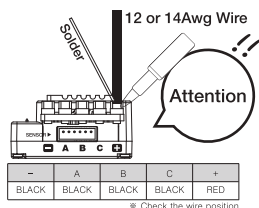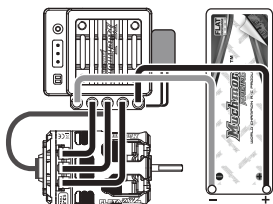
■ FEATURES ■

• NEW Button type ON/OFF switch & BEC setup
• NEW Direct mtotor cooling fan power
• NEW High current with adjustable BEC voltage system
• NEW RPM Limit Mode (Only blinky 3.0 Firmware over)

• 2 color LEDs for quick status display.
• Support for "Blinky" (Zero-Timing) spec racing mode.
• Variable drive and brake frequency tuning for expert racing.
• Fully configurable throttle and brake response.
• User adjustable low voltage and over temperature protection.
• FLOW-MAX™ design cool aluminum housing with 20mm high rpm cooling fan.
• Programmable by SHR program card(need latest firmware) & PC Interface.
• User upgradable firmware.

SAFETY INFORMATION

• Keep this product out of reach of children. • This product is designed only for R/C car model use. It is not suitable for any other purpose. • Never leave this product unattended while it is connected to a power source. • Make sure all cables are in good condition and securely fastened. • Keep in mind that vibration during operation may loosen connections and cause loss of control. • Do not connect in reverse polarity. • To prevent short-circuits, please make sure that all cables and connectors are properly insulated. • Keep this product away from water, oil, fuel or other conductive liquids. If this product becomes damp, immediately stop using it and let it dry completely. • Avoid using excessive force when tightening the cooling fan screws. Over tightening them may permanently damage the aluminum housing. • Make sure to use suitable gear ratios for your track condition. Unsuitable gear ratios may overload and damage your speed controller and motor. • Never operate with throttle when the motor has no load. Running the motor without load may cause damage and risk of fire or burn.

ESC Model	FLETA EURO V2
Current	Continuous 80A / Peak 380A
Input	2S LiPo, 2S LiFe / 5-7 cells NiMh/NiCd
BEC	6V/7.4V Program setup switchable Max 5A
Cooling Fan	Powered by Battery Output Voltage
Suitable Motor	9.5T over
KV Rating/T Count	1/0th Touring Cars ≥ 9.5T, 1/10th Buggy ≥ 13.5T
Size	32.7mm(L) x 26.5mm(W) x 17mm(H)
Weight	21.5g(without Wire, Capacitor and Cooling fan)

BASIC INSTALLATION

12 or 14Awg Wire

Solder

Attention

–	A	B	C	+
BLACK	BLACK	BLACK	BLACK	RED

※ Check the wire position

Soldering Battery Wires, Motor Wires, and Capacitor make sure to use a soldering iron with sufficiently high temperature. Never leave the soldering iron on the mounting point for longer than 5 seconds. If it takes than 5 seconds to melt the solder between the joints, switch to a higher temperature solder iron. Overheating the mounting points will damage the ESC.

Pay special attention to the polarity marking below the mounting point. Make sure you connect each phase (A,B,C) of the motor to the corresponding (A,B,C) mounting point on the ESC. We recommend using a red color wire for the positive(+) battery input terminal, and a black color wire for the negative(–) terminal. Connecting a battery in reverse polarity will damage the ESC !!
Remember to solder the included power capacitors to the battery input mounting point!
Running the motor without connecting capacitor will damage the ESC!
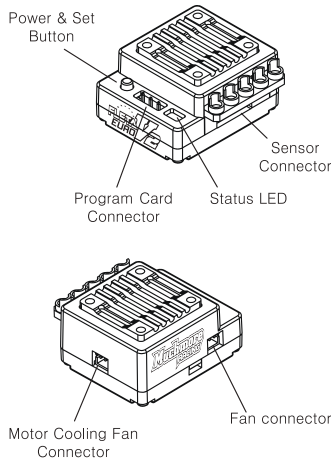
Connection and Mounting
Connect the Rx connector to the throttle channel of your radio receiver.(White Shrink tube is Signal wire)
Connect one end of the sensor cable to the motor's sensor port, and the other end to the ESC's sensor port. Secure the ESC, power switch, and capacitor on your model car's chassis with double sided tape. If necessary, install the included cooling fan on top of the ESC with screws, and make sure to check for correct polarity when connecting to the cooling fan power port.

POWERING ON FLETA

Always power ON your transmitter first before powering ON your ESC to avoid unexpected operation of the motor. For your safety, motor operation is automatically disabled until neutral throttle signal is detected
from the radio receiver. Synchronizing the FLETA and Transmitter. In order for the ESC to recognize the full throttle range of your radio, a throttle range calibration is required.
Before starting, make sure your radio throttle EPA and D/R is set at 100%. The trim and sub-trim should be zero.
Warning: To prevent any chance of loss of control or damage and injuries, make sure to remove the pinion gear from the motor during the calibration process!

Power & Set Button

Program Card Connector   Status LED

Sensor Connector

Motor Cooling Fan Connector   Fan connector

The ESC must be calibrated to your transmitter inputs. Reset all settings inside the transmitter before the calibration.

Transmitter On

Press the On/Off button

Green LED Solid

STEP 01. Calibration ready

1. Transmitter throttle EPA 100%, throttle point is neutral.
2. Press and hold the On/Off button for calibration mode.
3. Green LED with continous beep sound
4. Release the On/Off button.

■ Throttle point neutral

Press the On/Off button

Green LED Flashes

Red LED beep 1time

STEP 02. Neutral setup

1. Throttle point is neutral
2. Press and release the On/Off button
3. Change red LED after green LED flashes. (beep sound 1 time)

◀◀ Move to full throttle point

Press the On/Off button

Red LED Flashes

Red & Green LED beep 2 times

STEP 03. Forward setup

1. Throttle point is forward (full throttle)
2. Press and release the On/Off button
3. Change red & green LED after red LED flashed. (beep sound 2 times)

▶▶ Throttle point full Brake

Press the On/Off button

Red & Green LED Flashes

Beep 3 times Red LED Flashes

STEP 04. Breck(Backward) setup

1. Throttle point is backward (full break)
2. Press and release the On/Off button
3. Change red LED after red & green LED flashed. (beep sound 3 times)

■ Throttle point neutral

Beep Sound

STEP 05. Setup finish

1. Throttle point is neutral
2. Finished calibration setting

How to Setup Changing (RPM LIMIT or Blinky)

FLETA EURO V2 ESC added on RPM Limit function
Using RPM Limit Mode, ESC will control below the limit RPM when driving. This function will operate Blinky 3.0 firmware, can change RPM limit mode, Blinky mode without program card.
1. Turn on ESC. (You can check Blinky, RPM Limit function with LED status. Check the LED status indicator table)
2. If you want to change mode, Press One-touch button 3 times fast. You can check mode with LED status.

LED STATUS INDICATOR

There are different color LED's on the face of the ESC for status indication. Please refer to following table for their meaning :

Green Solid	Neutral Throttle	Green solid / Red Flashing	Over Temperature Protection Activated
All Color Solid	Full Throttle / Reverse	All Color Flashing	No Sensor Cable Detected
Red Solid	Full Brake	Off the LED	Power ON Without Signal From Receiver
Green Flashing	Zero Timing Mode	Red Flashing	Motor connection error(A, B, C)
Green Flashing twice and Red flash once	RPM Limit Mode		

WARRANTY

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