SC 120A Electronic Speed Controller (SK300052)

SC120A
Advanced Timing System

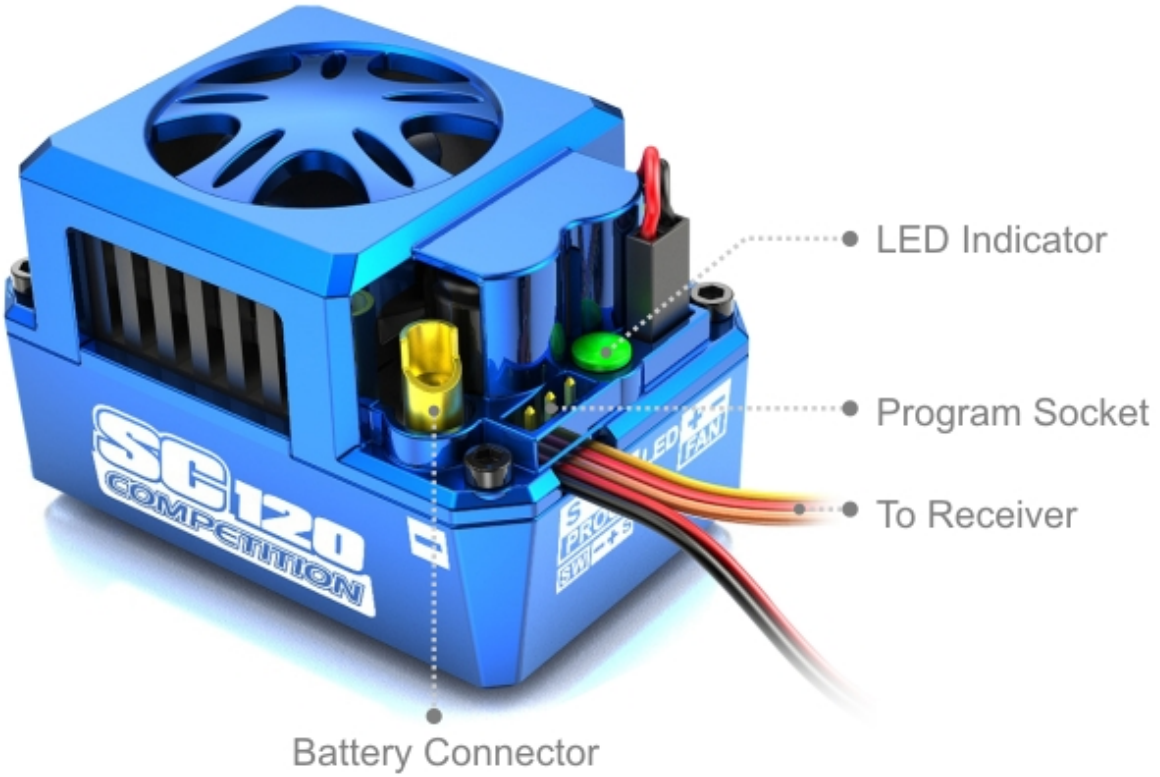
The Toro SC120 brushless ESC is a sensored speed control specifically designed to meet the rigors of short course racing.The built-in switching mode BEC has a powerful output to supply all electronic equipments even with 4S Lipo input.

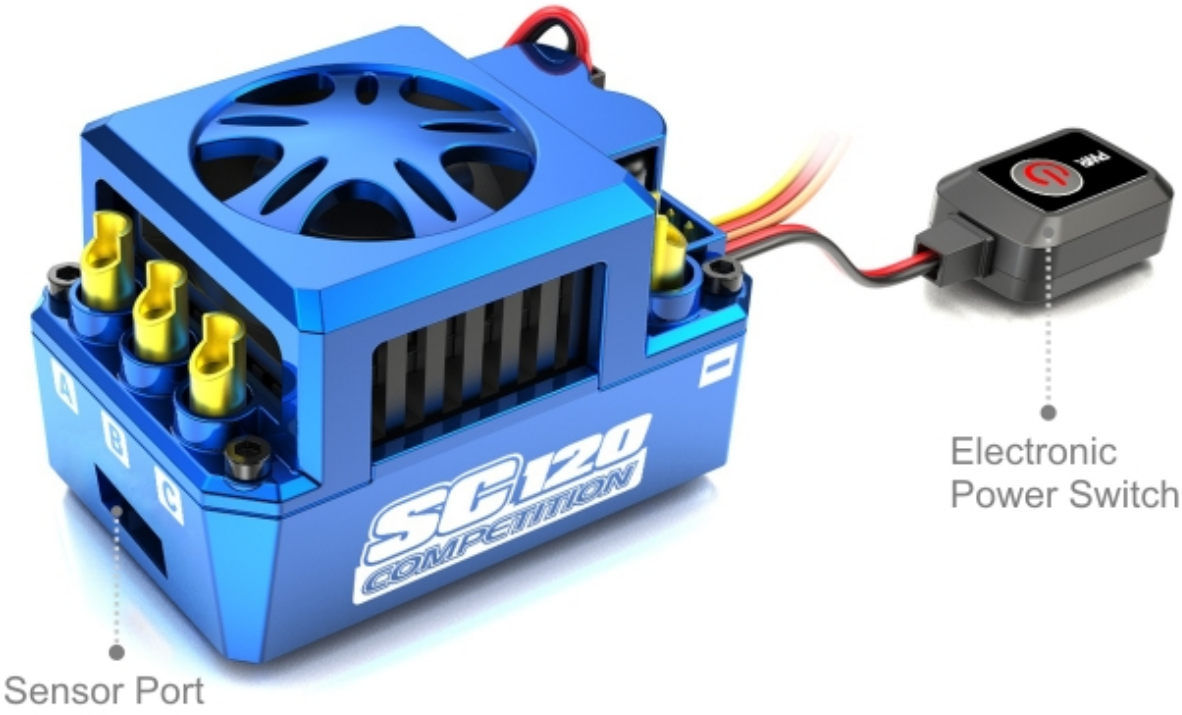
It comes with 3 running models and 9 start models from' soft' to Very aggressive' to suitable for different tracks, also comes with multiple protection features: Low voltage cut-off protection for lithium or nickel battery / Over-heat protection / Throttle signal loss protection / Motor blocked protection. The ESC firmware is updatable via an USB adapter.

It is easily programmed via the Advanced LCD Program Box and the major electronic

components are sealed against splashing water and dust.

Compact Design


LED Indicator
Program Socket
To Receiver
Battery Connector
SC120
COMPETITION


Electronic
Power Switch
Sensor Port
SC120
COMPETITION

Electronic Power Switch

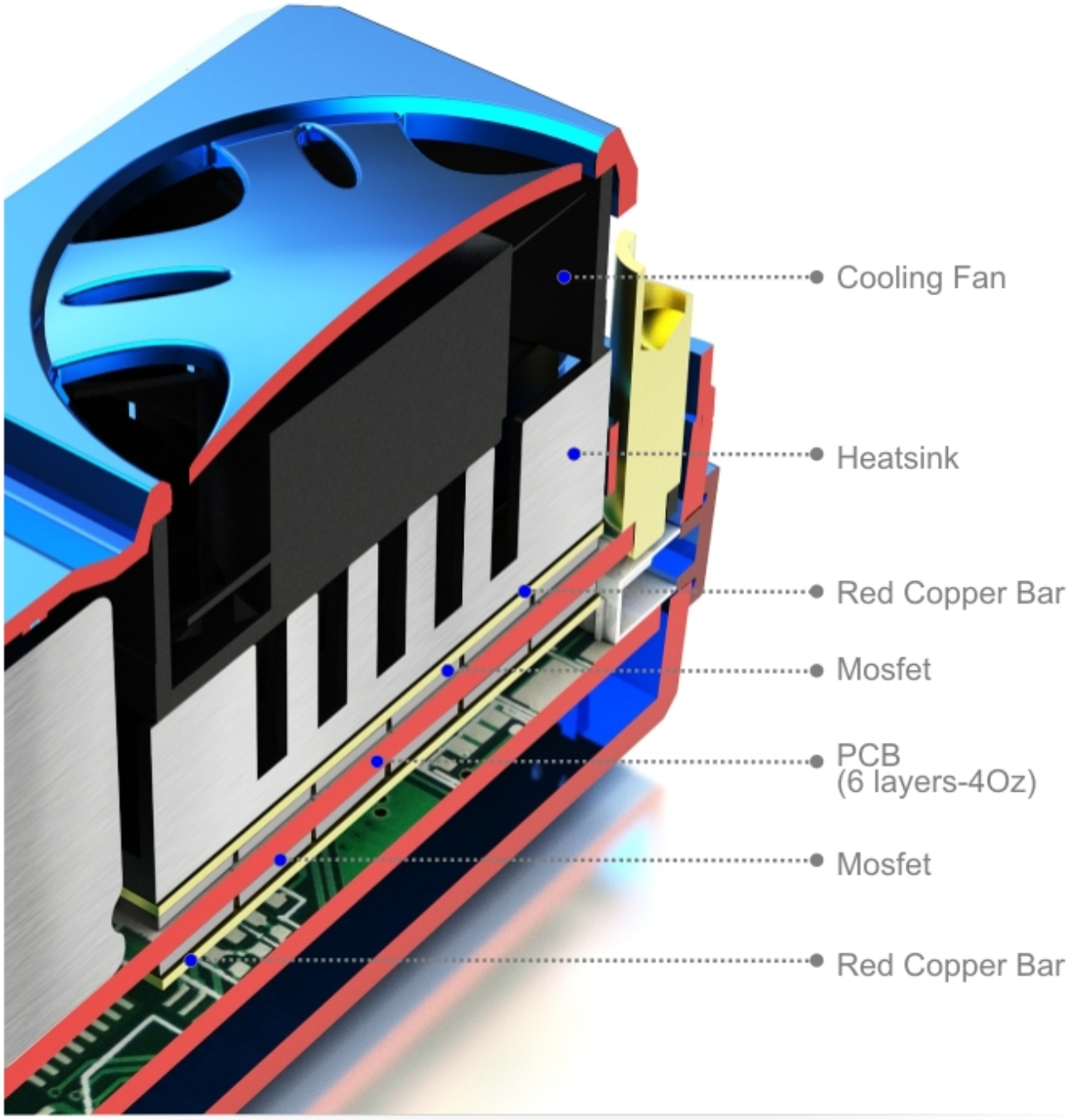
A simple push button operates the switch

meaning to eliminate the problems associated

with intermittent contact of an ordinary

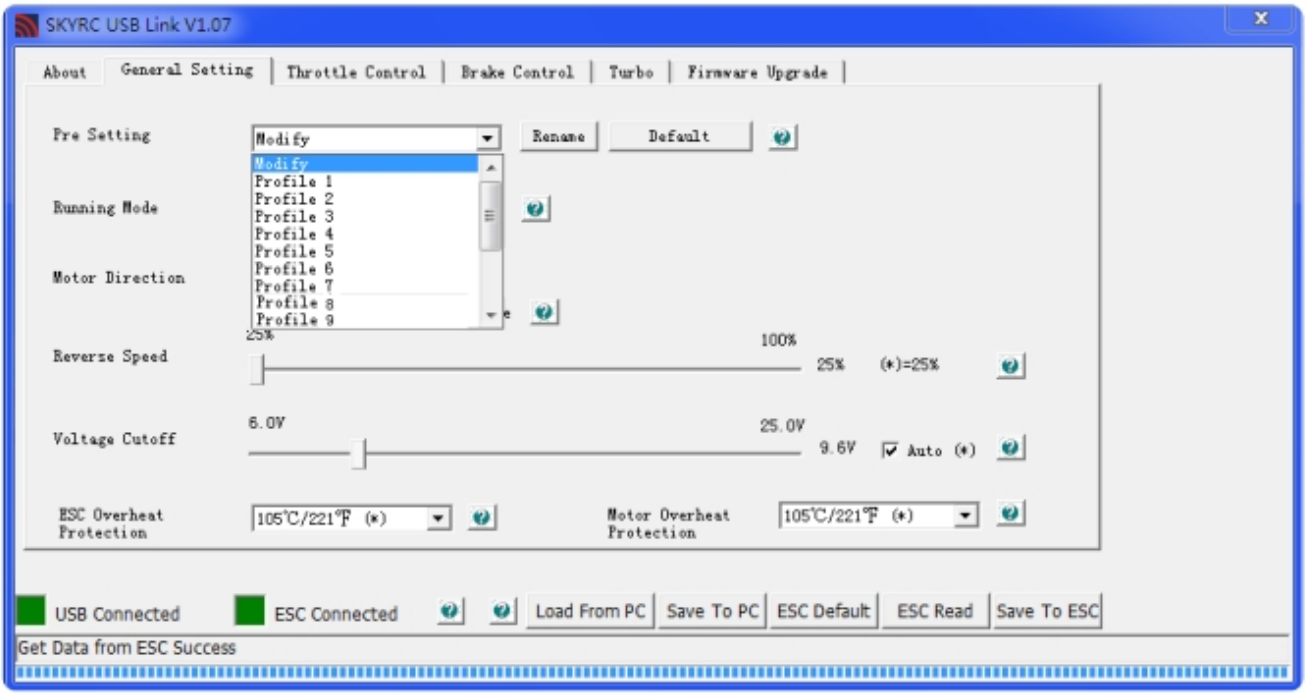
mechanical switch.

Less Resistance, Less Heat, More Efficiency

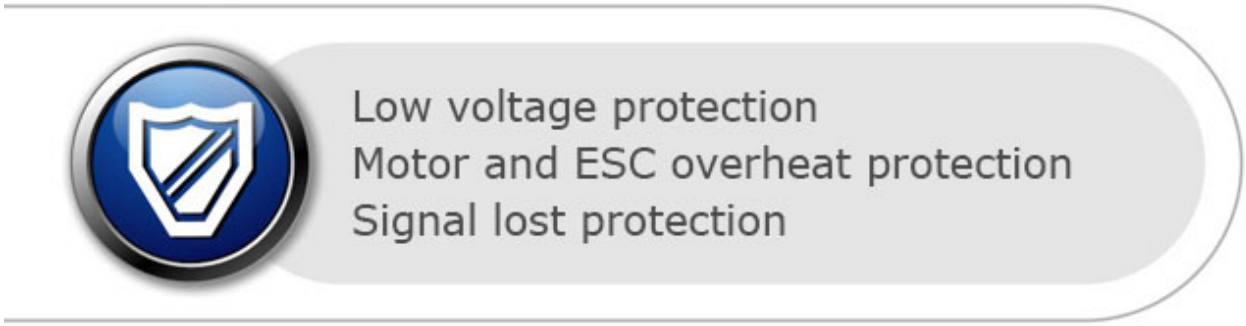


10 User Modifiable Profiles

The users could set and store 10 sets of profiles in the ESC. These data could be called out at any time without any special program setting. All the setting can be exported or imported so that the user could compare and analyze.

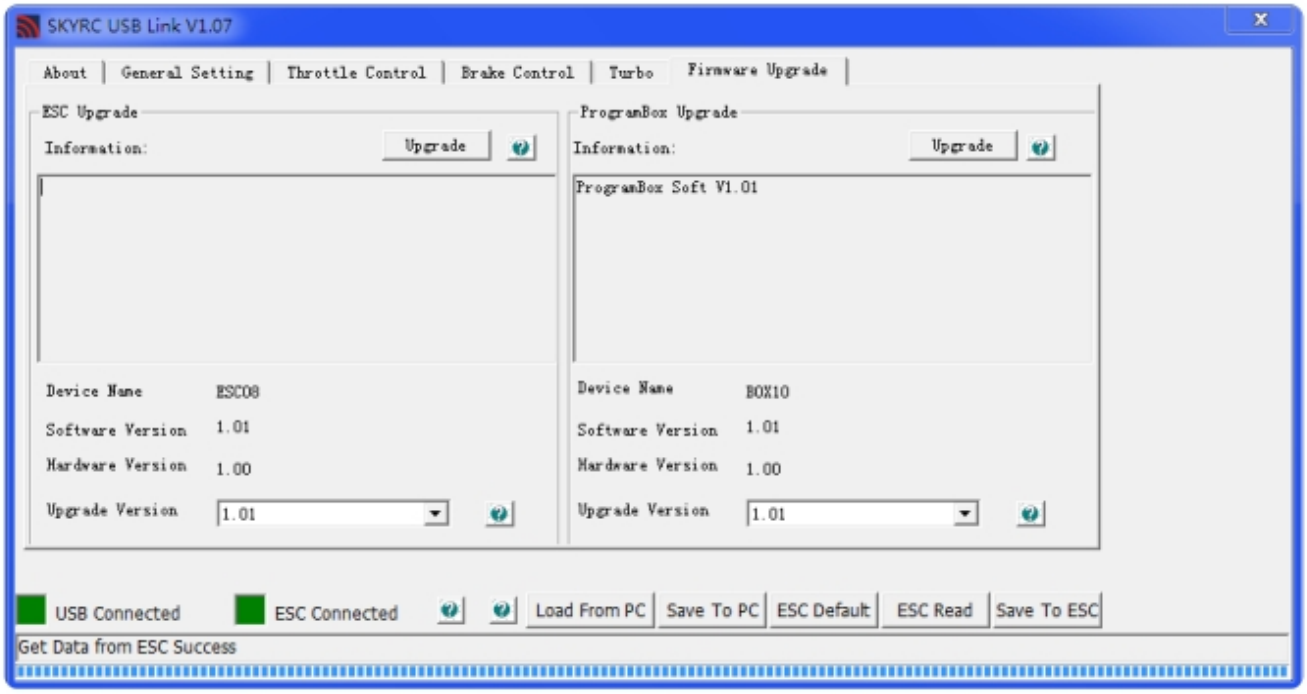


Safety Features



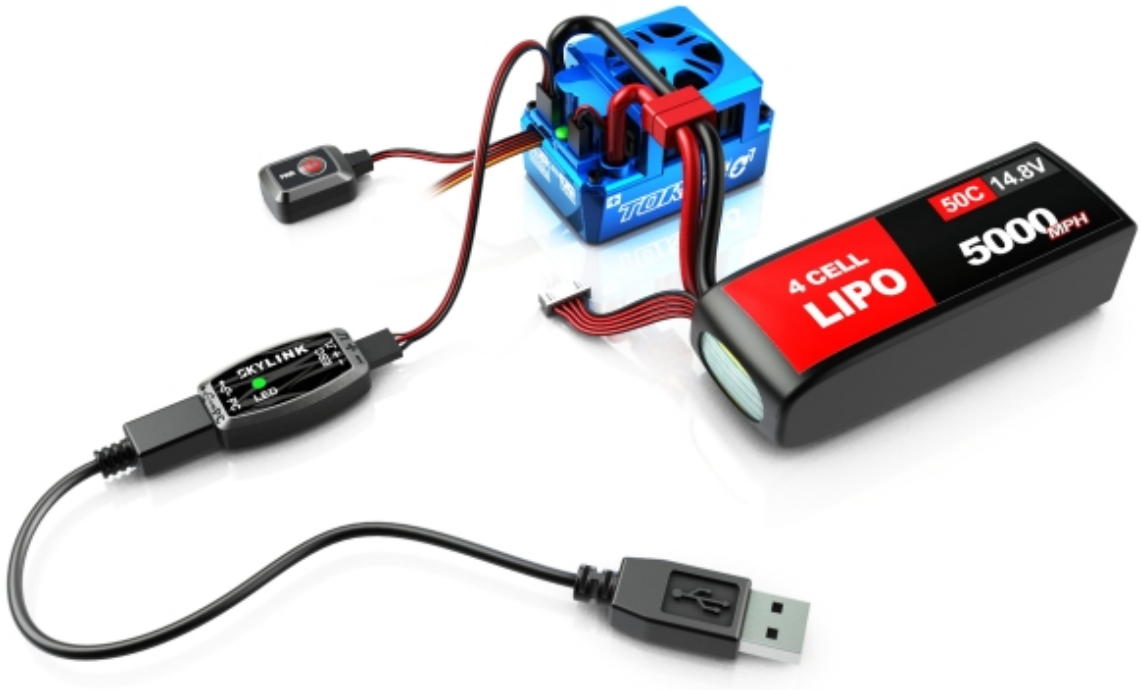
Firmware Update

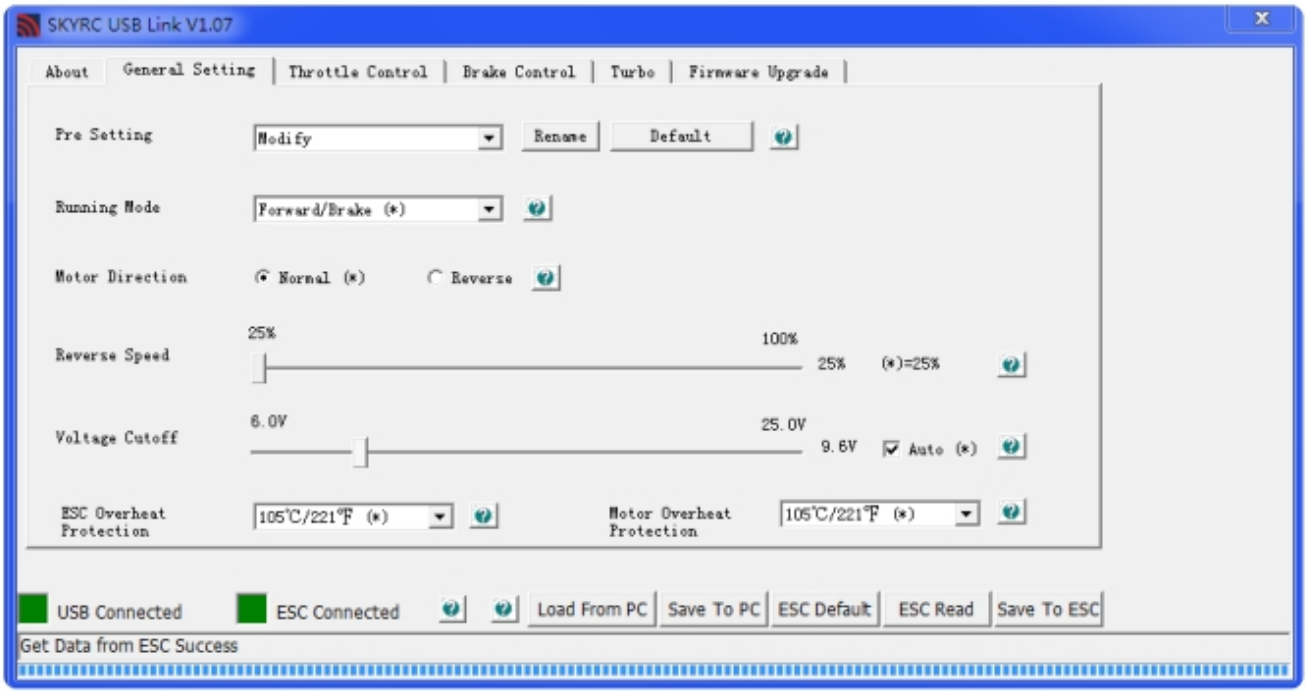
The firmware can be updated by connecting the ESC to a PC or a smart phone.



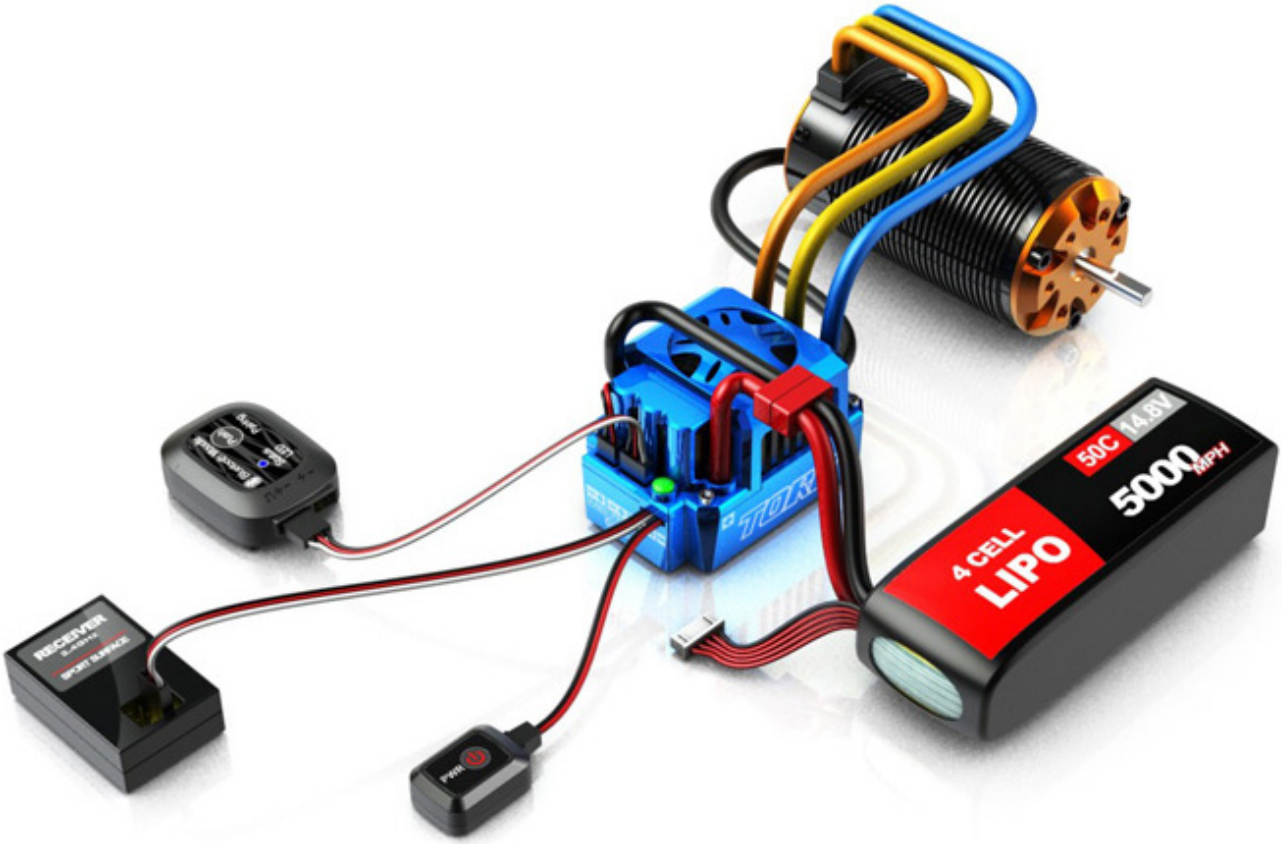
Programming Methods

The ESC can be programmed with a PC connected with SKYLINK (SK-600013)

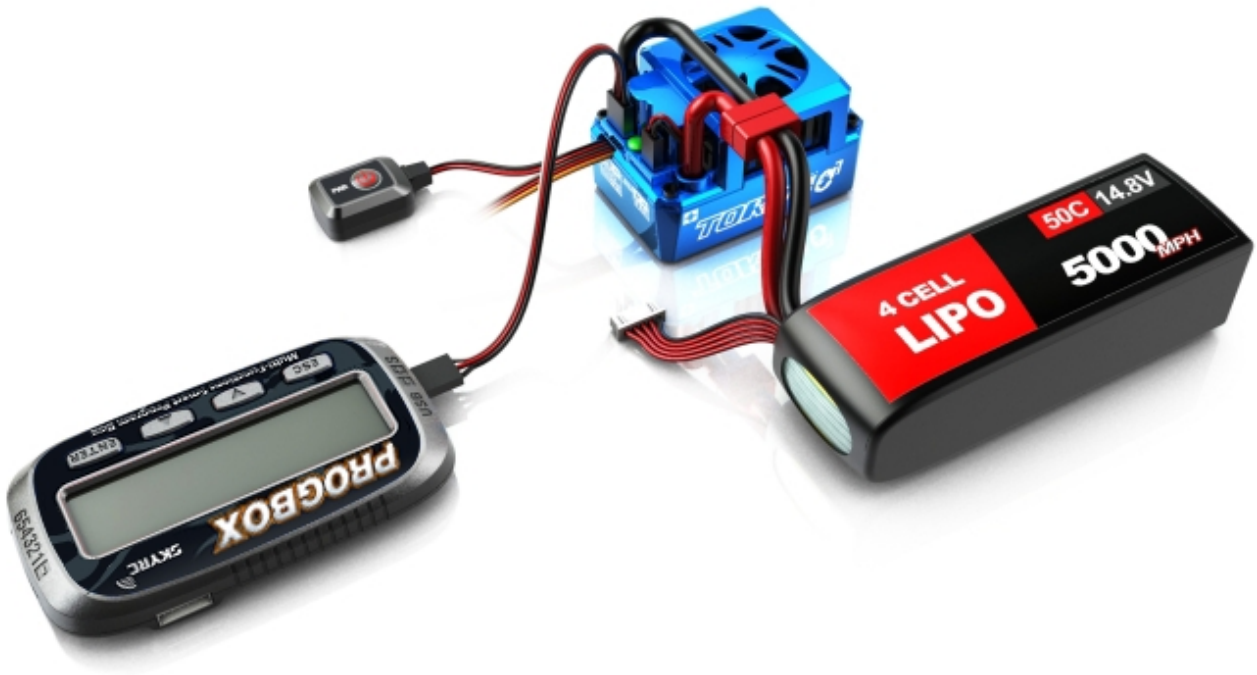

SKYLINK
LED
4 CELL
LIPO
50C 14.8V
5000 MPH


SKYRC USB Link V1.07
About
General Setting
Throttle Control
Brake Control
Turbo
Firmware Upgrade
Pre Setting
Modify
Rename
Default
Running Mode
Forward/Brake (*)
Motor Direction
Normal (*)
Reverse
Reverse Speed
25%
100%
25%
(*)=25%
Voltage Cutoff
6.0V
25.0V
9.6V
Auto (*)
ESC Overheat Protection
105℃/221℉ (*)
Motor Overheat Protection
105℃/221℉ (*)
USB Connected
ESC Connected
Load From PC
Save To PC
ESC Default
ESC Read
Save To ESC
Get Data from ESC Success

The ESC can be programmed with a smart phone via Bluetooth Module (SK-600058)

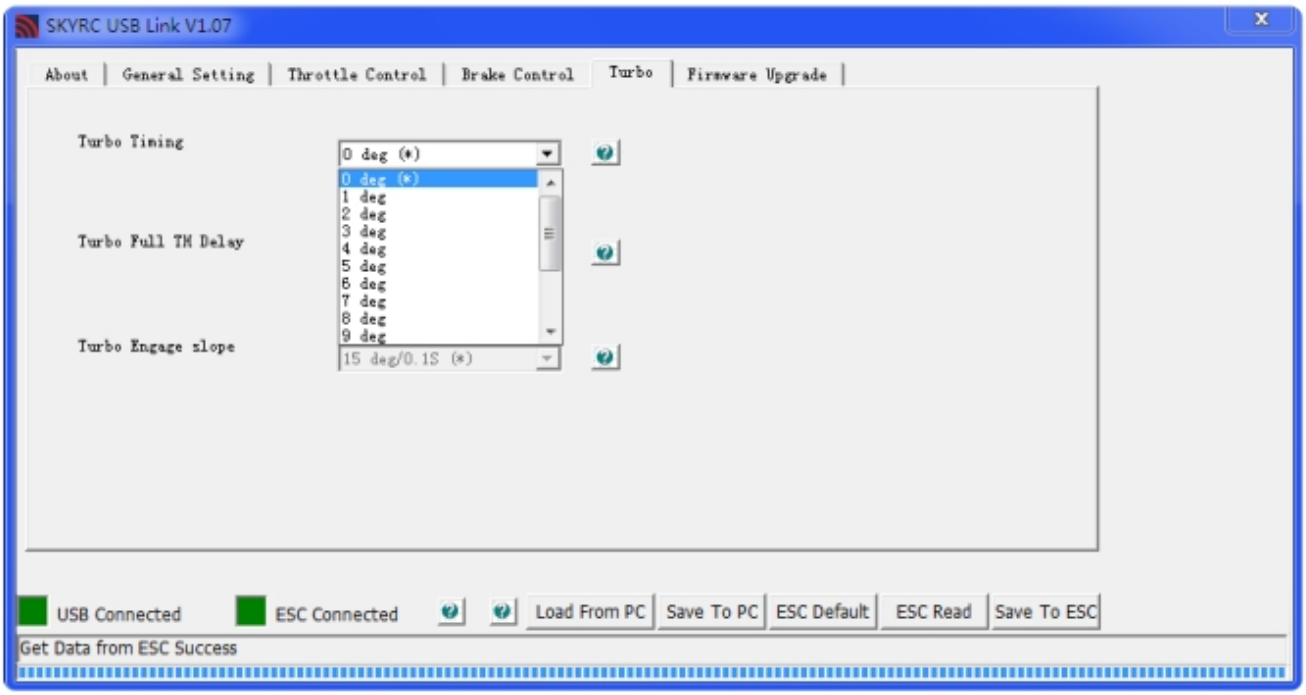


The ESC can be programmed with the PROGBOX (SK-600046)



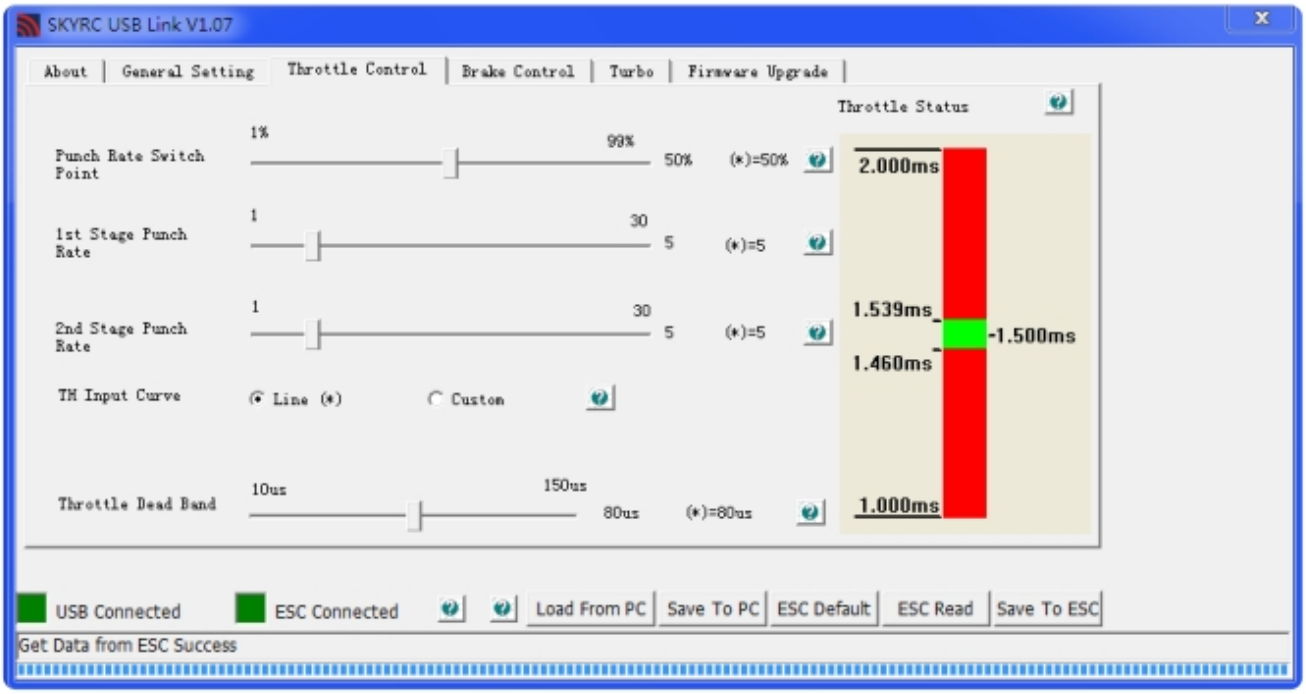
Precise Programmable Items

Advanced Timing System
Users could set the turbo and boost timing which can improve the motor RPM to get its best performance.

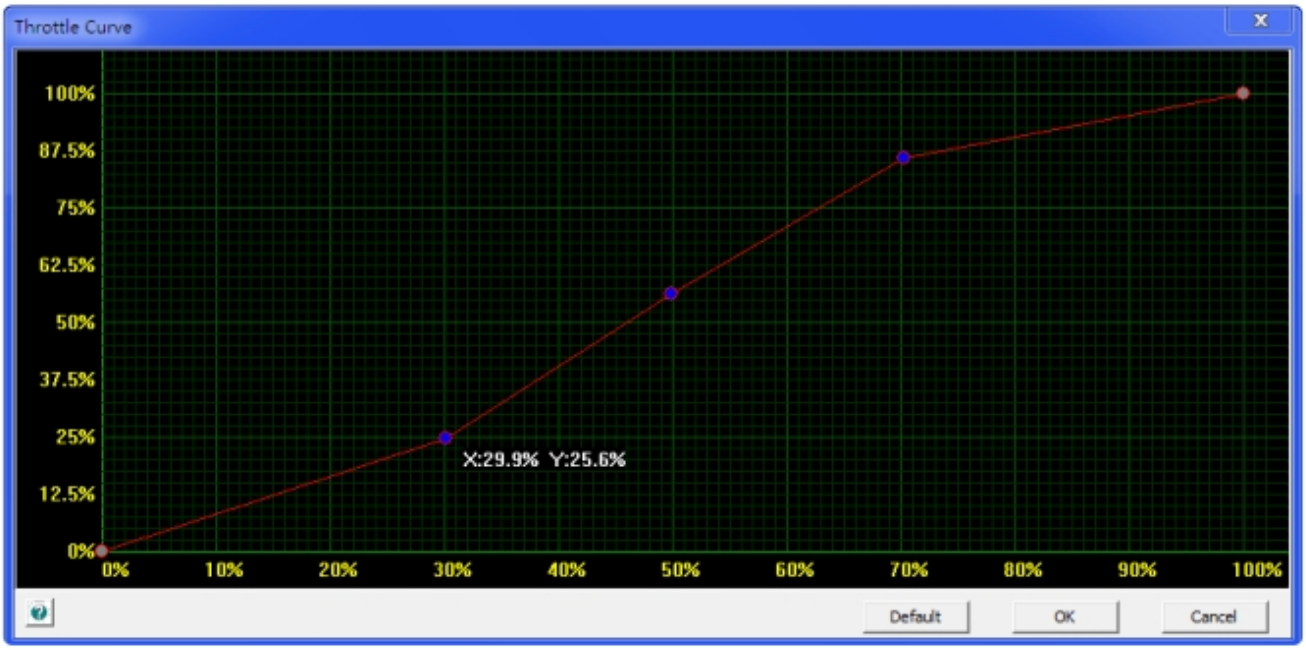


Well-performed Throttle and Brake Control Function

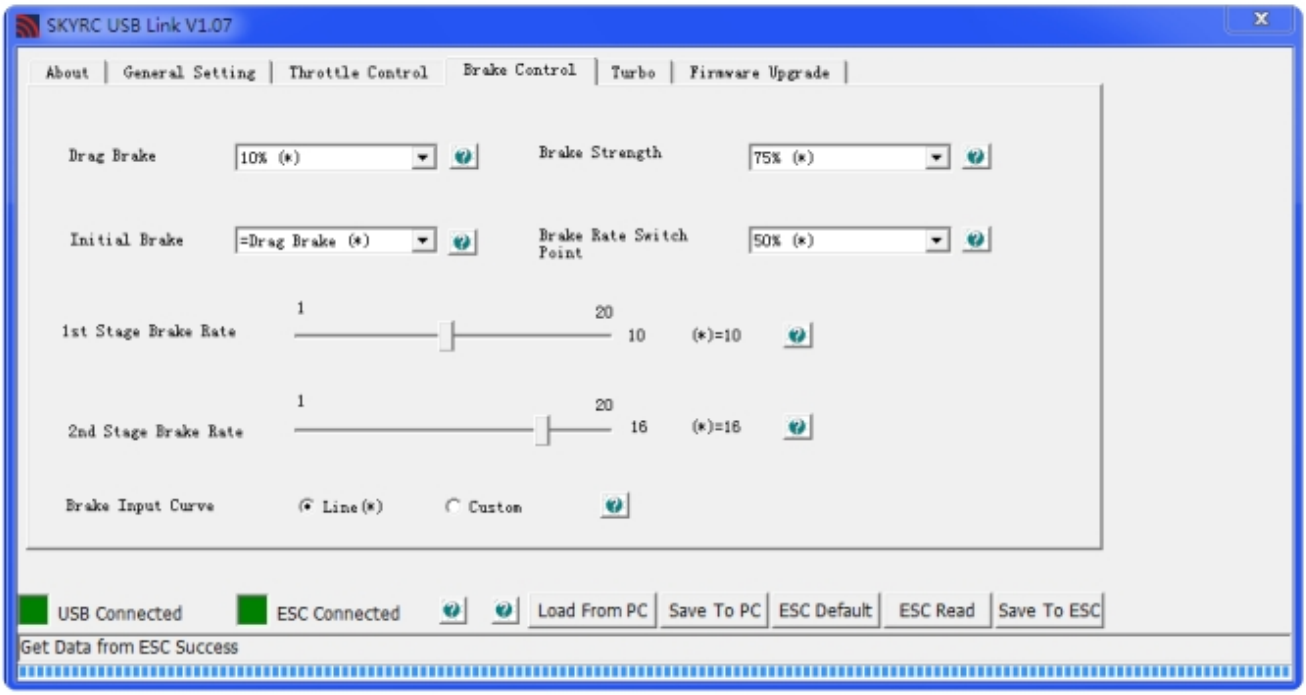
Users could set the punch/brake control rate by point or customize the throttle/brake curve by themselves,and different customers' request for linear and power all can be met.



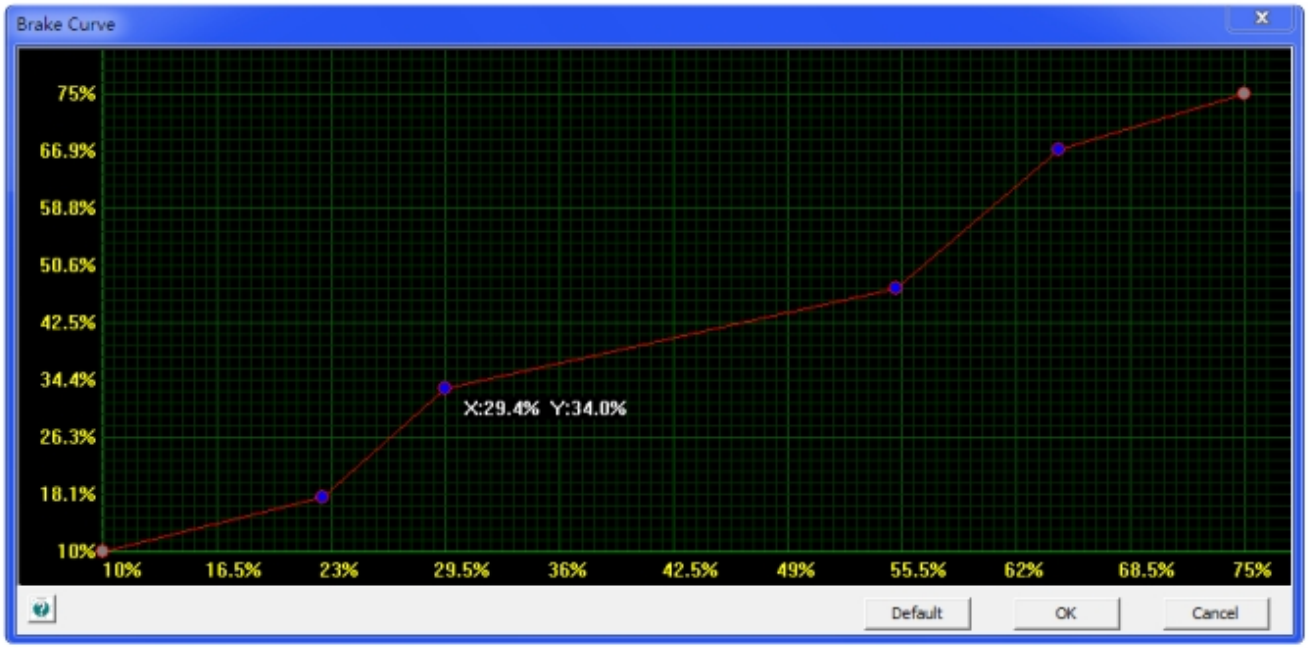
Throttle Control Setting



Throttle Curve Custom



Brake Control Setting



Brake Curve Custom

TECHNISCHE DATEN

Constant/Burst Current	120A / 760A
Motors	Sensor & Sensorless Brushless Motors
Cars	1/10 Short Course or Monster, 1/8 Short Course or Buggy
Motor Limits	6S NiMH or 2S LiPo: ≤6000KV 7-9S NiMH or 3S LiPo: ≤4000KV 10-12S NiMH or 4S LiPo: ≤3000KV
Resistance	0.0003 Ohm
Battery Cell Count	6-12S NiMH or 2-4S LiPo
BEC Output	6V 3A, Switched
Fan	6V 0.2A
Weight	76g (without wires)
Dimensions (LxWxH)	57x38x35mm

DOWNLOADS

- SkyRC Toro SC 120A [SK300052] Manual (974.5 KiB)
- SkyRC_UsbLink_V1.07.zip (1.1 MiB)