DUALSKY[®] XController Brushless ESC Programming Instructions

Thank you for purchasing our Electronic Speed Controller (ESC) for sensor less brushless motor. High power system for RC model can be very dangerous, we strongly suggest you reading this manual carefully.

Feature Explanation:

- 1. Brake Settings: Brake Enabled / Brake Disabled, default is Brake Enabled
- 2. Battery Type: Li-xx(Li-ion or Li-poly) / Ni-xx(NiMh or Nicd), default is Li-xx.
- 3. Low Voltage Protection Mode(Cutoff Mode): Power Reducing / Power Cutoff, default is Power Reducing.
- 4. Low Voltage Protection Threshold(Cutoff Threshold): Low / Medium / High, default is Medium.
 - 1) For Li-xx battery, number of battery cells are judged automatically, low / medium / high cutoff voltage for each cell are: 2.5V/2.75V/3.0V.
 - 2) For Ni-xx battery, low / medium / high cutoff voltages are 60%/65%/70% of the startup voltage.
- 5. Startup Mode: Normal /Soft /Super-soft, default is normal startup. Normal is good for fixed-wing aircraft. Soft / Super-soft are good for helicopters, the initial speeds of soft / super-soft mode are pretty slow, 1sec(soft startup) / 2secs(super-soft startup) from startup to full speed. But if throttle is closed (throttle stick moves to bottom)and opened again(throttle stick moves up) within 3 seconds after the first startup, the startup will be in normal mode to get rid of the chances of crash caused by slow throttle response in aerobatic fly.
- Timing: Low / Medium / High, default is Medium.
 In normal cases, low timing can be used for most motors. But for high efficiency, we recommend the Low timing for 2 poles motor and Medium timing for 6 poles and above. For higher speed, High timing could be used.
 Attention: High timing could cause problem with some motors. Please test on ground first!

Normal startup procedure:

