



Help file for the X-Pro USB interface

- Battery

choice of the used battery type

- NiCd / NiMh
- Selects NiCd or NiMH batteries. The number of cells is automatically detected by the controller.
- Lilon / LiPo
- Selects Lilon or LiPo batteries. The number of cells is selected for "Number LiPos".
- Number of LiPos
- Here you can select a number of the cells used Lipos.

- RPM control (Governormode)

Activation of speed control for helicopters

- Active
- Click to activate the active speed control
- Range 1
- mostly used for 2pole motors
- Range 2
- mostly used for 4pole motors
- Range 3
- mostly used for motor with 6 or more poles

- Software

displays the software version of the controller

- Undervoltage

Setting of the "low voltage action"

- Reduce Power
- controller will reduce power to conserve battery power, and so the power does not decline further.
- shutdown
- controller will cutt of the engine and the voltage does not decline further.
- Ignore
- Any "low voltage action" are disabled. ATTENTION! The battery is not protected against deep discharge.

- Threshold V / cell

• This sets the voltage per cell, should be operational as of the undervoltage criteria. Please check with the battery manufacturer, which values are recommended for your batteries.

- Motor Control

choice of some motor control parameters

- Brake
- Adjusting the brakes in various strengths

- Timing

Setting the timing

- "0-5°". for motors with 2 and 4 poles Please refer to the instructions / specifications of the engine
- "10-25°", for motors with 6 or more poles. Please refer to the instructions / specifications of the engine

- "auto", here is the acceleration of the motor increases, the timing and the speed at reach withdrawn the timing again.

Soft Start

- Delayed start for helicopters or transmission applications with large reductions

Change the direction of rotation

- reversal of the motor rotation

• data transfer

- Read

- Here is detected which controller type is connected and the setup program, the possible parameters available

- Writing

- Once the parameters have been set with the button "Write" the parameters are transmitted to the controller. When the data transfer has been completed successfully is the display panel shows an "OK".

- Update

- After pressing the "Update" button in the folder .. / Hacker-Motor/Update stored software versions are shown. Selecting one of these software versions will again demand that the selected software version to be transmitted to the controller. Attention, all values in the controller will be overwritten! Any changes to the parameters must be chosen again and transferred. After selecting the "OK" button, the new software is transferred to the controller. The transfer progress is indicated. After successfully transferring the "Update successful" message appears.

• Frequency

Setting the switching frequency

- 8kHz

- Standard for most engines. Minimal losses in the esc

- 16kHz

- Only in individual cases! Please follow the instructions / specifications of the motor/motor manual. If you do not find the information, please use the setting 8kHz.

• Connection Status

Status of the connection between the computer with USB interface and controller

- USB

- Green with active connection between the computer and a USB interface

- Red, no connection:

USB cable and / or USB interface not connected

USB driver is not loaded. The required driver is located in the folder ...your hard disk / Hacker-Motor/driver / .. Please use depending on the Windows version of how to proceed.

- XP/WIN7:

- Start / Control Panel / Hardware

- Follow the instructions and then select the folder above

- Windows install the corresponding driver.

- Perhaps you will tell Windows to restart the computer. Please follow the instructions

- Now the hardware is recognized automatically when you connect the interface

- ESC

- Green with active communication between computers, USB interface and controller

- Red

- not connect regulator

- Receiver cable connected wrong, please check the label on the USB interface

- controller type is not supported by the program. Please refer to the instructions of the esc. Only the X-Pro series are designed for the USB interface.

Enjoy using our products.

Declaration of Conformity

The described products are manufactured in compliance with
the relevant and applicable EG Guidelines:

Electromagnetic compatibility: 2004/108/EG

The following fundamental standards were used:

EN 55014-1 Februar 2010

EN 55014-2 Juni 2009

Ergolding, 4.03.2011



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