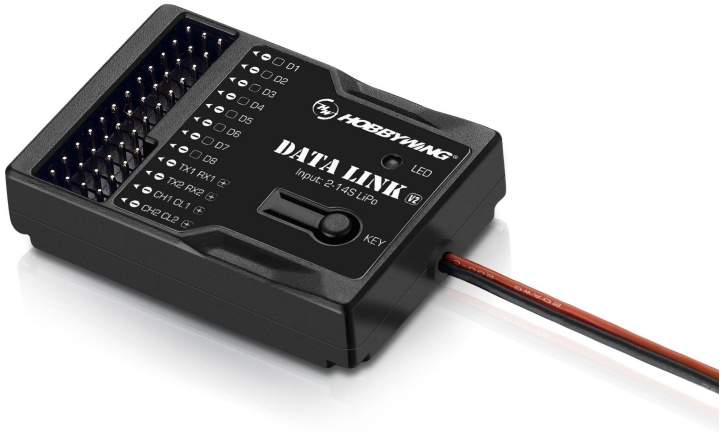
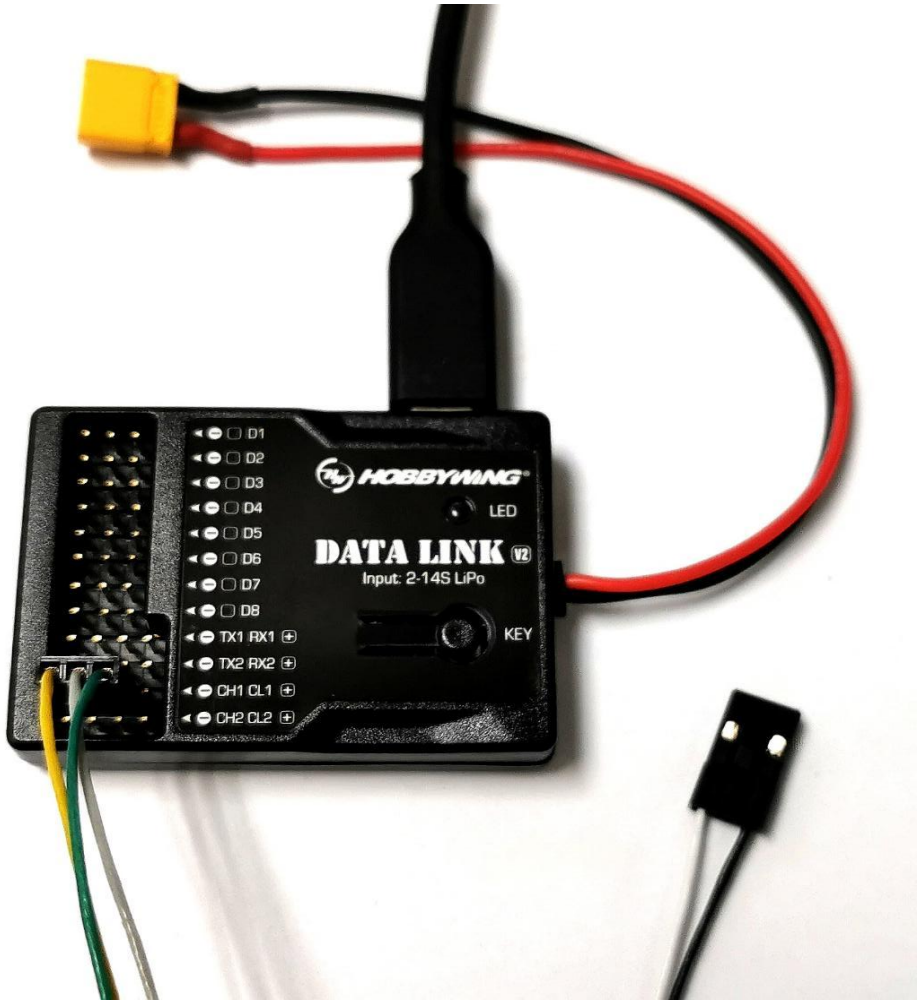
Datalink IPC Function Setting Guide (CAN)

Tools：



Datalink V2

Type-C Cable

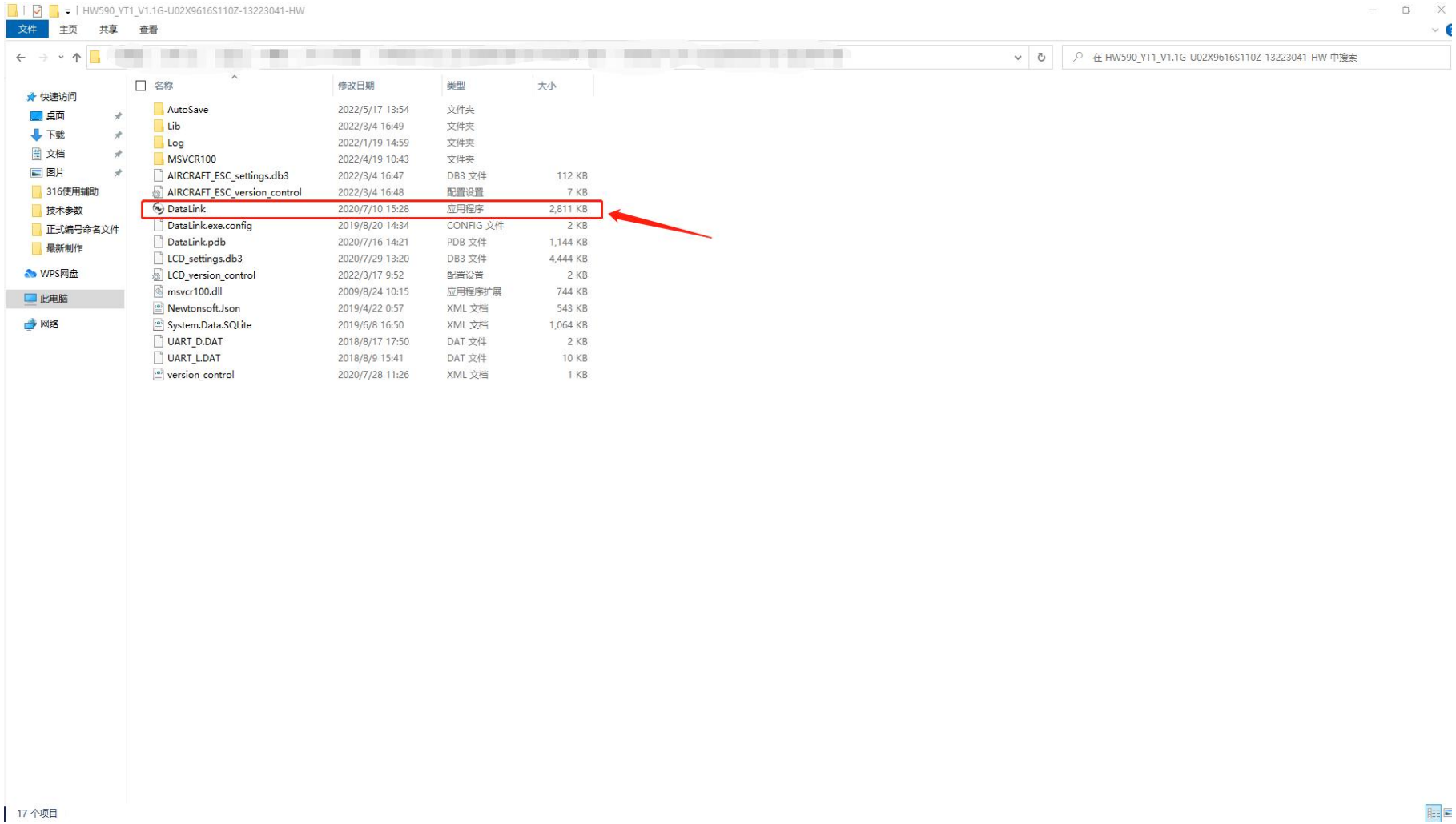


TIPS:

1. Datalink only needs USB power supply.
2. Independent power supply is required to ESC in the upgrade process. For details, see the following article.
3. Only one ESC upgrade is supported, using the -CH1 CL1.
4. The yellow line is GND, the middle is CH, and the green line is CL. The positive pole can not be connected.
5. The black and white lines must have access PWM signals when setting IPC function.
6. If the LED light flashes red, it is abnormal. Please contact the after-sales service.

PS: IPC=Intelligent propeller control

Software:


HW590_YT1_V1.1G-U02X9616S110Z-13223041-HW
文件
主页
共享
查看
在 HW590_YT1_V1.1G-U02X9616S110Z-13223041-HW 中搜索
快速访问
桌面
下载
文档
图片
316使用辅助
技术参数
正式编号命名文件
最新制作
WPS网盘
此电脑
网络
名称
修改日期
类型
大小
AutoSave 2022/5/17 13:54 文件夹
Lib 2022/3/4 16:49 文件夹
Log 2022/1/19 14:59 文件夹
MSVCR100 2022/4/19 10:43 文件夹
AIRCRAFT_ESC_settings.db3 2022/3/4 16:47 DB3 文件 112 KB
AIRCRAFT_ESC_version_control 2022/3/4 16:48 配置设置 7 KB
DataLink 2020/7/10 15:28 应用程序 2,811 KB
DataLink.exe.config 2019/8/20 14:34 CONFIG 文件 2 KB
DataLink.pdb 2020/7/16 14:21 PDB 文件 1,144 KB
LCD_settings.db3 2020/7/29 13:20 DB3 文件 4,444 KB
LCD_version_control 2022/3/17 9:52 配置设置 2 KB
msvcr100.dll 2009/8/24 10:15 应用程序扩展 744 KB
NewtonsoftJson 2019/4/22 0:57 XML 文档 543 KB
System.Data.SQLite 2019/6/8 16:50 XML 文档 1,064 KB
UART_D.DAT 2018/8/17 17:50 DAT 文件 2 KB
UART_L.DAT 2018/8/9 15:41 DAT 文件 10 KB
version_control 2020/7/28 11:26 XML 文档 1 KB
17 个项目


DataLink
USB 串口
固件更新
CAN调参
UART调参
更新信息
数据库版本: 2023-05-10
2025-02-20 14:42:47:499 : 系统时间: 2025-2-20 14:42:47
2025-02-20 14:42:47:500 : 日期相同，无需同步
类型
Uart->ESC
CAN->ESC
CAN
Uart->ESC(FAST)
CAN->ESC(FAST)
DataLink
2、如果不是，点击这里
2. If it is not, click here
316软件版本
LINK-01.2.16-SC
1、确认DataLink盒子的固件版本是否为LINK-01.2.16-SC
1. Check if the firmware version of DataLink V2 is LINK-01.2.16-SC
设备类型
HW-DATALINK
硬件版本
HW316_YT1_V1.3
固件版本
LINK-01.2.16-SC
可用版本
LINK-01.2.16-SC
CAN_TEST_ESC_0.1
FAST-C V001
FAST-U V001
PWM TOOLS V1.11
LINK-01.1.06-C
LINK-01.1.06-U
LINK-01.2.07-U
LINK-01.2.07-C
LINK-01.2.16-C
LINK-01.2.16-SC
3、选择LINK-01.2.16-SC，点击下方的“更新”
3. Choose LINK-01.2.16-SC, click "更新" below to execute the firmware upgrade
V2.0.5 连接状态: 通讯状态:

Tips：

Power on the ESC after you click “扫描”


DataLink
USB 串口
固件更新
CAN调参
UART调参
总线速率
基础设置
独立参数
公共参数
500K Hz
停止
保存参数
导出参数
导入参数
1
恢复出厂
软件复位
看见右侧标识后点击停止
When you see the indicator on the right, that means ESC is detected, and click "停止", which means "stop scanning device"
V2.0.5 连接状态: 通讯状态:


DataLink
USB 串口
固件更新
CAN调参
UART调参
总线速率
500K Hz
基础设置
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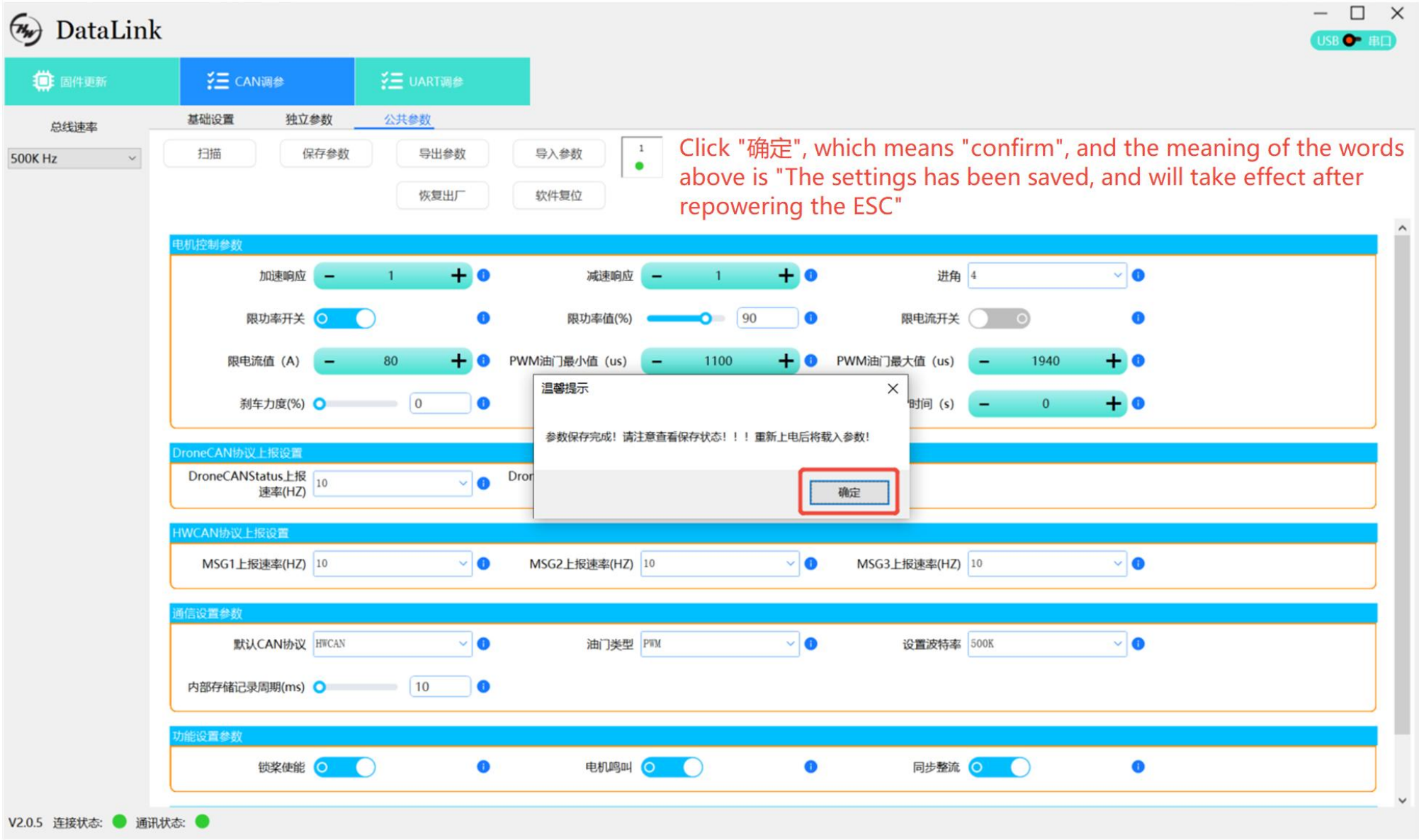
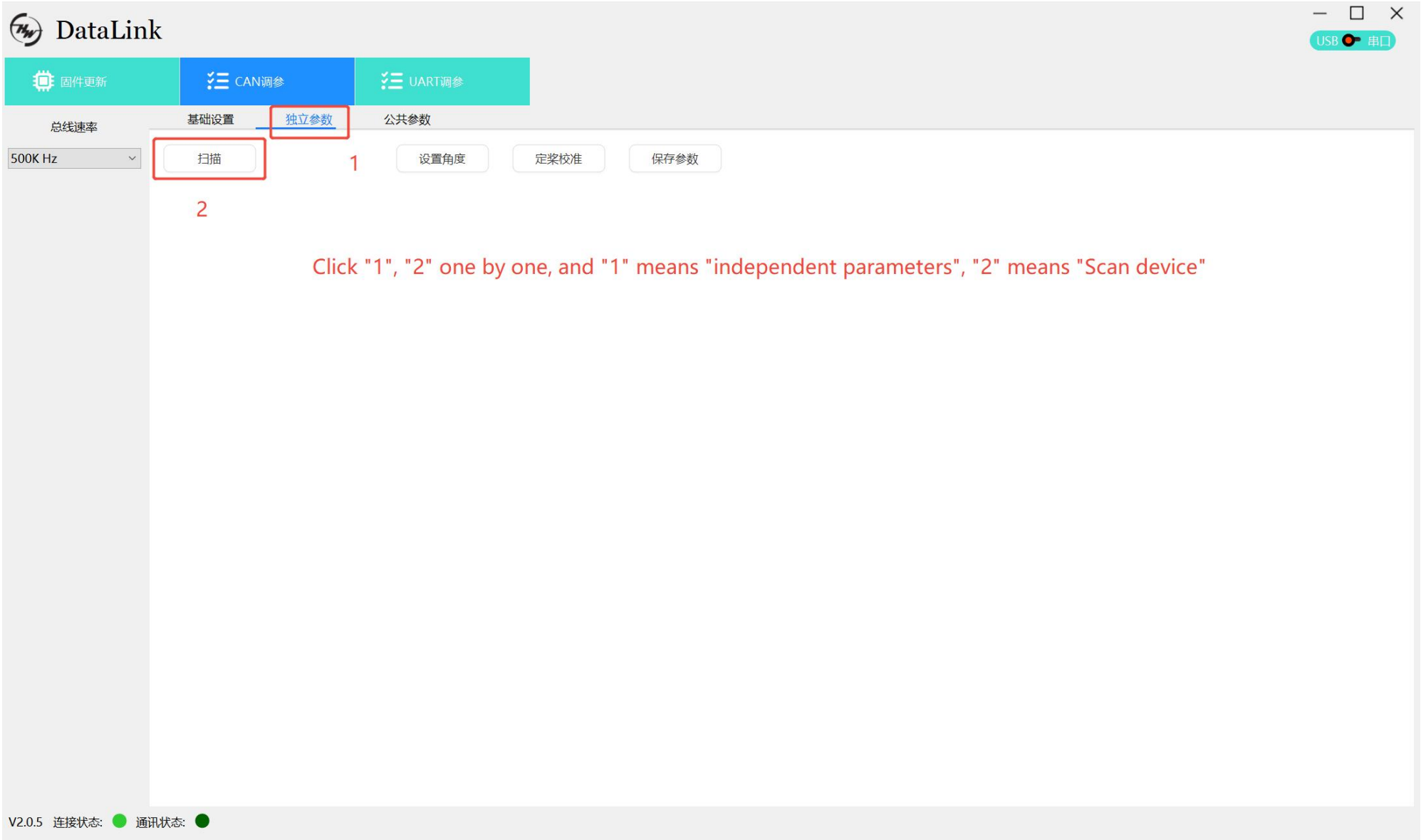
扫描
保存参数
导出参数
导入参数
恢复出厂
软件复位
1
2
Click "1", "2" one by one, "1" means "Turning on/off the IPC fucntion", "2" means "Save"
电机控制参数
加速响应 1
减速响应 1
进角 4
限功率开关
限功率值(%) 90
限电流开关
限电流值（A） 80
PWM油门最小值（us） 1100
PWM油门最大值（us） 1940
刹车力度(%) 0
定桨力度 1
锁桨保护时间（s） 0
DroneCAN协议上报设置
DroneCANStatus上报速率(HZ) 10
DroneCANNodeStatus上报速率(HZ) 1
HWCAN协议上报设置
MSG1上报速率(HZ) 10
MSG2上报速率(HZ) 10
MSG3上报速率(HZ) 10
通信设置参数
默认CAN协议 HWCAN
油门类型 PWM
设置波特率 500K
内部存储记录周期(ms) 10
功能设置参数
锁桨使能
1
电机鸣叫
同步整流
V2.0.5 连接状态: 通讯状态:



Tips：

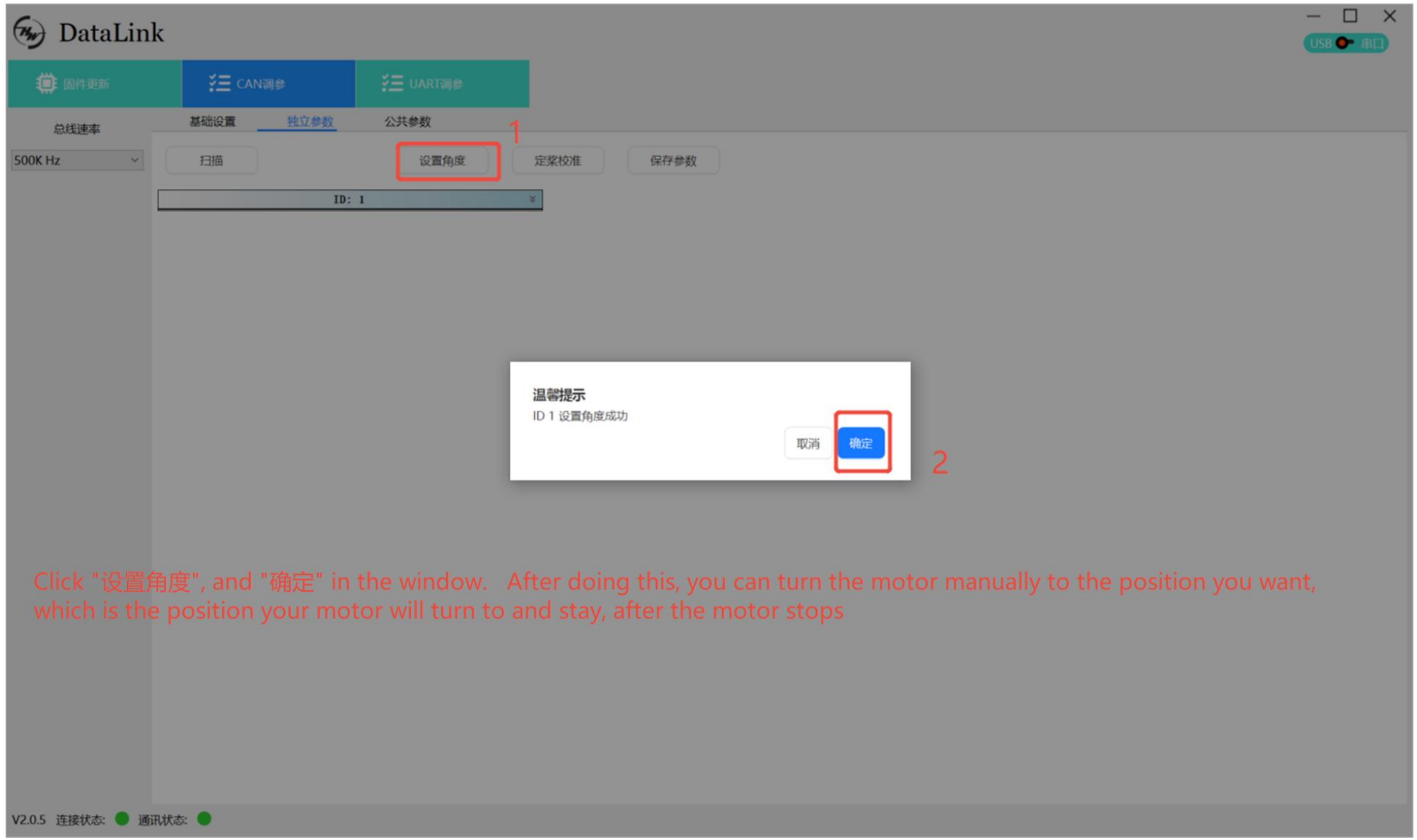
Power off the ESC after you click “确定”



Tips：

Power on the ESC after you click “扫描”


DataLink
USB 串口
固件更新
CAN调参
UART调参
总线速率
基础设置
独立参数
公共参数
500K Hz
停止
设置角度
定桨校准
保存参数
ID: 1
When you see "ID: x" below, that means your ESC is detected, click "停止" to stop scanning device
V2.0.5 连接状态: 通讯状态:



Click "设置角度", and "确定" in the window. After doing this, you can turn the motor manually to the position you want, which is the position your motor will turn to and stay, after the motor stops

1、将电机手动扭到需求角度后，松开手并点击下方定桨校准

1. After you turn the motor manually to the position you want, get your hands and other stuff away, confirm that your motor will not be affected when it is spinning

点击定桨校准后，电机将会缓慢旋转，手不要对电机施加外力，等待电机停转后，点击确定

2. Click "定桨校准", and the motor will spin slowly, which is executing a motor position calibration. Make sure that your hands and other stuff will not affect the motor

After the motor stops spinning, click "确定" to complete the calibration

Click "保存参数" and "确定" in the window to save the settings. The words above means that "The settings is saved and will take effect after repowering the ESC". So after repowring the ESC, the IPC function will take effect and after the motor stops, it will turn to and stay at the position which you turned to manually when doing the motor position calibration