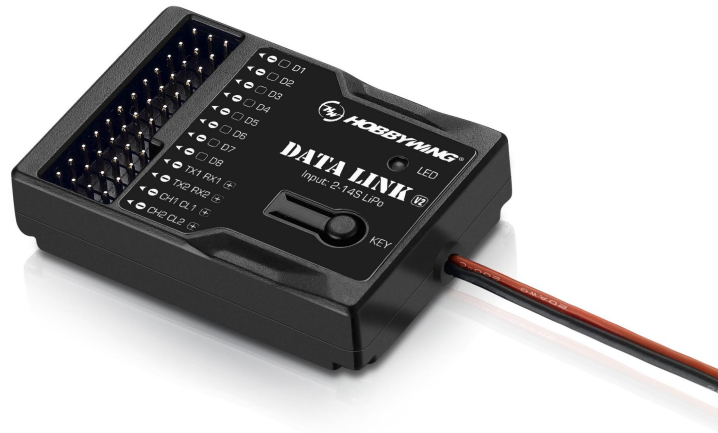




# Datalink IPC Function Setting Guide (CAN)

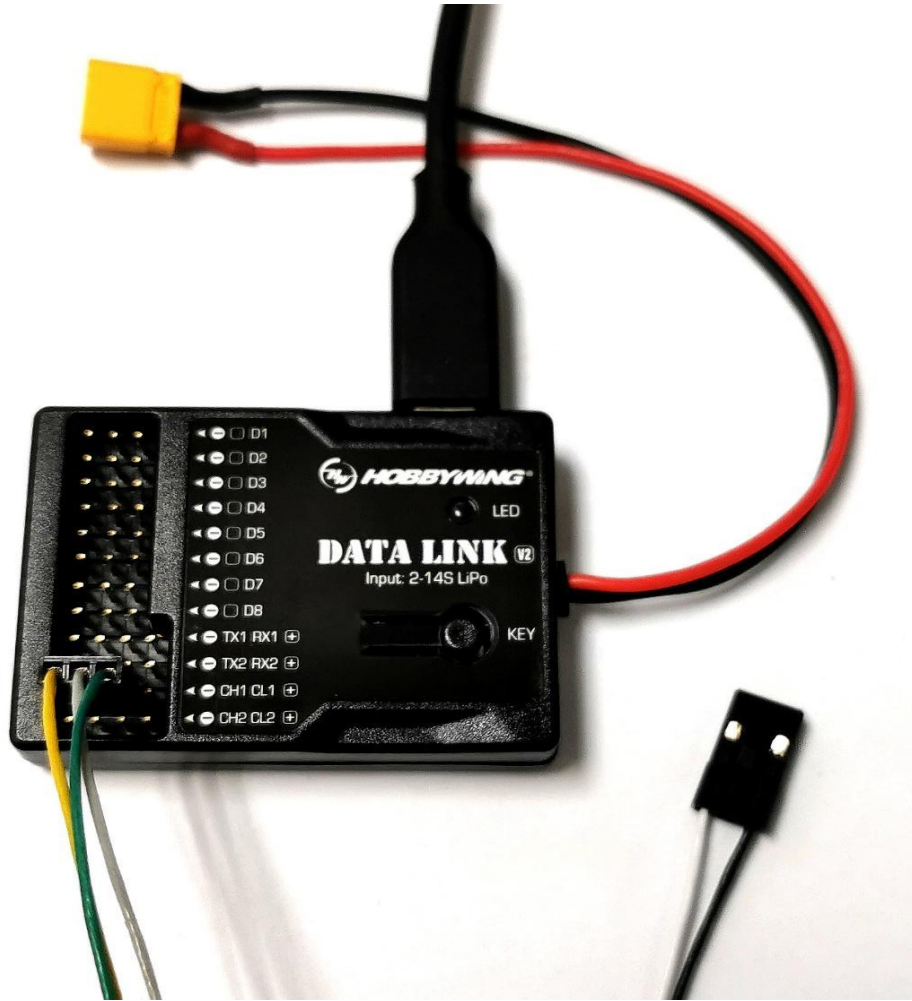
Tools:



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:



The screenshot shows a Windows File Explorer window with the following table of files and folders:

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
<b>DataLink</b>	<b>2020/7/10 15:28</b>	<b>应用程序</b>	<b>2,811 KB</b>
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
Newtonsoft.Json	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

The 'DataLink' file is highlighted with a red box, and a red arrow points to it from the right side of the window.

**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

316软件版本 2. 如果不是, 点击这里

**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”



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: ●

固件更新

CAN调参

UART调参

总线速率

500K Hz

基础设置

独立参数

公共参数

扫描

保存参数

导出参数

导入参数

1

恢复出厂

软件复位

2

Click "1", "2" one by one, "1" means "Turning on/off the IPC function", "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

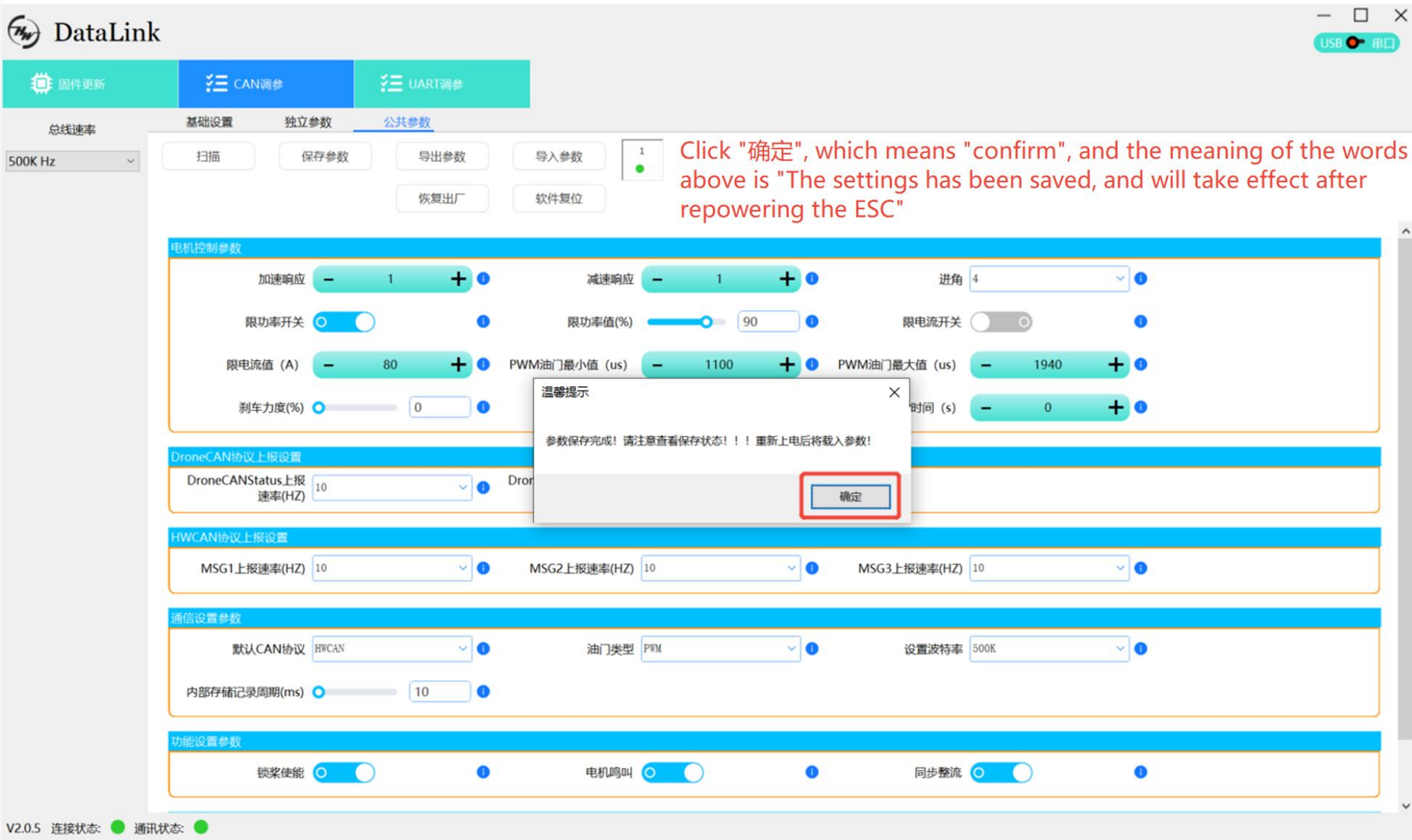
功能设置参数

锁桨使能

1

电机鸣叫

同步整流



**DataLink**

USB 串口

固件更新 | CAN调参 | UART调参

总线速率: 500K Hz

基础设置 | 独立参数 | 公共参数

扫描 | 保存参数 | 导出参数 | 导入参数 | 恢复出厂 | 软件复位

1

Click "确定", which means "confirm", and the meaning of the words above is "The settings has been saved, and will take effect after repowering the ESC"

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 | 时间 (s): 0

DroneCAN协议上报设置

DroneCANStatus上报速率(HZ): 10

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

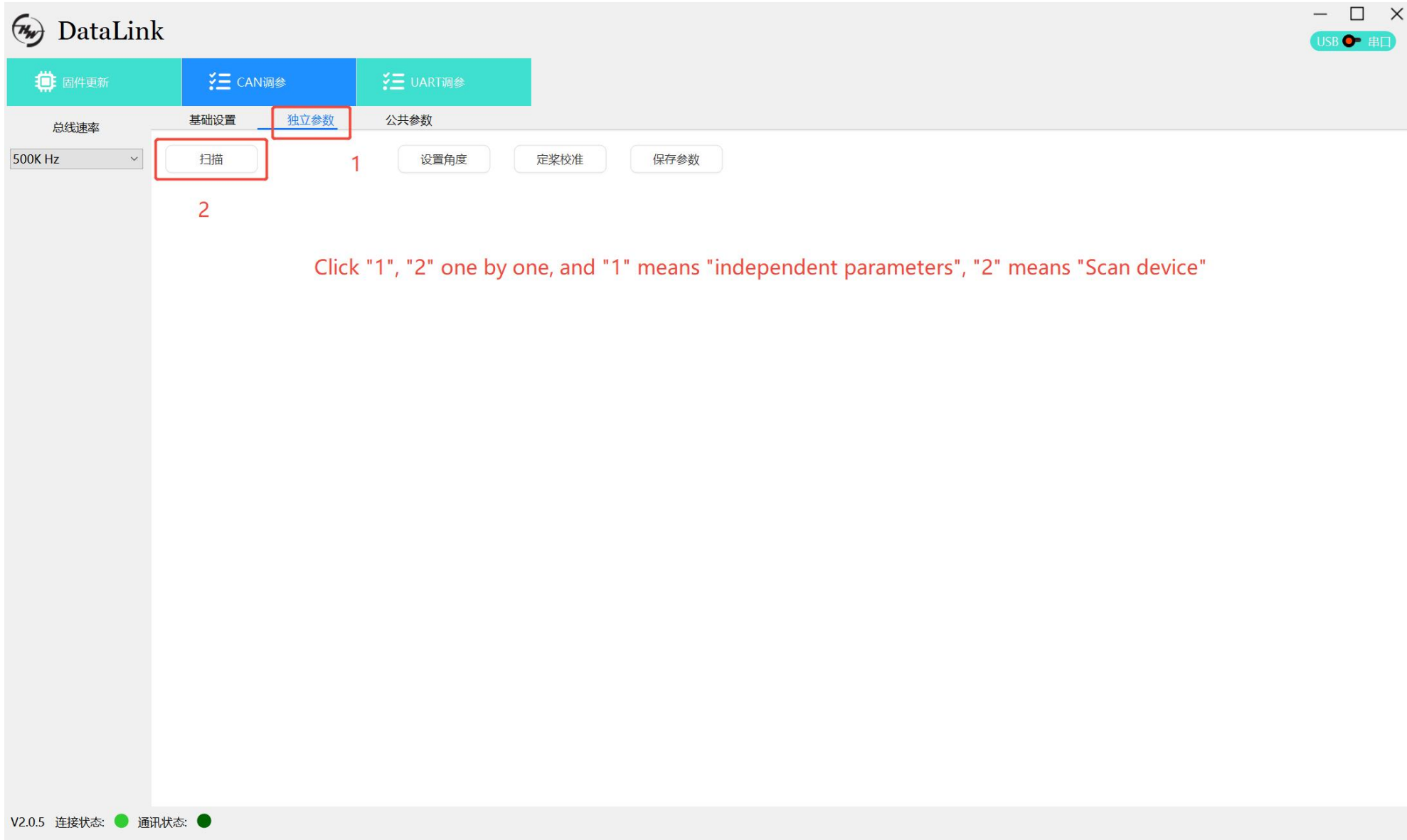
内部存储记录周期(ms): 10

功能设置参数

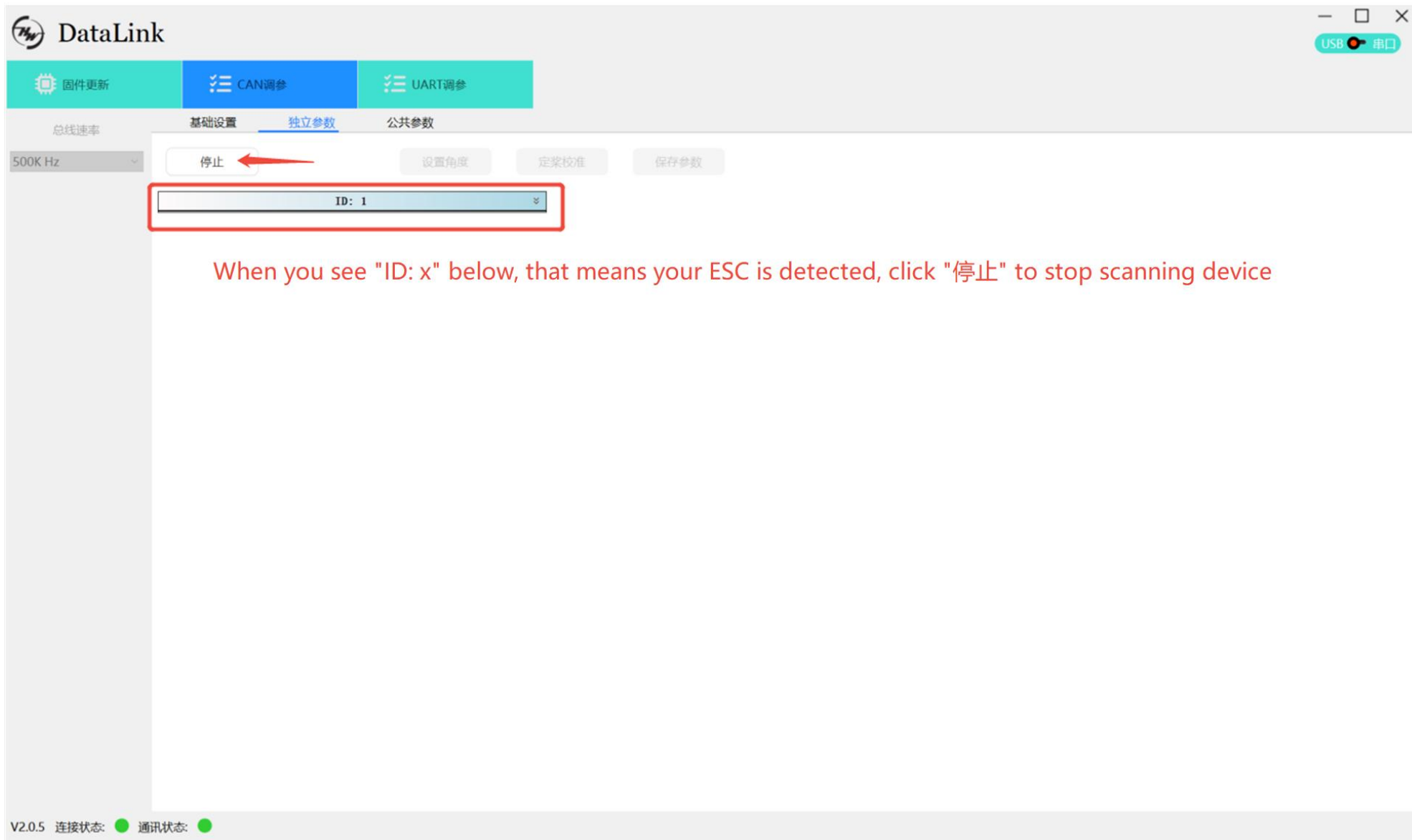
锁桨使能:  | 电机鸣叫:  | 同步整流:

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”



The screenshot shows the DataLink software interface. At the top, there are three tabs: '固件更新' (Firmware Update), 'CAN调参' (CAN Tuning), and 'UART调参' (UART Tuning). The 'CAN调参' tab is active. Below the tabs, there are three sub-tabs: '基础设置' (Basic Settings), '独立参数' (Independent Parameters), and '公共参数' (Common Parameters). The '独立参数' sub-tab is selected. On the left, there is a '总线速率' (Bus Rate) dropdown menu set to '500K Hz'. In the center, there are four buttons: '停止' (Stop), '设置角度' (Set Angle), '定桨校准' (Pitch Calibration), and '保存参数' (Save Parameters). The '停止' button is highlighted with a red arrow. Below the buttons, there is a dropdown menu showing 'ID: 1', which is highlighted with a red box. At the bottom left, there is a status bar showing 'V2.0.5 连接状态: ● 通讯状态: ●'.

When you see "ID: x" below, that means your ESC is detected, click "停止" to stop scanning device



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

**2** 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

**3** 温馨提醒  
ID 1 定桨校准成功  
取消 确定  
After the motor stops spinning, click "确定" to complete the calibration

500K Hz

扫描 设置角度 定桨校准 保存参数

ID: 1

固件更新 CAN调参 UART调参

基础设置 独立参数 公共参数

总线速率

连接状态: ● 通讯状态: ●

V2.0.5



The screenshot shows the DataLink software interface. At the top, there are three main tabs: '固件更新' (Firmware Update), 'CAN调参' (CAN Tuning), and 'UART调参' (UART Tuning). Under 'CAN调参', there are sub-tabs for '基础设置' (Basic Settings), '独立参数' (Independent Parameters), and '公共参数' (Common Parameters). The '独立参数' tab is active, showing a '总线速率' (Bus Speed) dropdown set to '500K Hz'. Below this are buttons for '扫描' (Scan), '设置角度' (Set Angle), '定桨校准' (Pitch Calibration), and '保存参数' (Save Parameters). The '保存参数' button is highlighted with a red box and the number '1'. Below the buttons is a dropdown menu showing 'ID: 1'. A dialog box is displayed in the center with the text '温馨提示' (Warm Reminder) and '参数保存成功, 重新上电后将载入参数!' (Parameters saved successfully, will load parameters after re-powering!). The dialog has '取消' (Cancel) and '确定' (Confirm) buttons. The '确定' button is highlighted with a red box and the number '2'. At the bottom left, there is a status bar showing 'V2.0.5 连接状态: ● 通讯状态: ●'.

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 repowering 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