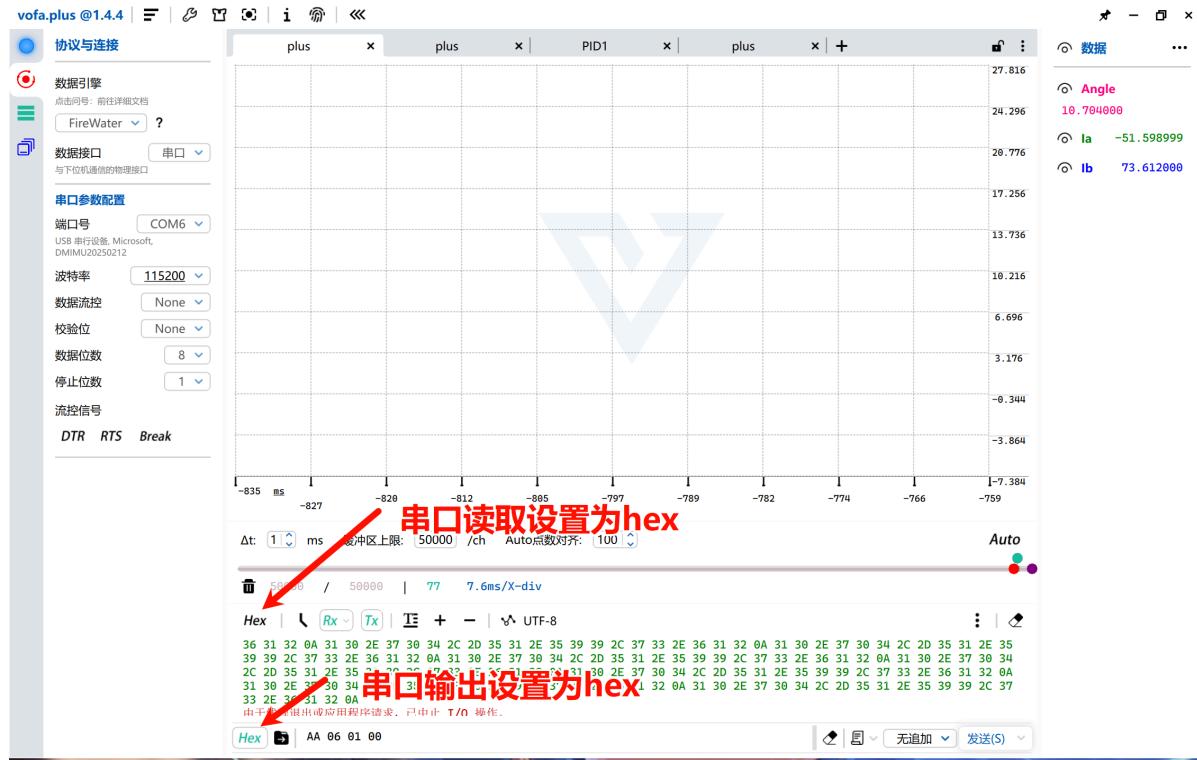
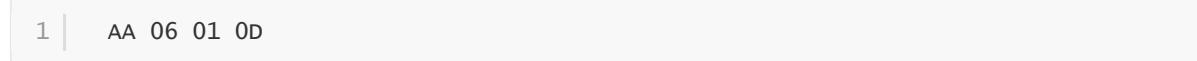


A 通信设置

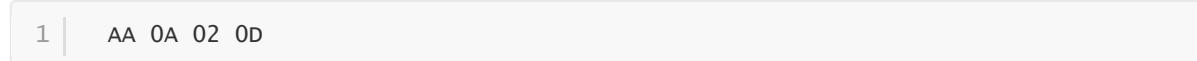
使用VOFA设置，设置为hex输出模式



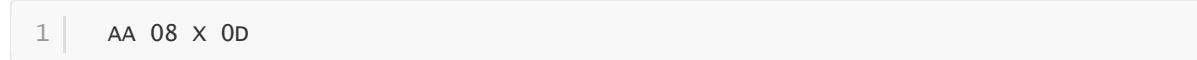
A.1 进入设置模式



A.2 设置为CAN输出模式



A.3 设置CANID



- X:是你想控制这个imu时的目标can id

A.4 设置MSTID

1 | AA 09 X 0D

- X:是你想让这个imu反馈时的can id

A.5 开启CAN自动上报

1 | AA 01 18 0D

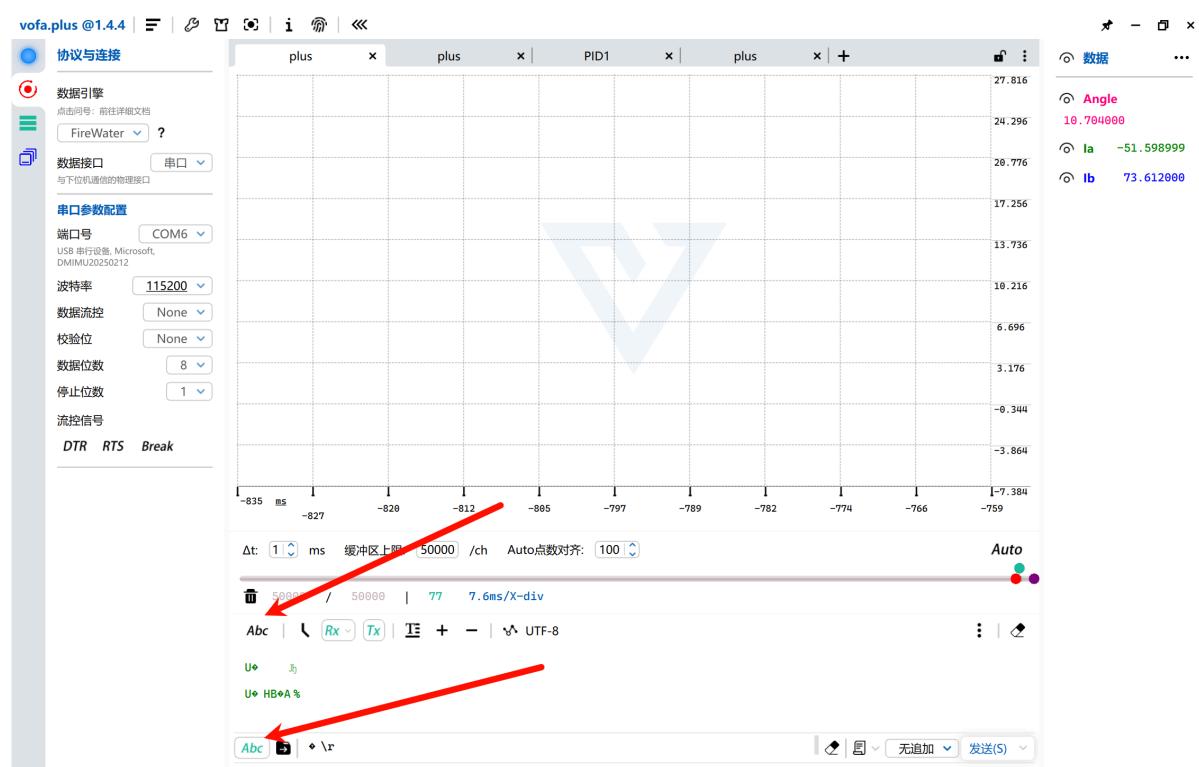
A.6 保存参数

1 | AA 03 01 0D

A.7 退出设置模式

1 | AA 06 00 0D

A.8 最后把串口读取和输出改回ascii



B 代码设置

B.1 包含这两个文件

DM_IMU.c	2025/12/24 22:04	JetBrains CLion	4 KB
DM_IMU.h	2025/12/24 22:04	DevCpp.h	1 KB

B.2 在大疆can通信中包含此文件

```
12 @verbatim
13 =====
14 =====
15 =====
16 =====
17 =====
18 =====
19 =====
20 #include "My_CAN.h"
21 #include "main.h"
22 #include "DM_IMU.h" 包含他
23 =====
24 |
25 extern CAN_HandleTypeDef hcan1;
26 extern CAN_HandleTypeDef hcan2;
27 //motor data read
28 #define get_motor_measure(ptr, data)
```

B.3 枚举类型中添加imu的mst id

```
typedef enum
{
    CAN_CHASSIS_Speed_ID = 0x200,
    CAN_LU_Meca_3510_ID = 0x201, //1
    CAN_RU_Meca_3510_ID = 0x202, //2
    CAN_RD_Meca_3510_ID = 0x203, //3
    CAN_LD_Meca_3510_ID = 0x204, //4

    CAN_CHASSIS_YAW_ID = 0x1FF,
    CAN_YAW_6020_ID = 0x205, //1

    CAN_GIMBAL_PITCH_ID = 0x1FF,
    CAN_PIT_6020_ID = 0x205, //1

    CAN_CLIP_ALL_ID=0x200,
    CAN_L_3510_ID = 0x201, //1
    CAN_R_3510_ID = 0x202, //2
    CAN_CLIP_2006_ID=0x203, //3
    CAN_DM_IMU=0xBC,
} CAN_ID;
```



B.4 在can中断回调函数加上此函数

```
/* Chasis */
if(hcan==&hcan1){
    HAL_CAN_GetRxMessage(&hcan1, RxFifo: CAN_RX_FIF00, &rx_header, rx_data);

    switch (rx_header.StdId)
    {
        case CAN_LU_Meca_3510_ID:
        case CAN_RU_Meca_3510_ID:
        case CAN_RD_Meca_3510_ID:
        case CAN_LD_Meca_3510_ID:
        case CAN_YAW_6020_ID:
        {
            static uint8_t i = 0;
            //get motor id
            i = rx_header.StdId - CAN_LU_Meca_3510_ID;
            get_motor_measure(&motor_chassis[i], rx_data);
            break;
        }
        case CAN_DM_IMU:
        {
            IMU_UpdateData(rx_data);
            break;
        }
    }
}
```

加上这个函数

B.5 最后就可以使用了(记得包含头文件)

```
void MyMain(){

    for (;;)
    {
        Serial_TransmitFloat(imu.pitch);
        Serial_TransmitByte(',');
        Serial_TransmitFloat(imu.roll);
        Serial_TransmitByte(',');
        Serial_TransmitFloat(imu.yaw); 即可使用
        Serial_TransmitByte('\n');
        osDelay( ticks: 1 );
    }
}
```