Guidelines for Using Commonly Used Tools

Standard Operating Procedures-CAN box-(EV Charger)

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Technical Support Document

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1 Introduction

A CAN Bus Analyzer, often called a CAN Box or CAN Tool, is a commonly used tool during communication system debugging.

In the use of EV Chargers, the CAN box is used to capture the CAN communication between the vehicle and the charging pile. Through the captured logs, it helps us better analyze whether there are any errors in the communication, enabling timely detection and correction of errors.

This article mainly describes the operation process of acquiring EV Charger data through a CAN Box.

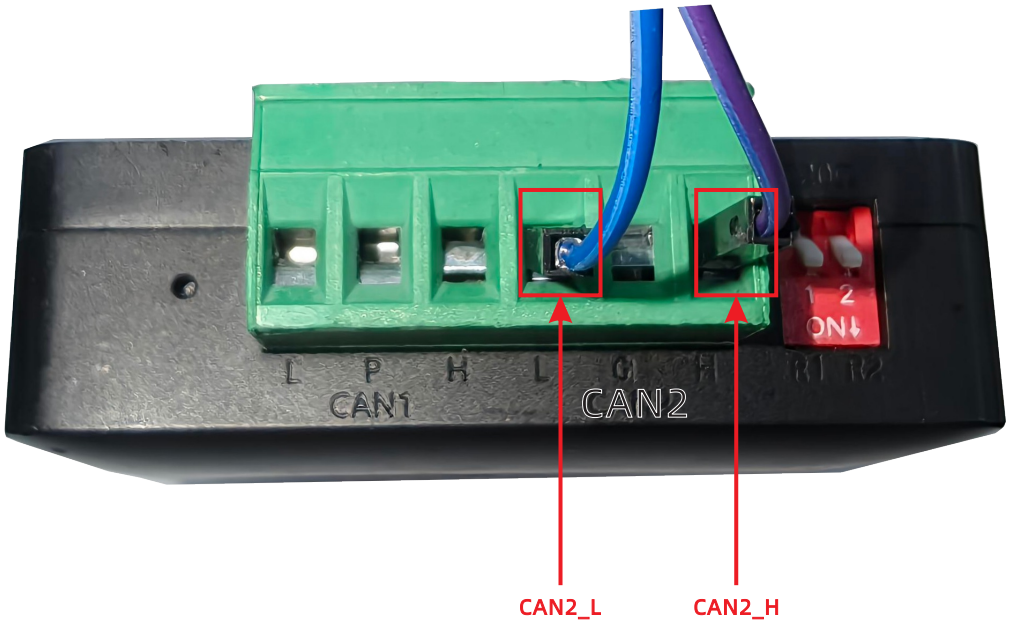
2 Usage of CAN Box

1.Install CANTest V2.69 and CAN Driver, then put "ControlCan.dll" into the CANTest Installation directory to replace the original "ControlCan.dll".

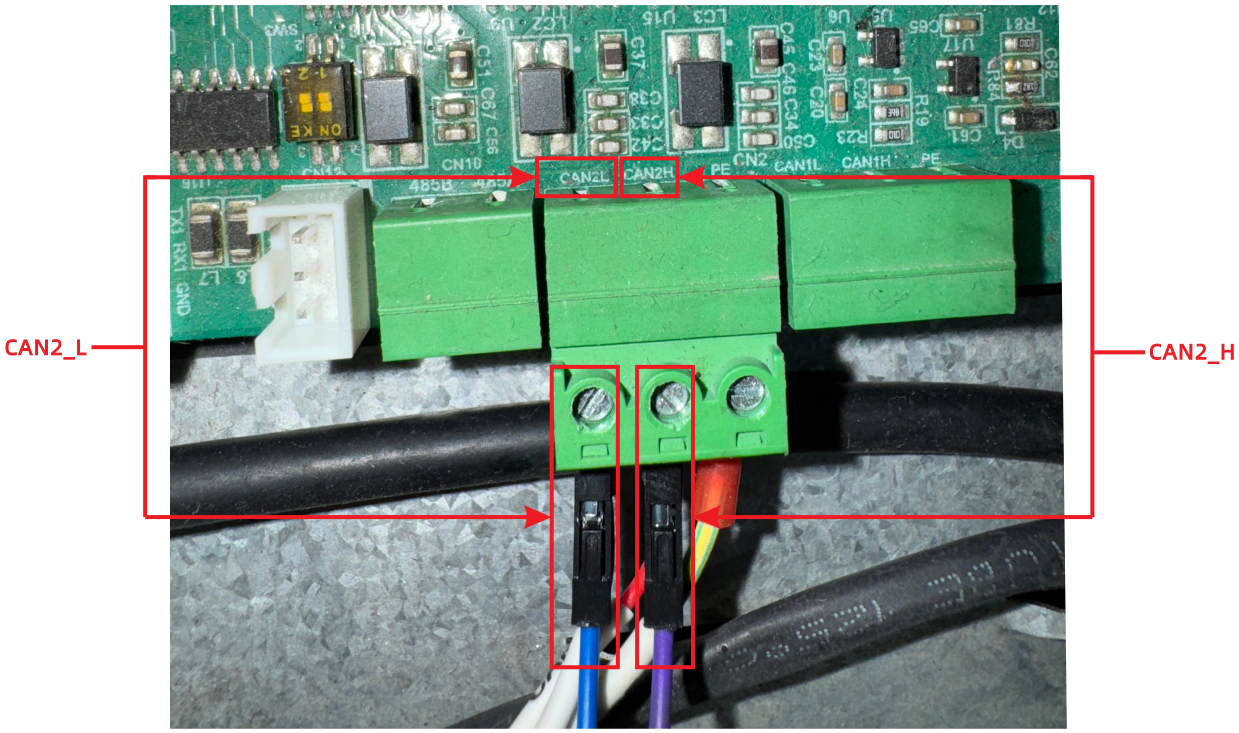
Name	Date modified	Type	Size
CHUSBDLL.DLL	5/14/2020 6:11 PM	Application extens...	24 K
CHUSBDLL64.dll	6/28/2020 10:41 AM	Application extens...	33 K
DPInst32.exe	7/28/2011 5:38 PM	Application	776 K
DPInst64.exe	5/7/2010 8:52 PM	Application	909 K
DriverSetup.exe	5/28/2022 3:29 PM	Application	84 K
DriverSetup64.exe	5/14/2020 6:11 PM	Application	43 K
ECanUsb.dll	6/28/2020 10:41 AM	Application extens...	139 K
USBCANW64.sys	11/10/2021 6:22 PM	System file	48 K
USBCANWDM.cat	6/28/2020 11:11 AM	Security Catalog	17 K
USBCANWDM.INF	5/14/2020 6:11 PM	Setup Information	4 K
USBCANWDM.sys	11/10/2021 6:22 PM	System file	35 K
驱动安装说明.pdf	4/10/2015 9:16 AM	Microsoft Edge PD...	348 K

2.Preparing CAN box.

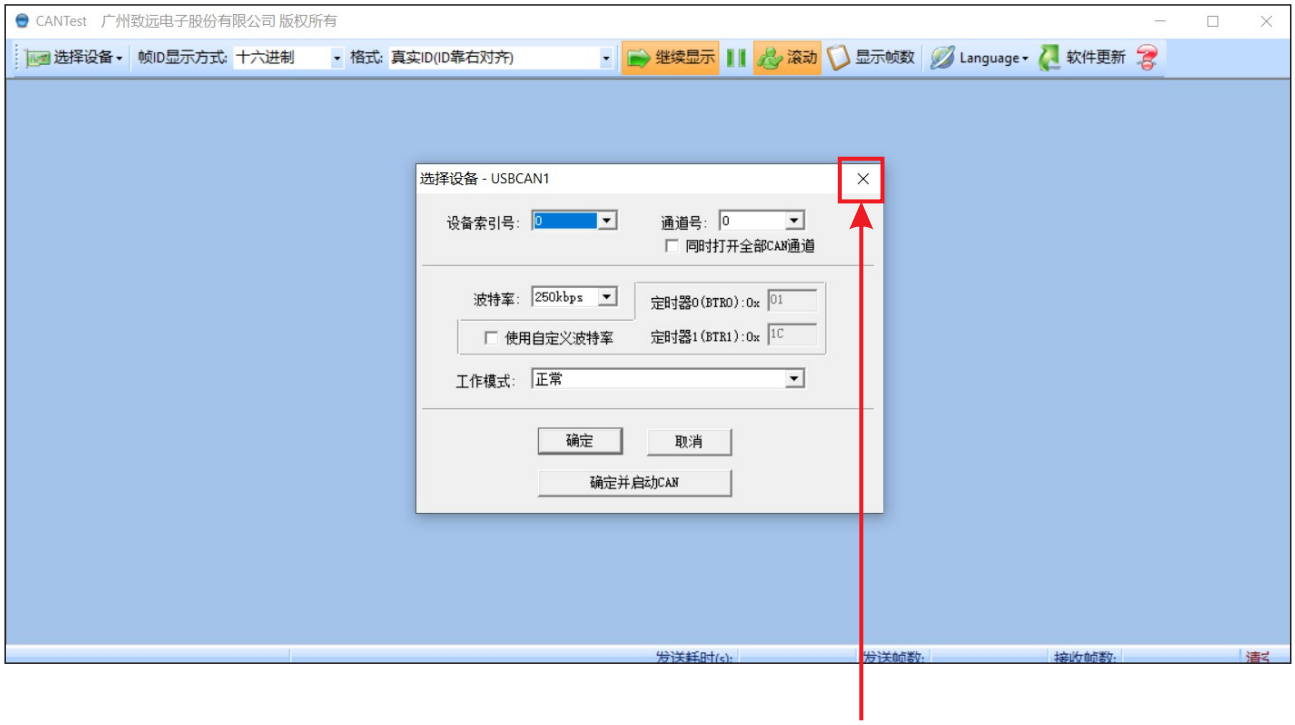
3.Connect the wires on the CAN box properly. In the figure, I connect the blue line to CAN2_L and the purple line to CAN2_H.



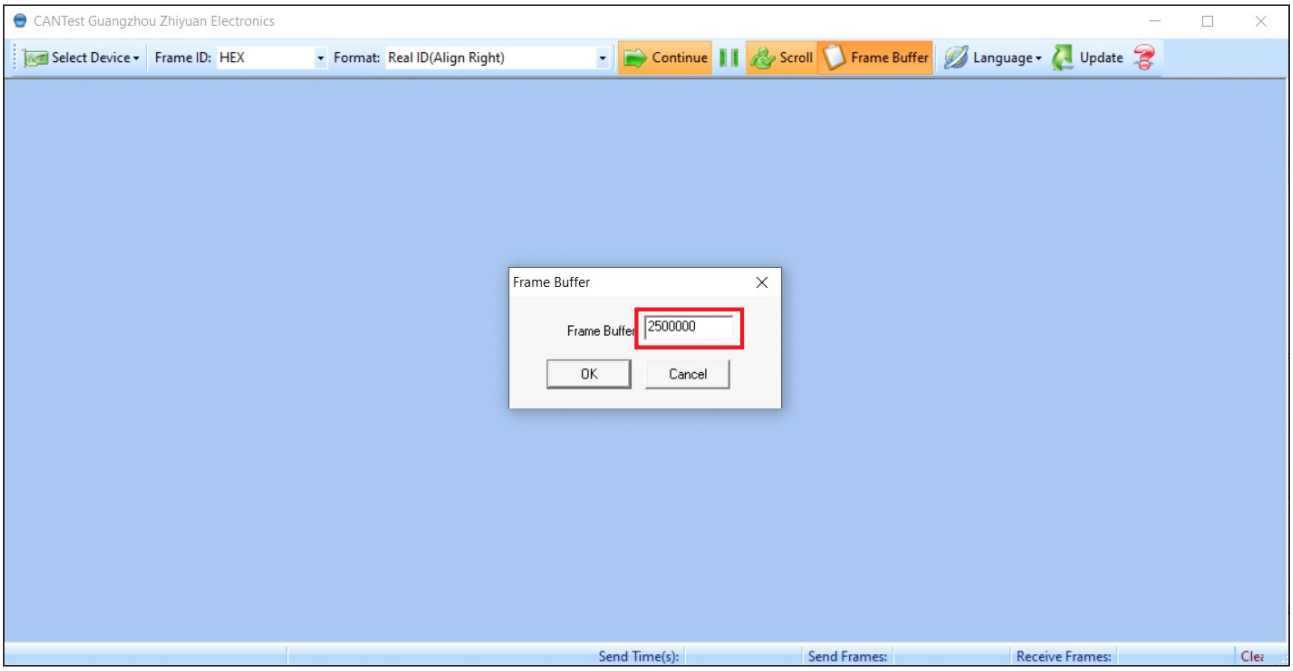
4.Connect the CAN box to the charging pile. The blue line(CAN2_L) corresponds to CAN_L in the interface, the purple line(CAN2_H) corresponds to CAN_H in the interface.



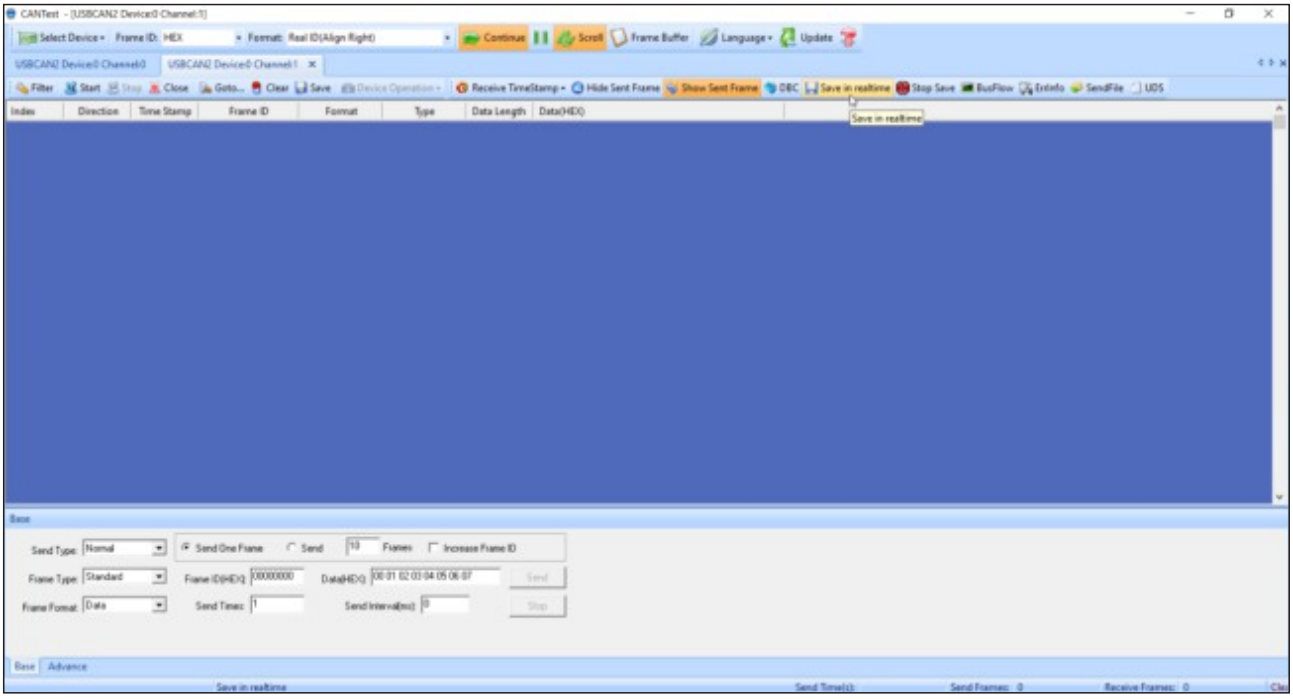
5.Open “CANTest” and close the small window in the picture.

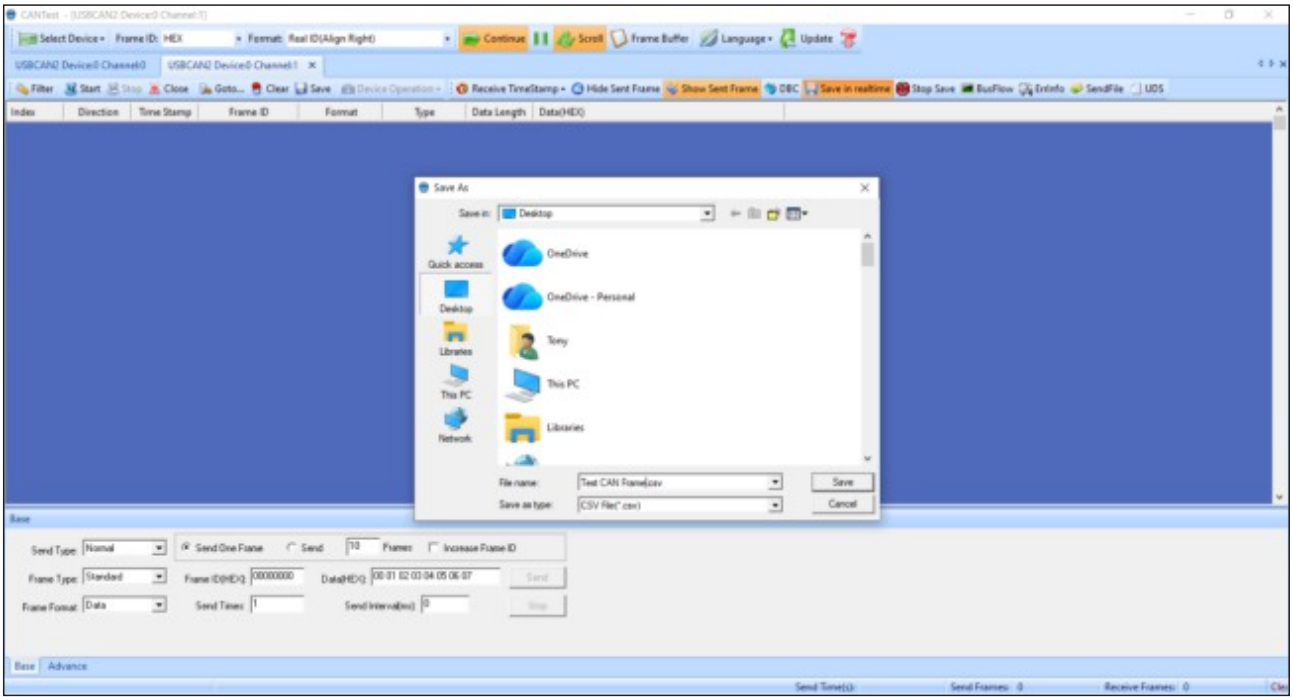


6.Set buffer to 2500000



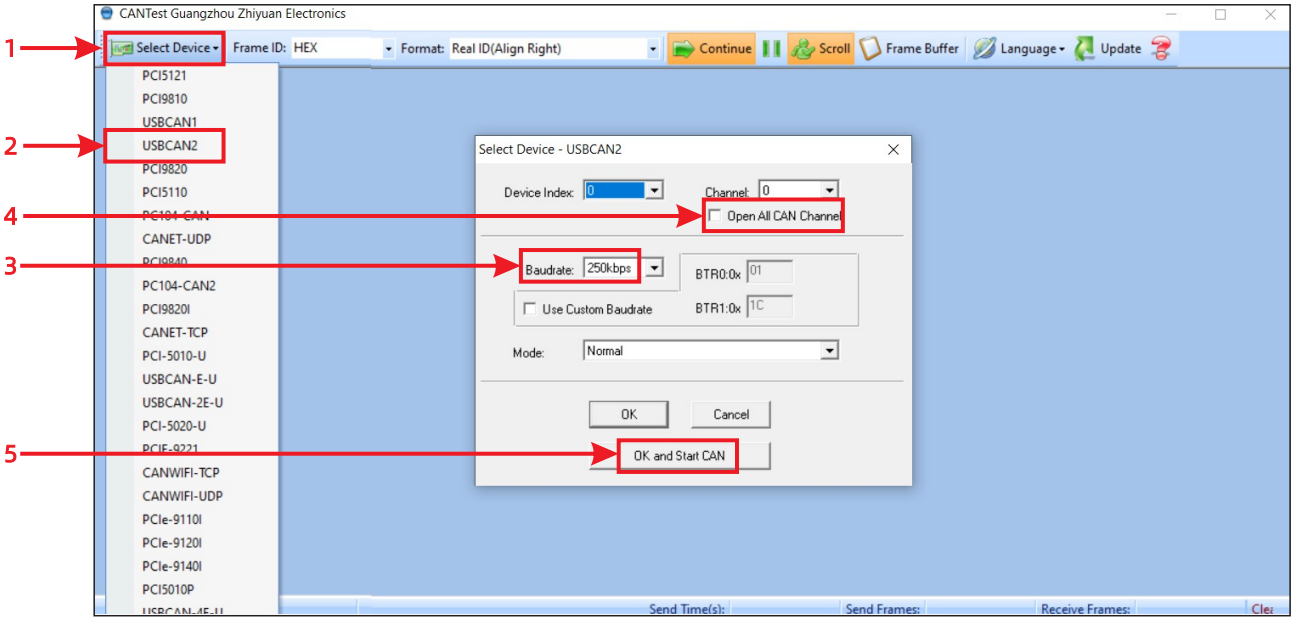
7.Click save in realtime, then create a file with csv format.



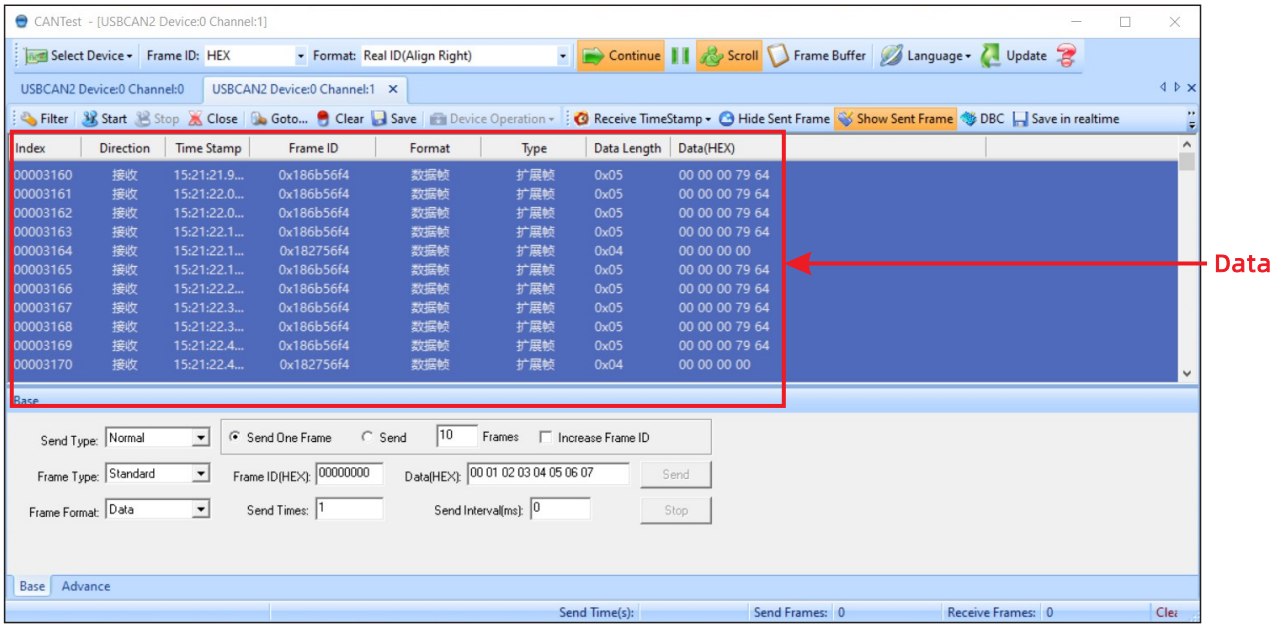


8.Configure parameters properly.

Note: The third step requires selecting the correct baud rate, which is 250kbps.



9.If successfully started, the data shown in the following picture will be displayed.



10.Save data. Click save data button, then input file name and select “CSV” file type, click save.