CAN BUS Data Logger

User Manual for Application Software

This user manual is applicable to the CAN bus data logger.

Version:

	Date	Author
Version *V1.0*	*June 1, 2025*	Zhou Lingjie

Content

![ART logics logo](www.art-logics.com)

Product Introduction

The CAN recorder is a dedicated acquisition workstation designed specifically for automotive test applications, supporting CAN FD, LIN and digital I/O interfaces. This device features built-in test sequence processing capabilities and can record test results to an external computer or an internal SD card. Users can configure channel parameters and collect measurement data via three communication interfaces: Ethernet TCP, USB-C or RS-232. The controller also supports independent operation mode through the internal SD card.

Resource	Channels	Specifications
CAN/CAN FD	6	Configurable terminal resistance (None or 120Ω). Configurable Baud rate up to 5 Mbit/s.

CAN FD INTERFACE
Compliant with CAN ISO11898-1 Data and Physical Layer Compliant ISO11898-1 Transport Protocol Layer.

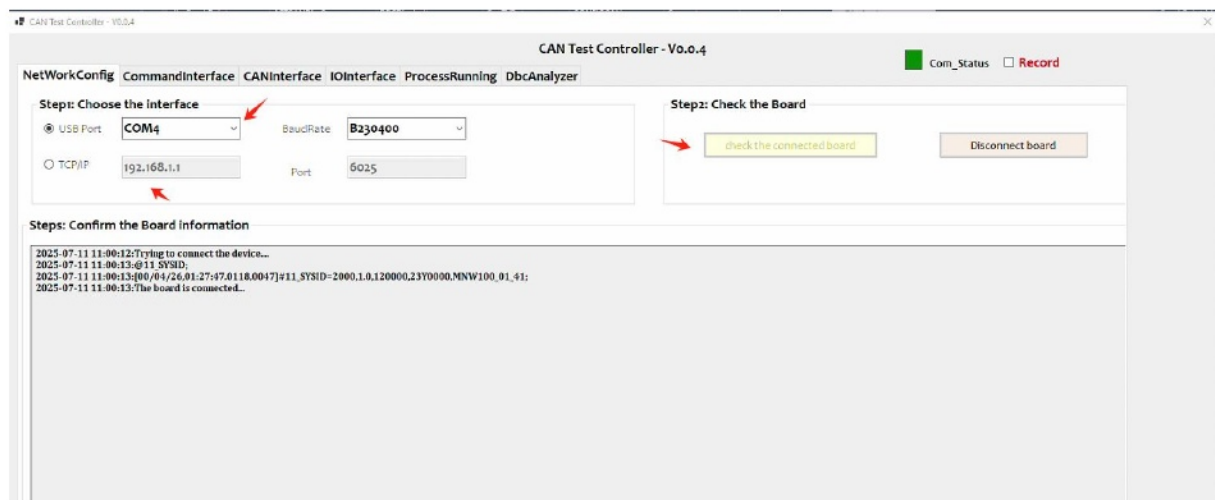**Use the shortcut**

I. Connection configuration

Enter the network configuration interface

Click the "Check Connected Boards" button to view the connection status.

-Optional connection modes:

  - USB connection

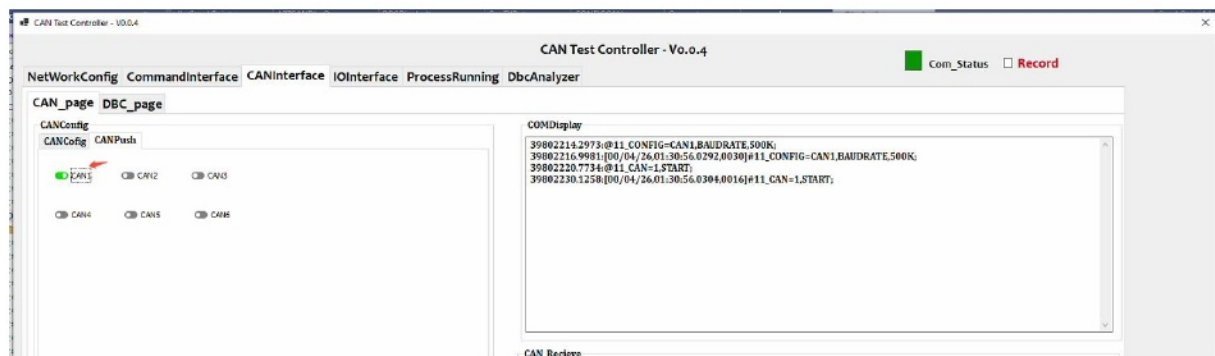 TCP/IP network port connection

  connection

When the link is normal, you will receive a reply and the link status Com_Status in the upper right corner will be green.
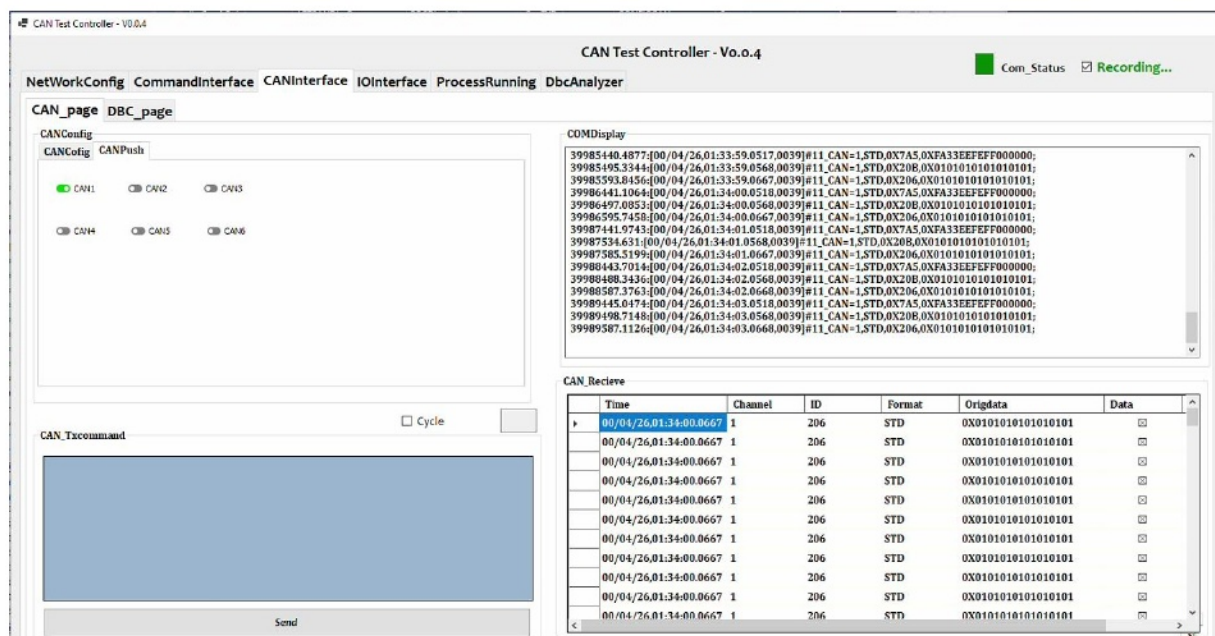
II. **CAN** Interface Configuration

1Input CAN interface

Select the "CAN Push" mode, choose the required channels from CAN1 to CAN6, and click the button to activate the channels.

When there is data on the CAN line, the data on the CAN line will be displayed on the interface as shown below.
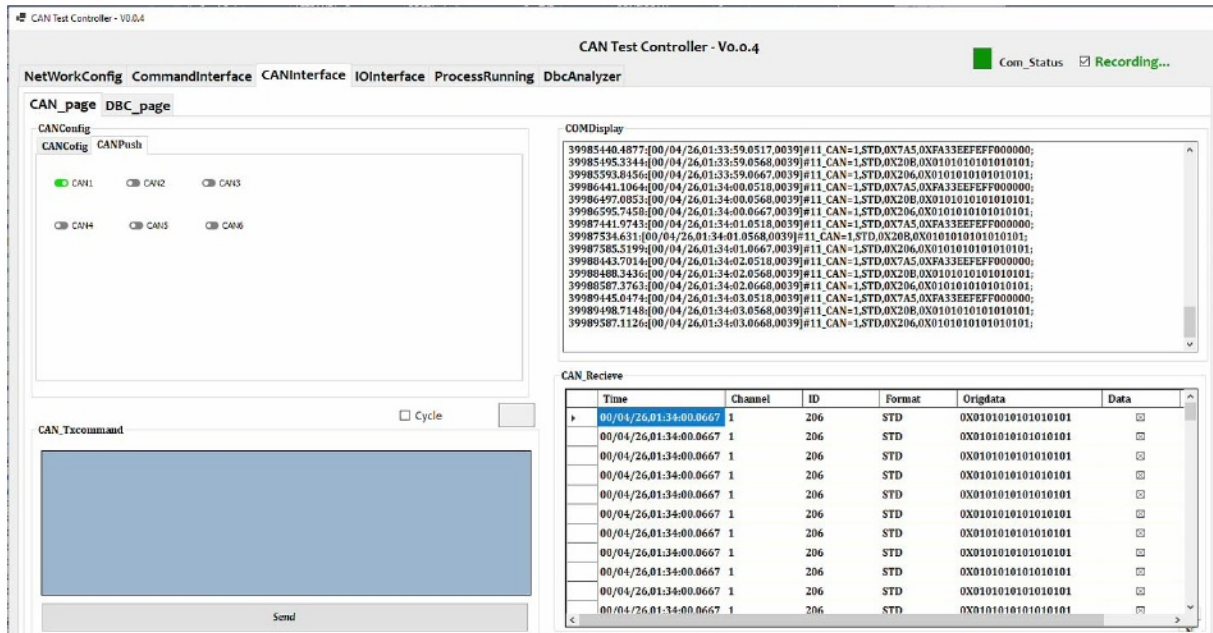
III. Data Recording Settings (Optional)

Before starting, please click the "Record" button at the top right corner of the interface.

- Select whether to save the recorded data:

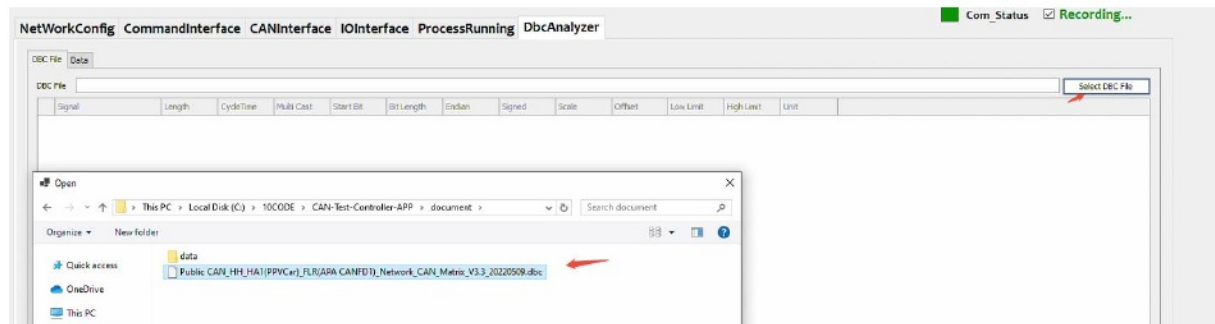 If "Record" is selected, the software will automatically record the data.

The original data is stored in the commdata folder.

IV. DBC File Parsing
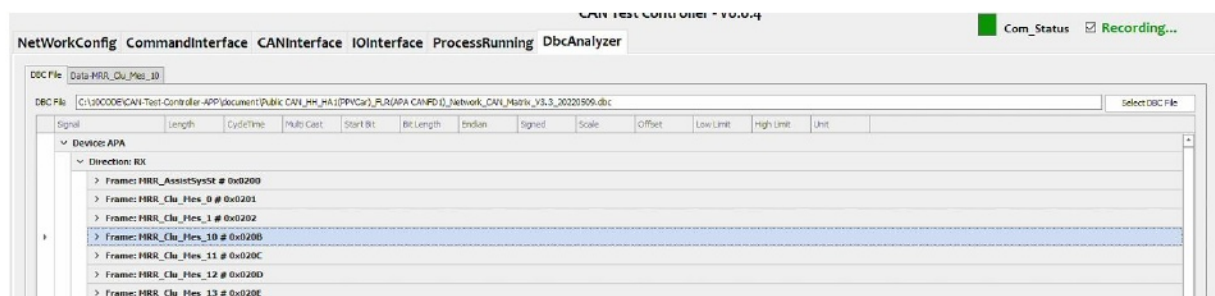
1. Enter the DBC Analyzer page

Select the DBC file.

2Select the message to be parsed

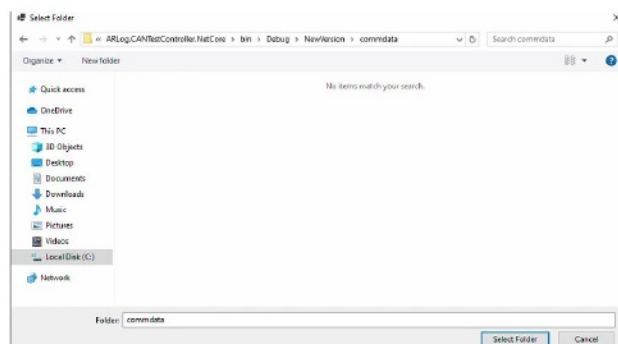Find the message ID to be parsed and select it.
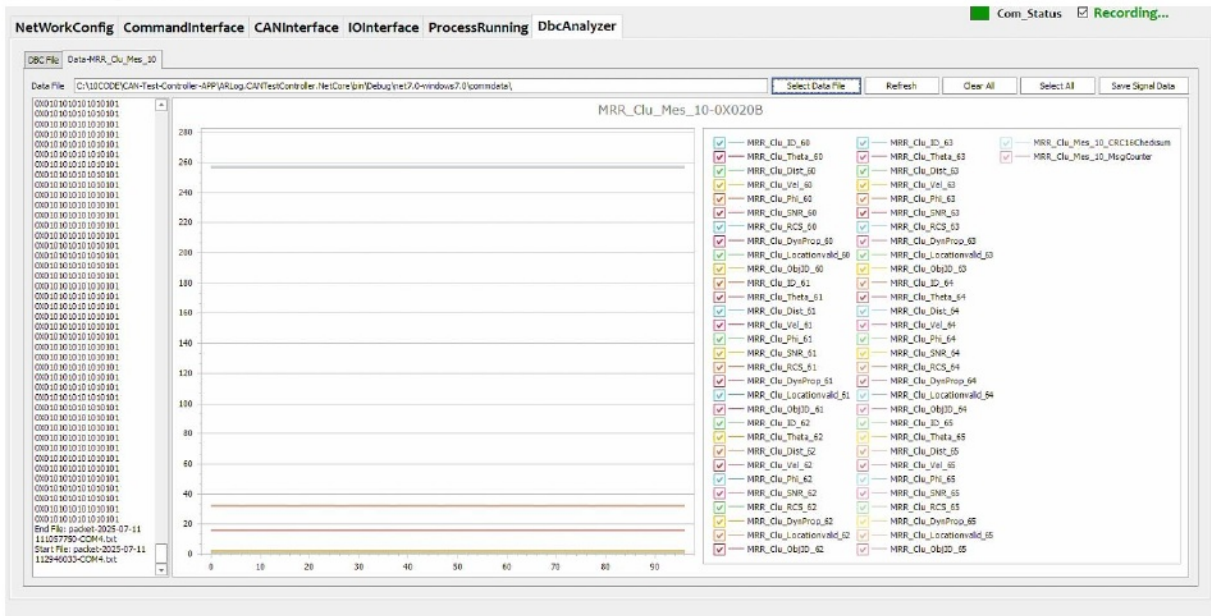
Enter the data analysis interface.

3. Select the data to be parsed.

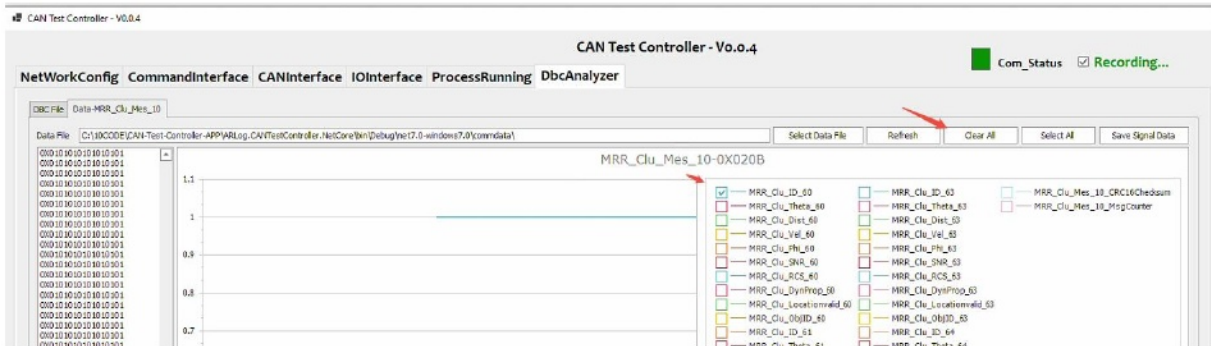The software will automatically parse and play the selected message. Select the data storage.

The corresponding folder

On the list on the right, you can select or deselect the signals you need to view.

Click "Clear All" to clear all selections, or click "Select All" to select all signals. After clearing, you can still select the signals you need.
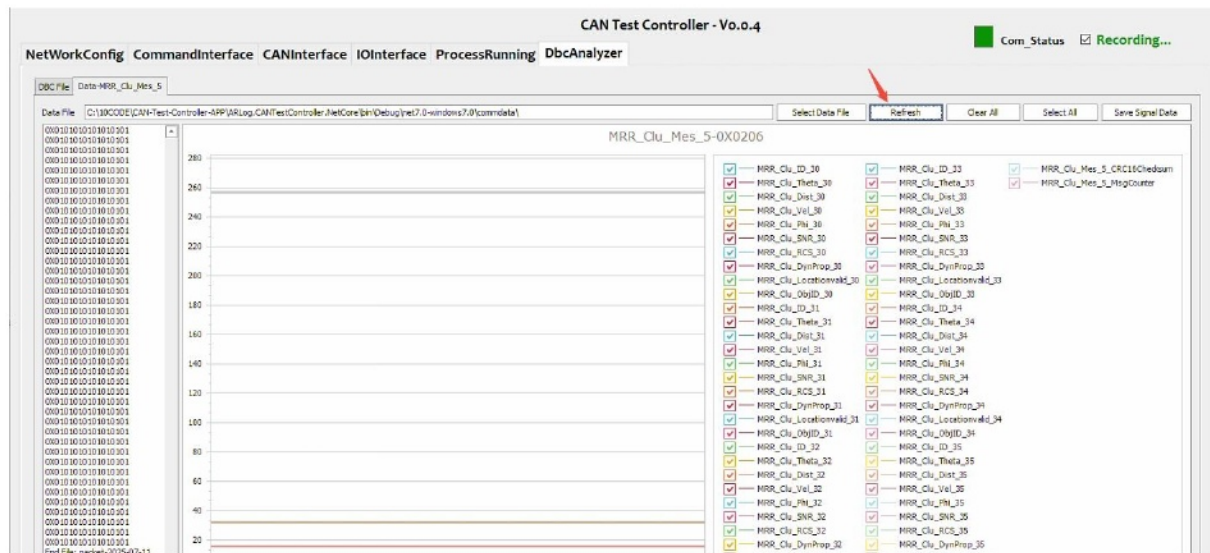
V. Re-selection of Analyzed Signals

- If you need to reselect the signal to be analyzed:

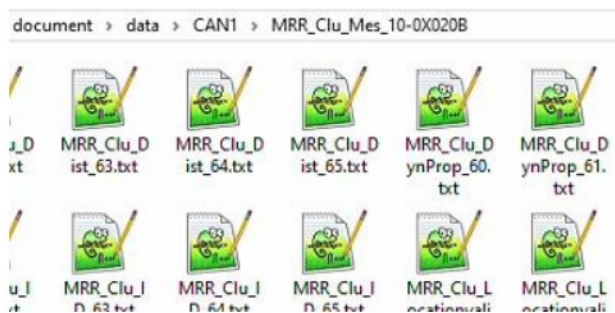Return to the DBC file page.

Select the signal to be re-parsed.

Click the "Refresh" button, and the software will re-analyze and display new message options.

VI. Data Storage

Click the "Save" button on the right to save the parsed data. The parsed signal data can be located in the Documents/Data folder.

Certification and Quality Assurance

This series of instruments fully complies with the nominal technical specifications in the manual.

Protect solid-state services

ART Logic Company provides a one-year material and manufacturing warranty for this product from the date of shipment. The warranty does not cover the following limitations.

If this product requires warranty service or repair, please return it to the Art-Logics repair department. The customer is responsible for the one-way shipping cost to the Art-Logics repair department, while Art-Logics will cover the return shipping cost.

For products returned from other countries, the customer is responsible for the shipping costs, customs duties and other taxes.

Protection integration restrictions

The warranty service does not cover damage caused by the following situations:

Products that have been modified or repaired by the customer themselves.

Damage caused by circuits installed by the customer or operation outside the specified environment.

Damage caused by accidents, including but not limited to lightning strikes, water ingress, fire, abuse or negligence.

The product model or serial number has been altered, deleted, removed or is unrecognizable.