MV800 PC tooling operation manual

1 Hardware Preparation and Use of PC Tooling

1.1 Hardware requirement

A PC or a notebook computer
One data line (need to have data transmission function);

1.2 PC Tooling path

The software path is usually in Driver.Soft under the Release folder, the icon is : .

Double-click can be used normally without installation.

2 Communication settings

2.1 Function overview

According to the different series of MV800 products, select the corresponding product series in the host computer, configure the communication mode, communication address, communication baud rate, etc. To ensure the normal communication between the host computer and the inverter, the correct communication parameters must be set.

2.2 Fit models

MV800 Series

2.3 Setting steps

After double-clicking to open the host computer software, the following communication configuration dialog box will pop up :
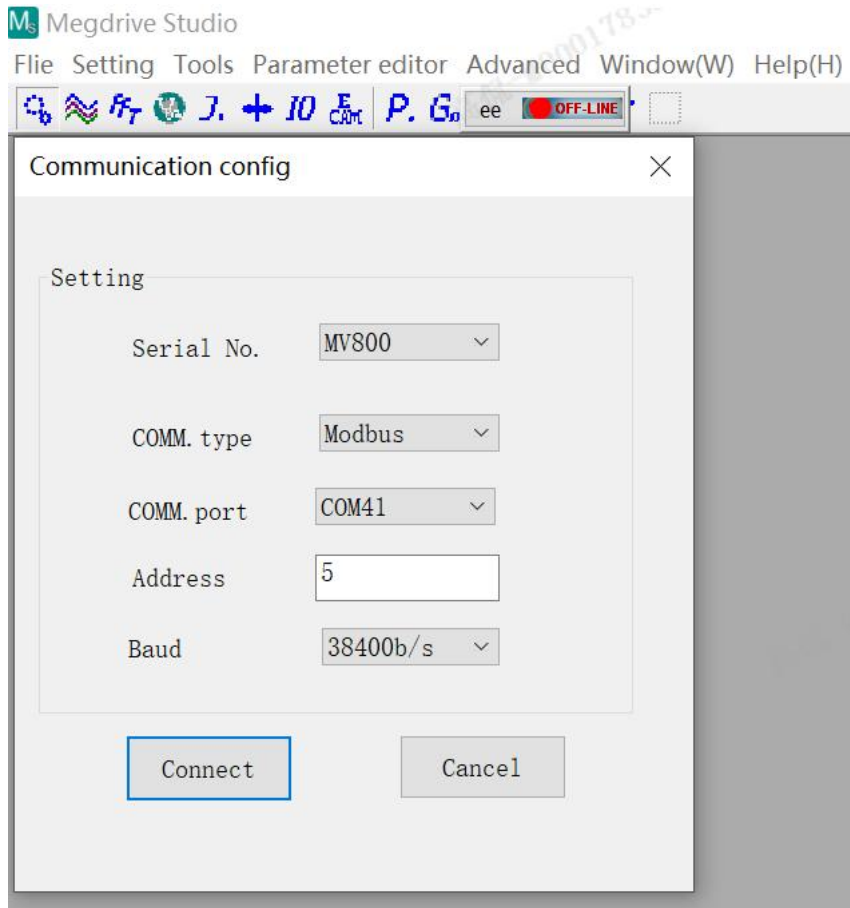
The MV800 model can be configured in the dialog box. The communication type is ModBus. The serial port number is configured according to the specific situation. The communication address and the baud rate are selected by default. After the configuration is completed, click the connection to complete the configuration. If the configuration is successful, the status bar below will light two green lights, as shown in the following figure :
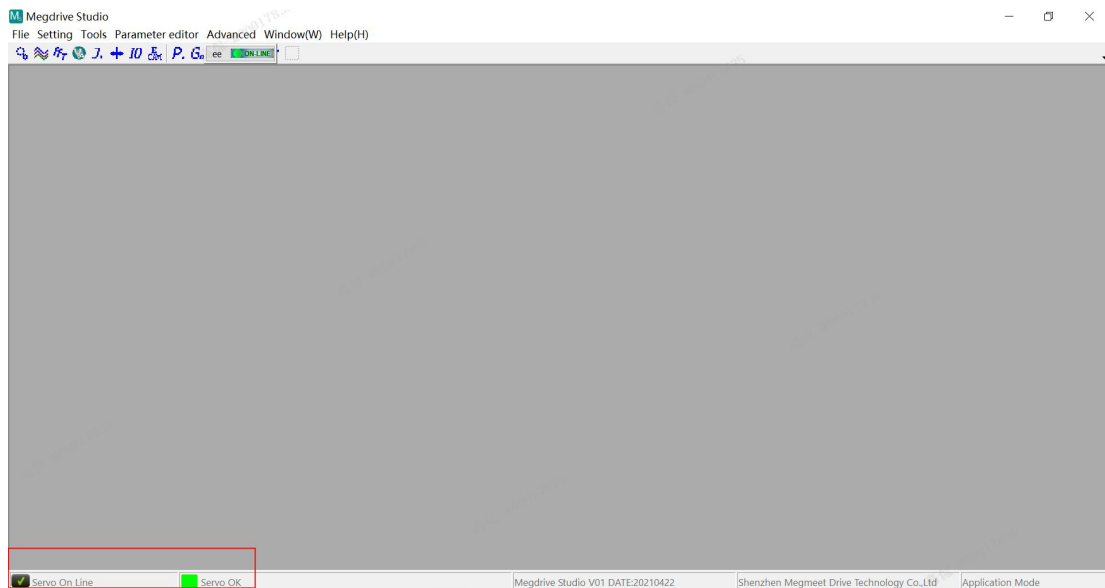
If you have closed the window before completing the configuration, select the first in the toolbar to open the configuration, as shown below :
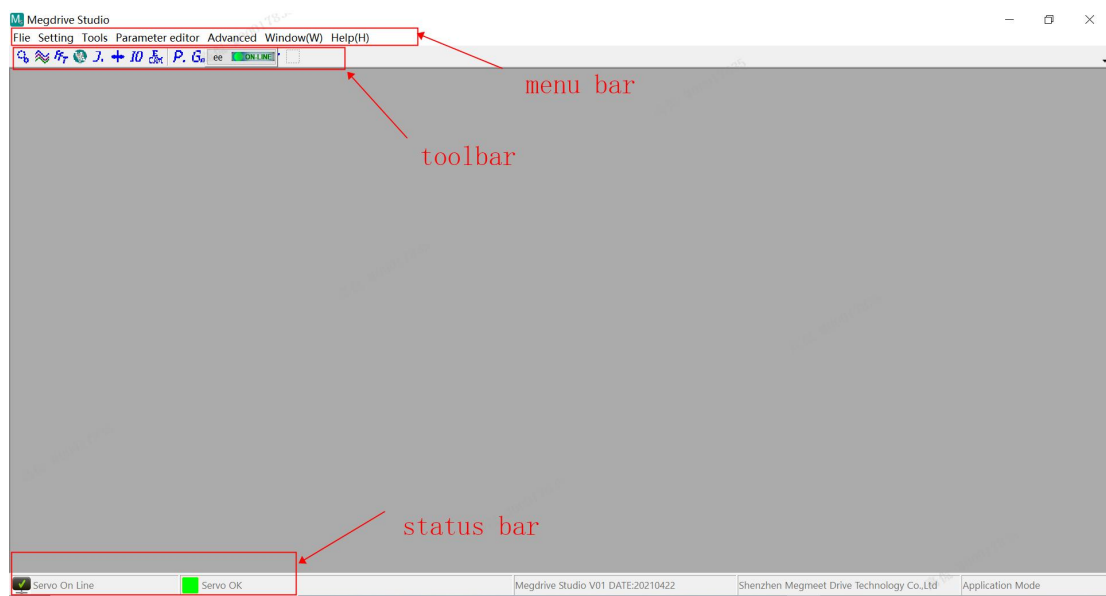
Megdrive Studio

Flie Setting Tools Parameter editor Advanced Window(W) Help(H)
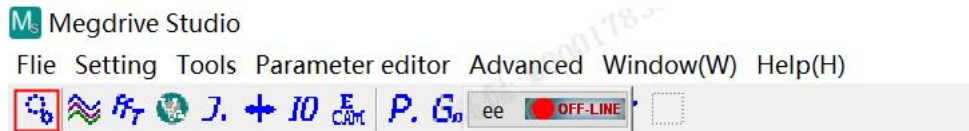
3 Main interface introduction

3.1 Function overview

The MV800 PC Tooling mainly has the functions of managing communication configuration, parameter editing, oscilloscope tools and so on.

## 3.2 Function specification

The main interface is shown below :

The functions currently supported by the MV800 PC Tooling include parameter

editing $P.$ and oscilloscope $\approx$, which can be opened by clicking the toolbar icon.

3.3 Language shift

The language currently supported by the   MV800 PC Tooling is simplified Chinese and English, which can be switched in the settings.
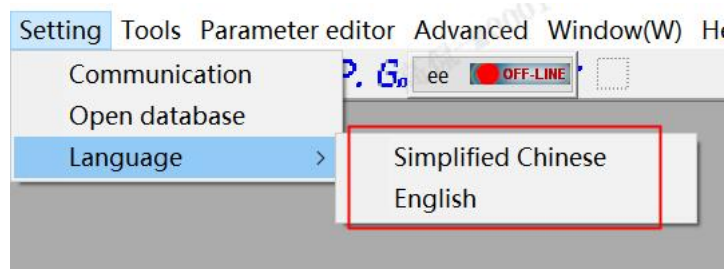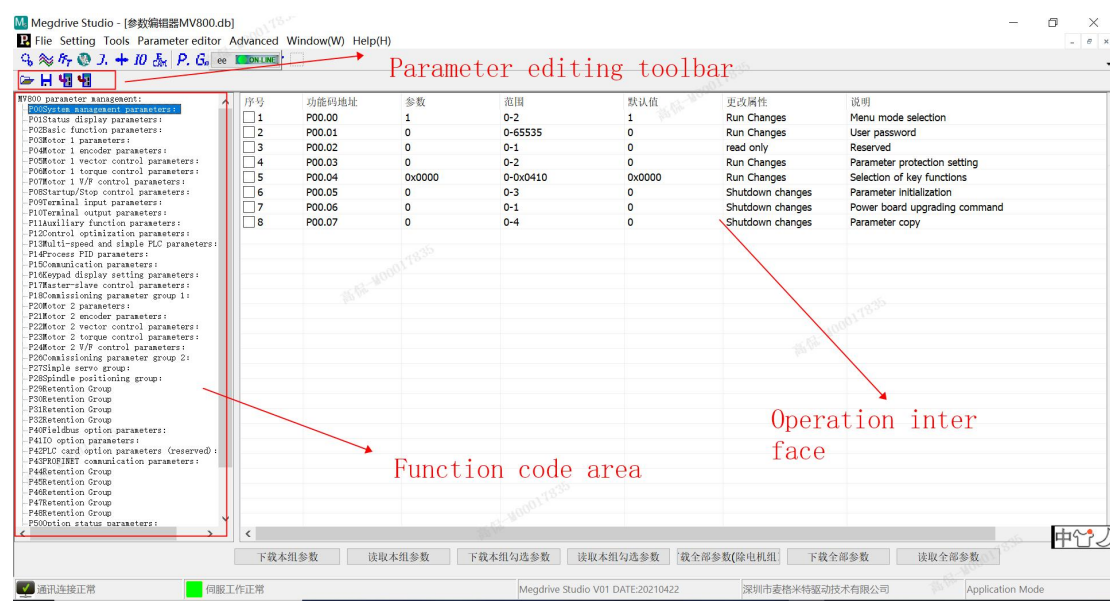
4 Parameter Editor

4.1 Function overview

Online modify, upload, download, save function code parameters.

4.2 Open the path

Menu method : parameter editor.

Toolbar method : Click on the toolbar parameter editing icon ![P.] to open. The

parameter editor interface is as follows :

4.3 Function specification

The main functions include opening parameter files, saving parameters, downloading data, and reading servo data. Used to check The dynamic characteristics of the servo drive system in the working process can also monitor the working state of the servo operation.

Open the parameter file : Open the XXX.csv file that saves the parameters.

Save the parameter file : Save the parameter data to the XXX.csv file.

Download data : Write parameters to the servo drive.

Read the servo data : Read the servo parameters from the servo.

Modify the parameters : in the parameter display, modify the area, click on the line where the parameters to be modified, pop up the corresponding
The dialog box is modified and downloaded directly. If you double-click P00.00, the

following modification interface pops up, and the parameters can be modified in the interface.
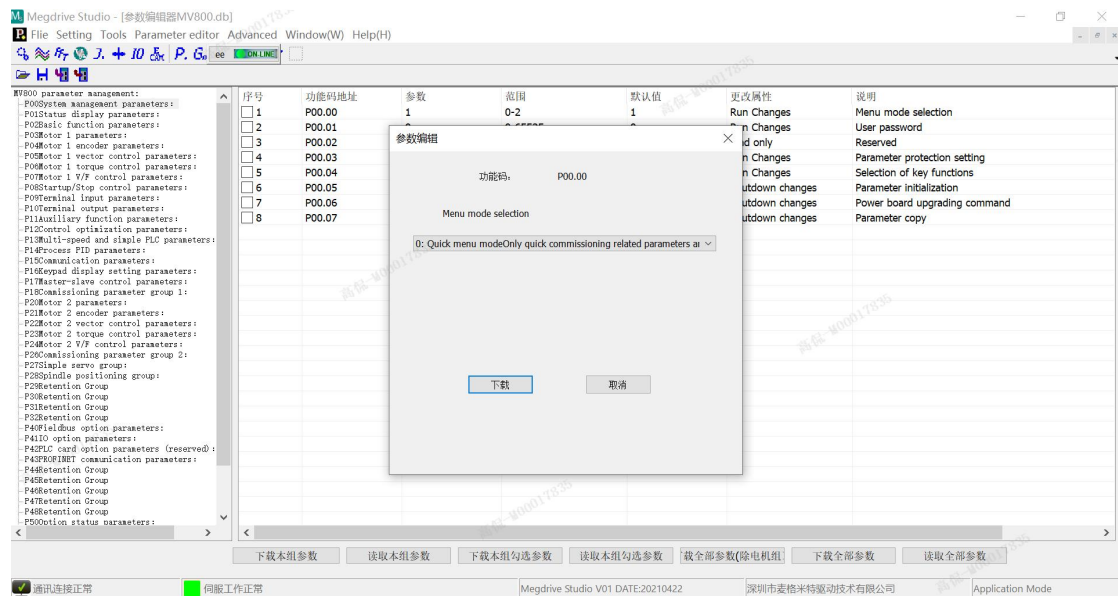
5 Oscillograph

5.1 Function overview

It is used to view the dynamic characteristics of the service drive system in the working process, and can also monitor the working state of the servo operation. The sampling frequency of the oscilloscope is 1k when the communication baud rate is 1M (ModBus), and it supports 4 channels.

5.2 Open the path

Menu method : tool \ oscilloscope.

Toolbar method : Click on the toolbar oscilloscope icon to open, the interface is as follows :
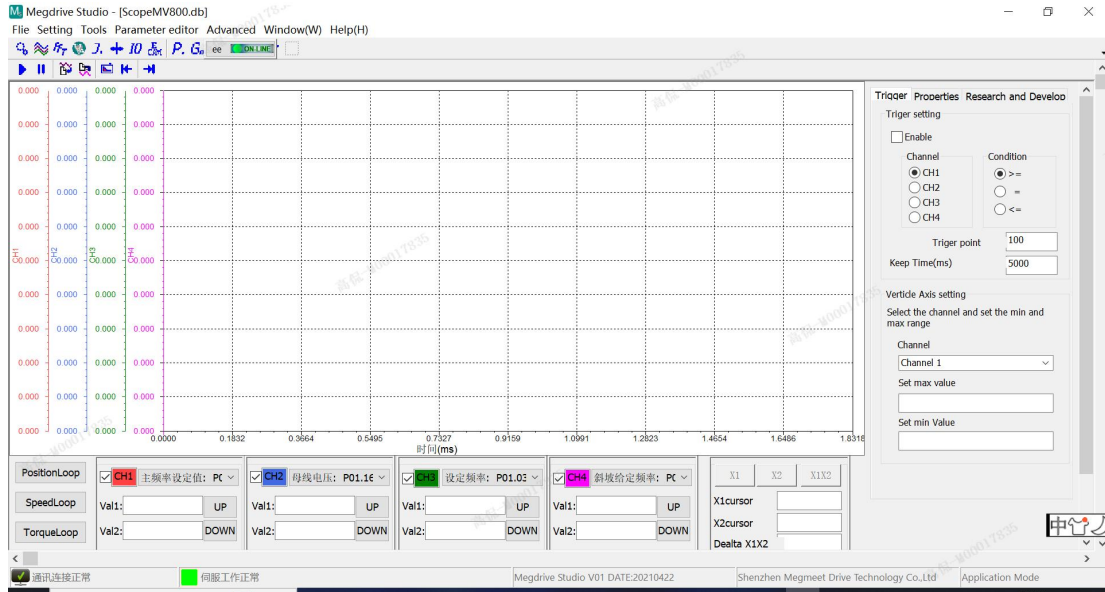
5.3 Function specification

The main functions include running, stopping, waveform data saving, waveform data opening, setting, saving waveform pictures, forward page turning, backward page turning, channel selection, viewing cursor data, amplifying, shrinking, curve moving up, curve moving down, etc.

Run : Start the oscilloscope.

Stop the oscilloscope : Stop the oscilloscope.

Save waveform data : Save the waveform to the database.

Open waveform data : Open the waveform data and display it.

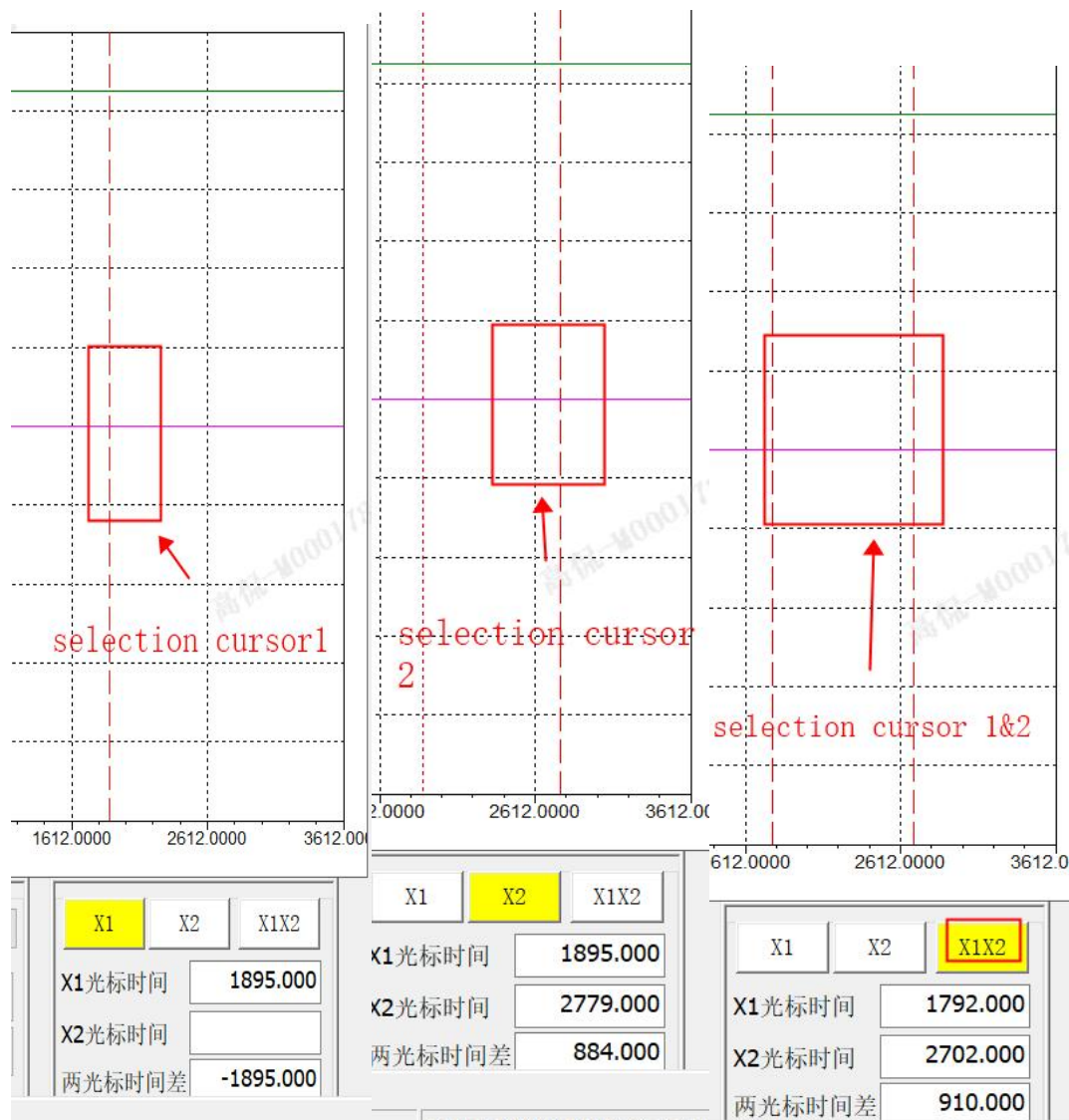Oscilloscope Settings : Set the oscilloscope channel.

Save the waveform picture : Save the waveform picture

Page backward : view the data of the next page.

Cursor selection and movement : The cursor is mainly used to view the data of points on the oscilloscope. There are a total of two cursors, three options.

selection cursor1   selection cursor 2   selection cursor 1&2

X1	X2	X1X2
X1光标时间	1895.000	
X2光标时间		
两光标时间差	-1895.000	

X1	X2	X1X2
X1光标时间	1895.000	
X2光标时间	2779.000	
两光标时间差	884.000	

X1	X2	X1X2
X1光标时间	1792.000	
X2光标时间	2702.000	
两光标时间差	910.000	

The movement of the cursor position.

Coarse shift : After selecting the cursor, press and hold the Ctrl key, click the position to be moved, and complete the movement.

Fine shift : After selecting the cursor, press the left arrow to the left, press the right arrow to the right to view.

    Waveform amplification : Hold the left key, draw the enlarged rectangular box from the upper left to the lower right, and loosen the rectangular area to complete the amplification.

    Waveform reduction : double-click reduction

    Move the waveform up and down : Move the CH1 waveform up as shown in the following diagram. Hold down ' Move CH1 ', and the waveform moves up. Move down : Press and hold ' Move down CH1 ', the waveform moves down.

Click the tick in front of the channel, and select to display the channel waveform, otherwise it is not displayed.

☑ CH1 主频率设定值: PC ∨

Trigger condition setting : The trigger conditions of each channel can be set.

Trigger Properties Research and Develop

Triger setting

☐ Enable

Channel
- ◉ CH1
- ○ CH2
- ○ CH3
- ○ CH4

Condition
- ◉ >=
- ○ =
- ○ <=

Triger point   100

Keep Time(ms)   5000

Verticle Axis setting

Select the channel and set the min and max range

Channel

Channel 1   ∨

Set max value

Set min Value