A_HMI_V0300
Introduction

Rev2.0 — 4 June 2019

*This document is subject to change without notice.

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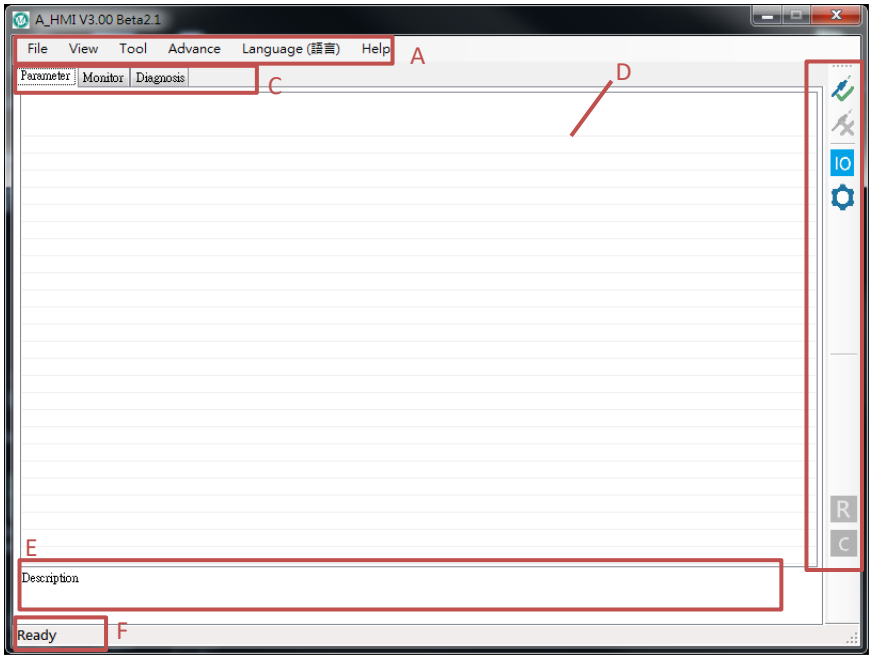
1. Indroduction

The A_HMI is a PC software that can setup parameters, monitor operation data or control the BLDC drive. One can connect the PC to the drive thorugh RS-232 / Bluetooth / RS-485 (depends on the drive).
A+HMI requires the Microsoft Visual C++ 2010 Express (a legal free software provided my Microsoft) pre-instatlled in order tto work properly.

A_HMI_V0300 Download.

2. Interface



2.1. A: Action Menu

- File: To open (to upload to the drive) or save a parameter setting file.
- View: Display the drive information (Part number / fw version / Serial No.)
- Tool: Open the Multi-Drive / Multi-Drive Lite control panel.
- Advance: Advance setup, password input to enter advanced mode, reset buttons including: Parameter reset, IO reset, Error code reset, Warning reset, COMM reset.
- Langurage: Select the interface language (Not all drive model support other languages).

2.2. B: General Tool Bar

- Connection. Click to open the comport to connect to the drive (usually Connect Settings is required for the first time).
- Disconnection. Click to close the comport to disconnect to the drive.
- IO Net IO control panel. Can use to control the ON/OFF status of each Net IO input.
- Connect Settings. Set the comport number, baudrate, data bits, pariy, stop bit, protocol (Modbus ASCII or RTU) and RS485 mode, ID.
- R Alarm Reset. Reset the alarm of the drive.
- C Configuration Parameter. Click to make the parameter effective.

2.3. C: Page Tab

- Parameter: Parameter display and setup page.
- Monitor: Display dynamic data, monitor data and alarm record.
- Diagnosis: Display a summary of drive setup and status (for debug and test).

2.4. D: Data Display Area

- Display data depends on the page tab selection.

2.5. E: Parameter Brief

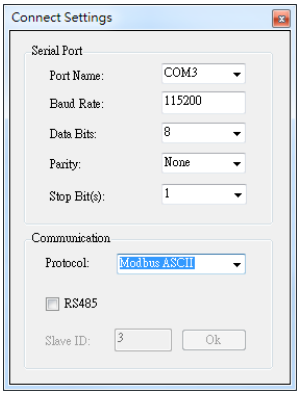
- Display the brief description of the selected parameter.

2.6. E: Connection Status

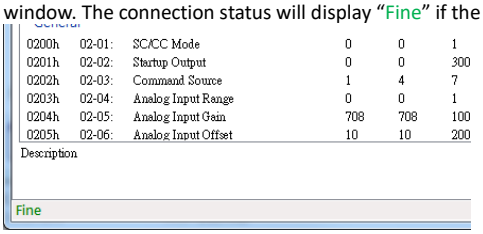
- Ready: Comport is not open yet.
- Fine: The connection to the drive is normal.
- Timeout: The drive has no response.
- Frame Error: The received message LRC or CRC is incorrect.
- CMD Deny: The command cannot be executed properly.

3. Connection

- Step 1: Click the (Connection Setting) to set the comport and other communication settings.
  The right image shows the default setup for most cases when using RS232 (except the Port Number which is depsends on your device).
  When using RS485, click the RS485 check box and set the Slave ID corresponding to the drive
  (Note: the protocol of most drive using RS485 is Modbus RTU).



- Click (Connection) to connect to the drive. An ComPort Openned window will show up. Close that window. The connection status will display "Fine" if the connection is succesful.



4. Drive Parameter Access

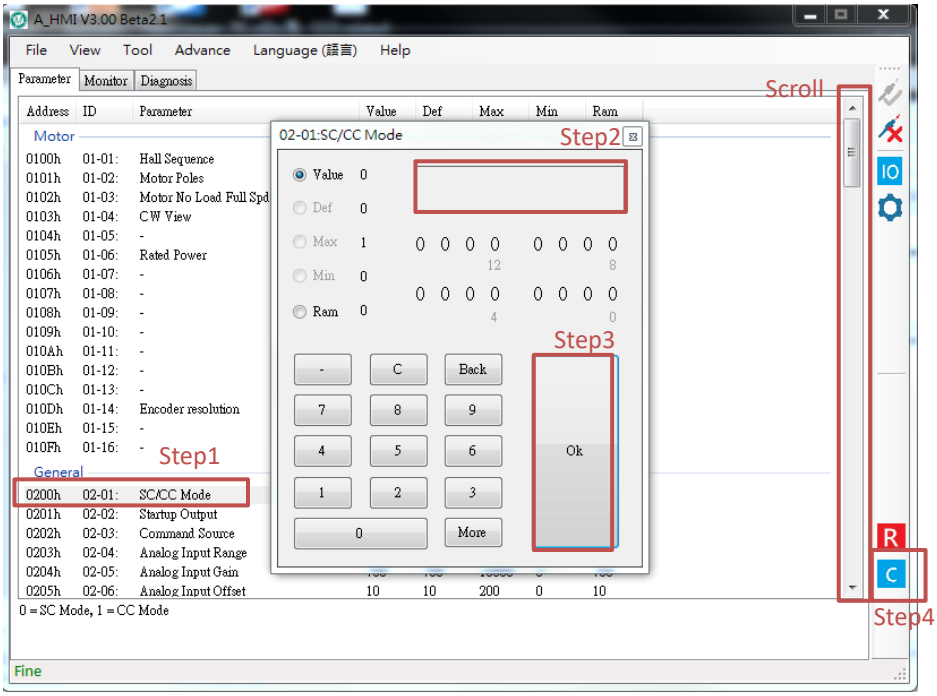
4.1. Page Navigation

- Use the scroll to navigate the parameter(data) display page.

4.2. To Modify a Parameter

- Step1: Double click the parameter to open the setting window.
- Step2: Enter the value to setup.
- Step3: Press "enter" or click ok.
- Step4: Click C to make parameter effective.

Note: Some parameters take effect immediently without the configuration and some would need to repower to drive to be effective. Please reference to the drive's manual for details.



4.3. To Save Parameter

Click the File->Save As... to save the current parameter setting into a file (.PEL2).

4.4. To Upload a Parameter Setting

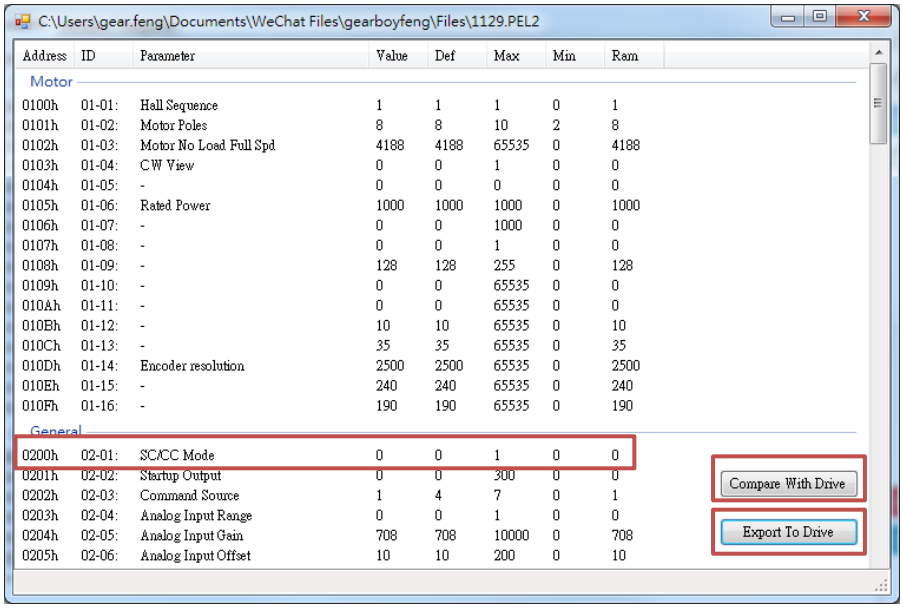
Click te File->Open File to open a parameter file (.PEL2)
Click the "Export To Drive" to upload the setting the the drive.

4.5. To Update single Parameter

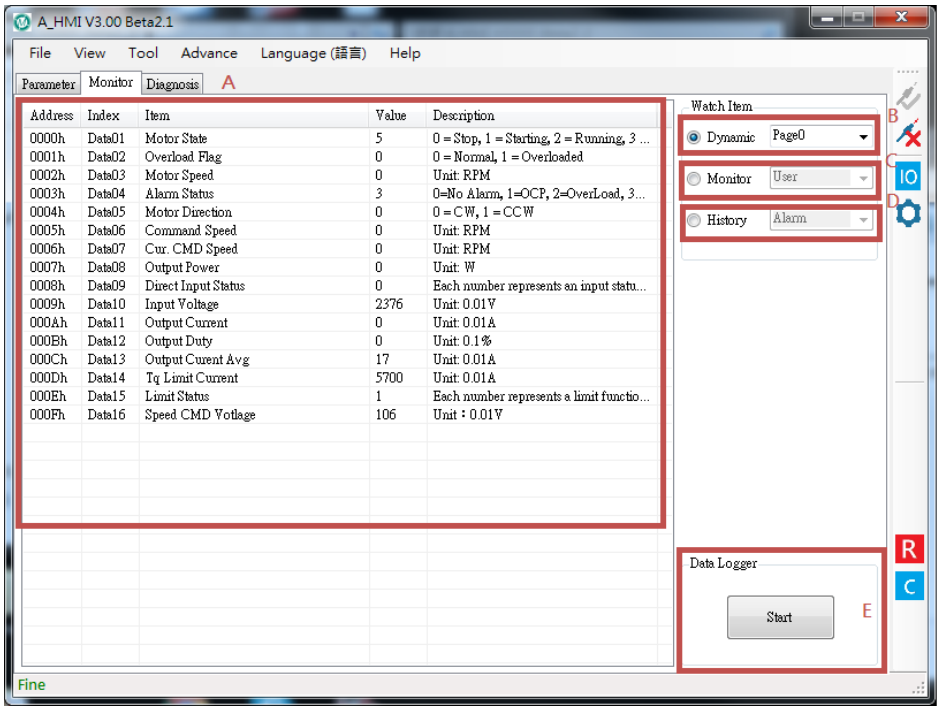
After open a parameter file, one can double click on a parameter to update a single parameter to that setting independently.

4.6. Compare parameter

After open a parameter file, one can compare the the current drive setting to the parameter file with the "Compare With Drive" button. The different setting will be marked as yellow background.



5. Monitor Data



5.1. A. Data Display

Display the data depends on the watch item selected.

5.2. B. Dynami Data

Click the radial button to display dyanamic data (drive and motor status). The page of data can be selected in the dropdown list.

5.3. C. Monitor Data

Click the radial button to display monitor data (drive and motor status). The page of data can be selected in the dropdown list.
Note: Not all drive support monitor data.

5.4. D. Hitory Data

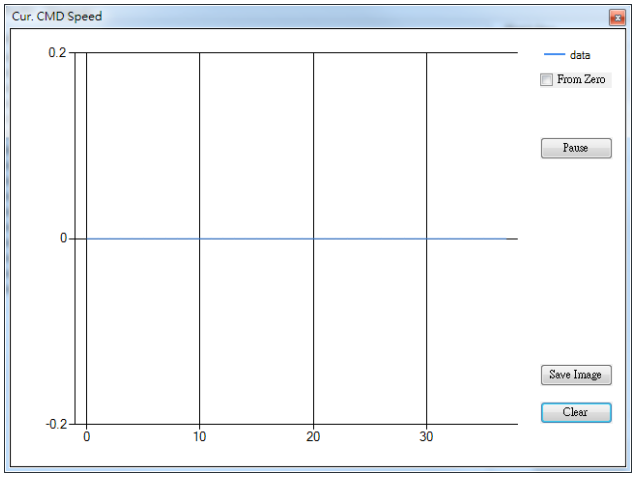
Click the radial button to display Alarm or COMM error history.

5.5. E. Data Logger

Click to log the current display data into a text file. (Press again to finish logging).

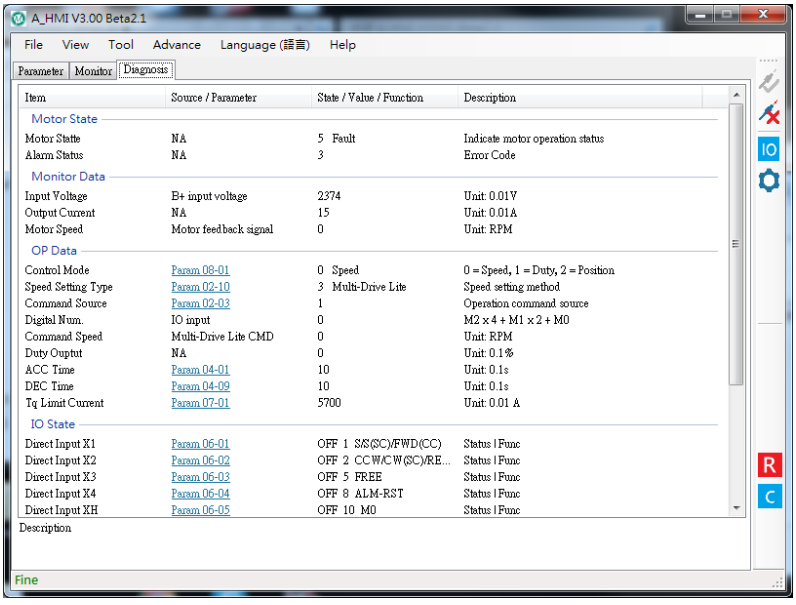
5.6. Draw Monitor Data Graph

Click on the data in the display area to open a data grahp of that data. The x-axis is the number of samples of the data. The graph can be paused or be saved.



6. Diagnosis

A summary page of the drive steup and status including the IO status. Which is convenient for setup and debugging.
Note: Not all drive supports this function.

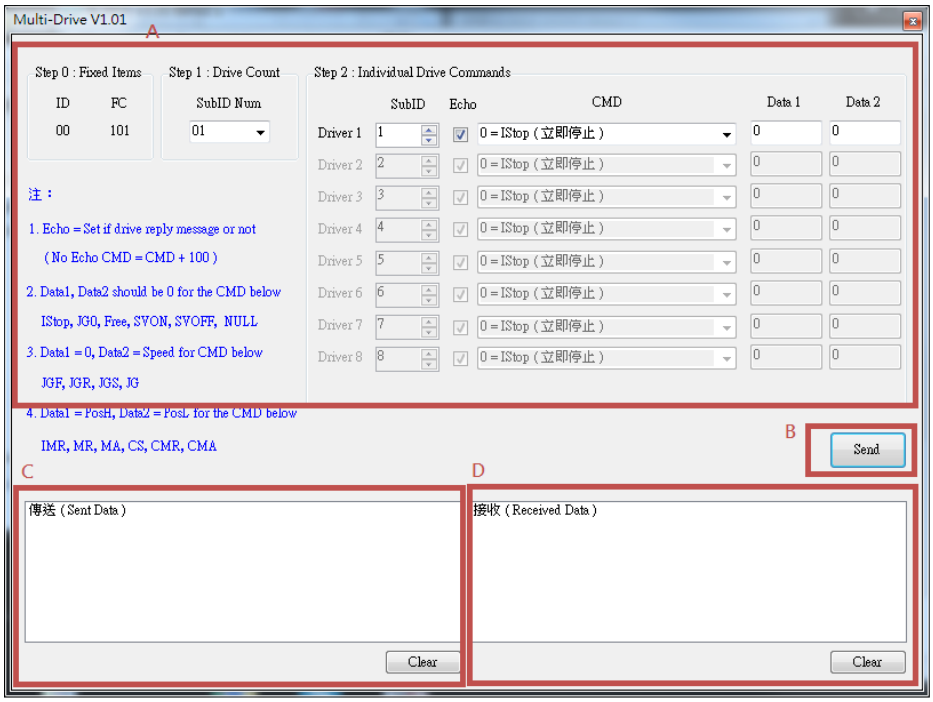


7. Other Function (Tool)

7.1. Multi-Drive

A control panel to send mtuli-drive command and receive communication BUS message. Click Tool->Multi-Drive to open the panel.
Note: Not all drive supports Multi-Drive.

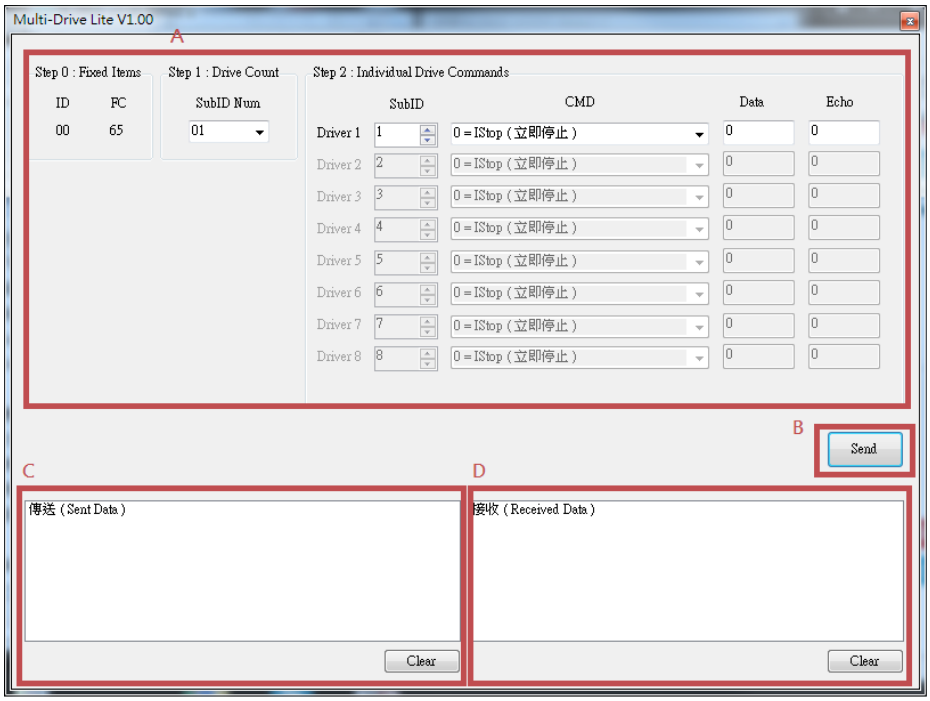
- A: Set the command to send.
- B: Click to send the command.
- C: Command message sent.
- D: Data received from the BUS.



7.2. Multi-Drive Lite

A control panel to send mtuli-drive Lite command and receive communication BUS message.
Note: Not all drive supports Multi-Drive Lite.

- A: Set the command to send.
- B: Click to send the command.
- C: Command message sent.
- D: Data received from the BUS.



修訂紀錄

REV	Date	Remark
1.0	20181211	1st Release.
2.0	20190604	Update A_HMI_V0300 download path.

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