

Instruction of Inverter Monitoring Software

It is a monitoring management-software that is running on PC to realize the remote-control by using RS485 communication mode. Its functions include: it can detect the work and running parameters of inverter, analysis parameters based on curves, read and change the inverter parameters, remote-control the running, stop and reset of motor, and also can upload and download group F function code.

I 、Preparation

1、Tools: one set of PC; an adapter for USB/RS485 or RS232/RS485; installation package of the monitoring software; the inverter.

2、Hardware connection: By using USB (or RS232) port of adapter to link the port on PC, keep it to link the terminal of inverter at the other end. Such as 485+ connect with A, and 485- connect with B, please refer to fig.1.



fig.1 The diagram of hardware connection

3、Driver installation: After finishing the step 2, the system will remind you to install driver of USB to serial port (or driver of RS232 to RS485), please download and install files according to the prompt.

II 、Install

1、Double click the "setup.exe" Application in the folder, then according to the system prompts to install.

2、If computer cannot detect the Microsoft .Net Framework 4.0 Before the software installation, the package will automatically install the component first, as shown in Fig.2, click Accept to begin the installation, this process will takes a few minutes, please wait patiently.

If this frame is installed on the computer, it can skip this step automatically.

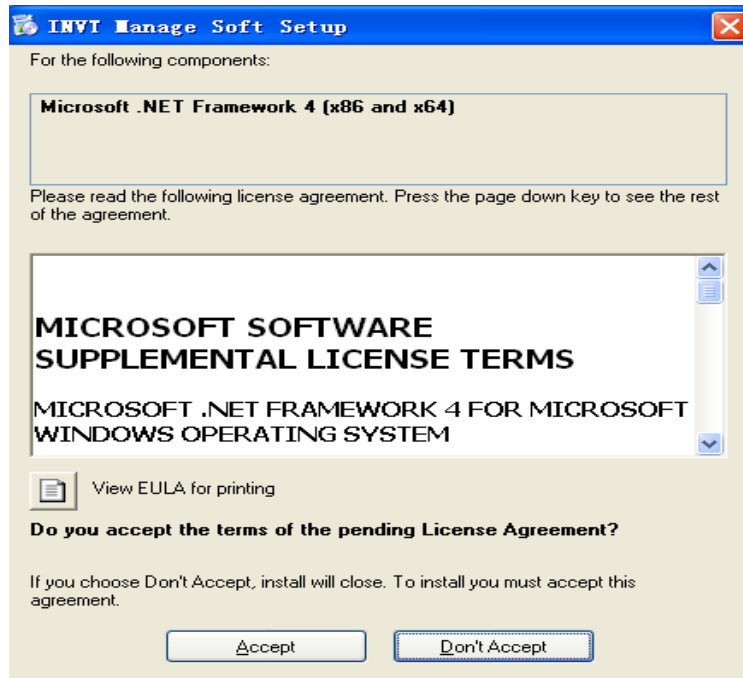


fig.2 The installation of .Net Framework 4.0

3、 After the installation of the components, the beginning of the installation of monitoring software, as shown in fig.3. According to the installation wizard, press the "Next" to install.

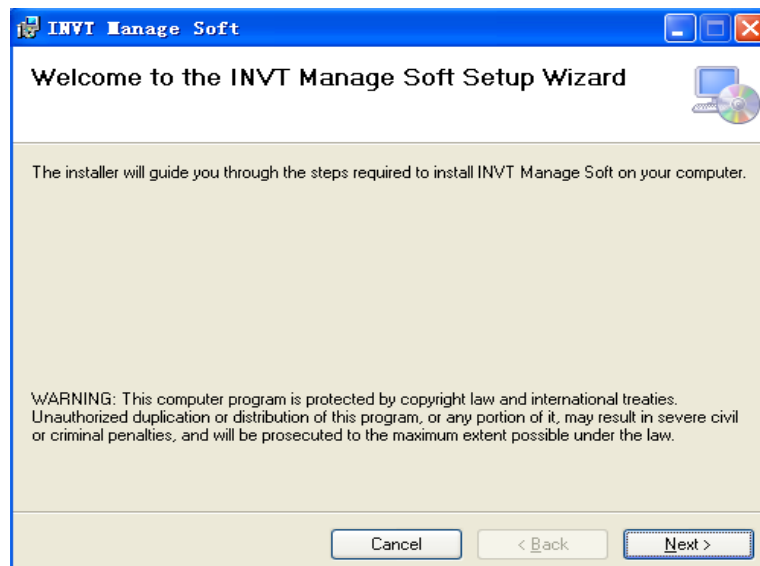


fig.3 Installation wizard

4、 After successful installation, the "beginning- procedures" menu will add a "SUNYE INVT Manage Soft" folder, including "INVT Manage Soft" and "Uninstall" items; and also shortcut "INVT Manage Soft " will be on the desktop.

III、 How to Use

1、Language Choice

Double click on the " INVT Manage Soft " shortcut, the first to choose the language, as shown in Fig.4, click the Chinese button to enter the Chinese system (Fig.5), instead of entering the English system. Next, take the English version as an example to illustrate.

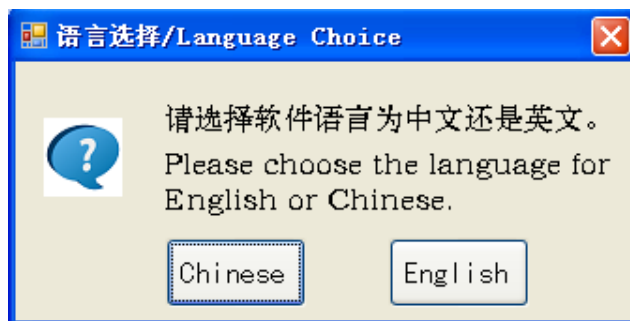


fig.4 Language Choice

In the main interface of the system, you can enter the function interface directly by double-clicking or clicking the icon. Such as the system login, communication settings, data monitoring, upload and download, read the function code, real-time curve, etc.

The taskbar display user login information, communication connection status, system login time and the software version number.

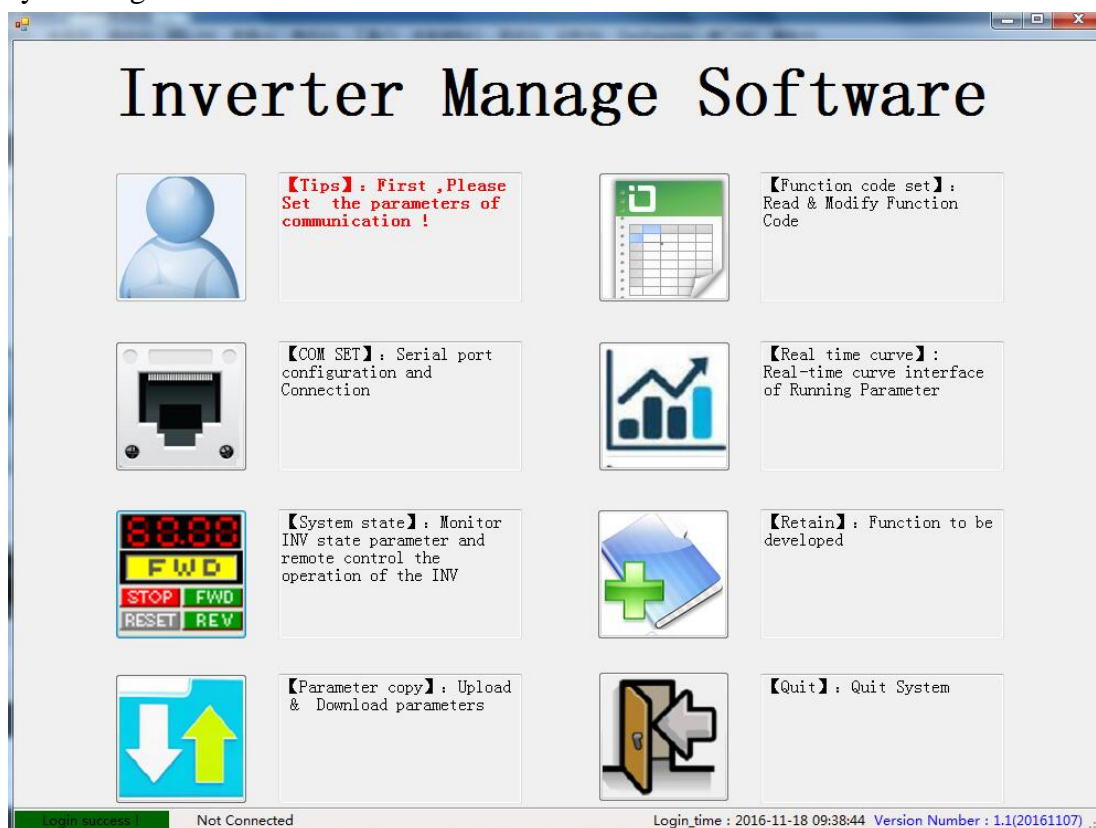


fig.5 The English version of the system main interface

2、 User login (The step is skipped temporarily)

Before use, please register or login firstly, as shown in fig.6. The initial login user name is admin, the password also is admin. After a successful login, It will return to the main interface for the next operation, and show " Login success!" in the lower left of you PC.

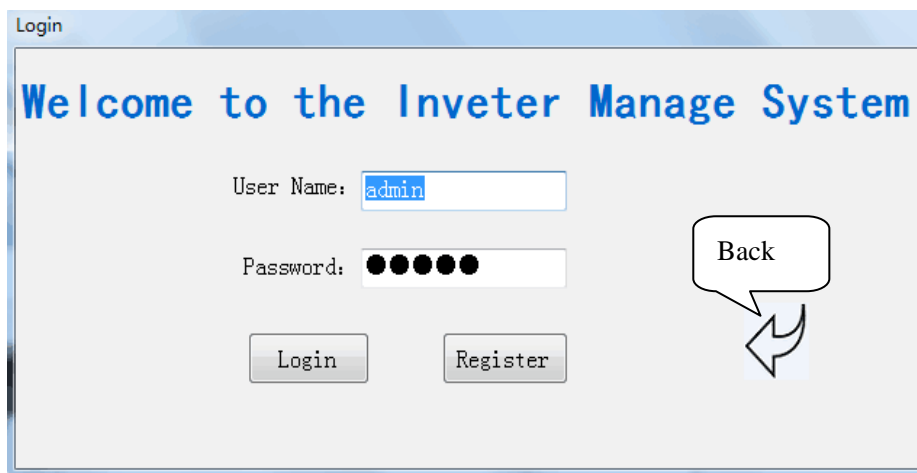


fig.6 Login interface

3、 Communication link

After login, the first step is to set the Modbus communication parameter, as shown in fig.7; then to press the "Connection" button to check if communication is worked. It will return to the main interface for the next operation, and show "connection successfully!" in the lower left of you PC.

Note: Keep the same of the communication parameters and the value of Group F8 function code.

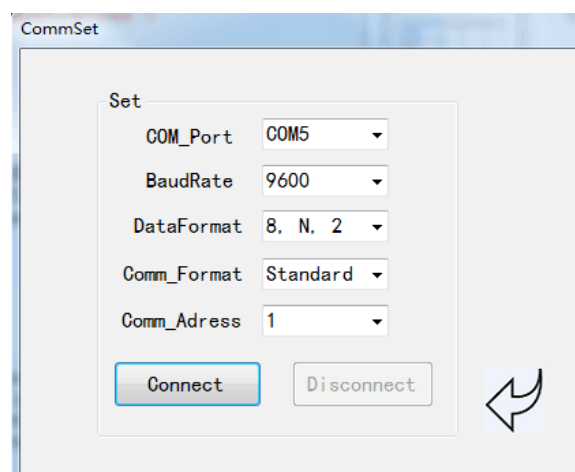


fig.7 Communication parameter setting interface

4、 Data monitoring

The Functions mainly includes monitoring some common parameters, the inverter operating status, status of DI input and DO output, fault display, and remote control of motor operation, as shown in Fig.8.

Note: For remote control, the communication control switch must be turned on.

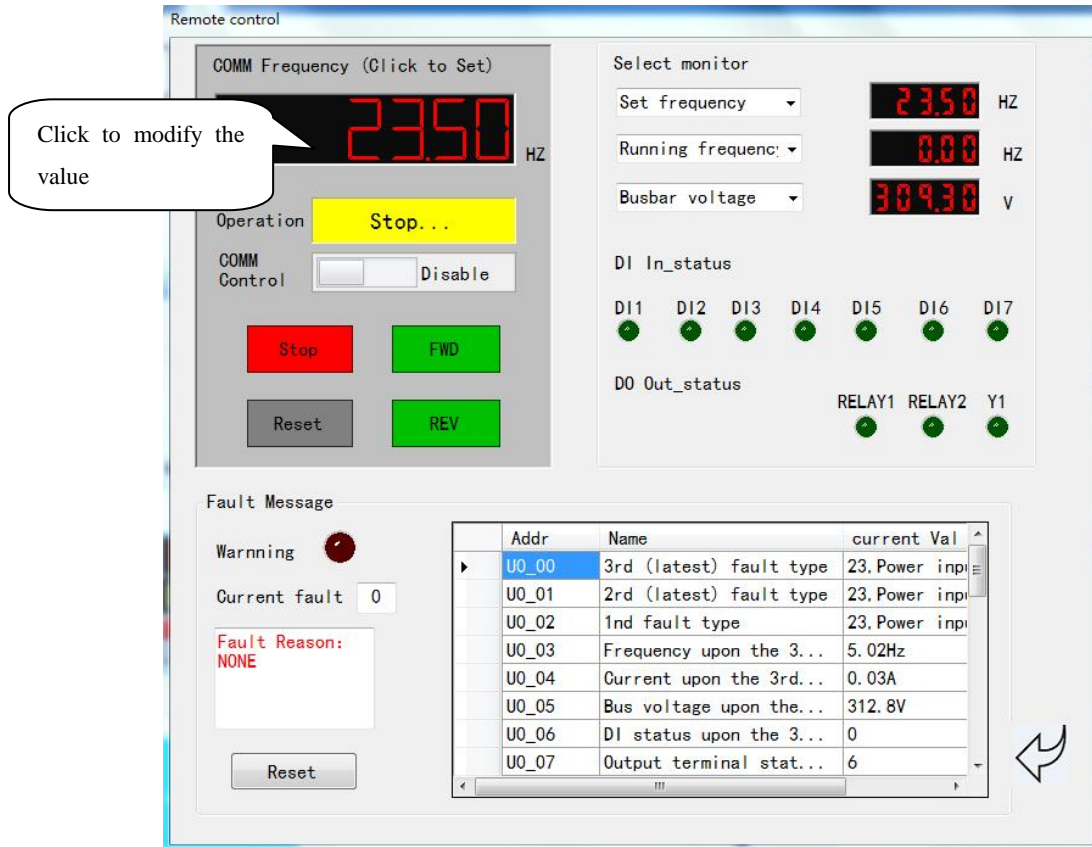


fig.8 Data monitoring interface



fig.9 Diagram of modify the communication frequency

Fig.9 is through the click of the communication frequency of the display box,

can pop up the frequency of the modified interface, Enter key to confirm the change.

In this case, it is need to set the frequency source F0-06 of the inverter to the communication frequency

5、Function code

It can query and modify the parameter value to group F, H, L, U function code as shown in Fig. 10.

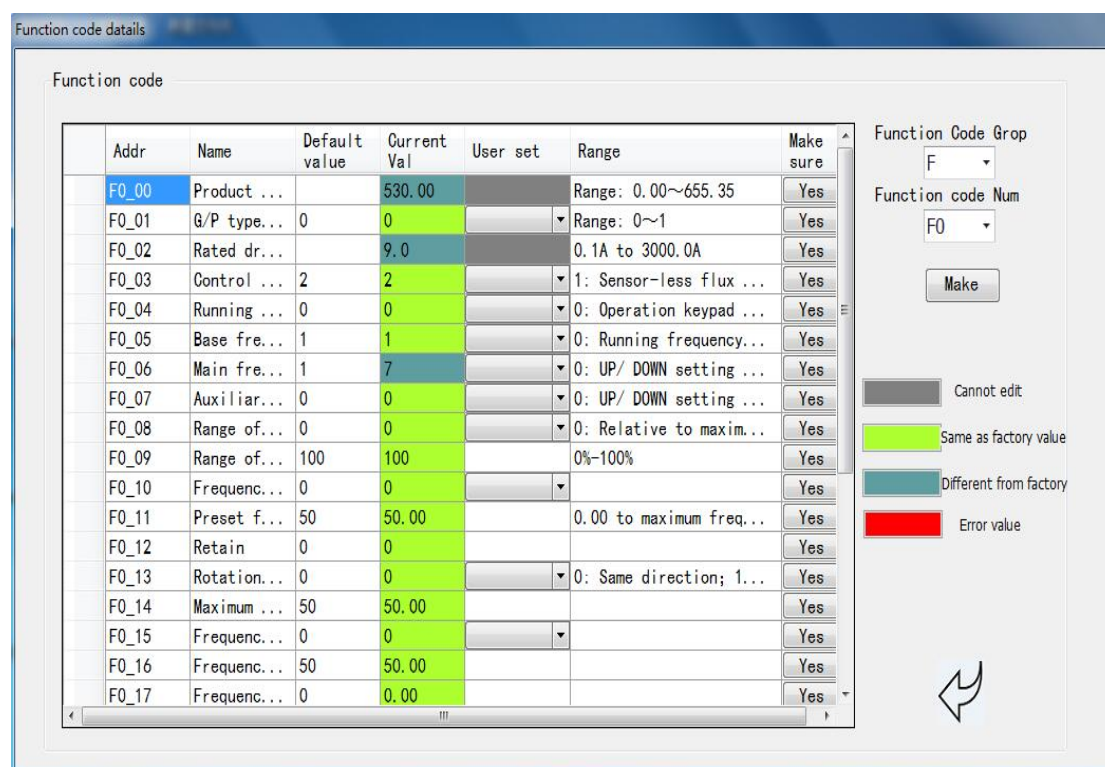


fig.10 Functional code interface

6、Curve monitoring

As shown in Fig.11, it can monitor 4 curves at the same time, with different colors to distinguish. When the communication baud rate is less than 38400, the sampling time of multiple curves is 50ms minimum, if it is greater than or equal 38400, the minimum is 10ms.

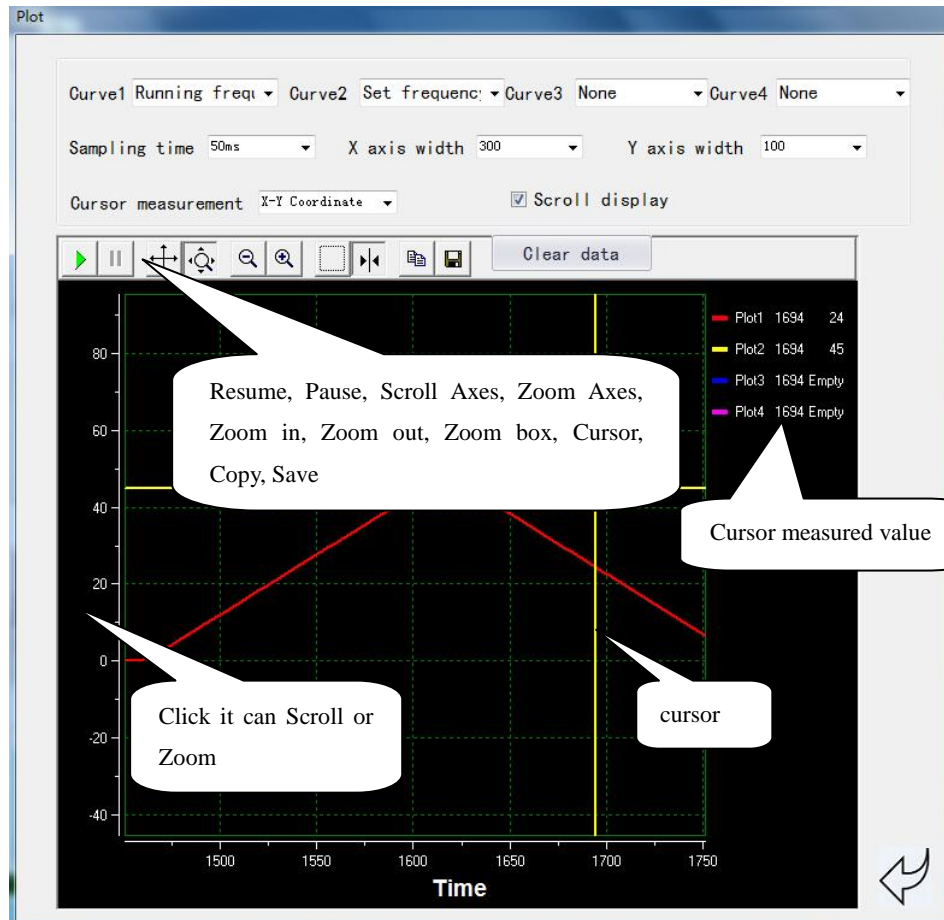


fig.11 Curve monitoring interface

Roll display: Default, which means the minimum display value of the X axis is changed real-time; On the contrary, the current minimum value remains unchanged.



: Start or resume to monitor



: Pause the display



: Click on "Cursor" button, get into the measurement model, and the measurement method can be selected (as X, Y, delta X, delta Y), Its default is the X - Y value. Click the cursor button again to cancel this model.



: when selected, click the X or Y axis scale, and then scroll the mouse to zoom in or zoom out the axis.



: Default, when selected, click the X or Y axis scale, and then scroll the mouse to move the display of the axis.



: Zoom Out All the entire display



: Zoom In All the entire display



: Zoom the local selection



: Copy the current curve to the clipboard, and then paste it into another document.



: Click on "save" button on the toolbar, the current curve can be generated Bmp format pictures and saved.

7、Parameters copy

Upload: copy data from inverter to the computer. As shown in fig.12 displays are uploading the function code file about CM530 to the desktop, and the generated configuration file is the 20160505. ini.

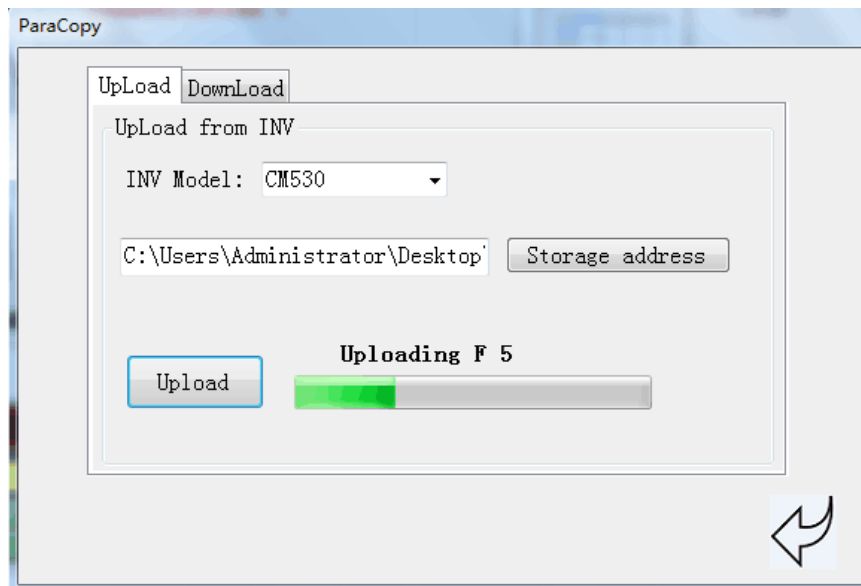


fig.12 Upload to PC

Download: Load the configuration files from the computer to the inverter; Which support to download “all” and “different-values”. The former refers to download all function code in the file, and the latter refers to the only download which the value is different with functional code in the factory configuration file. For details refer to the Fig.13.

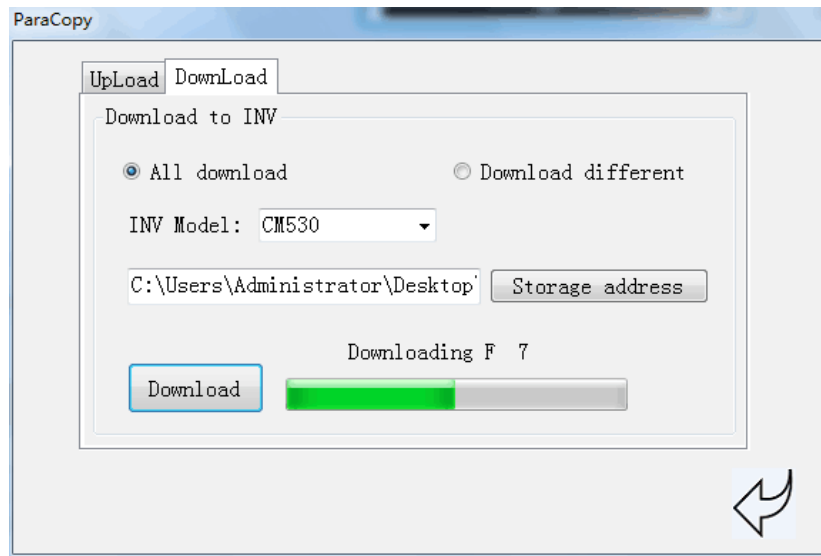


fig.13 Download to inverter