

ProgMaster Series Production Programmer User Manual

V3.2



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I. General Description

This user manual mainly describes the hardware and software features of ProgMaster series. If you would like know more about Dediware and application information, please visit DediProg website (<http://www.dediprogram.com/download>).

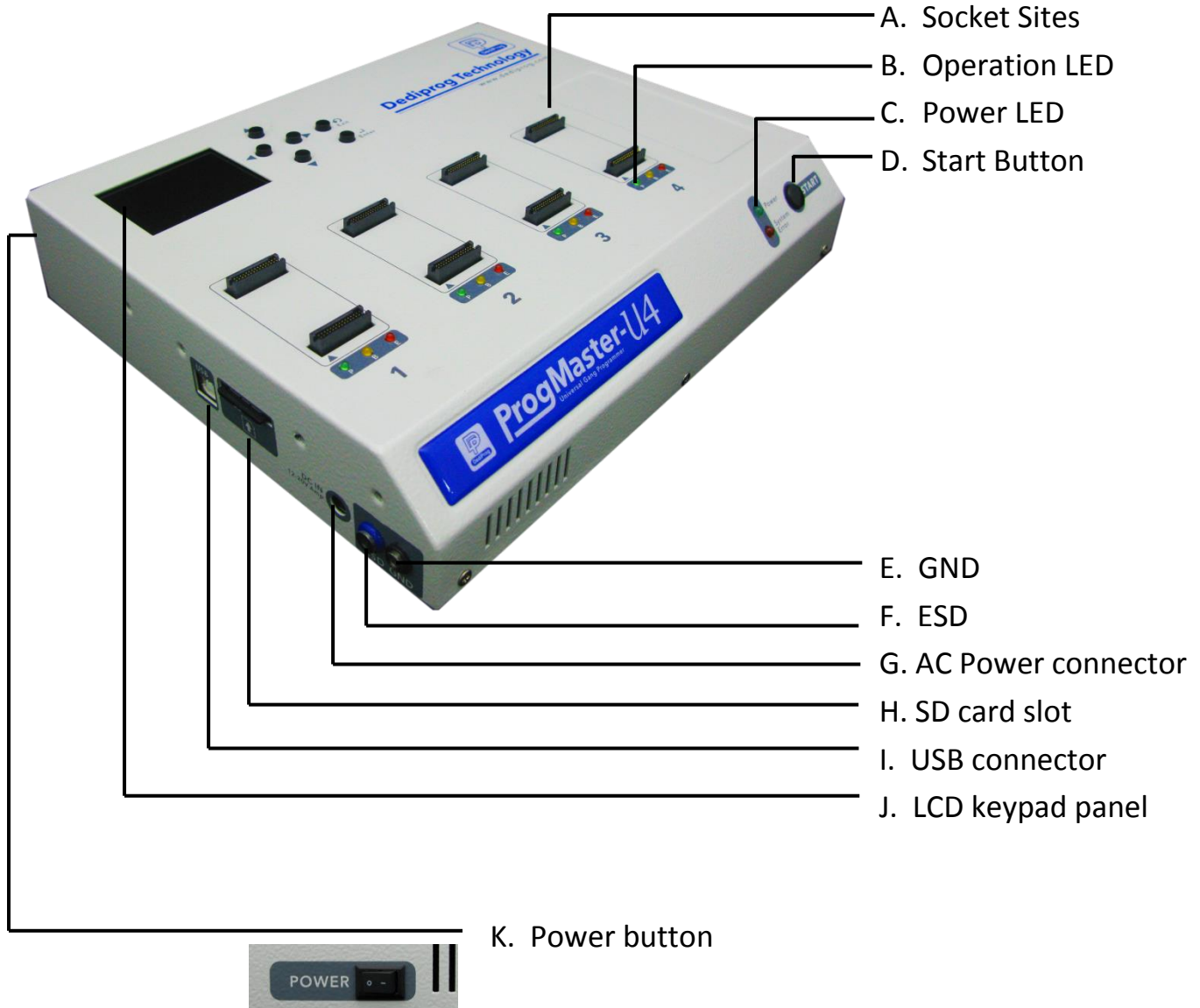
II. Product Information

Programmer Features	ProgMaster-U4/U8
IC Support	Universal
SD Slot	√
USB Port	√
LCD Port	√
Socket Sites	Four Sites/Eight Sites
Power/Pass/Busy/Error LED	√
Start button	√
Multiple Programmers	√

III. System Requirements

CPU:	P4 or above
OS:	Win XP or above
USB Port:	USB 2.0
Free Disk Space:	At least 1GB
CD Rom:	Necessary

IV. Hardware Description



A. Socket sites

Install the socket adaptors according to different IC packages.

B. Operation LED

Red LED: Error, the programming has failed or verified errors.

Yellow LED: Busy, the system is operating.

Green LED: Pass, programming successful.

C. Power LED

Power LED will turn on when the ProgMaster is powered on.

D. Start button

After set up in the Dediware, press the start button to program the files that were saved in the SD card.

E. GND

It is for ProgMaster series grounding.

F. ESD

It is for connecting ESD wrist strap.

G. AC power connector

Connect the AC power adaptor.

H. SD card slot

It is for storing the programming files.

✘ Make sure the SD card is inserted into the slot before programming.

I. USB connector

It is the communication between the Dediware and the programmer.

J. LCD keypad panel

You can operate stand-alone programming through this keypad panel.

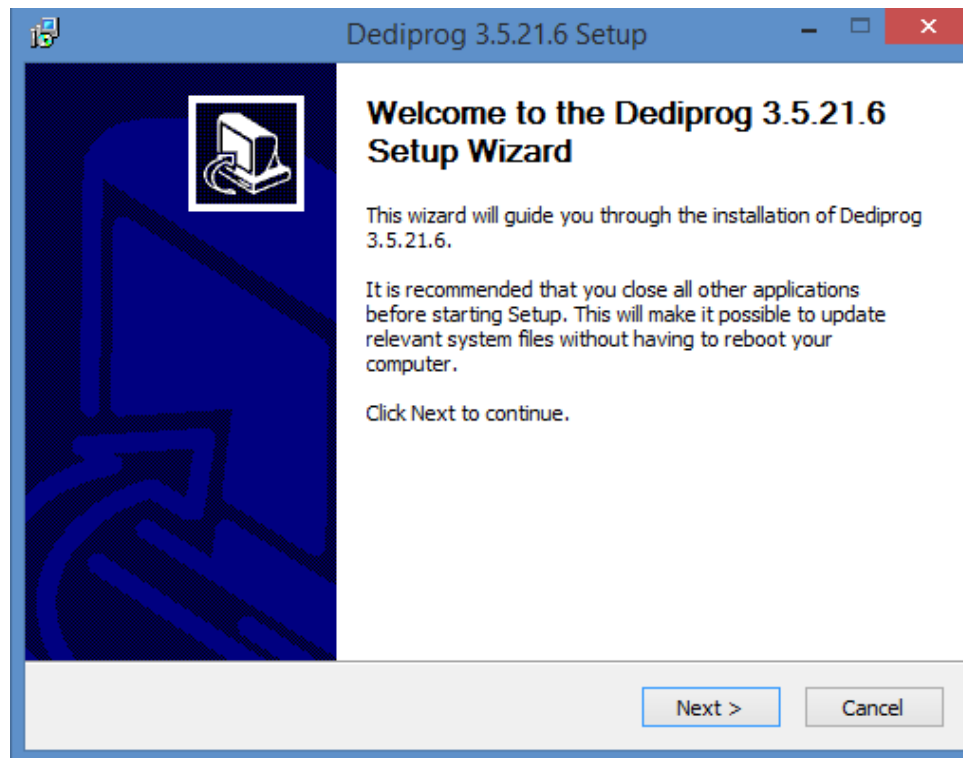
K. Power button

V. Dediware Quick Installation

The software is provided with the purchase of ProgMaster series programmers. The newest version will also be available on our website. www.dediprogram.com

5.1 Software Installation

1. Install **Dediware** by following the steps.



2. After installation, **Dediware** icon will appear on the desktop.



5.2 ProgMaster Setup

There are two modes in Progmaster series: USB mode and stand-alone mode. When power on the programmer, it will detect the connection between the programmer and the PC. If the USB is connected, then it will switch to USB mode. Otherwise, it will switch to stand-alone.

1. Insert SD card into the SD slot.
✘ **Make sure the SD card is inserted.**
2. Connect power adaptor.
3. Connect USB cable.
4. Install socket adaptors to socket sites, please refer to [VI. Socket Adaptor Installation](#).
5. Turn on the ProgMaster.
6. Place ICs into socket adaptors.
7. Open Dediware and start programming.

5.3 Create Programming Project

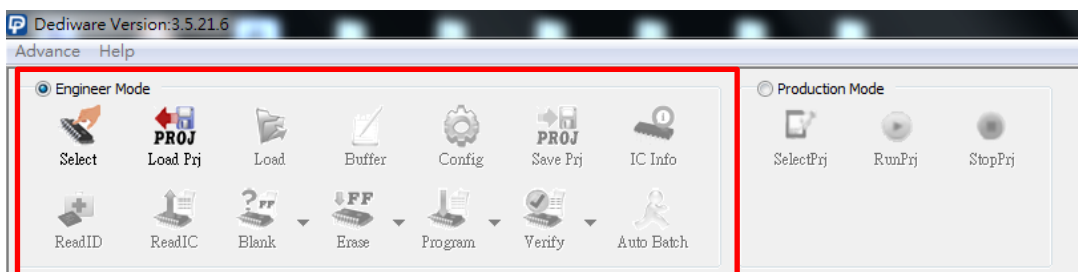
Note:

You can create a project file without connecting to a ProgMaster; it can also be done in any computer that has installed the Dediware. In addition, you can move the files to other computers for programming.

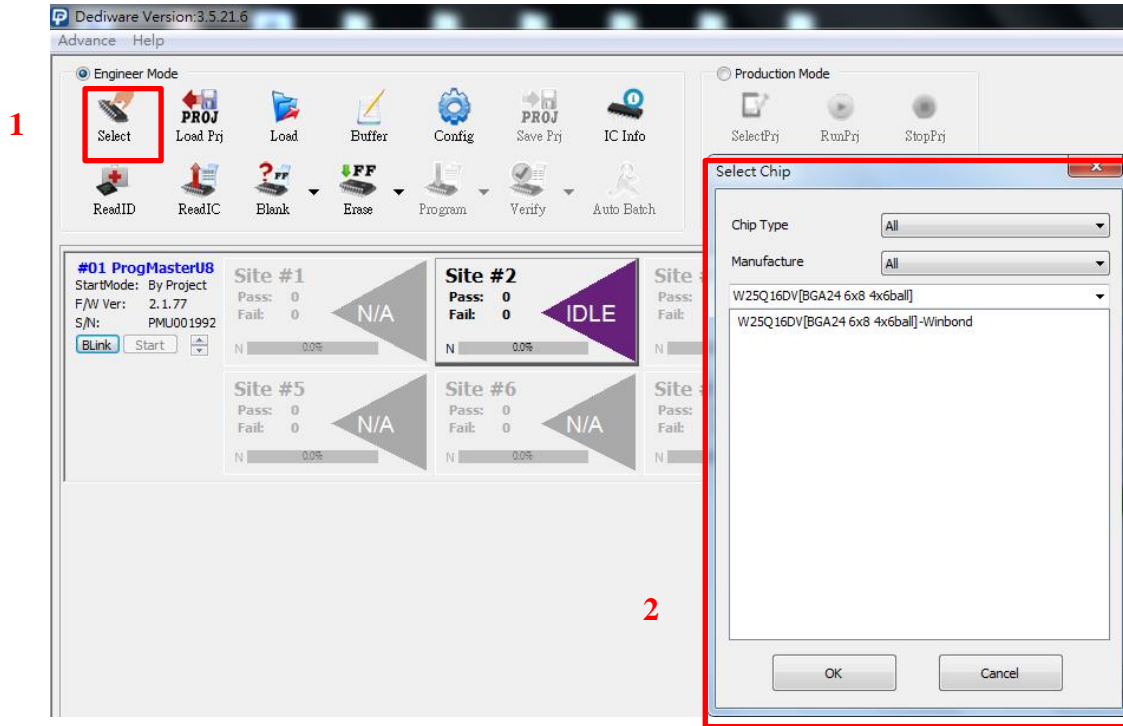
1. Double click DediProg icon to open Dediware



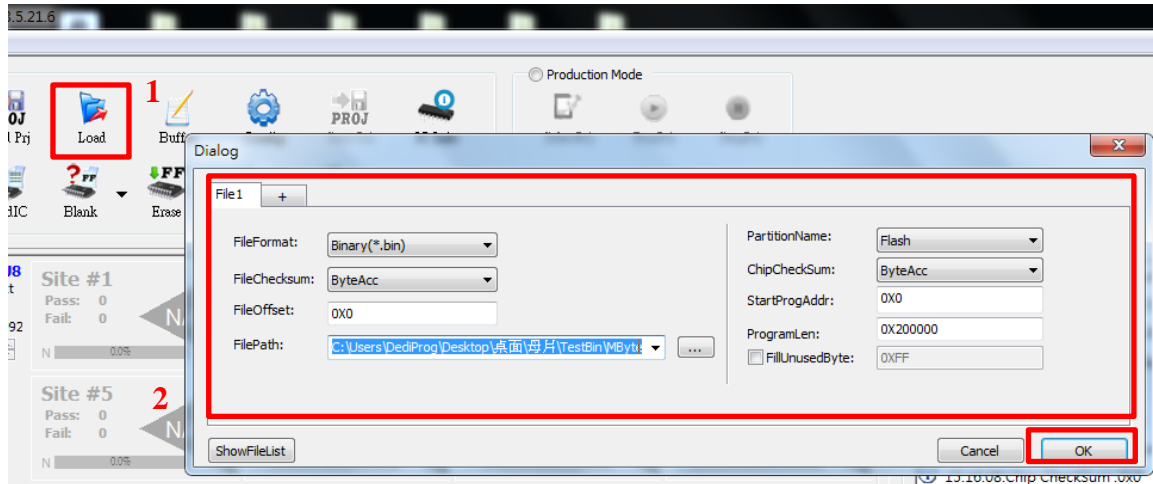
2. Switch to Engineering Mode



3. Select IC brand and IC part number (Or use search to find the model number)

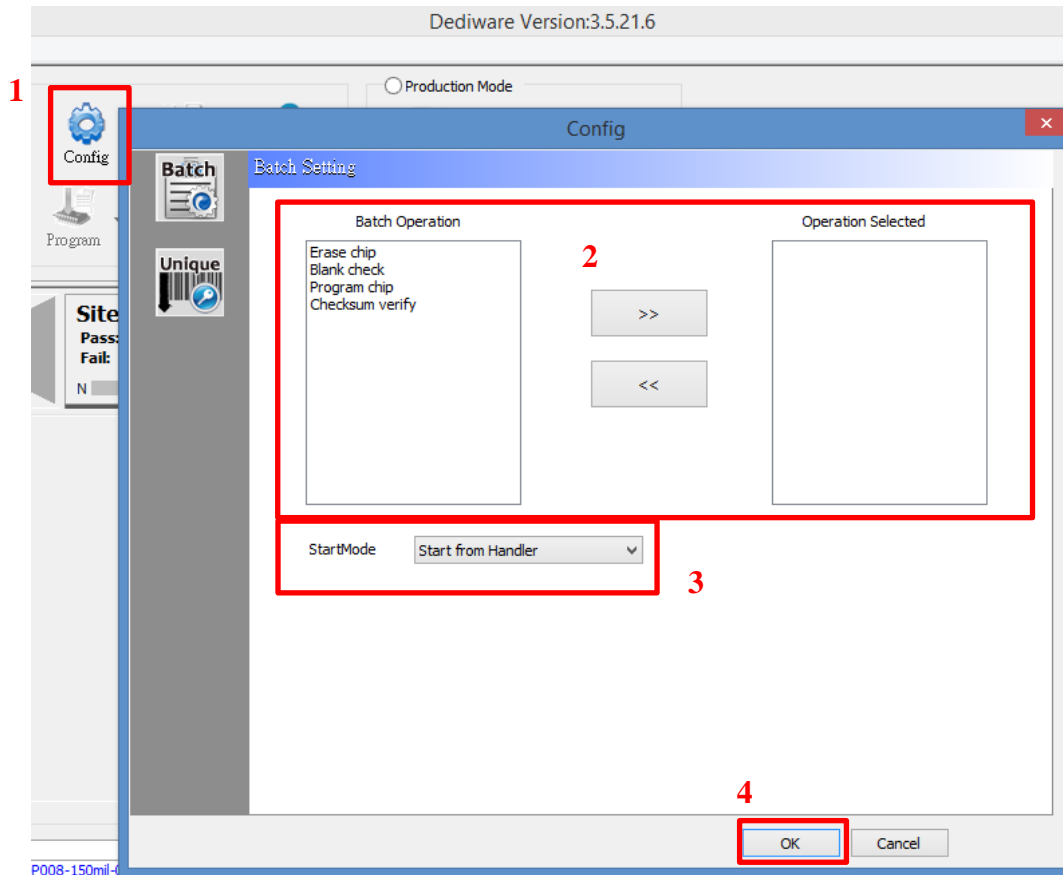


4. Load the programming file



5. Set the programming procedure and mode

Set up the batch according to your demand.



StartMode provides three selections; you may choose accordingly when creating a project file.

A. Start from Manual Mode:

You can operate the programmer by pressing the “start” button from the Dediware or the “Start Button” on the programmer.

B. Start from Auto Detection:

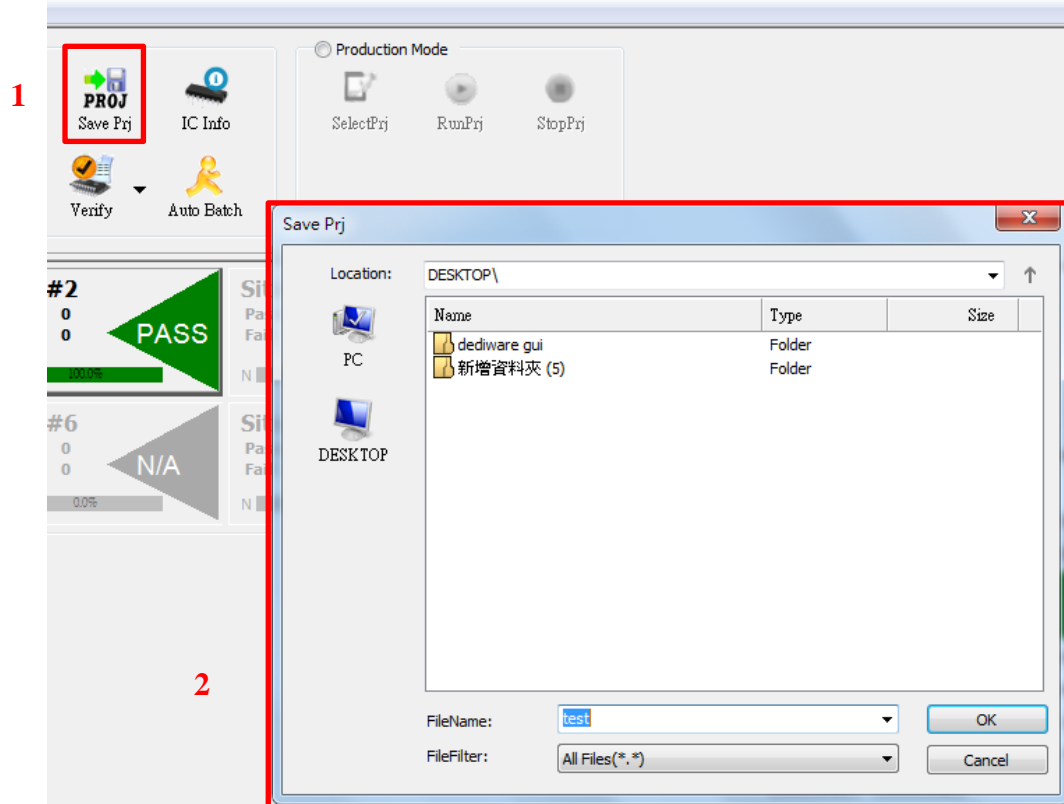
When operating the RunPrj, the programmer will automatically detect the ICs. When it detects an IC, it will start programming.

※ NAND and eMMC do not support this function.

C. Start from Handler:

This is for automation system.

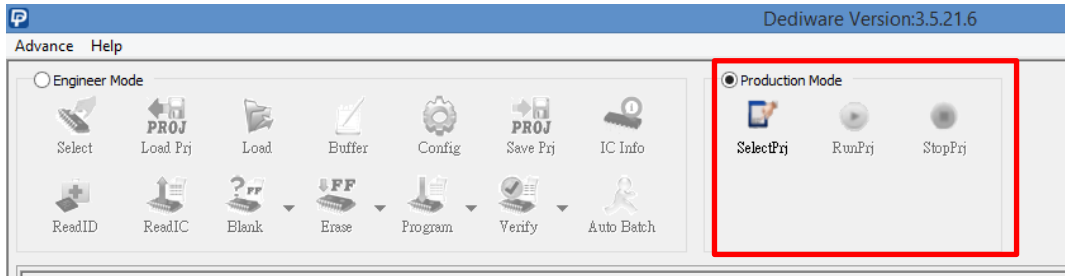
6. Save Programming project



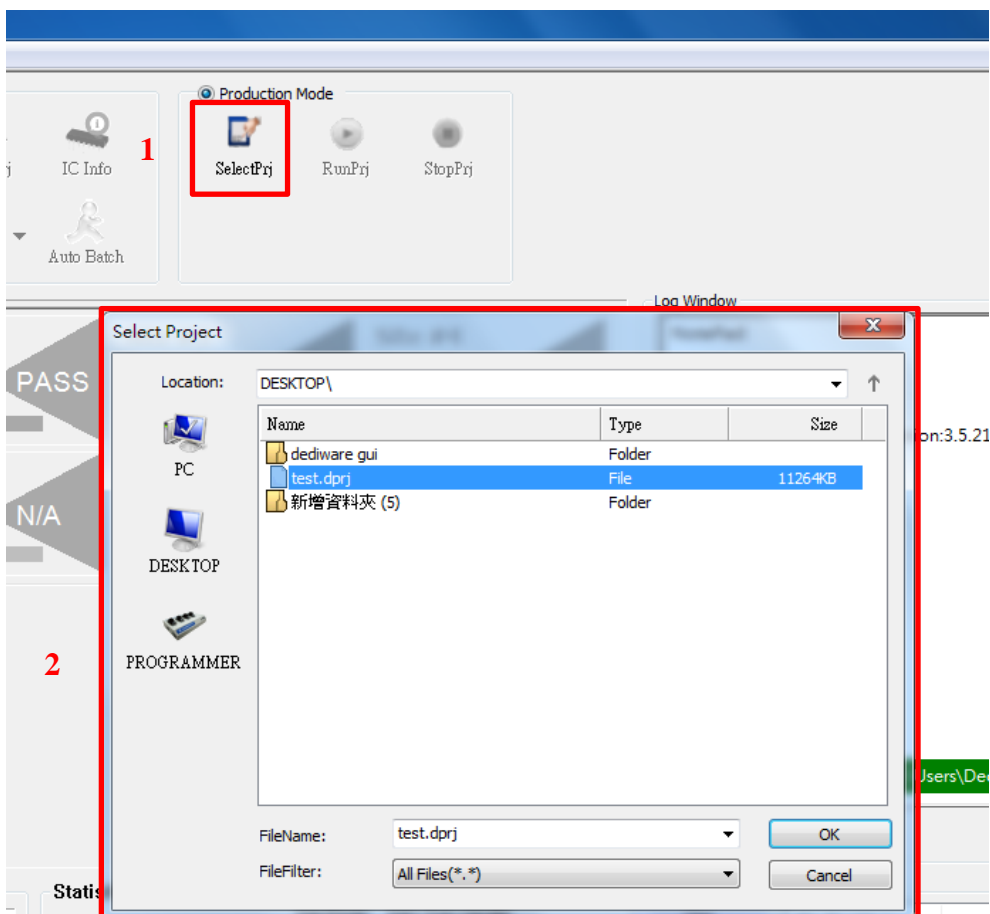
5.4 Load Project and Programming

After creating a project file, you can still take the files to other computers for programming.

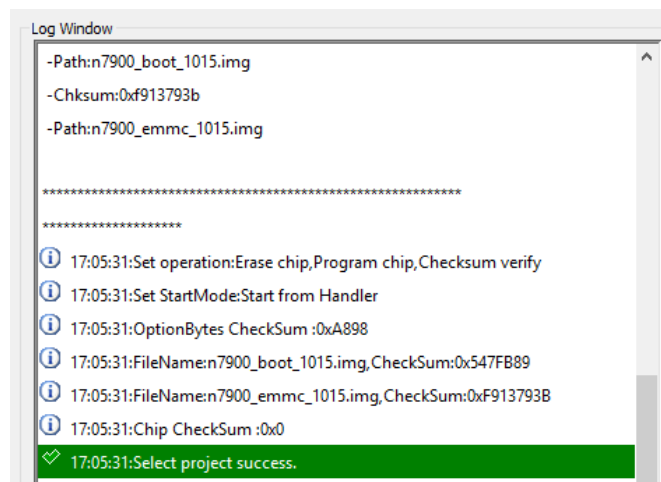
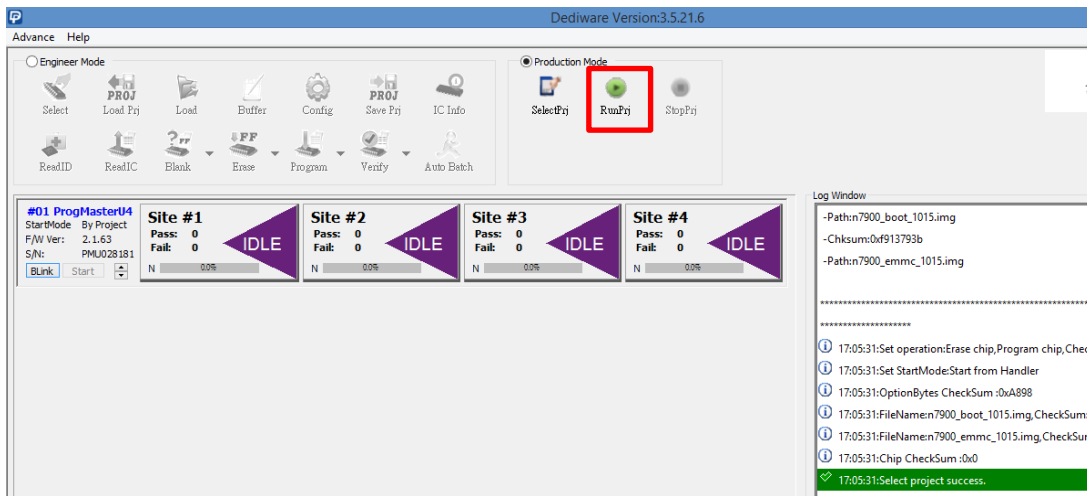
1. Open Dediware and switch to Production Mode



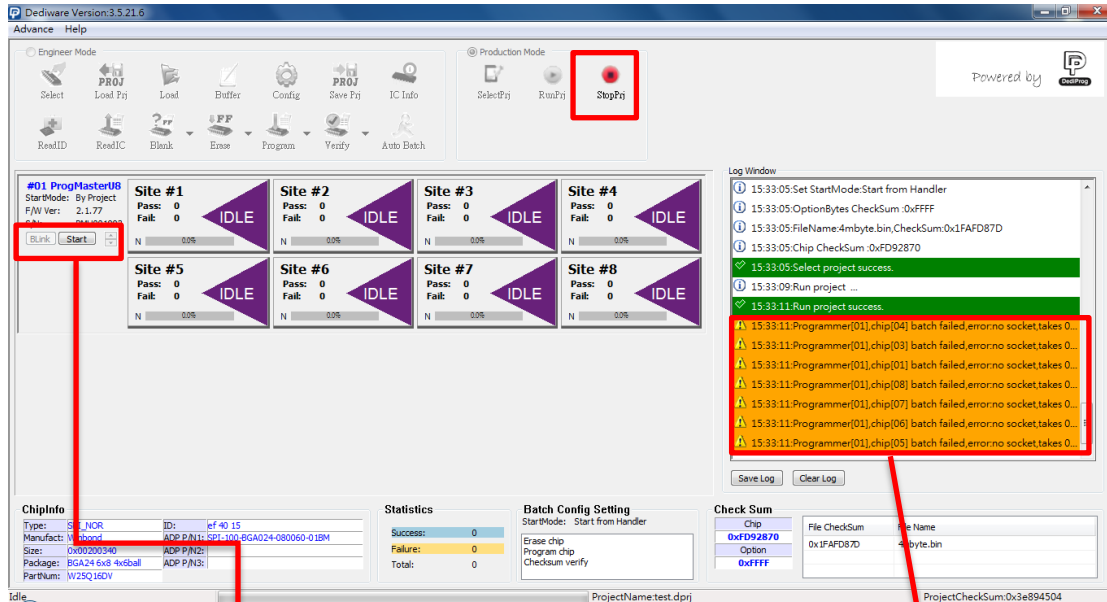
2. Load the programming project file



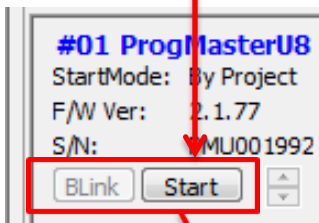
3. When the Log window appears “Select project Success,” the RunPrj icon will become available.



- Click "RunPrj," the Log window will show all the information about the socket adaptors. The yellow-marked area means the socket site is empty and it is available to use. When the "start" button on the left side become available, please wait for the automatic programming system's start signal to operate, and then start programming. Please press StopPrj to stop processing and it will also create a log file at the same time.



When the socket site is empty, then it will be yellow-marked.



When "start" button appears, please wait for the start signal on the automatic programming system to operate.

Note:

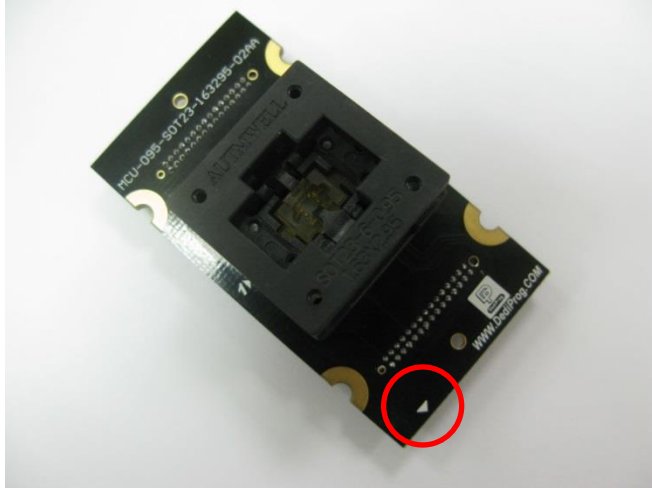
The socket adaptor must be installed properly before clicking "RunPrj." Please pay attention to the followings:

- If the socket adaptor is not connected to the programmer properly, it might cause poor connection; the Dediware will recognize it as an empty site as well. Please re-install the adaptor, and then click the SelectPrj and RunPrj to proceed.
- The programmer will not be able to recognize new socket adaptors after empty sites have been detected. Please add the other adaptors after pressing the StopPrj, and then press SelectPrj and RunPrj to restart the process.

VI. Socket Adaptor Installation

How to connect socket adaptor to a programmer?

Align the triangle index with the socket adaptor and the socket site.



Install the socket adaptor according to the below image. If it connects successfully, then you can start programming.



Note:

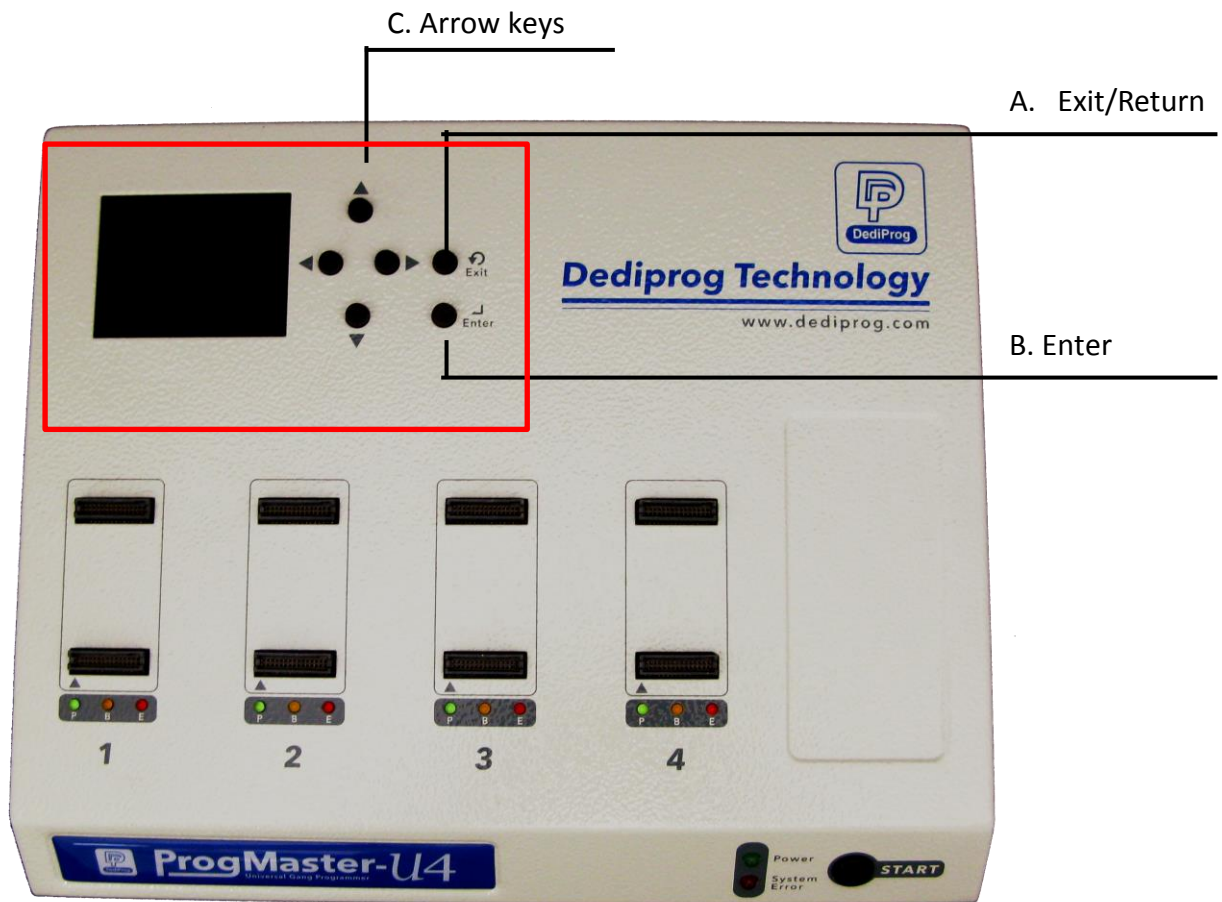
3. Improper installation may cause the damages.
4. Pick up the IC directly by hand may produce dirt or statics which may cause errors during the programming process. Therefore, please use IC picker for pickups.

VII. Stand Alone Function

There are two modes for operation: USB Mode and stand-alone Mode. When power on the programmer, it will detect the connection. It will be USB mode if it is connected to an USB. Otherwise, it will be stand-alone mode. If you want to switch to USB mode from the stand-alone mode, please turn off the power first, and then restart the programmer after plug in an USB.

※Please use the industrial SD card that DediProg provided.

6.1 LCD Keypad Panel



A. Exit/Return

Return to the last page or exit the project.

B. Enter

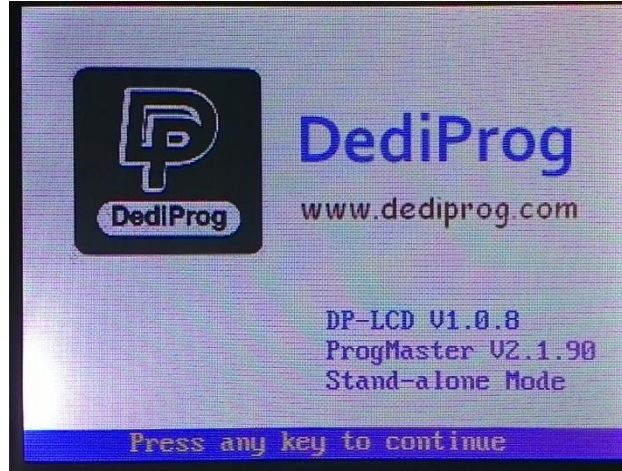
Select an item and press **Enter** to proceed.

C. Arrow Keys

When there are multiple selections on the screen, move the arrows to select.

6.2 LCD Keypad Panel and Procedures

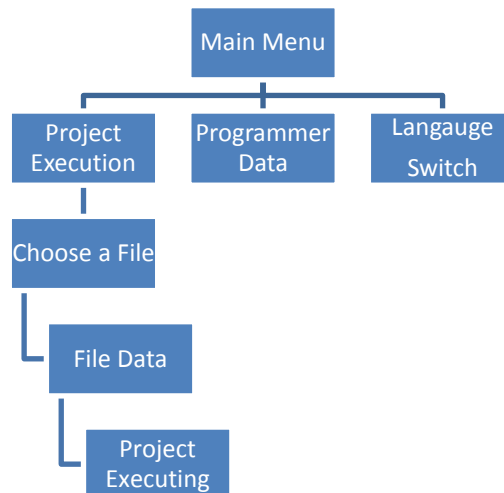
When the programmer is in stand-alone mode, it will display as the below image.



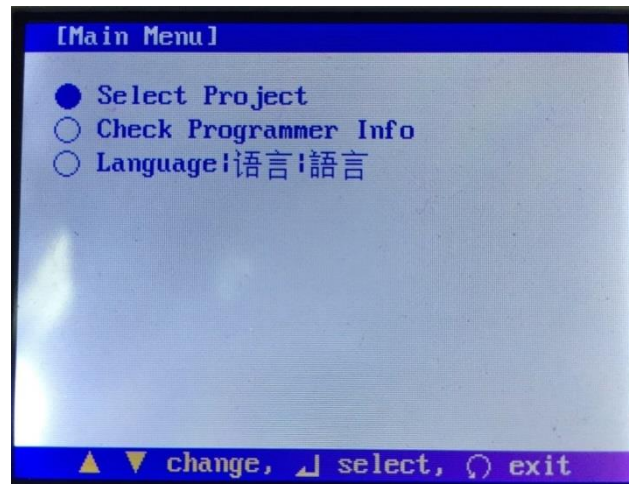
When the programmer is connected to a computer, it will display as the below image.



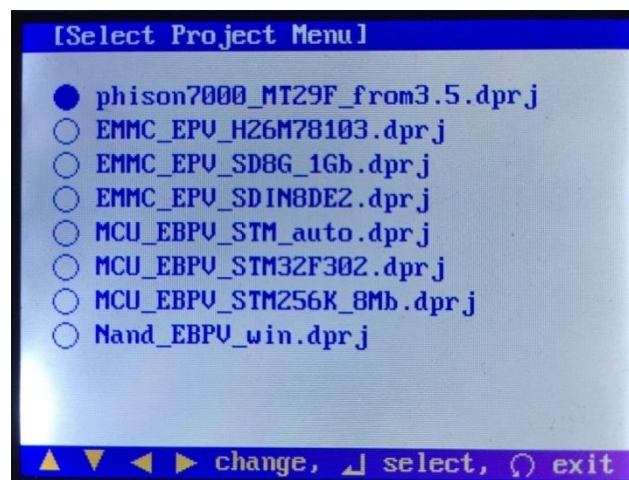
LCD keypad procedures



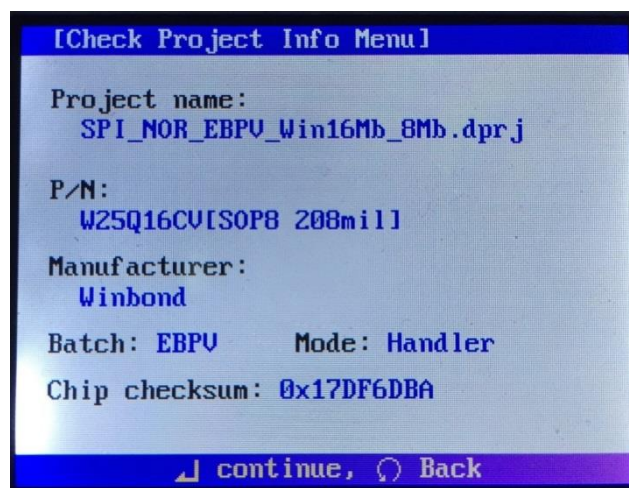
Main Menu: “Select Project”, “Check Programmer Info”, and “Language” options.



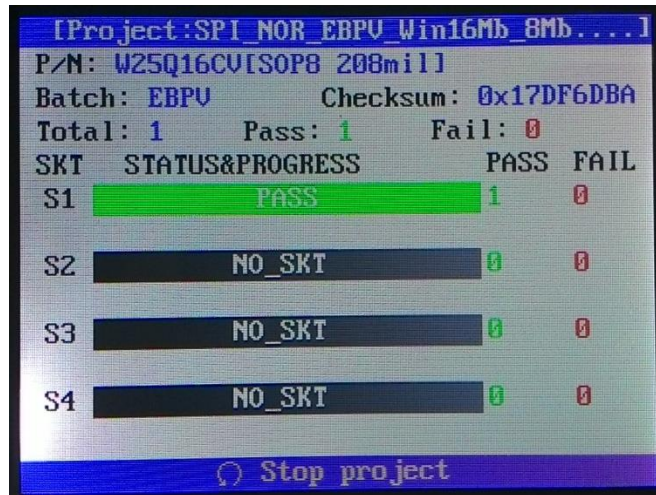
Select a Project file



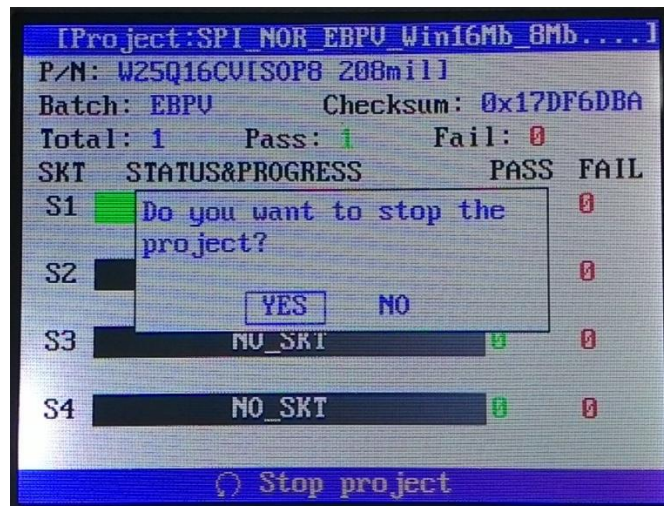
Project File Information



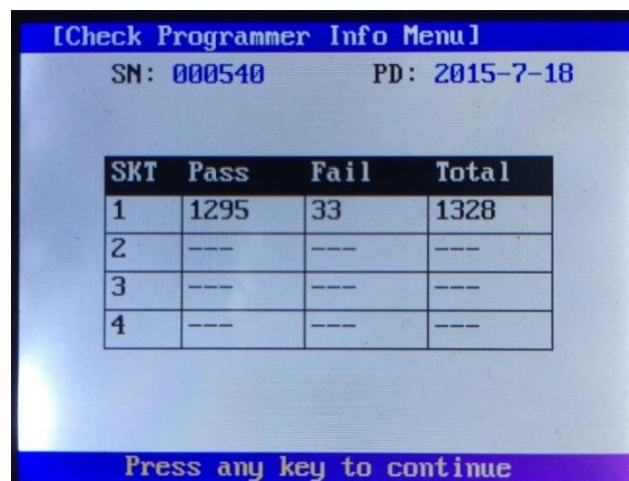
Proceed to programming; press “Manual Mode” or “Auto Detect” to begin programming.



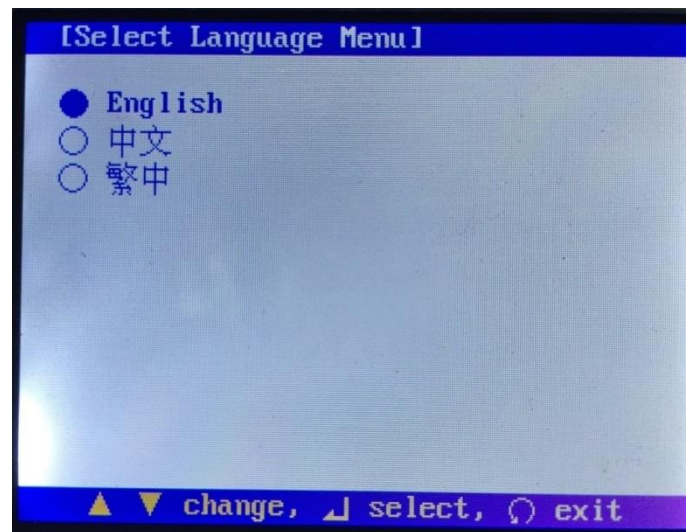
When you exit the project, it will pop-up the below message.



Programming Information: It displays the production dates, serial numbers and the socket adaptor life time.



Language Selections



6.3 Update LCD Firmware

1. Connect the programmer with PC via USB cable
2. Open Dediware (i.e. double click the shortcut on the desktop)
3. Execute menu bar "Help" → "LCD Firmware Update "
4. Select your firmware file and update. Once it is completed, restart the device

Note:

Below IC models do not support stand-alone programming:

1. Phison Series (The P/N starts with PHISON. Ex. Phison_S34ML01G200TFI00.
2. TI C2000 Series (EX. TMS320xxx).
3. Microchip PIC32 Series.

VIII. Revision History

Date	Version	Changes
08/28/13	1.0	First release
04/29/14	1.1	Supplement the socket adaptor plugging direction
07/25/14	2.0	Dediware software new version released
12/23/14	2.1	1. Dediware software New UI
01/15/15	3.0	1. Add Standalone function 2. Add LCD keypad description and usage
12/28/15	3.1	LCD Keypad and exterior/Dediware Installation/Product information
03/02/16	3.2	Remove F4 and F8

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