



## Gang Programmer SuperPro-6104-GP Quick Start Guide for Production Operators

### Procedure A Starting Up

- Connect programmer to AC power source through the supplied AC adapter.
- Connect programmer to a USB port on the computer.
- Power up programmer
- Wait about 10 seconds for the computer to find the programmer USB S/W driver.
- Invoke SuperPro-6104-GP Software, which displays this screen:

The screenshot shows the 'multi-programmer' software interface. At the top is a menu bar with icons for Connect, DisConnect, Setting, Auto, Stop, About, and Quit. Below the menu bar is a 'Status' section with four rows, each with a radio button, a 'Message' field, and a 'Serial Number' field. A 'Waiting...' dialog box is overlaid on the status section, displaying 'Connecting...' and a globe icon. At the bottom left is an 'Output' window showing the following text:

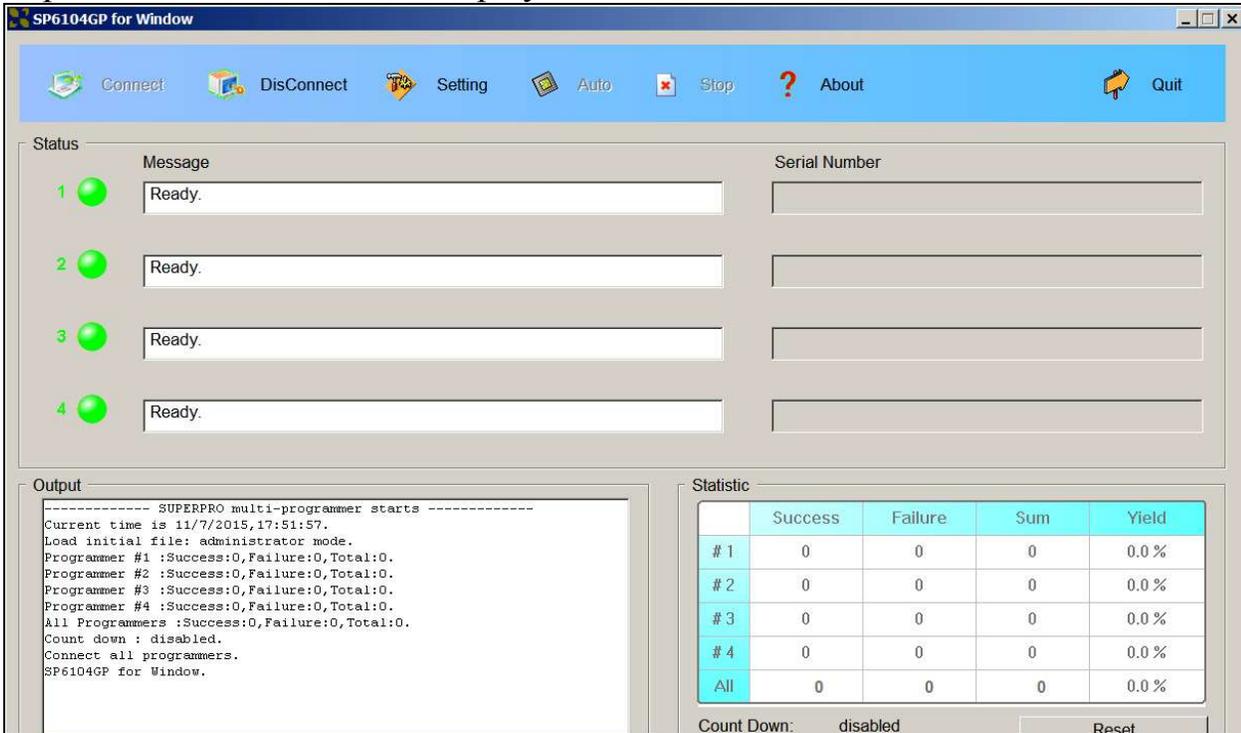
```
----- SUPERPRO multi-programmer starts -----  
Current time is 11/7/2015,17:51:57.  
Load initial file: administrator mode.  
Programmer #1 :Success:0,Failure:0,Total:0.  
Programmer #2 :Success:0,Failure:0,Total:0.  
Programmer #3 :Success:0,Failure:0,Total:0.  
Programmer #4 :Success:0,Failure:0,Total:0.  
All Programmers :Success:0,Failure:0,Total:0.  
Count down : disabled.  
Connect all programmers.
```

At the bottom right is a 'Statistic' table:

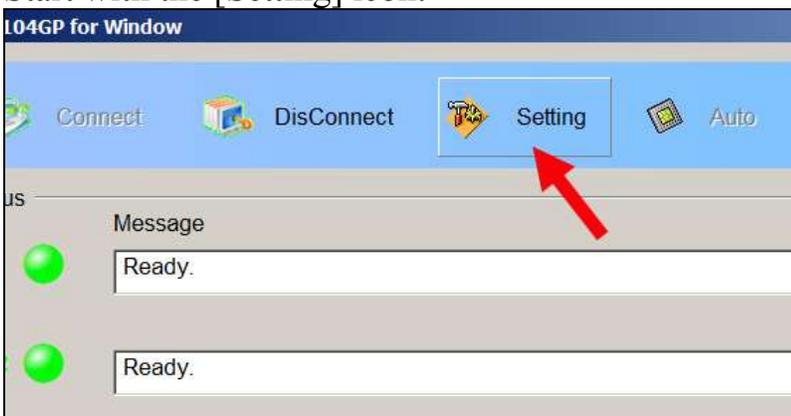
|     | Success | Failure | Sum | Yield |
|-----|---------|---------|-----|-------|
| # 1 | 0       | 0       | 0   | 0.0 % |
| # 2 | 0       | 0       | 0   | 0.0 % |
| # 3 | 0       | 0       | 0   | 0.0 % |
| # 4 | 0       | 0       | 0   | 0.0 % |
| All | 0       | 0       | 0   | 0.0 % |

Below the table, it says 'Count Down: disabled' and has a 'Reset' button.

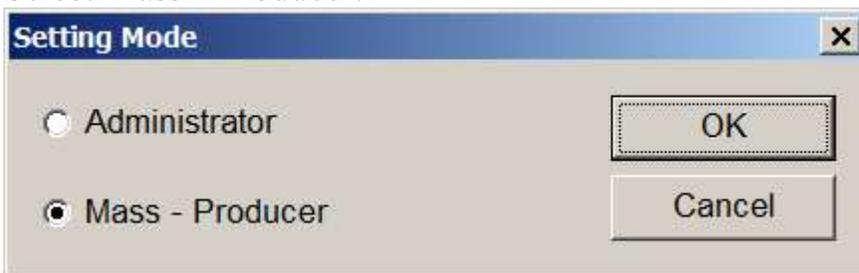
The software should be able to find the four independent programmers within the SuperPro-6104-GP and then displays:



Start with the [Setting] icon:

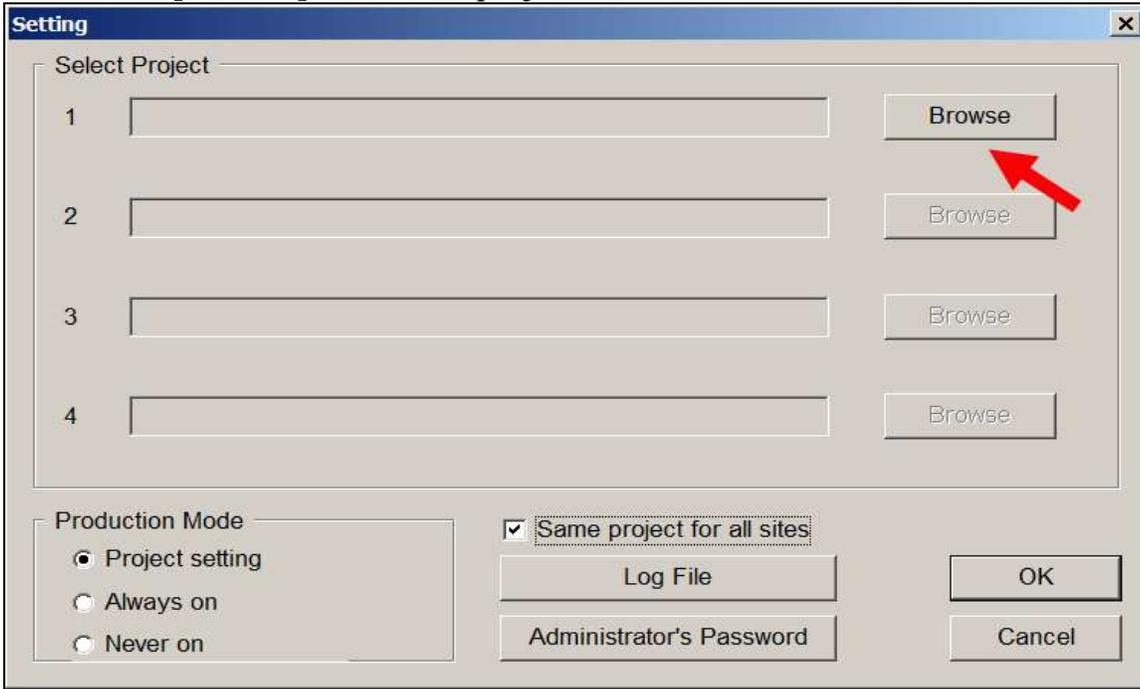


Select Mass – Producer:

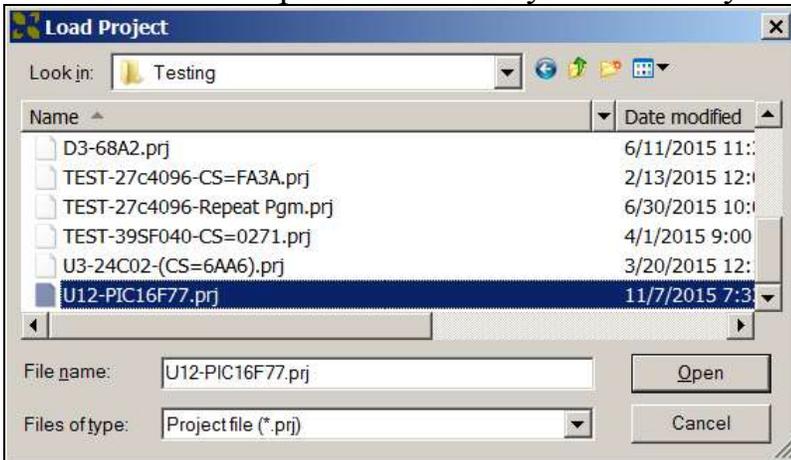


## Procedure B: Select a Project Files

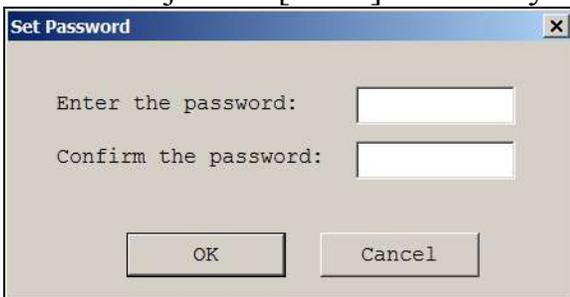
For the most common operations, leave [Same project for all sites] checked. Then click [Browse] to select a project file.



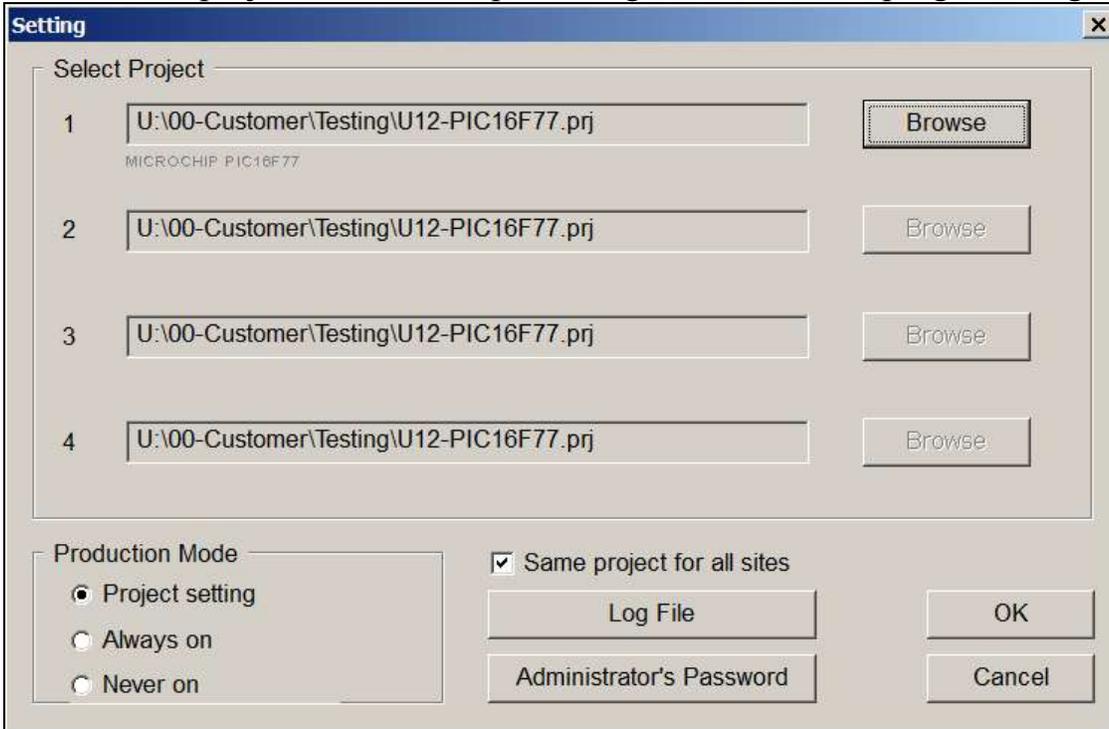
A browse screen opens and allows you to select your project file:



If the administrator has used a password, then you need to enter it here. Otherwise just hit [Enter] on the keyboard, or click [OK] with the mouse.



The selected project file shows up as being used at all four programming sites:



You can click [OK] to get out of the [Setting] screen.

## Procedure C: Programming the IC Devices

We are ready to program the IC devices now.

Load one or more of the programming sites with the IC devices for the selected project.

Clicking [Auto] will invoke the auto-sequence as setup in the project file.



The software shows the progress:

**Status**

| Message                               | Serial Number |
|---------------------------------------|---------------|
| 1 MICROCHIP PIC16F77 Checksum : 7AF9H |               |
| 2 MICROCHIP PIC16F77 Checksum : 7AF9H |               |
| 3 MICROCHIP PIC16F77 Checksum : 7AF9H |               |
| 4 MICROCHIP PIC16F77 Checksum : 7AF9H |               |

**Output**

```

Programmer #3 :Success:0,Failure:0,Total:0.
Programmer #4 :Success:0,Failure:0,Total:0.
All Programmers :Success:0,Failure:0,Total:0.
Count down : disabled.
Connect all programmers.
SP6104GP for Window.
User's setting : administrator mode.
Programmer #1 :Ready.
Programmer #2 :Ready.
Programmer #3 :Ready.
Programmer #4 :Ready.
User's setting : administrator mode.
Programmer #1 :Ready.
Programmer #2 :Ready.
    
```

**Statistic**

|     | Success | Failure | Sum | Yield   |
|-----|---------|---------|-----|---------|
| # 1 | 1       | 0       | 1   | 100.0 % |
| # 2 | 1       | 0       | 1   | 100.0 % |
| # 3 | 1       | 0       | 1   | 100.0 % |
| # 4 | 1       | 0       | 1   | 100.0 % |
| All | 4       | 0       | 4   | 100.0 % |

Count Down: disabled Reset

and displays the results:

**Status**

| Message    | Serial Number |
|------------|---------------|
| 1 Success. |               |
| 2 Success. |               |
| 3 Success. |               |
| 4 Success. |               |

**Output**

```

Programmer #3 :Success:0,Failure:0,Total:0.
Programmer #4 :Success:0,Failure:0,Total:0.
All Programmers :Success:0,Failure:0,Total:0.
Count down : disabled.
Connect all programmers.
SP6104GP for Window.
User's setting : administrator mode.
Programmer #1 :Ready.
Programmer #2 :Ready.
Programmer #3 :Ready.
Programmer #4 :Ready.
User's setting : administrator mode.
Programmer #1 :Ready.
Programmer #2 :Ready.
    
```

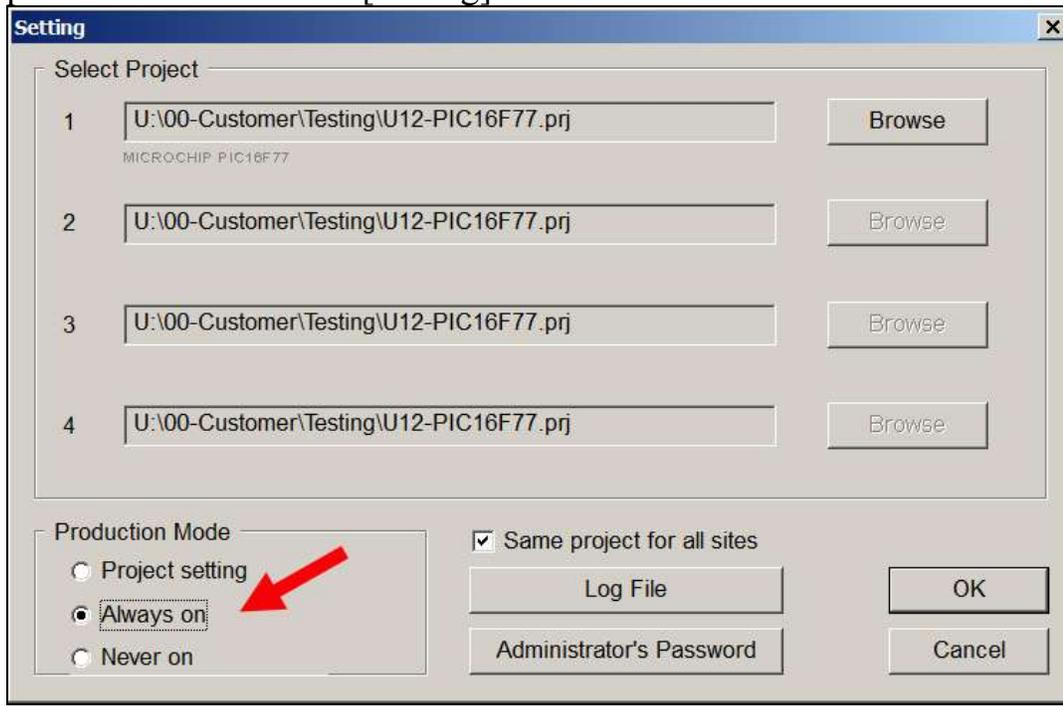
**Statistic**

|     | Success | Failure | Sum | Yield   |
|-----|---------|---------|-----|---------|
| # 1 | 2       | 0       | 2   | 100.0 % |
| # 2 | 2       | 0       | 2   | 100.0 % |
| # 3 | 2       | 0       | 2   | 100.0 % |
| # 4 | 2       | 0       | 2   | 100.0 % |
| All | 8       | 0       | 8   | 100.0 % |

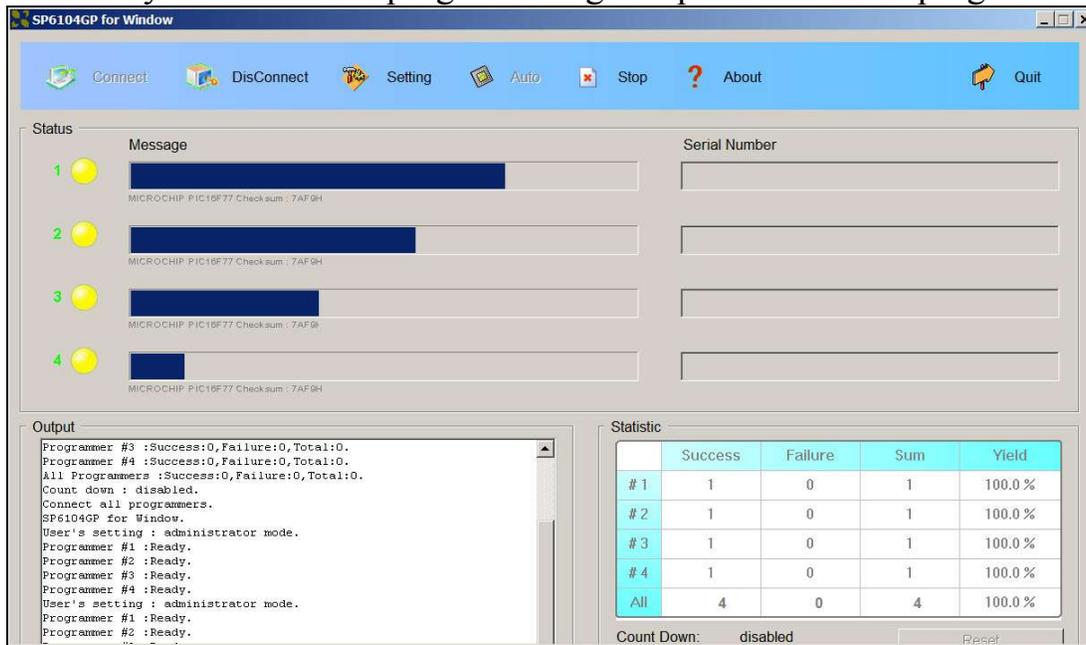
Count Down: disabled Reset

## Procedure D: Programming IC Devices in Production Mode

If the project file has specified [Production Mode], or if you have elected to use production mode in the [Setting] screen:

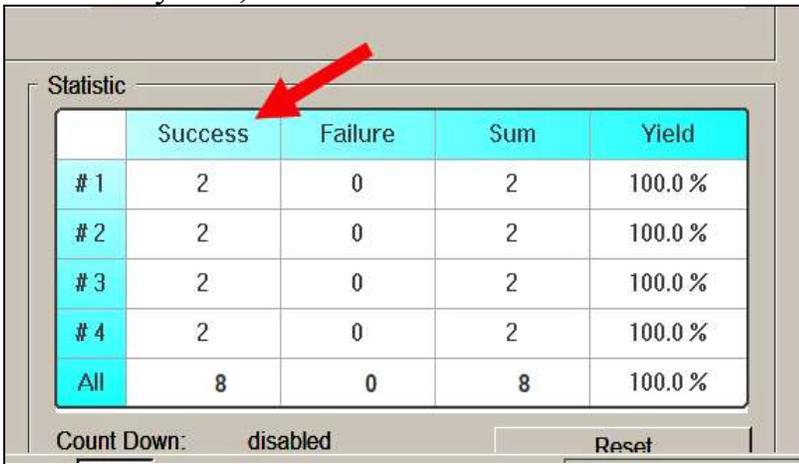


then each socket will start programming as soon as it has been loaded with a chip. In this case you will see the progress being independent at each programming site:



When a chip has finished, you can unload it and put in another chip, without doing anything with your keyboard or mouse.

With the help of the counters in the statistics display, you can decide when a job has been completed. If the failure counts are abnormally high or the yield percentage is abnormally low, it would be cause for alarm.



The screenshot shows a window titled "Statistic" containing a table with the following data:

|     | Success | Failure | Sum | Yield   |
|-----|---------|---------|-----|---------|
| # 1 | 2       | 0       | 2   | 100.0 % |
| # 2 | 2       | 0       | 2   | 100.0 % |
| # 3 | 2       | 0       | 2   | 100.0 % |
| # 4 | 2       | 0       | 2   | 100.0 % |
| All | 8       | 0       | 8   | 100.0 % |

Below the table, there is a "Count Down:" label with the value "disabled" and a "Reset" button. A red arrow points to the "Success" column header in the table.

## Procedure E: Exiting Software

To quit, click the [Quit] icon at the upper right corner of the screen:

