Silicon Works

SiWDaemon™ User's Guide Version 1.0

August 7, 2015

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Contents

Preface

1.1 What is SiWDaemon?

S / W tool is to make end user to easily adjust the settings of SiWDaemonTM. SiWDaemonTM is the controller and the USB or operatively connected by COM port.

1.2 SiWDaemon Features

- **Calibration**

  Calibrate touch screen coordinate error (coordinate error between touch panel and monitor)

- **TSP – Monitor Mapping**

  Touch event on the touch panel by a specific monitor.

- **Beep Setting**

  Setting beeping request and attribute when in touch event

- **Mouse Setting**

  This is a touch event which is relevant to operation settings. If you use Windows 7 & 8, some menus are available when emulation is selected

- **Touch Setting**

  Possible to setting for the touch, Palm Rejection, Sensitivity etc...

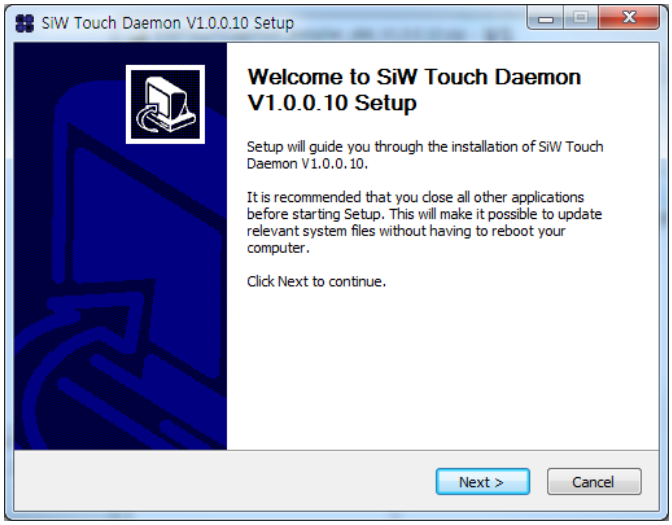
Getting Started

2.1 Installation

Please follow the below instruction step by step to install SiWDaemon™

1. Install SiWDaemon
   - SiWTouchDaemon_Installer_x86_Vx.x.x.x.exe (For 32 bit)
   - SiWTouchDaemon_Installer_x64_Vx.x.x.x.exe (For 64 bit)

Notice: When in the end of installation process on POSReady2009 or Windows XP, it must to be reboot unless it cannot operation normally.



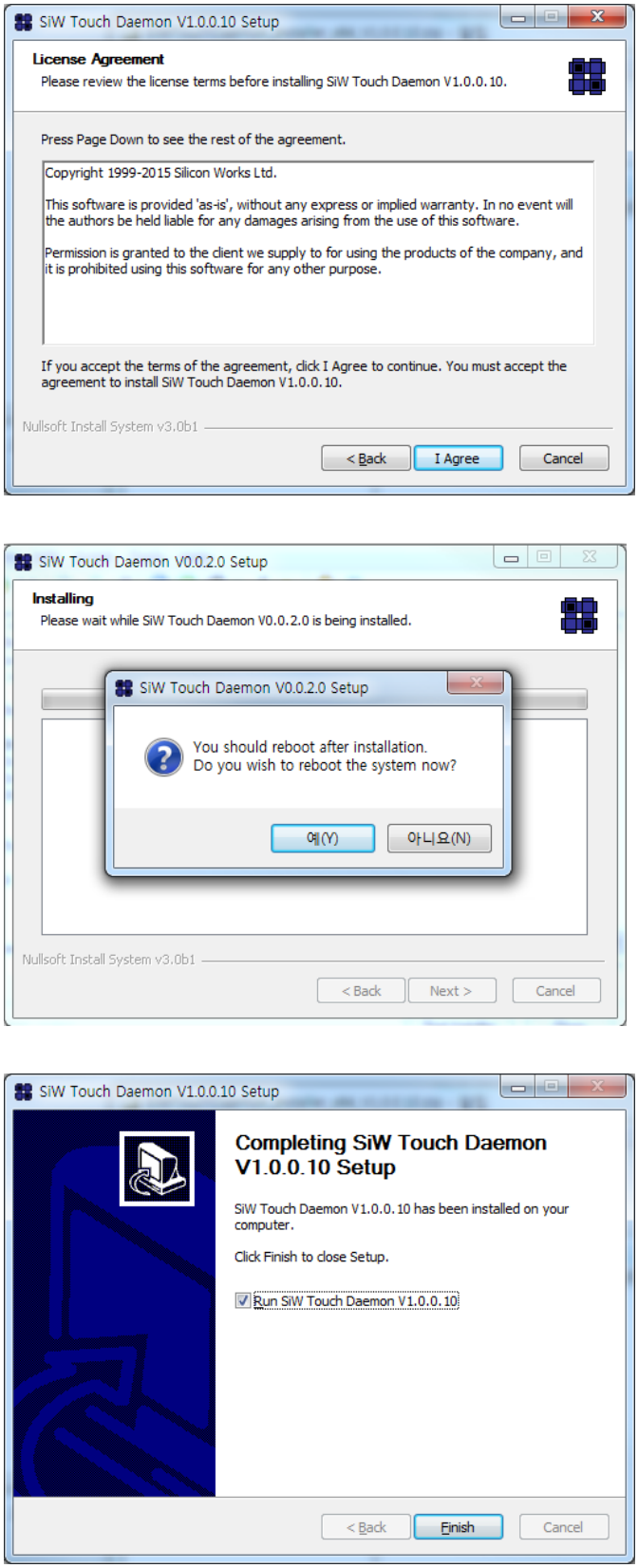


Figure 1. Installation

Function Description

3.1 SiW Daemon Control Panel

Function of SiWDaemon™ Control Panel are as following :

3.1.1. Device

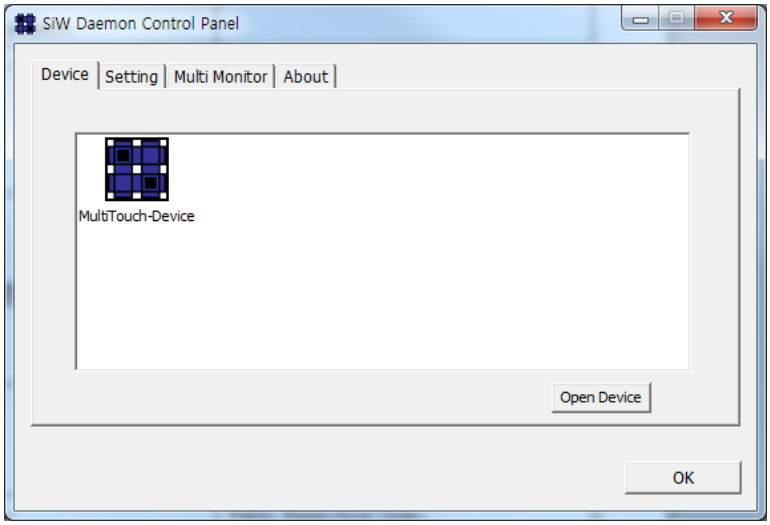


Figure 2. Device tap

The Device tab of the Control Panel would be showed by the connected device name and the icon..

Double-click the icon, and then select the icon by clicking the 'Open Device' button settings for the device window is PopUp.

3.1.2. Setting

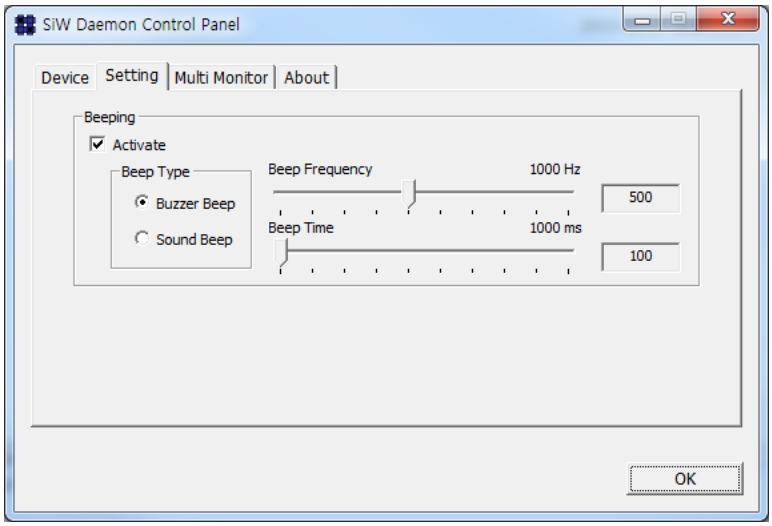


Figure 3. Setting tap

In the Setting tab of the Control Panel, you can change the system-related settings.

About the buzzer beep and sound been, it is changeable.

- Buzzer Beep: System is using the Built-in speaker
- Sound Beep: Using the sound card
- Beep Frequency: Pitch of Sound Beep (Buzzer Beep Only)
- Beep Time: Duration of Sound Beep (Buzzer Beep Only)

3.1.3. Multi Monitor

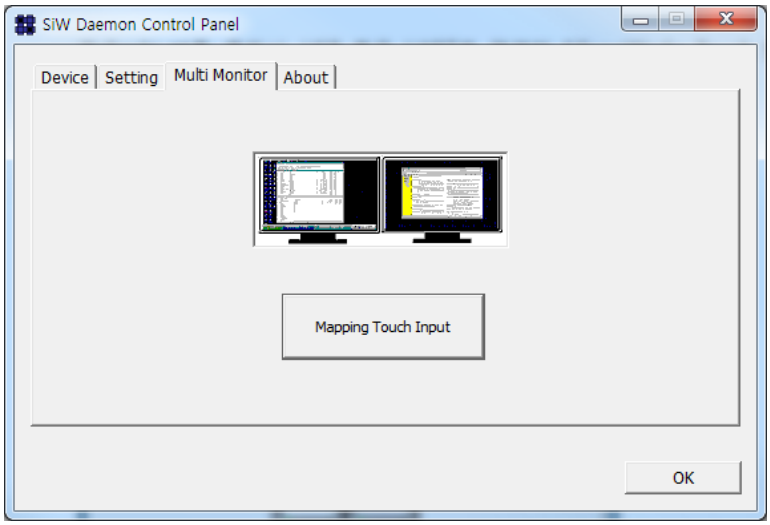
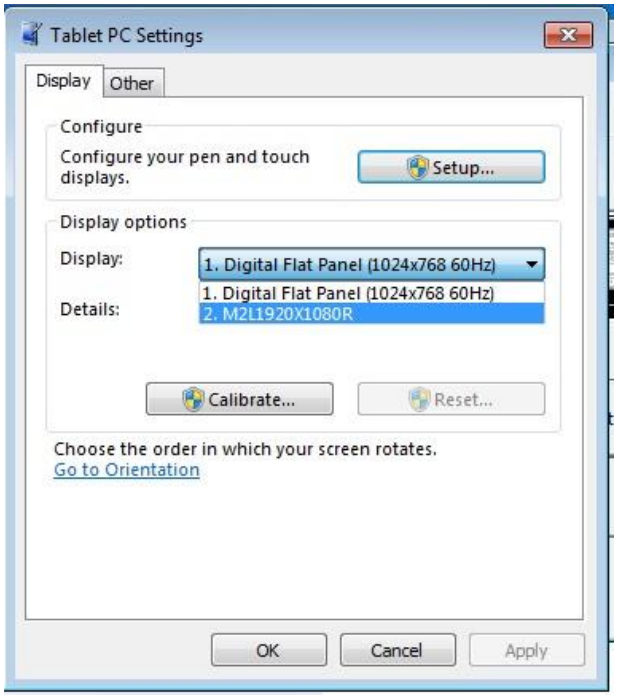
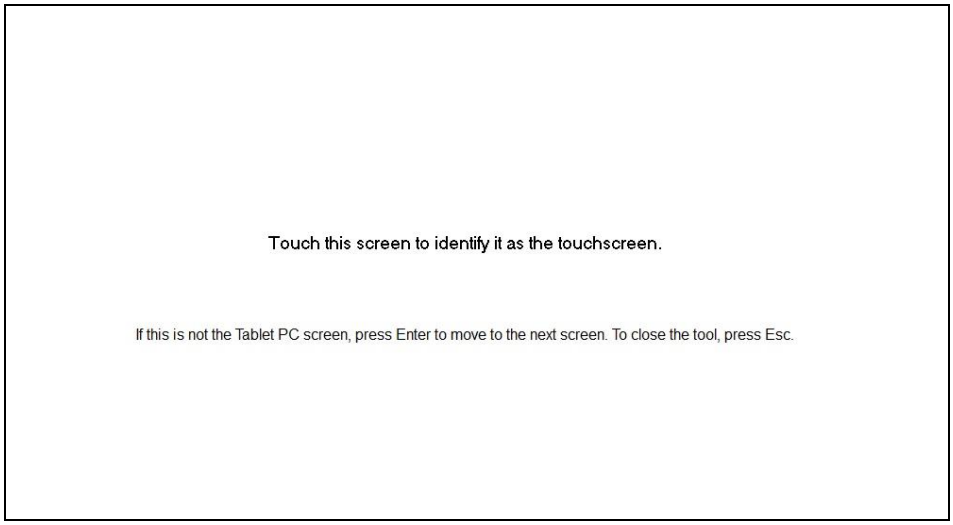


Figure 4. Multi Monitor tap

When using multi-monitor, the touch event of the connected touch screen could be assigned to any monitor. This function is able to operate at the version over windows 7



Display selection -> Setting



First, the upper screen appear in the main monitor

It is passed to next monitor after push the enter key of the keyboard.

You may touch the screen on the target monitor you want to set touch event mapping.

3.1.4. About

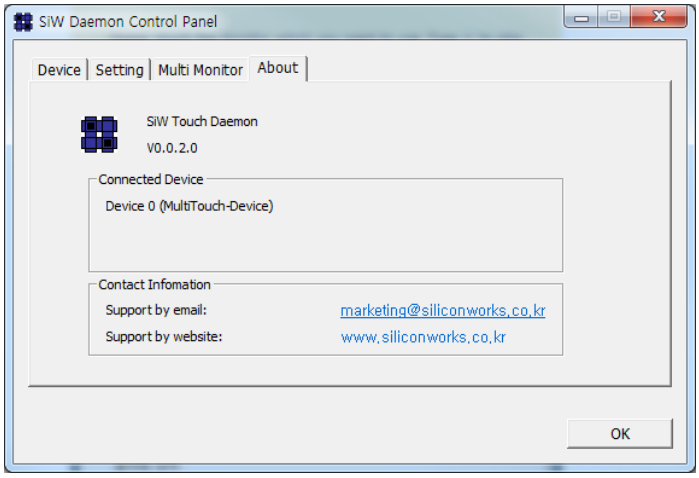


Figure 5. About tap

You can confirm the connected device name and version information of the SiWDaemonTM S / W Tool.

3.2 Device Settings Panel

With associated menu for detailed settings for a touch screen device that functions is as follows.

3.2.1. Calibration

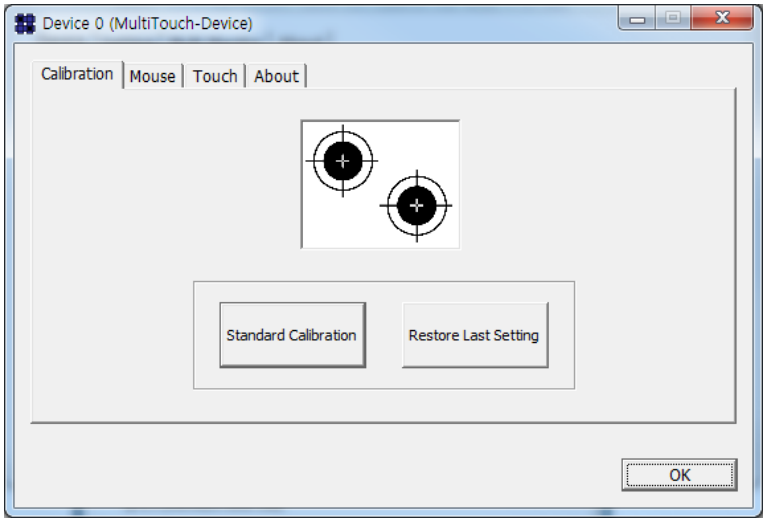
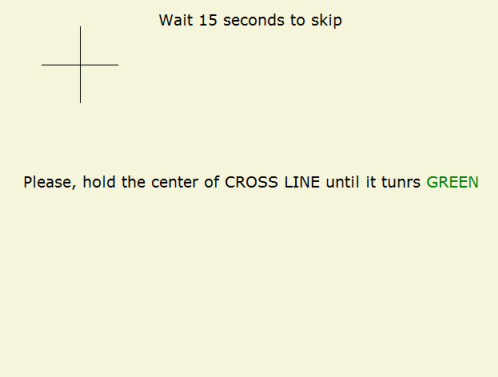


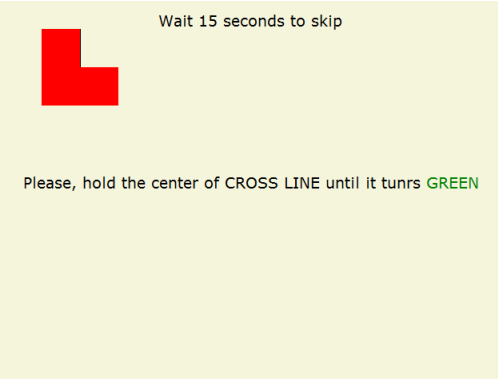
Figure 6. Calibration tap

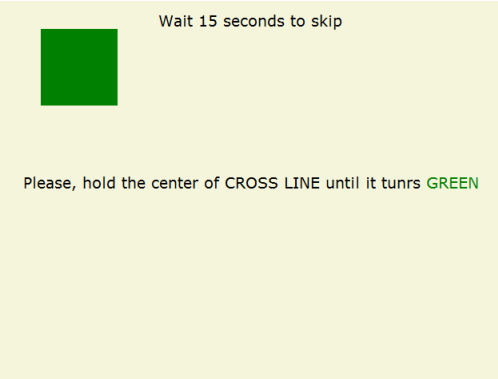
To correction the coordinate error between touch panel and monitors

- Standard Calibration : Coordinates Display Calibration
- Restore Last Setting : Recovery to the previous coordinate calibration

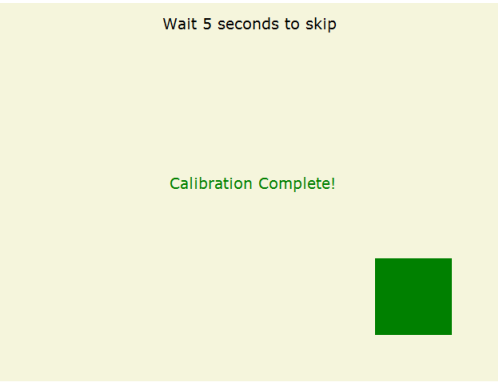


If you touch the center of the first calibration point and keep you finger there, it will showed red and after it's finished, it will turned into green.





If you touch the center of the second calibration point and keep you finger there, it will showed red and it's will also turned into green when it's finished, indicates the coordinate calibration is complete.



3.2.2. Mouse

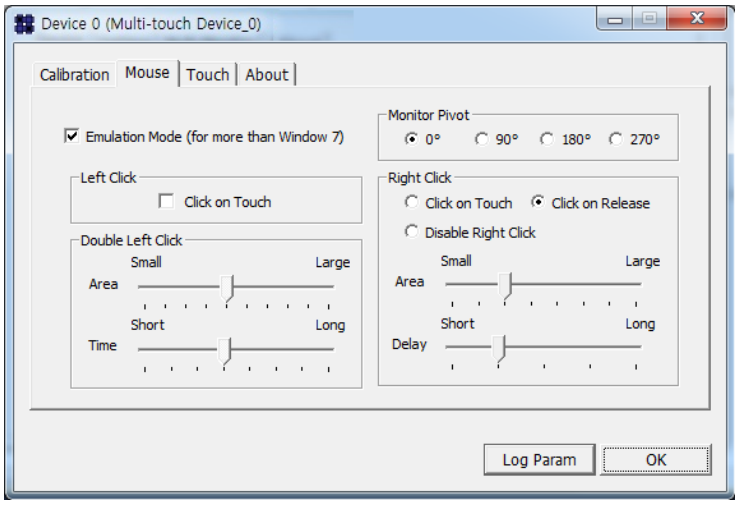


Figure 7. Mouse tap

Provides mouse-related settings menu.

- Emulation Mode : 1 touch mouse mode at multi-touch offered windows version (over 7)
- Click on Touch
  - check : mouse left button click on touch
  - non-check : mouse left button click on release
- Double Left Click : Double click the left mouse button related adjustment
  - Area : Adjust the range between the first and second clicks for a double click
  - Time : Adjust the time interval between the first and second clicks for a double click
- Right Click
  - Click on Touch : The right-click menu displayed in touch - Click on Release : when touch the right-click menu displayed, then touch released
  - Area : Adjust the right-click menu can be displayed touch area (If the area smaller the right side of the menu is difficult to loading)
  - Delay : When the touch events displays, the time of right-click menu delay time adjustment
- Monitor Pivot - 0°, 90°, 180°, 270°

3.2.3. Touch

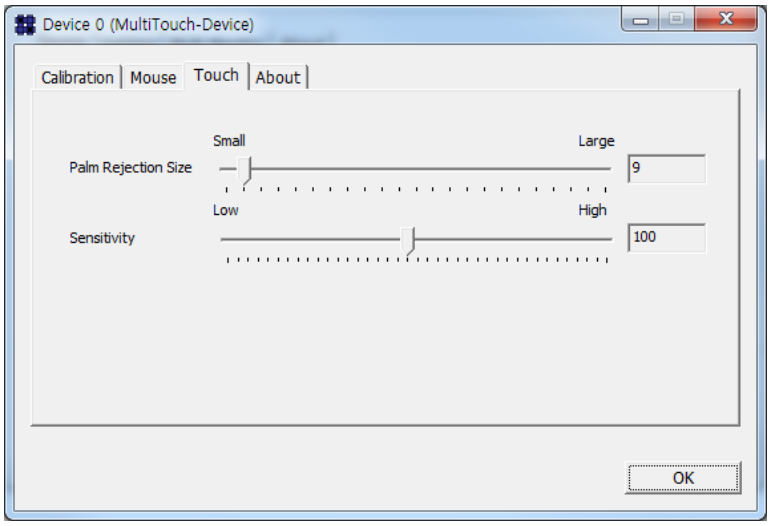


Figure 8. Touch tap

Provides a touch-related settings menu.

- Palm Rejection Size : The size of the area size by hand to be excluded from the touch event
- Sensitivity : Touch Sensitivity (lower value is more sensitive)

If Device PROTOCOL = 1, enable UART Data Log

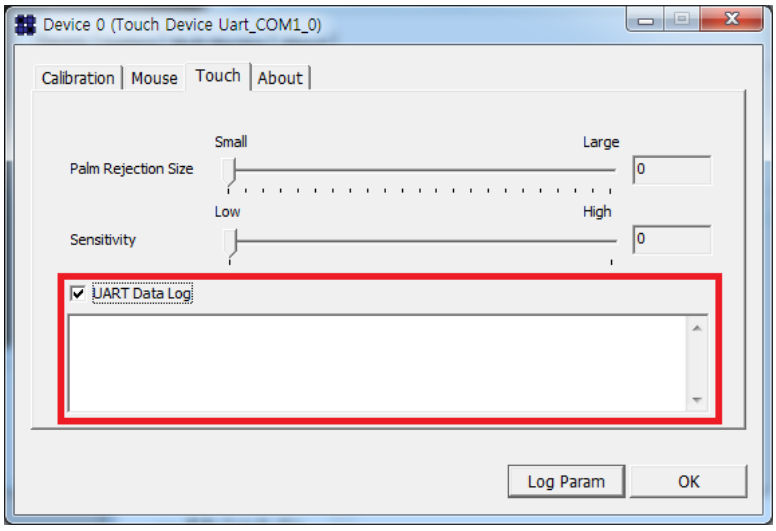


Figure 9. UART Data Log

It can be seen event datas sent from the device.

3.2.4. About

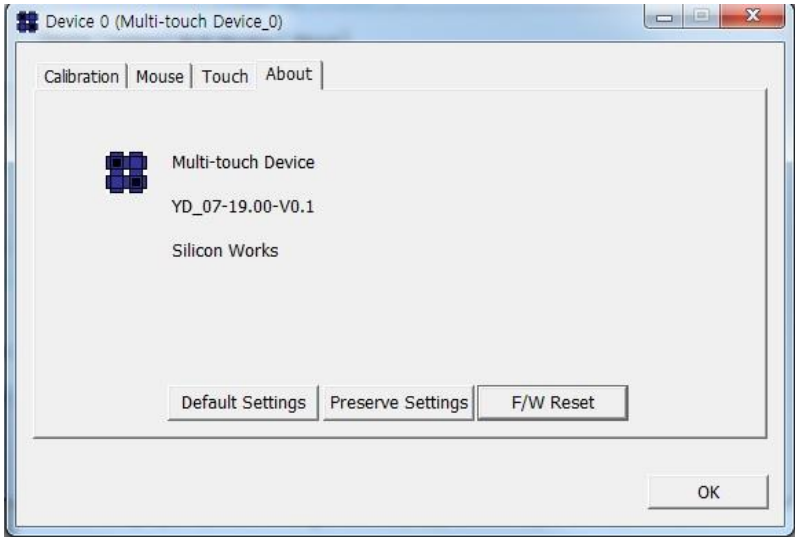


Figure 10. About tap

To display detailed information for an associated touch screen devices.

Touch screen device name, device firmware, device manufacturers name is displayed.

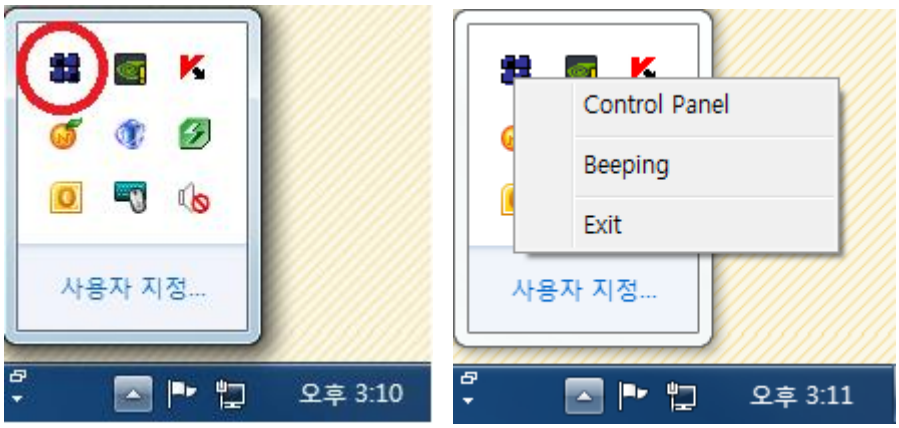
- Default Settings : Restore the current settings in the firmware, the initial value.
- Preserve Settings : Stores the current settings in non-volatile memory. The hard disk on the system need to be changed then current setting is preserved.
- F/W Reset : Touch IC power off/on

3.3 Tray Menu

Automatically at system startup drive is registered when running the Tool Tray menu.

If you double-click then the Control Panel icon would be PopUp.

The context menu is displayed when you click the right mouse button on the icon.



- Control Panel : Display the Control Panel
- Beeping : Beep sound occurrence (when checking it, the Beep sound would be generated)
- Exit : Daemon Tool termination

3.4 UART Mode

The "Preference" folder in the installation directory..

- EX) C:₩SiW Touch Daemon₩Exe₩Preference

Open "Daemon_Vx.x.x.x.ini" file.

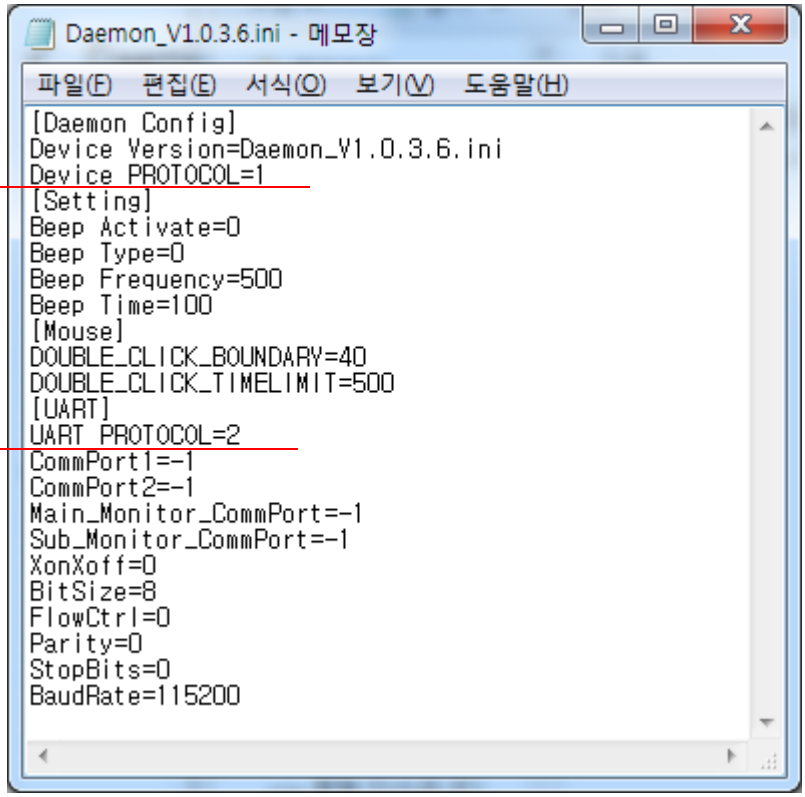


Figure 11. Daemon_Vx.x.x.x.ini file

Modifying Device PROTOCOL to 1 and restart the Daemon operates as UART mode.

- Device PROTOCOL = 0 : USB Mode
- Device PROTOCOL = 1 : UART Mode

Currently, there are two UART protocol.

- UART PROTOCOL = 1 : Current UART Protocol
- UART PROTOCOL = 2 : Renewal UART Protocol

Commport Setting

- CommPort = -1: largest number connection after auto port detection
  : If Main_Monitor_Commport is not -1, it map to Main monitor.
  : If Sub_Monitor_Commport is not -1, it map to Sub monitor.

- CommPort > -1: Fixed Com Port
  : Port number of the device is specified in the Main_Monitor_CommPort, Sub_Monitor_Commport is assigned to each.
  : Common UART protocol can be defined using BitSize, Parity, StopBits and BaudRate setting when CommPort is not -1

3.5 VID / PID Setting

The "Preference" folder in the installation directory.

- EX) C:₩SiW Touch Daemon₩Exe₩Preference

Open "VID&PID.ini" file.

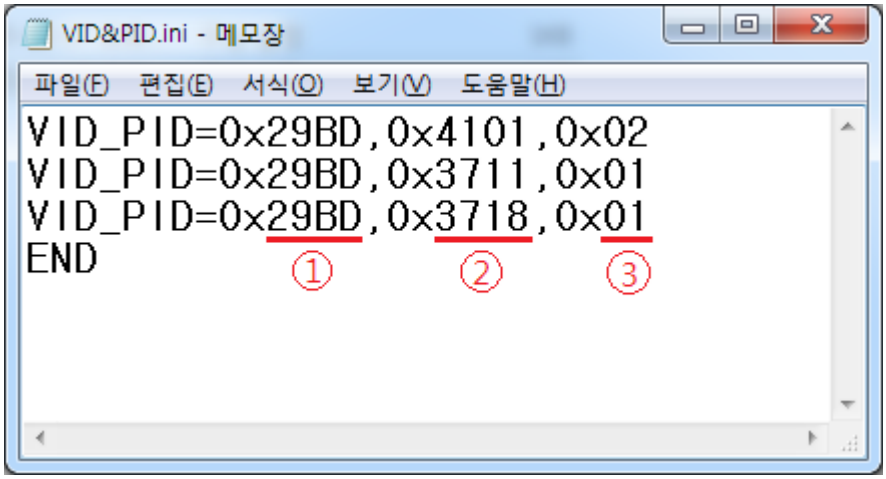


Figure 12. VID&PID.ini file

Fixed Format : VID_PID=0xXXXX,0xXXXX,0xXX

① VID (Hex)

② PID (Hex)

③ Parameter Format (Only 1 or 2)

1 : Using SW3711, SW3718 Parameter.

2 : Using SW4101 Paramter.

Insert the END keyword in end line.

If SiWDaemong restart, it can recognize new device of registered PID / VID, after save the .ini file.