

FabiaTech Corporation

IPC Solution

Website: <http://www.fabiatech.com>

Email: support@fabiatech.com

Flat Panel Display
FD7804 Series
User's Manual

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Technical Support

If you have problems or difficulties in using the system or setting up the relevant devices, and software that are not explained in this manual, please contact our service engineer for service, or send email to support@fabiatech.com.

Returning Your Board For Service & Technical Support

If your board requires servicing, contact the dealer from whom you purchased the product for service information. You can help assure efficient servicing of your product by following these guidelines:

- ❑ A list of your name, address, telephone, facsimile number, or email address where you may be reached during the day
- ❑ Description of you peripheral attachments
- ❑ Description of your software (operating system, version, application software, etc.) and BIOS configuration
- ❑ Description of the symptoms (Extract wording any message)

For updated BIOS, drivers, manuals, or product information, please visit us at www.fabiatech.com

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Chapter 1 Introducing the FD7804 Panel Display

Overview

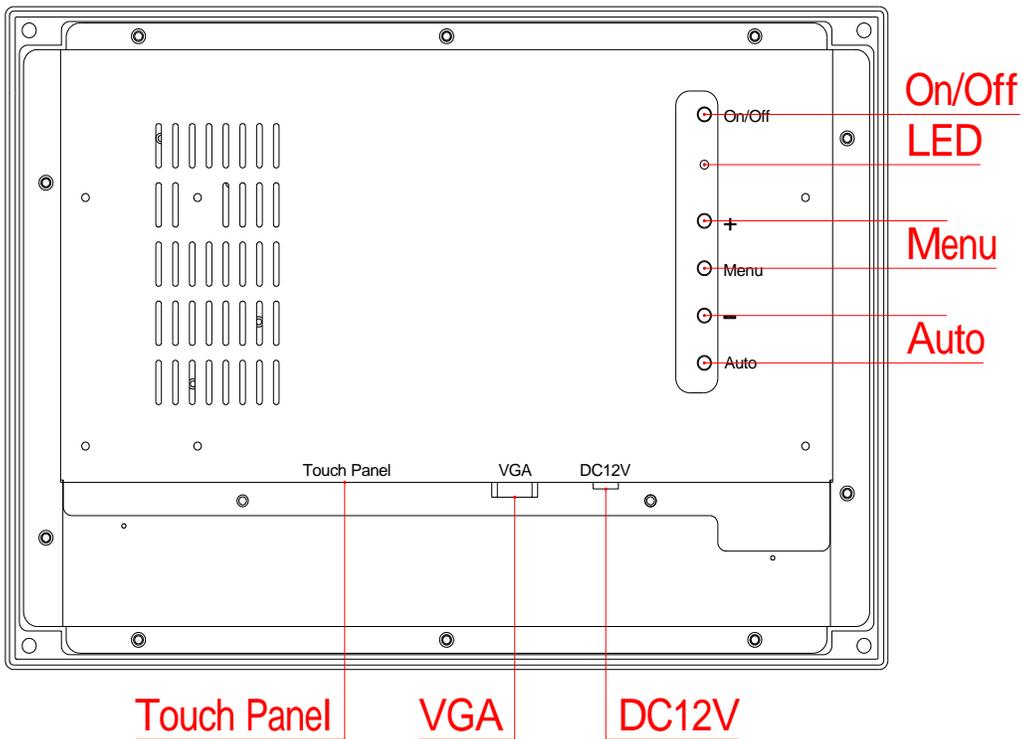
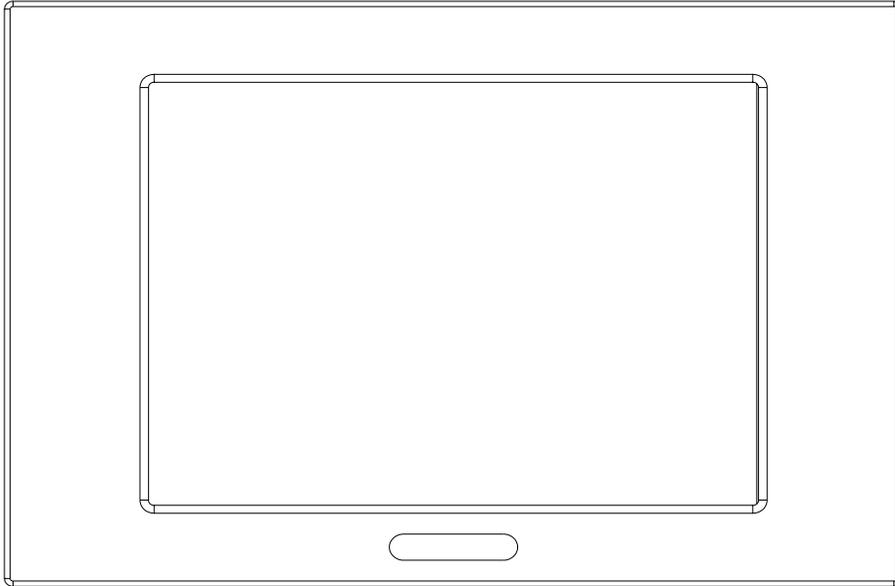
The FD7804x is a 10.4-inch TFT LCD monitor, this panel display with OSD and touch screen device (FD7804T). This user's manual provides its outlook information and I/O outlets description.

Series Comparison Table

Model	FD7804	FD7804T
Touch Panel	No	Yes
Monitor	10.4" SVGA Color	
Resolution	800x600	
Pitch	0.264x0.264	
Response Time	10/25ms	
Brightness	230cd/m2	
Contrast Ratio	500:1	
LCD Type	TFT LCD	
Color's	256K	
Power	DC12V	
Temperature	0~50 (32~122)	
Weight	2.1KG	
Dimensions (Unit: mm)	41(D) x 315(W) X 224(H)	

Layout

FD7804(T)



Specifications

□ ***FD7804***

Front panel with 10.4-inch color TFT LCD panel.

Supports up to SVGA 800x600/XGA 256K colors

Build-in OSD functions with LED indicator and 5 operation keys.

□ ***Touch screen –Only for FD7804T***

5-wire analog resistive touch screen device with PS2 or USB interface.

The PS2 interface Software support Windows 98/ME/2000/XP/DOS.

The USB interface Software support Windows 2000/XP.

□ ***Temperature***

Operating temperature 0~50 (32~122)

Storage temperature -20~60 (-4~140)

□ ***Power requirement –***

Power requirement: External 100~240V AC adapter, output +12V DC, 1.0A maximum.

□ ***Dimensions -***

FD7804/FD7804T: 40.8mm(D) x 315mm(W) x 224mm(H)

Packing List

Upon receiving the package, verify the following things. Should any of the mentioned happens, contact us for immediate service.

- Unpack and inspect the FD7804 package for possible damage that may occur during the delivery process.
- Verify the accessories in the package according to the packing list and see if there is anything missing or incorrect package is included.
- If the cable(s) you use to install the FD7804 is not supplied from us, please make sure the specification of the cable(s) is compatible with the FD7804 system.

Note: after you install the FD7804, it is recommended that you keep the diskette or CD that contains drivers and document files, and keep the document copies, or unused cables in the carton for future use.

The following lists the accessories that may be included in your FD7804/ package. Some accessories are optional items that are only shipped upon order.

- One FD7804 industrial LCD monitor
- One AC to DC12V power adapter and 1 AC power code.
- One VGA adaptor cable with 1.8M length
- One pack of 4 pair mounting screws
- One touch pen and One PS2 or USB adapter cable with 1.8M length. (FD7804T only)
- One compact disc includes touch screen driver software.

Chapter 2 Hardware Installation

This chapter introduces the system connectors and guides you to apply them for field application.

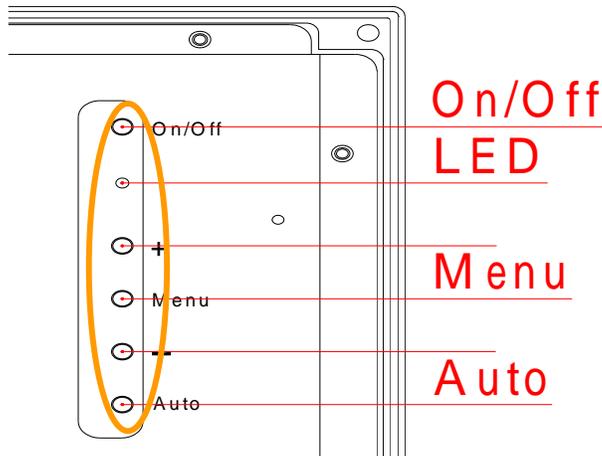
Before Installation

Before you install the system, make sure you follow the following descriptions.

1. Plug the power cable into the AC-DC Power adapter you PC/IPC and LCD monitor before connecting your LCD monitor to the computer.
2. Turn off you PC/IPC and LCD monitor before connecting your LCD monitor to the computer.

□ **Keypad (Real View)**

Your LCD monitor allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the front of the monitor. While you use these buttons to adjust the controls, an OSD shows you their numeric values as they change.



Item	Description
ON/OFF	1. Turns the Power on or off for the LCD Driver board. 2. Indicates the LED status of the monitor. z Green: Normal operation. z Amber: Power saving mode or disconnected signal cable.
+ -	1. Moves the selector left or right on the OSD. 2. Increases or decreases the values of the selected function.
MENU	1. Turn the OSD menu on. 2. Moves the selector down on the OSD.
AUTO	1. "Auto" allows the monitor to self-adjust to the incoming video signal in OSD off. The values of fine, coarse and position are adjusted automatically. 2. Moves the selector up on the OSD.

➤ **Out of Scan Range:**

If the horizontal or vertical or both input signal frequency exceed the acceptable input frequency range, the monitor keeps indicating the "OUT OF SCAN RANGE" as the OSD information after 2 seconds. If both input signal frequencies are in the acceptable frequency range, the monitor puts out the OSD indication and goes back to normal state. Horizontal frequency: 31KHz ~ 60KHz. Vertical frequency: 60Hz ~ 75Hz.



➤ **No Input Signal:**

If horizontal and vertical input signals are not exist, the monitor displays OSD information "NO INPUT SIGNAL" 3 seconds, and then goes to power save.



➤ **Accessing the menu system**

1. With the OSD off, push the Menu button to display the main OSD menu.
2. Use "MENU/AUTO" buttons to select the function.



3. After selecting a function, use the "UP/DOWN" buttons to make necessary adjustments. The setting bar moves and the numeric value indicator changes to reflect your adjustments.

➤ **Entry factory mode**

1. AC power on.
2. Press power key to power tune off. If power on.
3. Press menu key and don't release.
4. Press power key to power tune on.
5. Release menu key.

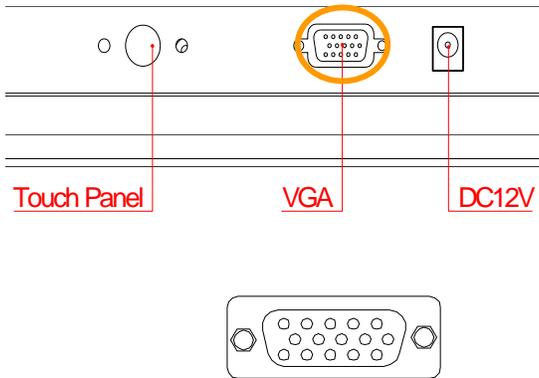
➤ **OSD Description :**

Auto adjust	Auto adjusts H/V position, clock and phase.
Brightness	Adjust brightness by inverter.
Contrast	Adjust image contrast.
Clock	The clock adjustments allow you to coarse tune the image quality of your monitor to your preference.
Phase	The Phase adjustments allow you to fine tune the image

	quality of your monitor to your preference.
H-Position	Move the image horizontally.
V-Position	Move the image vertically.
Reset	Recall default data.
Color temperature	Select color temperature. 1. User: User customizable. 2. 6500K: Reddish white. 3. 7500K: Plain white. 4. 9300K: Bluish white.
Red	Adjust red gain of image.
Green	Adjust green gain of image.
Blue	Adjust blue gain of image.
Exit OSD	Exit main menu.
OSD-H Position	Move the OSD Window to the horizontal direction.
OSD-V Position	Move the OSD Window to the vertical direction.
OSD Duration	The number of seconds that the OSD will remain visible before disappearing.
OSD Rotation	Right rotate 90 ° .
OSD Flip	Mirror vertical.
OSD Mirror	Mirror horizontal.
Auto color	Adjust ADC offset and ADC gain to full scale.
Saturation	Change the richness of color (sRGB).
Tint	Change the tone of color (sRGB).
Sharpness	Adjust the sharpness of video. (Soften more, Soften...Medium...Sharpen, Sharpen more)
Language	OSD language and appearance can be changed. ENGLISH / FRANÇAIS / DEUTSCH / ESPAÑOL / ITALIANO / NEDERLANDS / PORTUGUÊS.

□ **Connecting the LCD Monitor to the PC**

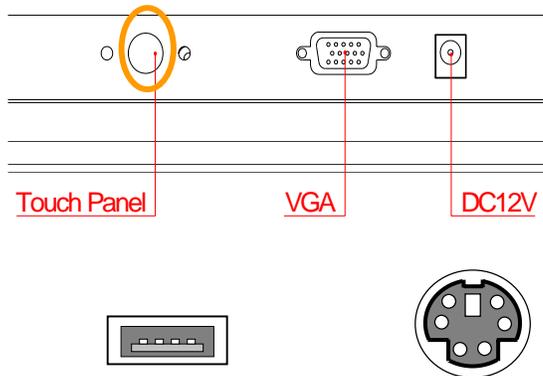
Connect one end of the VGA signal adaptor cable to the PC's D-sub 15 VGA port and other end to the LCD monitor, See following figure and a side picture.



DB15	Signal
1	Red
2	Green
3	Blue
13	Hsync
14	Vsync
12	DDC Data
15	DDC Clock
5 & 10	Digital Ground
6,7,8	Analog Ground
Others	Not Used

□ **Connecting the touch screen-Only for FD7804T**

This touch panel controller provides the optimistic performance of analog resistive touch panels for 5 wire model. It communicates with PC system directly through PS/2 or USB connector.

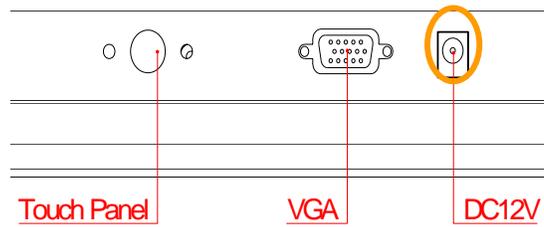


PS2	Signal
1	Mouse Data
2	-
3	Ground
4	VCC
5	Mouse Clock
6	-

USB	Signal
1	USBV
2	USB D-
3	USB D+
4	USBG

□ **Connecting the DC Power and Power Button**

Power is supplied through an external AC/DC power adapter. Check the technical specification section for information about AC/DC power input voltage. See following figure and a side pictures.



DC +12, 20% 1.2A minimum



Chapter 3 Software Installation

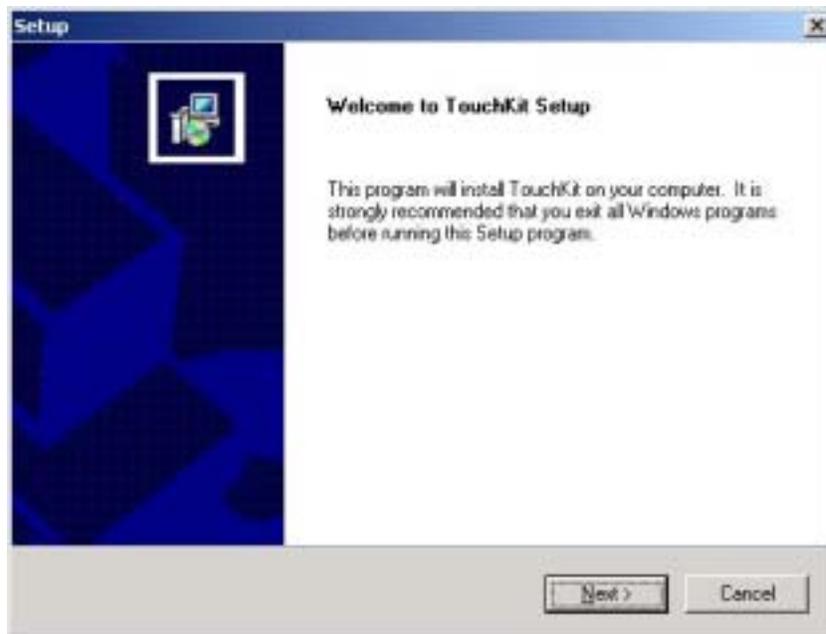
The enclosed diskette includes FD7804T touch screen driver. To install and configure you FD7804 system, you need to perform the following steps.

PS2 Interface Driver

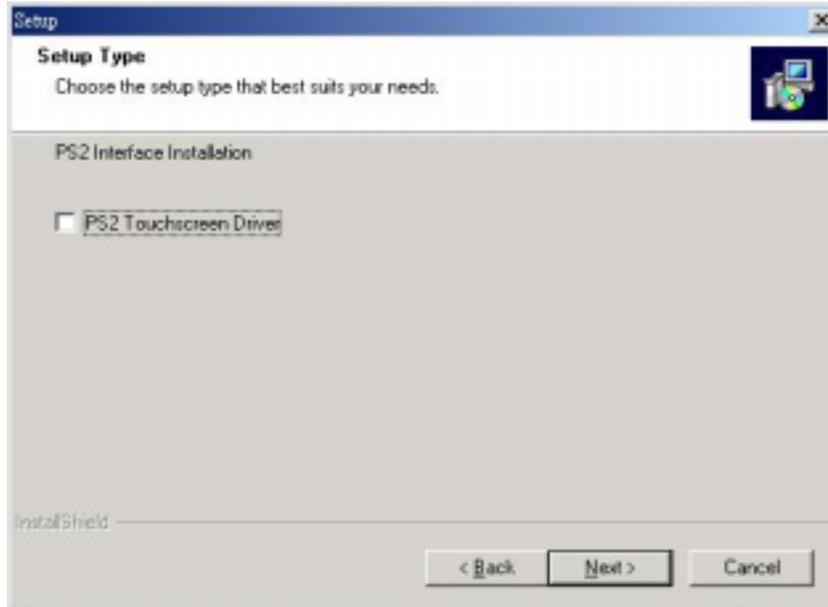
PS2 Interface Driver

Driver for WIN2000/XP

- Step 1: To install the Touch Screen driver, insert the CD ROM into the CD ROM device, and enter DRIVER>TouchScreen>PS2>ETP-4500RG-B>Win2000_XP.
- Step 2: Execute Setup.exe file. Just click **[Next >]** button to continue installation.



- Step 3: Then check the check box if PS/2 touch controller is to be installed. The default is unchecked. Then Press **[Next >]** to continue installation.



System will give you a warning, if users check the PS2AUX check box

Step 4: Windows XP will prompt a warning message before driver certificated. Now, Press [Continue >] to continue installation.



Step 5: As the setup is completed, the system will generate the message as follows.

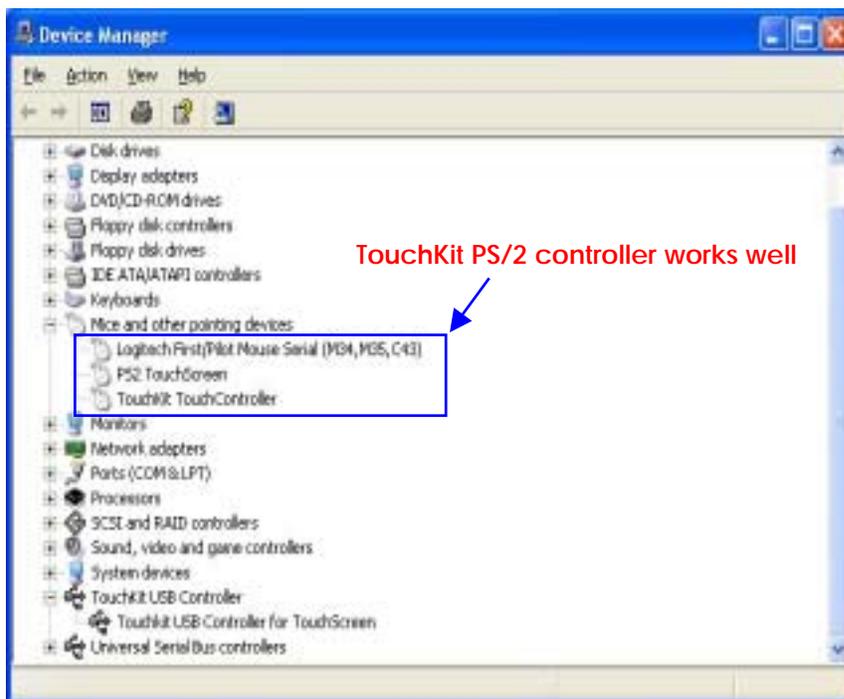


Yes, I want to restart my computer now. Installation is done!

No, I will restart my computer later.

System must be restart then complete the installation.

Step 6: Users can check the situation of controllers in Device Manager. If the controller is set up well, there will be messages as the following picture.



Driver for DOS

Execute "install.bat [destination]", and it will do as follows

Step 1: To install the Touch Screen driver, insert the CD ROM into the CD ROM device, and enter DRIVER>TouchScreen>PS2>ETP-4500RG-B>DOS

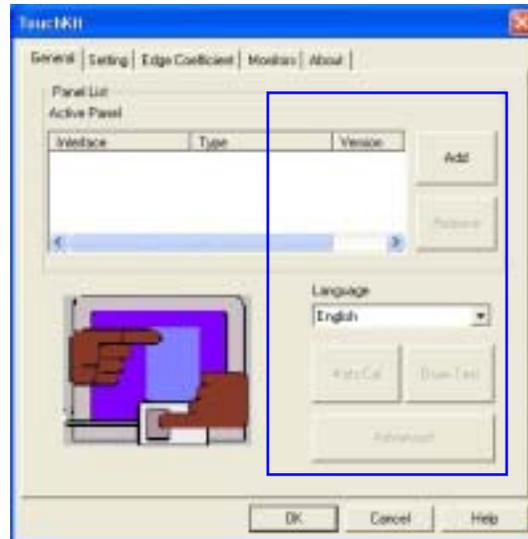
Step 2: copy files to hard disk, and modify/create C:\AUTOEXEC.BAT

Note: In the TouchScreen>PS2>ETP-4500RG-B>DOS directory, a Readme.txt file is included to provide installation information.

Configuration Utility and Right Button Emulator

General

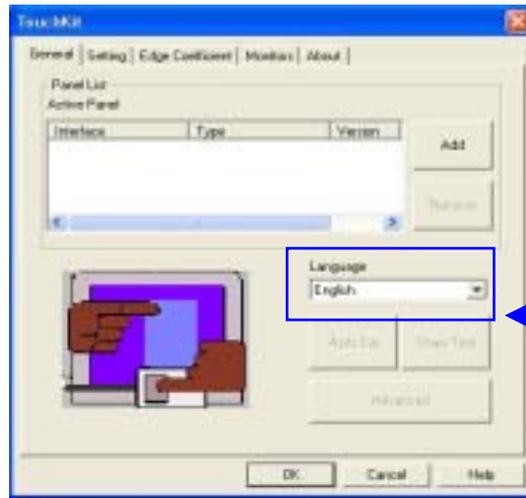
General property page contains the functions of **language selection**; **devices add/remove 4 points calibration**, **Draw test** and **Advanced**.



General Function

<Language>

TouchKit supports multi-language user interface. Users could select native language that is compatible to operation system support. For example, if the operation system is a traditional Chinese version, users could see the normal display words under the traditional Chinese and English mode. There are ten different languages, **English**, **Traditional Chinese**, **Simplified Chinese**, **French**, **Spanish**, **German**, **Japanese**, **Italian**, **Korean** and **Dutch** supported in this feature of **TouchKit**.



Note to select the compatible language first.

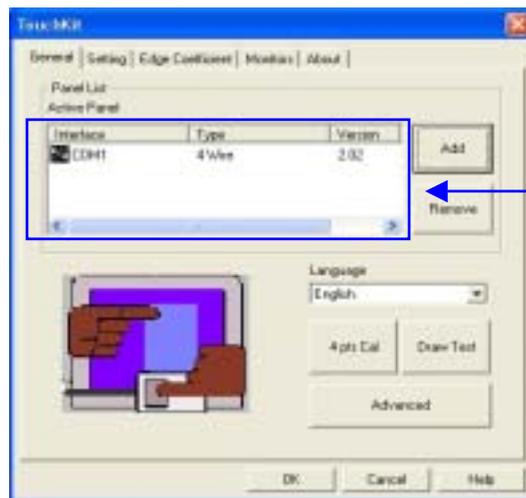
Select the compatible language first or users may not see the normal display of each button.

<Add> / <Remove>

Please check the touch panel devices (including its controller) are equipped well, then click **[Add]** button to add all of those RS-232 and **PS/2** devices to the **Panel List** dialogue box.



There is one devices found. Press **[Yes]** to continue.



Device is found in PS/2

The controller is displayed on the Panel List box. Users can get the information of interface, type, and firmware version and baud rate for each controller. Select one device after added more than one device at the panel list window.

The one selected will activate the panel, and remember to do the calibration before starting to use touch panel.



There are three buttons, **[4pts Cal]** **[Draw Test]** **[Advanced]**, at the lower section of the **General** property page.

<4pts Cal>

Correct 4 point locations on screen with the panel. Press **[4 pts Cal]**, screen displays as follows.

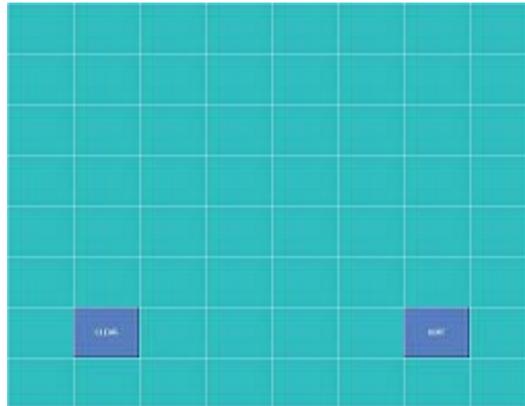


Touch the blinking symbol on panel until beep or stop blinking.

<Draw Test>

Test the drawing position related to the display screen on panel.

Click on the **[Draw Test]** button. There will be a squared blue display showing.

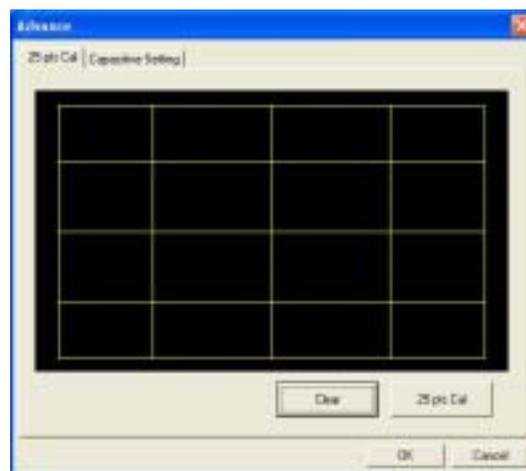


In drawing test window, users can click **[Clear]** button to clear the window. Also, users can click **[Quit]** or press mouse right button to quit from the drawing test.

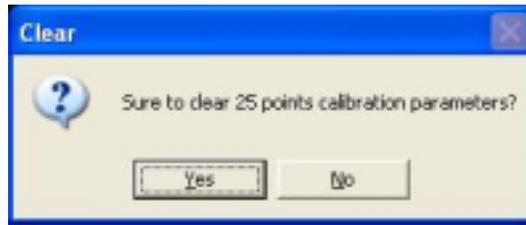
In drawing test window, users can verify the panel linearity, calibration capability, and drawing line quality.

<Advanced>

Touchkit provides more accuracy 25 points calibration for touch sensor. In addition, **Touchkit** provide controller setting for capacitive touch sensor. If the capacitive controller is selected, a capacitive setting property page appears on the advanced sheet. In general case, it does not need to do 25 points calibration other then bad linearity sensor.



Press **[Clear]** to clear the previous calibration records.



Press **[Yes]** to clear previous records. The record will become default record.

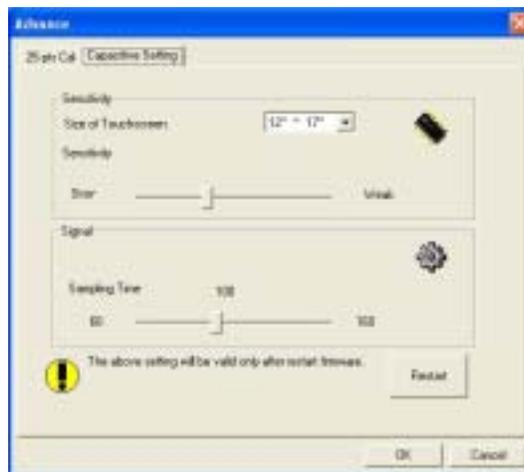
Press **[25ptCal]** to do 25 points calibration. Correct 25 point locations on screen with the panel.



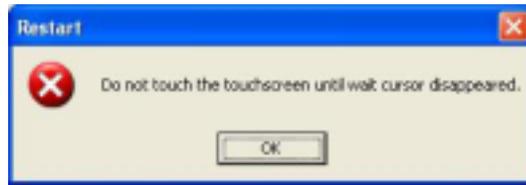
Touch the blinking symbol on panel until beep or stop blinking.

After the calibration, the new record will overwrite the old one.

If the selected controller is capacitive type, an extra property page for capacitive setting adjustment shown as below:



Please select property size of capacitive screen first, and press **[Restart]**



The capacitive controller will restart, and do not touch the screen before the warning message disappears

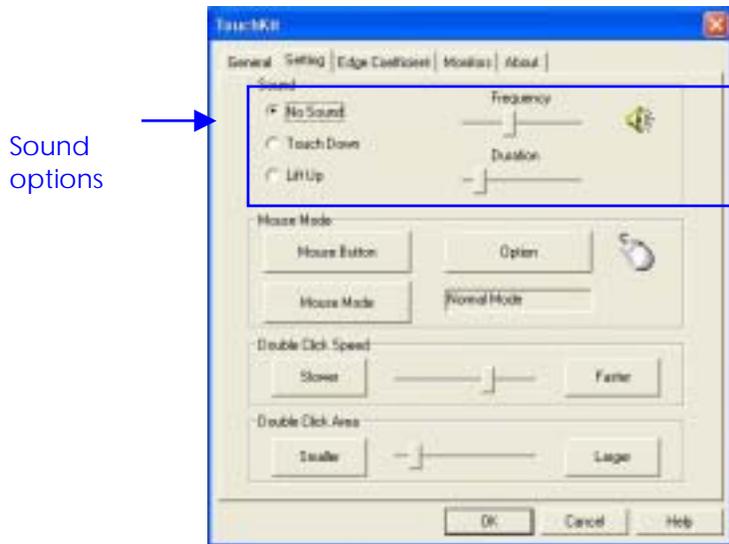
Warning: Do not adjust the sensitive and sampling time without RD help

Setting

There are three functional groups in **setting** property page, and at the upper section of the property page is **sound option**; at the middle section is **Mouse Mode**; and at the lower section is **Double Click Adjustment**.

The **Sound** options provide users the click feedback while touching the panel.

Select preferred option first.



<No Sound>

Users could choose to make no sound while using the touch panel.

<Touch Down>

The system will make a sound while touching the panel.

<Lift Up>

The system will not make any sound until finger leaves the touch panel.

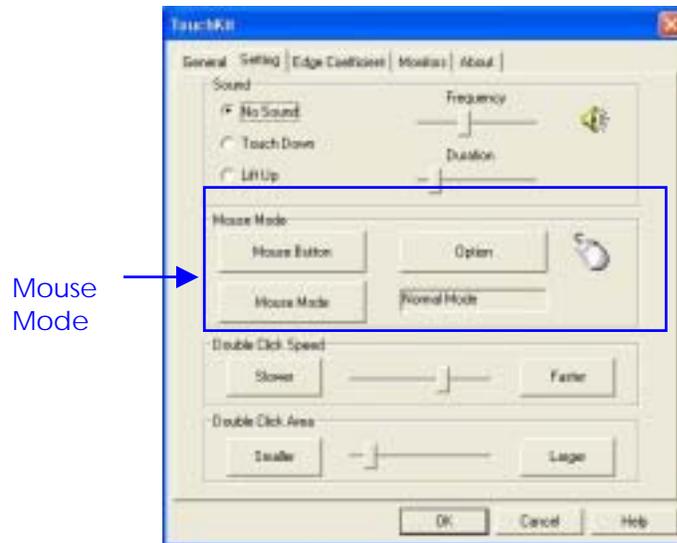
<Frequency>

Sound frequency, drag the cursor from left to right is low to high.

<Duration>

Sound duration, drag the cursor from left to right is short to long.

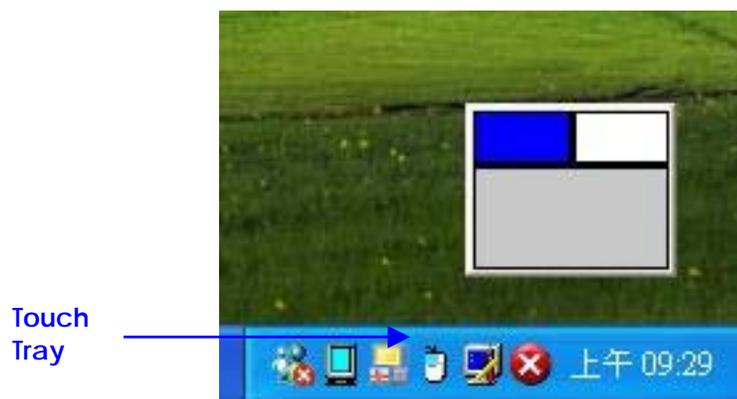
The **Mouse Mode** provides users different operating options. They are as follows:



<Mouse Button>

Click it to **show / hide Touch Tray** on the right bottom corner of the desktop. The touch panel system starts with the computer booting, and a mouse icon shows in the taskbar.

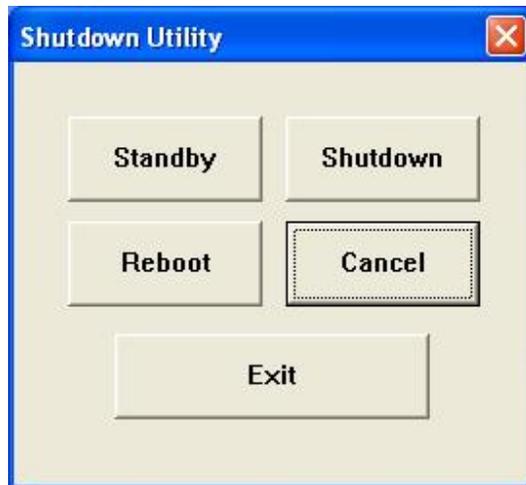
Users can choose show or hide **Touch Tray** from the mouse icon in the taskbar. Just click the mouse icon to choose show or hide.



Change **right / left** button by clicking the upper small rectangular box of **Touch Tray**. Blue area expresses what button has been selected. <**Shutdown utility**>



Click on shutdown utility in the task bar



Shutdown utility dialog

There are five modes in shutdown utility for user's convenience.

[Standby] to enter standby mode that saves power consumption.

[Shutdown] to turn off PC.

[Reboot] to restart PC.

[Cancel] to escape from the Shutdown utility dialog.

[Exit] to disable the Shutdown utility.

<Mouse Mode>

There are three kinds of mouse mode users could choose,

[Normal Mode]

It provides all the mouse functions, including the dragging function.

[Click on Touch]

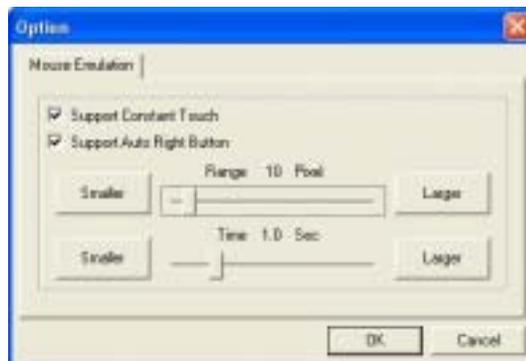
Click action is executed as soon as users touch the panel.

[Click on Release]

Click action will not be executed until finger leaves the panel.

<Option>

Touchkit provides an option for advanced Mouse Emulation setting. When the **Option** button is pressed, a setting property sheet will be popped up. **Support Constant Touch** and **Support Auto Right Button** check boxes are shown in the property sheet to **enable / disable Constant touch** and **Auto right button** support.



[Constant Touch]

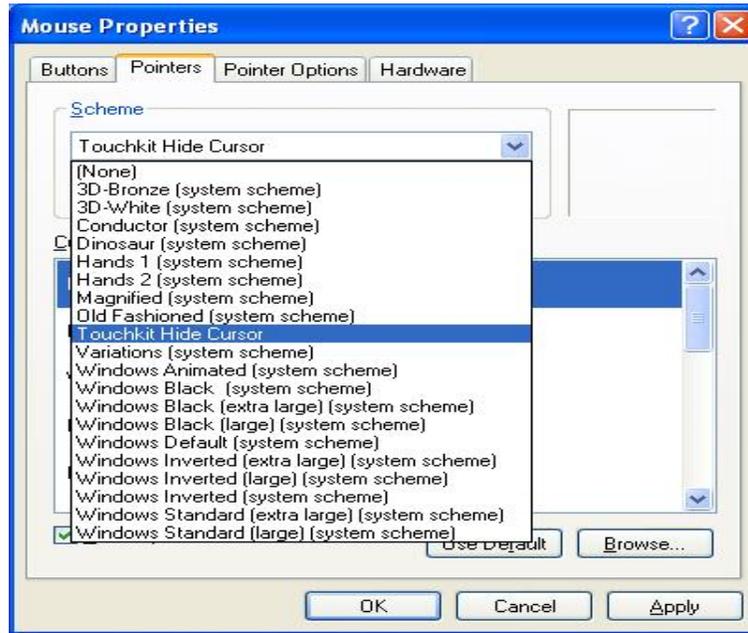
Enable **Constant Touch** to force driver to stop reporting touch point when the movement is within the range which users can adjust. Therefore, the user can see a stabilized cursor instead of a chattering cursor when users touch the same point with unwanted noise.

[Auto Right Button]

Enable **Auto Right Button** to force driver to report a **right click mouse event** to OS when users do a continuing touch till time out. It no longer needs to touch the **right button** in the **Touchtray** to activate a **right click**. This feature makes users to do **right click** more easily with touchscreen.

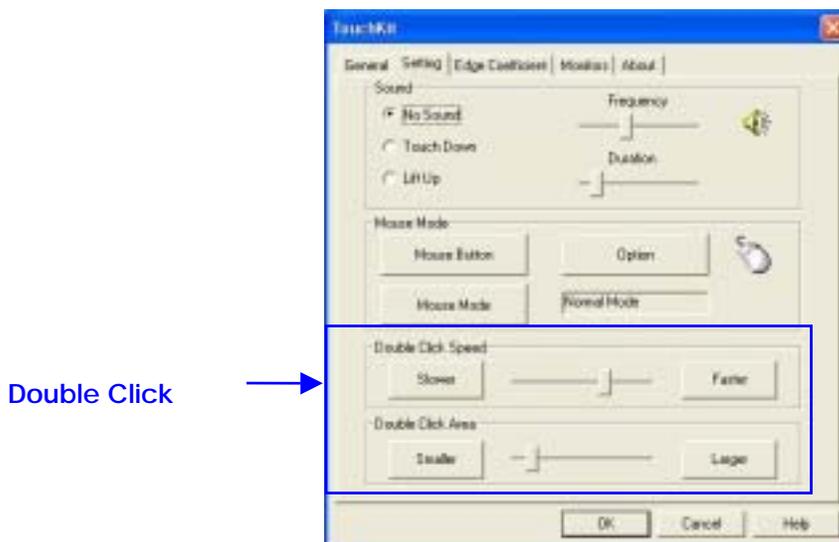
<Cursor Visibility>

Cursor visibility function provides users to hide the cursor in the display. Please go to **Start / Control Panel / Mouse / Pointers / Scheme**, and choose **TouchKit Hide Cursor**. Press **[Apply]** to make setting change, and press **[OK]** to escape the property page.



If users want to cancel the function of TouchKit Hide Cursor, do the steps again and choose the other scheme.

The **Double Click adjustment** provides users to set up the tolerance while double clicking. They are as follows:



<Double Click Speed>

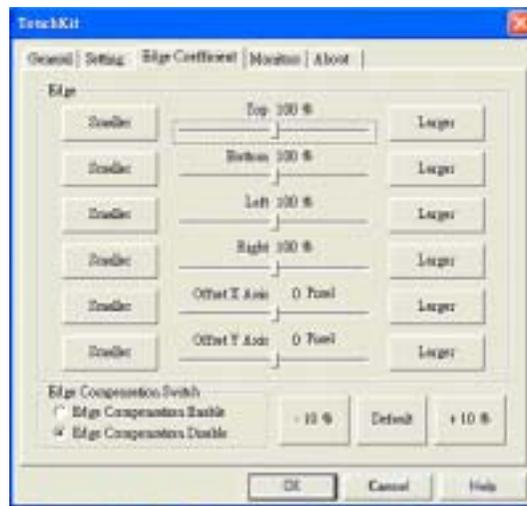
Double Click Speed is the double click response time for Windows system. Users can adjust the proper double click for easy double click by touch panel.

<Double Click Area>

Each one touch has its own touch tolerance once someone may not fix in one point. So if users set the Double Click Area to **<Smaller>**, the panel will be very sensitive about micro-move while users want to fix on a point. If users set it to **<Larger>**, it tolerates the larger touch point movement while users want to point at a fixed position.

Edge Coefficient

Edge Coefficient property page contains the functions of **Edge Compensation for Top, Bottom, Left, Right, X Axis and Y Axis**.



In some case, if it is difficult to touch items at the edges of the touch panel, users can set adjustment to reach the edges of the screen image.

<Top>

If users set the Edge to **<Smaller>**, **TouchKit** will reduce the horizontal position of the top edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the horizontal position of the top edge.

<Bottom>

If users set the Edge to **<Smaller>**, **TouchKit** will reduce the horizontal position of the bottom edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the horizontal position of the bottom edge.

<Left>

If users set the Edge to **<Smaller>**, **TouchKit** will reduce the vertical position of the left edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the vertical position of the left edge.

<Right>

If users set the Edge to **<Smaller>**, **TouchKit** will reduce the vertical position of the right edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the vertical position of the right edge.

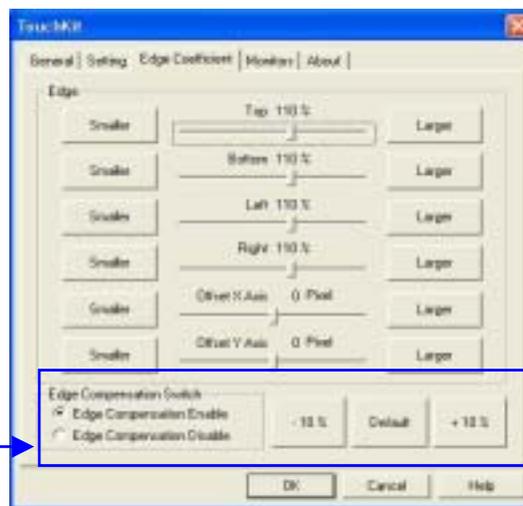
In some case, cursor will be behind the finger when users touch the panel. If users can not see the cursor when they touch down on the panel, users can set X Axis or Y Axis to move the cursor.

<Offset X Axis>

If users set the Offset X Axis to **<Smaller>**, cursor will be moved a pixel of X Axis to left. If users set the Offset X Axis to **<Larger>**, cursor will be moved a pixel of X Axis to right.

<Offset Y Axis>

If users set the Offset Y Axis to **<Smaller>**, cursor will be moved a pixel of Y Axis to top. If users set the Offset Y Axis to **<Larger>**, cursor will be moved a pixel of Y Axis to bottom.



Edge Compensation Switch

<Edge Compensation Switch>

Users can choose Edge compensation **Enable / Disable** from left bottom corner of **Touchkit** Utility.

Using **+10% and -10% button** to adjust the smaller or larger of edge. If users press **+10% button**, the top, bottom, left and right edges will extend 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to right and top. If users press **-10% button**, the top, bottom, left and right edges will contract 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to left and bottom.

If users want the value back to the default value, choose **Default button**.

Monitors

There are three functions in this property page, and they are **Multiple Monitors**, **Split Monitor** and **One Point Calibration**. Such a trendy and yet innovated design provides viewing pleasures, viewing flexibility and convenience to users.

<Multiple Monitors>

To configure the mapping relationship between the monitors and the touch panels, select the monitor page as below.



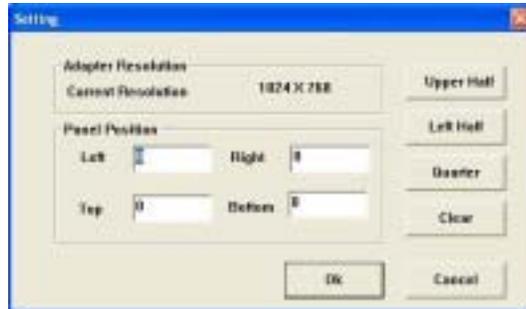
Set the check box (Use Multiple Monitors) to enable multiple monitors mapping. Uncheck this box will disable multiple-monitor configuration, and all of the touch panel controllers will be mapped to the primary monitor. The gray shadow area is the monitor mapped the selected controller/panel. The button **[Mapping]** is used to find the mapping relationships between the monitors and touch panel controllers. Press the **[Mapping]**; the software will guide users to touch the corresponding monitor to obtain the mapping relationship.



After finish monitor mapping, Press **[Apply]** to apply the mapping relation.

<Split Monitors>

To use the Split Monitor function, users need to select which controller you want to launch this function and then check the Multiple Monitors box and Split Monitor at the same time as showing as the follow picture. Press the **[Split Setting]** button to set up the activate area.



It shows the current resolution of display and users can set up the activate area by inputting the value by yourself or use the default button **[Upper Half]**, **[Left Half]** or **[Quarter]**. The default value of panel resolution should be full screen as Left: 0 , Right: 0, Top: 0 and Bottom: 0.

<One Point Calibration>

Touchkit utility provides a fast tool to identify the touchscreen orientation when the monitor display was rotated by 90 degrees. Enable this **One Point Calibration** feature, **Touchtray** will pop up this **One Point Calibration** tool for users to identify and correct the touchscreen / monitor orientation whenever the monitors was rotated by 90 degrees. Disable this feature; **Touchtray** does not pop up this **One Point Calibration** tool. Then, the user has to do four points calibration to correct the orientation whenever the monitor was rotated.

USB Interface Driver

Driver for WIN2000/XP

- Step 1: To install the Touch Screen driver, insert the CD ROM into the CD ROM device, and enter DRIVER>TouchScreen>USB> AIM-RC-3000>Windows.
- Step 2: Execute Setup.exe file. Just click **[Next >]** button to continue installation.
- Step 3: Then check the check box if USB touch controller is to be installed. Then Press **[Next >]** to continue installation.
- Step 4: As the setup is completed, the system will generate the message as follows.



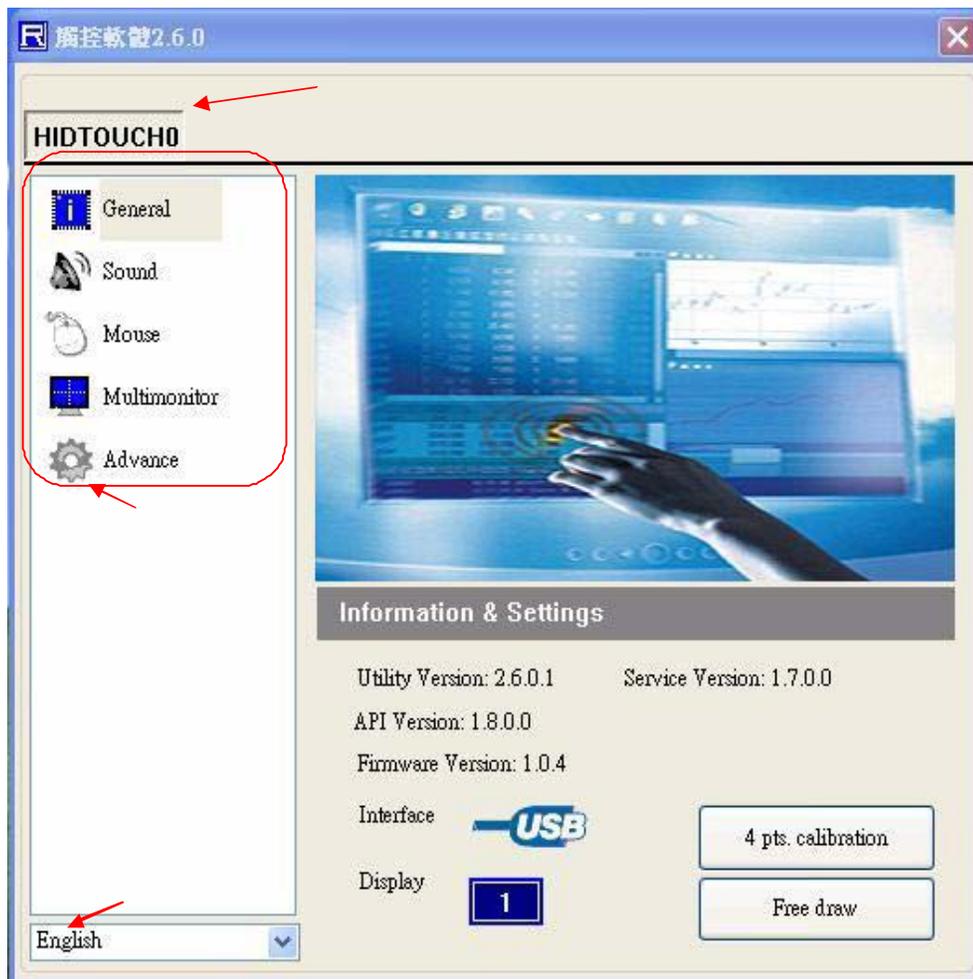
Yes, I want to restart my computer now. Installation is done!

No, I will restart my computer later.

System must be restart then complete the installation.

Configuration Utility

The touch package software is a utility and used for adjusting our touch control devices to optimize our touch solution. Touch package contains 5 function groups (see Pic1). General, Sound, Mouse, Multi-monitor, and Advance. This user guide will explain all of information or parameters in function group order.

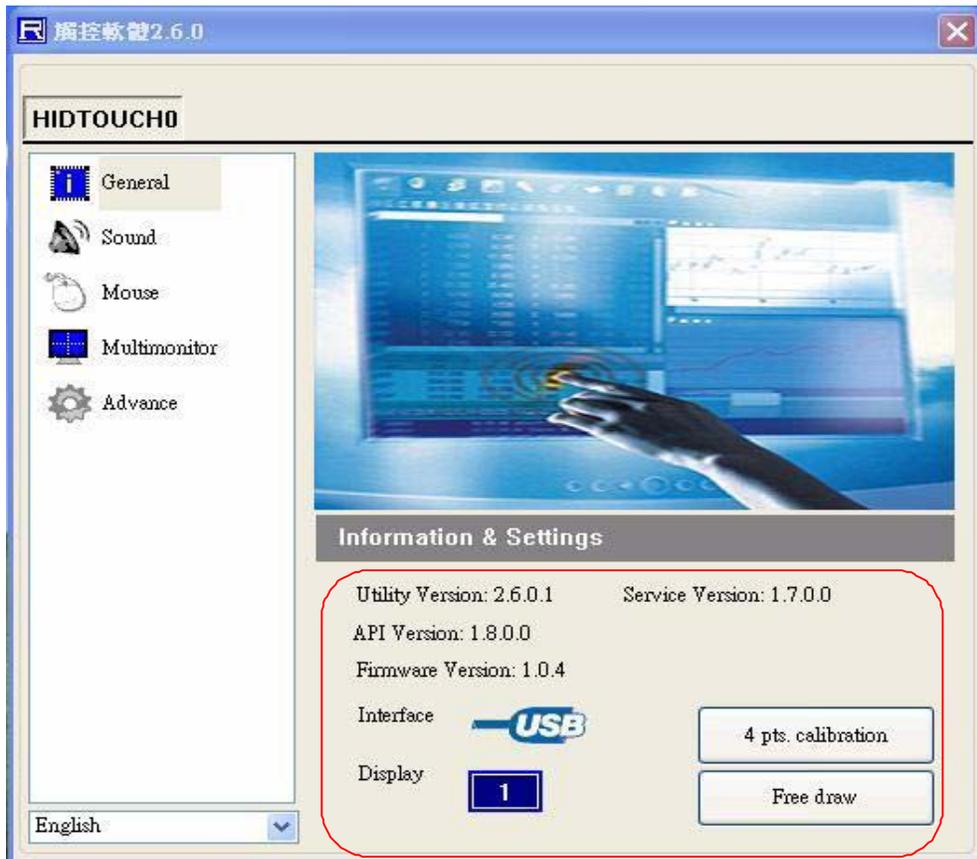


(Pic1) Five function groups

1、 General page

There are 7 information items and 2 tool function in the general page (see Pic2). The followings is to explain all the items.

1. Utility version : Touchpack.exe version.
2. Service version : Touchpackservice.exe version.
3. API version : touchapi.dll version.
4. Driver version: device driver version.
5. Firmware version: Our touch controller's code version.
6. Interface: Touch controller's communication interface.
7. Display: This controller is reporting the mouse point to system display number.
8. 4 pts. Calibration: This is the simplest calibration way to support customer to made touch device report correct position.
9. Free draw: This is a tool to user to draw mouse point to indicate how precise your touch solution now.

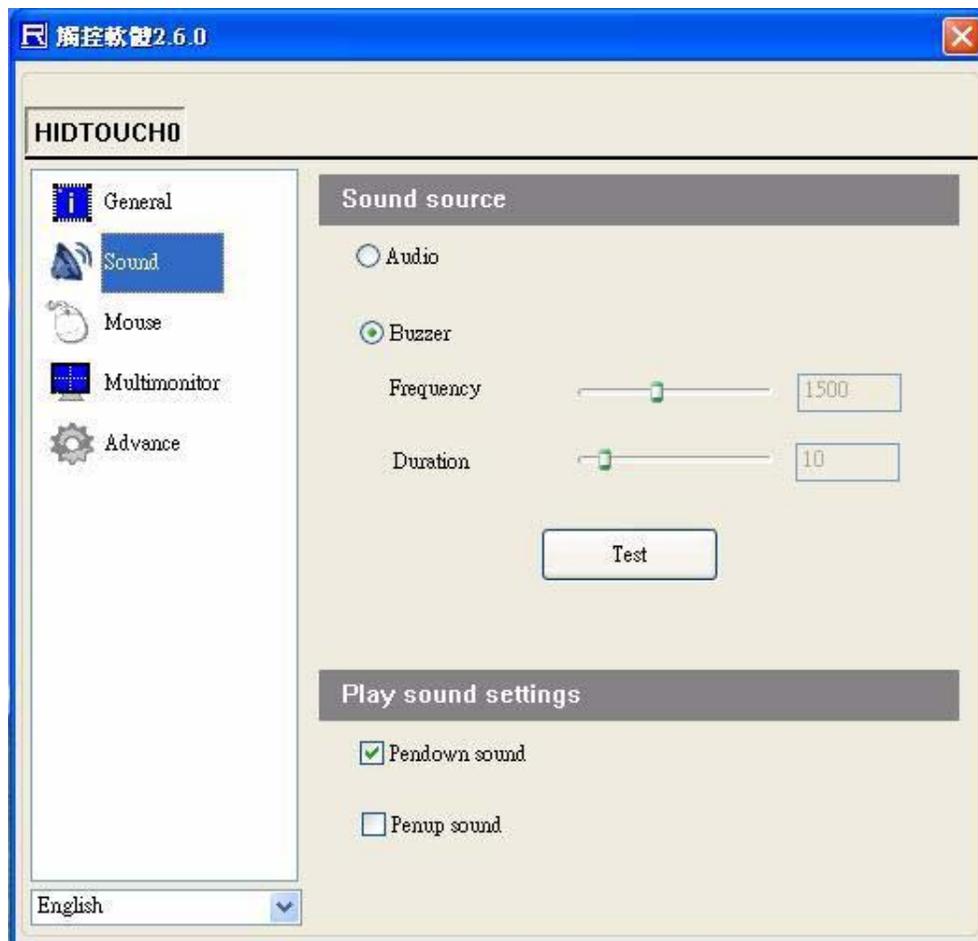


(Pic2) general page

2、 Sound page

The sound page supports user to set the items about sound settings (see Pic3)

1. Sound source: There are two sound sources, audio sound and buzzer sound. So, user can choice audio or buzzer radio button. If user selects buzzer mode, user can also adjust the frequency and duration to play the sound you like. The test button can try to play the sound you set.
2. Play sound settings : User can check first pen down to play sound or/and pen up to play sound. If both uncheck, it means that no sound to play.

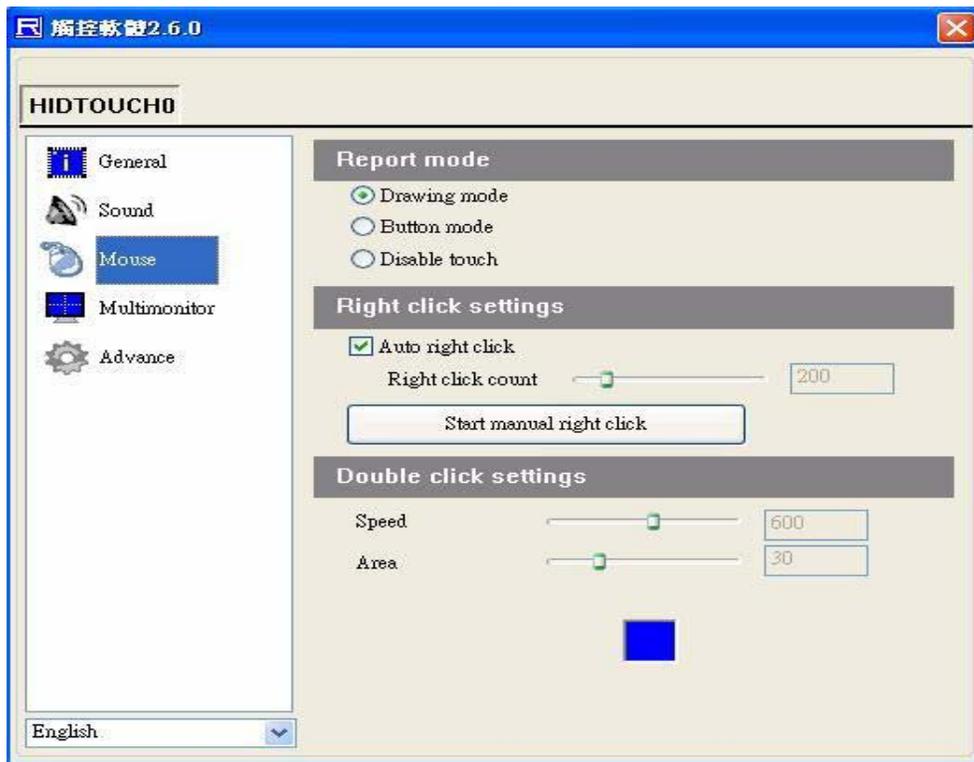


(Pic3) Sound page

3、 Mouse page

The mouse page has three main items, report mode, right click settings, and double click settings (see Pic4) .

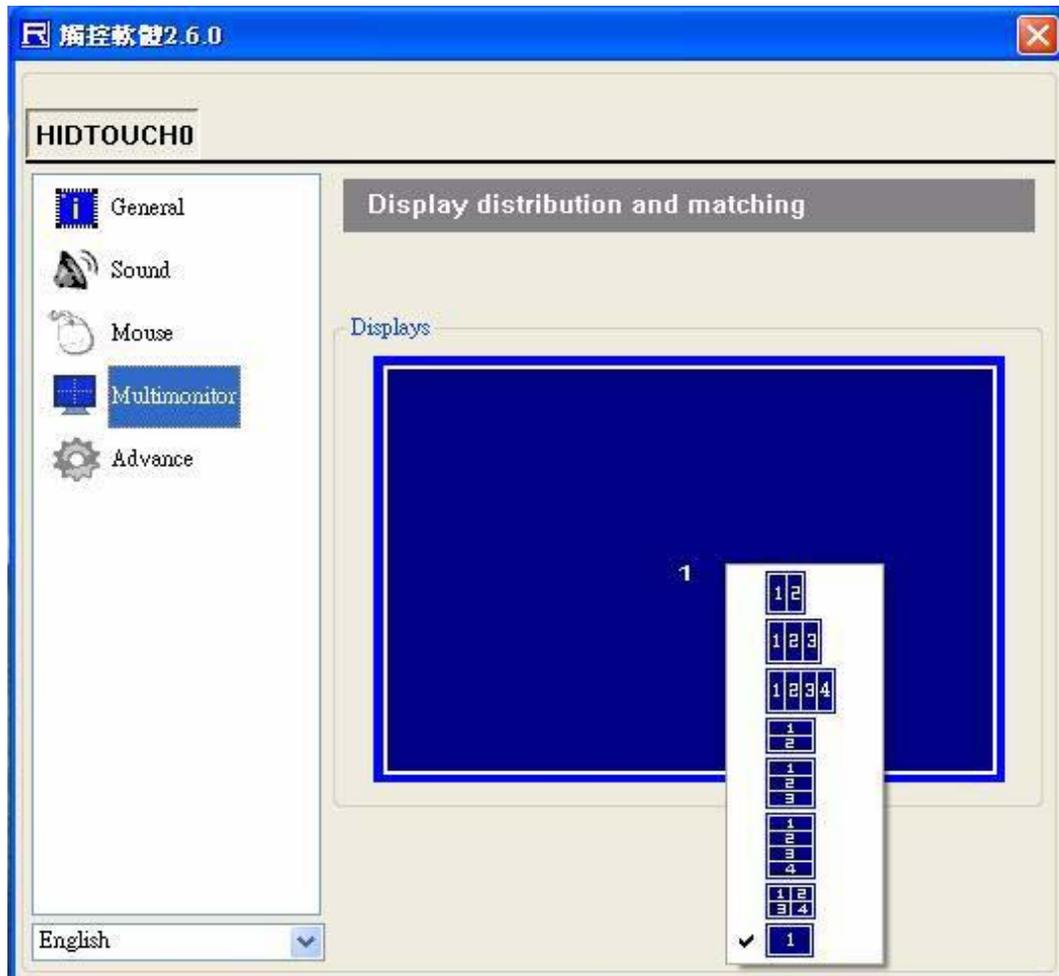
1. Report mode item: User can select drawing mode to continue report all points that touch controller senses. Button mode only report two points, first pen down and lift up points. Disable touch will made touch device to not report any point, user must use mouse to return the others to work properly.
2. Right click settings: Our touch solution can generate right click in two ways.
 - ◆ Auto right click: If you pen down and no move for a while, touch device will generate right click event automatically.
 - ◆ Manual right click: User launch the “Start manual right click” button and touch solution will show a right click window at the right-bottom corner. If user want to generate a right click, user can hit this window once and then pen down and lift to have a right click.
3. Double click settings: These are two parameters, speed and area, are used to change Windows OS parameters about generating double click conditions. The bottom of these two shows the test area and user can click to test the settings to feel your settings best.



(Pic4) Sound page

4、 Multi-monitor page

This page function can be supported on the versions, Windows 2K, XP, and Vista. The multi-monitor page shows the system display distribution in time. It also supports split display to fit some VGA cards. User can right click to pull down the split display type to match your VGA card (see Pic 5) and then the page will show your settings. User can click display area to show a matching program to link the relation between touch device and display.

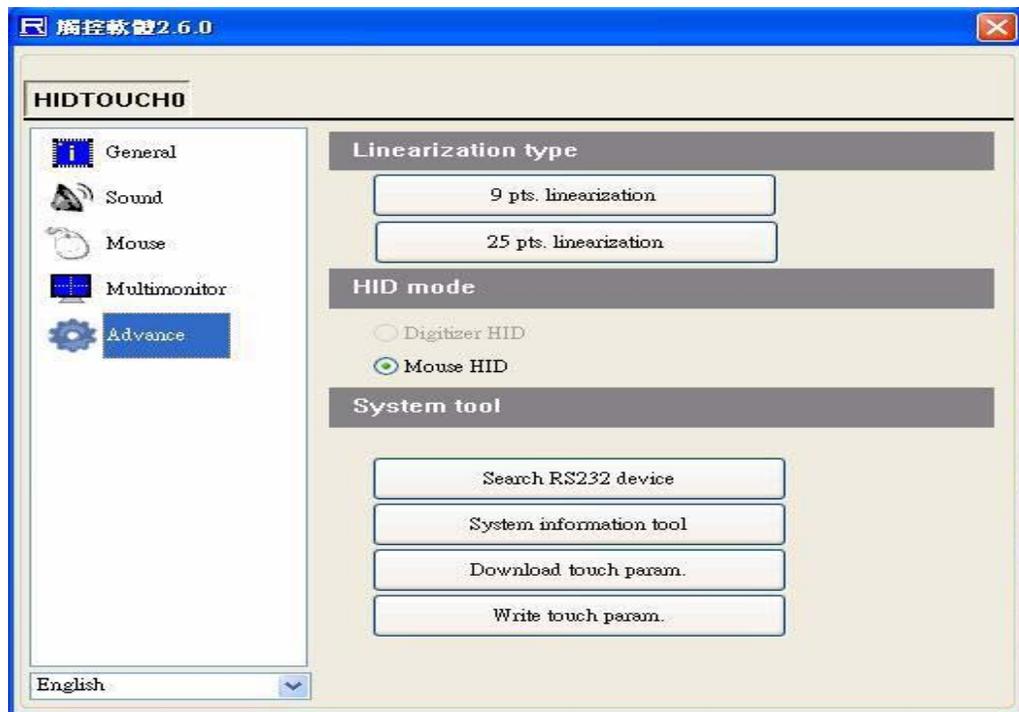


(Pic5) Multi-monitor page

5、 Advance page

In the advance page (see Pic6), there are three main item functions, Linearization, HID mode, and system tools.

1. Linearization: Some kind of touch sensor, special in 5-wires resistive sensor, need 9 points or 25 points reference points to precisely positioning. User can use the "9 pts linearization" tool or "25 pts linearization" to enhance your touch sensor.
2. HID mode : We support the digitizer HID mode for windows vista. This mode can operate gesture functions provided by windows vista home advance and upper. The mouse HID can work on any windows series versions. So, the touch device is default on the mouse HID mode.



(Pic6) Advanced page

Chapter 4 Technical Reference

This section outlines the errors that may occur when you operate the system, and also gives you the suggestions on solving the problems.

Topic include:

- Technical Reference
- Trouble Shooting for LCD Display and Touch Screen

Technical Reference

Physical and Environmental

DC Inputs: 12V,1.2A Minimum

Temperature: Operating 0°C ~ 50°C

Relative humidity 5 % to 85 % non-condensing

Touch screen-knock Test: 35,000,000 times

LCD Lamp Life Time: 20,000 Hr

Compatible VGA Timing Chart

TYPE	RESOLUTION	H-FREQUENCY(KHz)	V-FREQUENCY (Hz)	
FD7804(T) VESA Of VGA IBM-AT	640X480	31.5	60.0	
		37.9	72.0	
	800X600	37.5	75.0	
		35.1	56.4	
		37.9	60.0	
	IBM-AT		48.1	72.0
			46.9	75.0

Trouble Shooting

The following information informs the LCD display and touch serene driver. Please adjust your systems according to the messages below. Make sure all the components and connectors are in proper position and firmly attached. If the errors still exist, please contact with your distributor for maintenance.

Touch Screen

- Windows 9X might cause Page Fault blue screen when keep touching the touch panel during system booting up for PS/2 model.

Workaround:

- Do not keep touch the touch panel when system booting up.

- PS/2 touch kit driver will not be loaded properly if the panel was kept touched during system booting up in Windows 2000/XP.

Workaround:

- Do not keep touch the touch panel when system booting up.

- Touch kit driver for DOS will not be installed successful if autoexec.bat file does not exist in the system.

Workaround:

- Create an empty autoexec.bat for installation if this file does not exist.

LCD Display is unstable

- There is no display on the LCD Monitor.

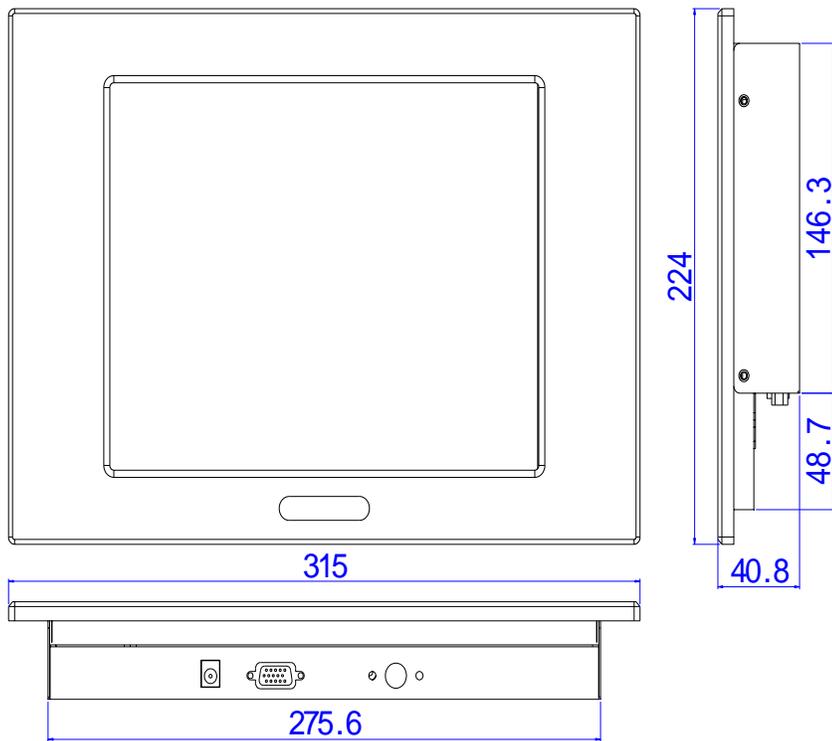
Workaround:

- Make sure the AC-DC power supply indicator on the LCD and Power LED.
- Make system is running on the correct display (VGA or SVGA), Adjustment KEYPAD (OSD) press "Auto" function.
- Connector to the external CRT monitor. If you system functions properly with a CRT monitor but it does not function with the LCD monitor, check system BIOS to see if there is dual (Both) scan for LCD OR CRT only and try again. If these is no display., may be problem with you system

Appendix

Dimension

FD7804/T



Mounting Dimension

