



NP-508OPN/NP-510OPN/NP-512OPN/ NP-515OPN/NP-517OPN/NP-519OPN Open Frame Display Monitor User Manual

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NP-5xxOPN User Manual

Revision History

Reversion	Date	Description
1.4	2022/02/08	Update Document

Warning!

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Electric Shock Hazard – Do not operate the machine with its back cover removed. There are dangerous high voltages inside.

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1.1 Features

Model	NP-508OPN	NP-510OPN	NP-512OPN	NP-515OPN	NP-517OPN	NP-519OPN
Display	8" TFT LCD	10.4" TFT LCD	12.1" TFT LCD	15" TFT LCD	17" TFT LCD	19" TFT LCD
Luminance	400 cd/m ²	250 cd/m ²	400 cd/m ²	350 cd/m ²	300 cd/m ²	300 cd/m ²
Resistive touch screen (optional)						
Optional DVI, Video or S-Video input						
Supports wide-ranging resolutions from 640x480 to up to 1600 x 1200 with auto phase and auto position.						

1.2 Specifications

Display

Model	NP-508OPN	NP-510OPN	NP-512OPN	NP-515OPN	NP-517OPN	NP-519OPN
Luminance	400 cd/m ²	250 cd/m ²	400 cd/m ²	350 cd/m ²	300 cd/m ²	300 cd/m ²
Viewing Angle	H:125/V:140	H:130/V:110	H:160/V:140	H:150/V:140	H:140/V:130	H:160/V:160
Resolution	800x600	800x600	800x600	1024x768	1280x1024	1280x1024
Backlight lifetime	40000hrs	20000hrs	50000hrs	50000hrs	50000hrs	50000hrs
Touch Screen	Resistive touch screen (optional)					
OSD Control Indicators	Automatic screen, setup (OSD), brightness, contrast, horizontal/vertical position, image lock, color balance, video information, power on and sync detected					
OS Compatibility	Win XP					
Power Input	Input 11~32V/DC					

Environment

Operating Temperature: 0~50°C (32°~122°F)
Storage Temperature: -20~60°C (-4°~140°F)
Relative Humidity: 10~90% @40°C non-condensing, without touch screen
Vibration: 1g peak, 5~500Hz (at random)
Shock: 10G peak acceleration (11msec. duration)/operation
Certifications: Meet CE, FCC Class A

Mechanical

Model	NP-508OPN	NP-510OPN	NP-512OPN	NP-515OPN	NP-517OPN	NP-519OPN
Construction	Steel Chassis					
Dimensions	208X148mm	260x213mm	300x250mm	357x291mm	410x330mm	423x333mm
Mounting Type	Panel Mount					

Ordering Information

NP-508OPN	8" SVGA open frame display monitor
NP-510OPN	10.4" SVGA open frame display monitor
NP-512OPN	12.1" SVGA open frame display monitor
NP-515OPN	15" XGA open frame display monitor
NP-517OPN	17" SXGA open frame display monitor
NP-519OPN	19" SXGA open frame display monitor
Options	Resistive touch screen

1.3 Dimensions

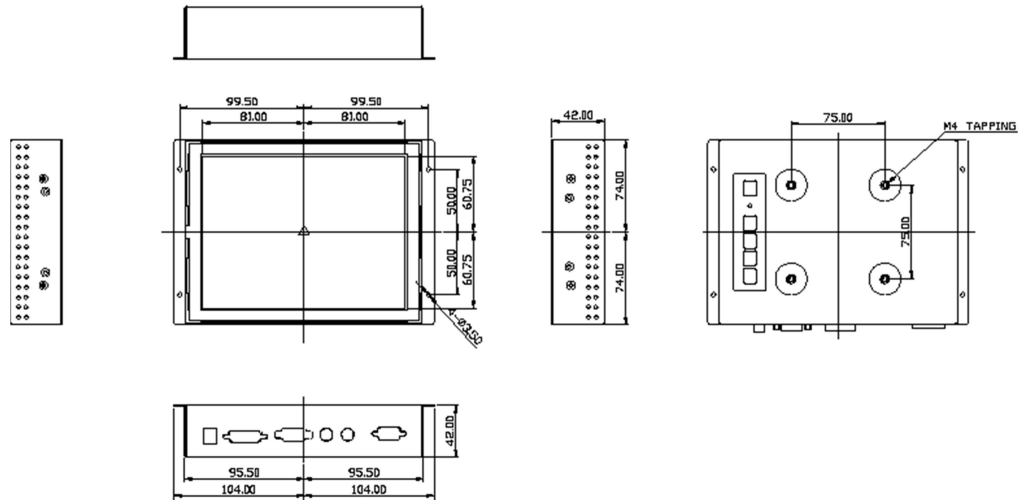


Figure 1.1: Dimensions of NP-508OPN

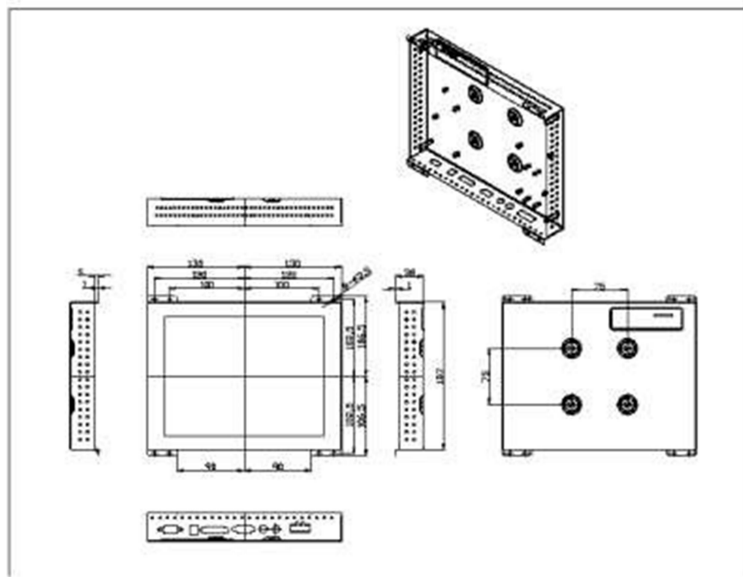


Figure 1.2: Dimensions of NP-510OPN

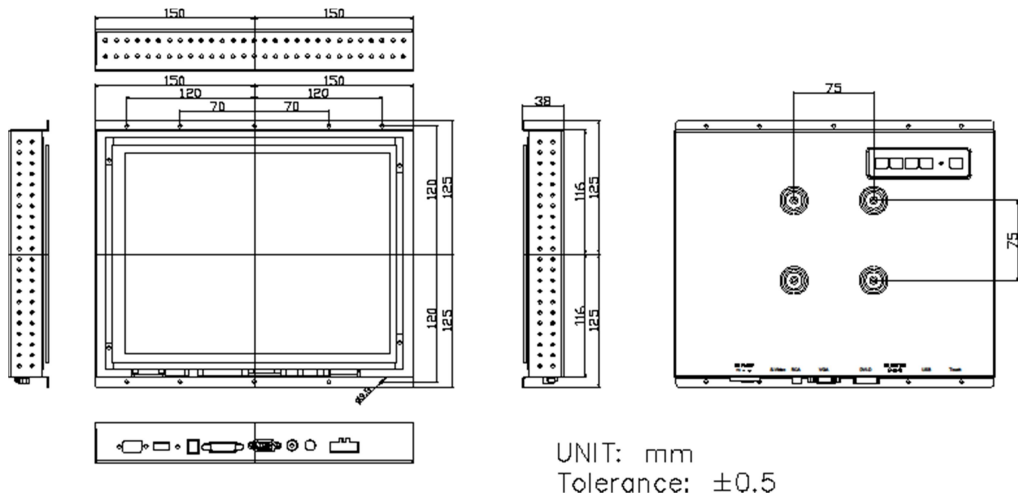


Figure 1.3: Dimensions of NP-512OPN

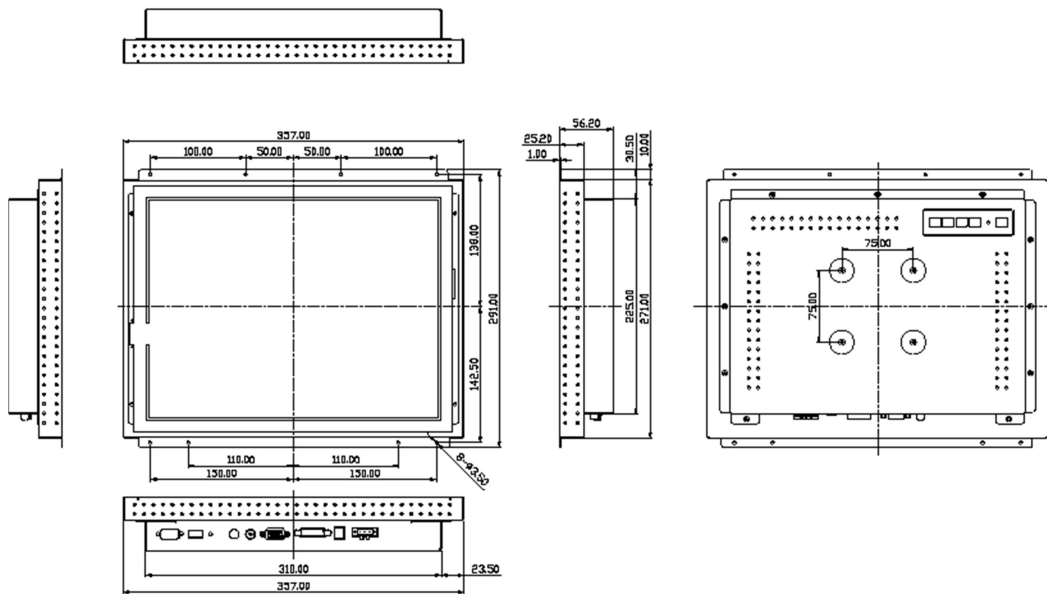


Figure 1.4: Dimensions of NP-515OPN

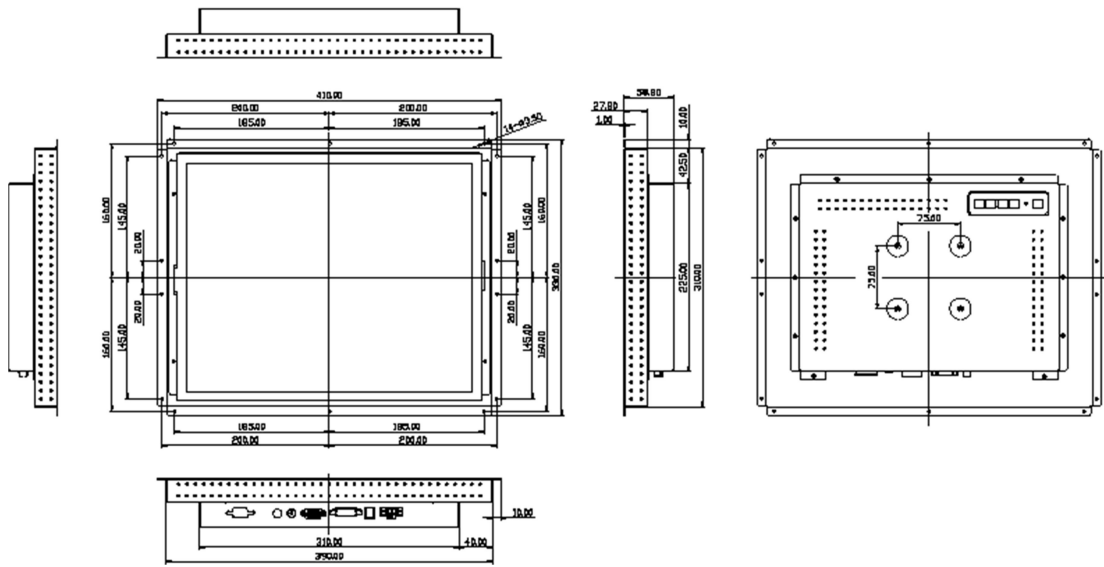


Figure 1.5: Dimensions of NP-517OPN

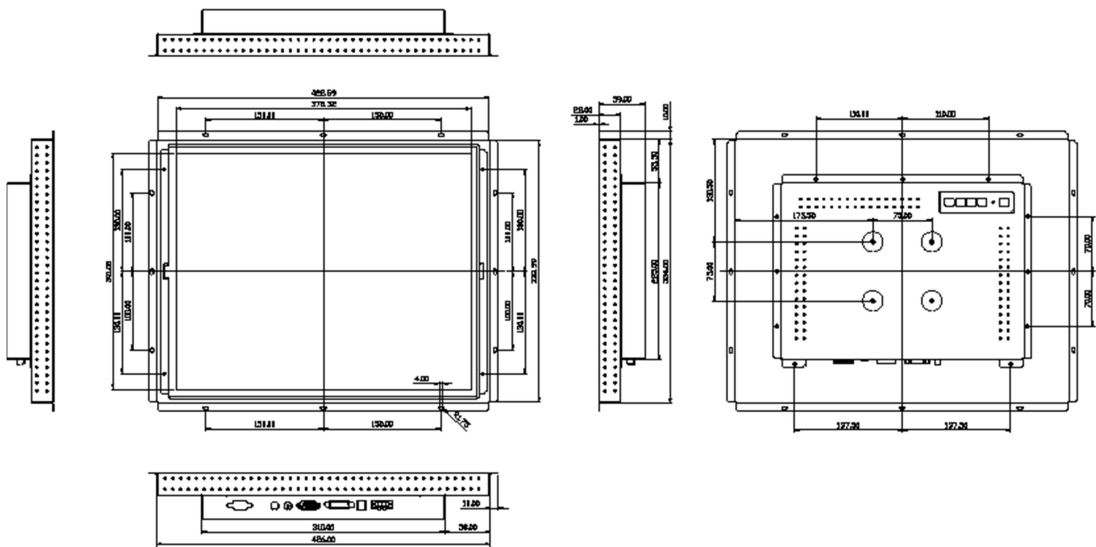


Figure 1.6: Dimensions of NP-519OPN

1.4 Brief Description of the NP-5xxOPD

The NP-5xxOPD offers 8" / 10.4"/12.1"/15"/17"/19" LCD open frame display the feature an excellent viewing ability for special monitoring and control applications, especially in Industrial area. It is available with resistive touch screen that is easy to use and maintain.



Figure 1.7: Overall View of NP-5xxOPD

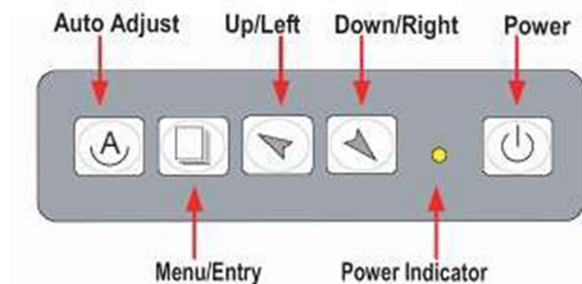



Figure 1.8: Rear View of NP-5xxOPD


1.5 Display Mode


Display Mode		Hori. Sync (KHz)	Vert. Sync. (Hz)
VGA 640 x 480		31	60
		38	72
		38	75
SVGA 800 x 600		35	56
		38	60
		48	72
		47	75
XGA 1024 x 768		48	60
		56	70
		60	75
SXGA	1152 x 864	68	75
	1280 x 1024	64	60
		80	75

2.1 OSD Functions




 Power switch: To turn ON or OFF the power


 Shift the icon to the right side or shift it up

 Shift the icon to the left side or shift it down



 Menu: To enter OSD menu for related icon and item.

 Auto Button: One-touch auto adjustment

1.) Getting into Burn-in Mode

Before setting into a burn-in mode, first disconnect the AC power cord. Then press (don't let them go) the  buttons until the AC power cord is connected and the "RGB" appears on the top left corner of your screen. Now it can be put into the burn-in mode for changing colors.














2.) Getting Out of Burn-in Mode

Before getting out of the burn-in mode, please first disconnect the AC power cord. Then press the  button (If not workable, press the  button and don't let them go) until the AC power cord is connected. Please don't let your fingers go until the AC power cord is connected again and the wording of "RGB" appears on the top left corner of your screen, and wait for 3 second. Under the non-signal entry situation, if is seen, exit is thus successfully

Cable Not Connected

2.2 OSD Controls

To make any adjustment, select the following:

1. Press  (Menu) to show the OSD menu or disable the OSD menu.
 2. Select the icon that you wish to adjust with the ( /  or +/-) key in the menu.
 3. Press  (Menu) and then choose the item with the ( /  or +/-) key.
 4. Press  (Menu) and then adjust the quality with the ( /  or +/-) key.
-
- 1.) If the “RGB” is still on the top left corner of the screen, press  to enter “Miscellaneous” and choose “Reset”, and then **Yes**, and press . When the screen goes black, disconnect power and repeat the above steps.
 - 2.) If the “RGB” is not found, disconnect the AC power cord first. Then press the   buttons (don't let them go) until the AC power cord is connected, and wait for 2 to 3 seconds. When “RGB” appears, repeat the above steps.
 - 3.) Functions of OSD Keys

2.3 Main Menu



In the **Main** menu, there are the following items:

- Color
- Image Setting
- Position
- OSD Menu
- Language
- Misc
- Exit



For **Color**, check out the following:

- Contrast
- Brightness
- Color Adjust
- Color Temp
- Back



For **Image setting**, check out the following:

- Clock
- Phase
- Gamma
- Sharpness
- Back



In the **Position**, there are the following:

- H. Position
- V. Position
- Back



In the **OSD** menu, there are:

- OSD H. Pos.
- OSD V. Pos.
- OSD Timer
- Back



In the **Language** menu, there are:

- English
- Frances
- Germany
- Spanish
- Traditional Chinese
- Simplified Chinese
- Japanese



In the **Misc** menu, there are:

- Signal Source
 - Select VGA: Analogue VGA Input
 - Select DVI: Digital DVI-D Input
 - Select AV: Composite Video Input
 - Select SV: S-Video Video Input
- Reset
- Back

3.1 Introduction to the PenMount 9036CH5 Touch Screen Control Board (For RS-232 interface Touch Screen)

PenMount 9036CH5 Control board is a powerful RS-232 touch screen control board to support 5-wire touch screen by executing the same drivers as all PenMount series control board and ICs. PenMount 9036CH5 is good for all kinds of resistive touch screens; user could put PenMount 9036CH5 control board in different systems space and connected to system's serial interface. There are two connectors on board, one connector is for the power and RS-232 interface, power line is allowed to have 5V input, RS-232 interface cable has 9-pin D-sub connector, another is for 5-wire touch screen.

PM9036CH5 supports 5 wires touch panel, there is a 0 ohm resistance of R13 in the circuit, and therefore, we don't mount the component. There's a 0 ohm resistance of R12 in the circuit.



Figure 3.1 Overview of PenMount 9036CH5 Control Board

3.1.1 Mechanical Size

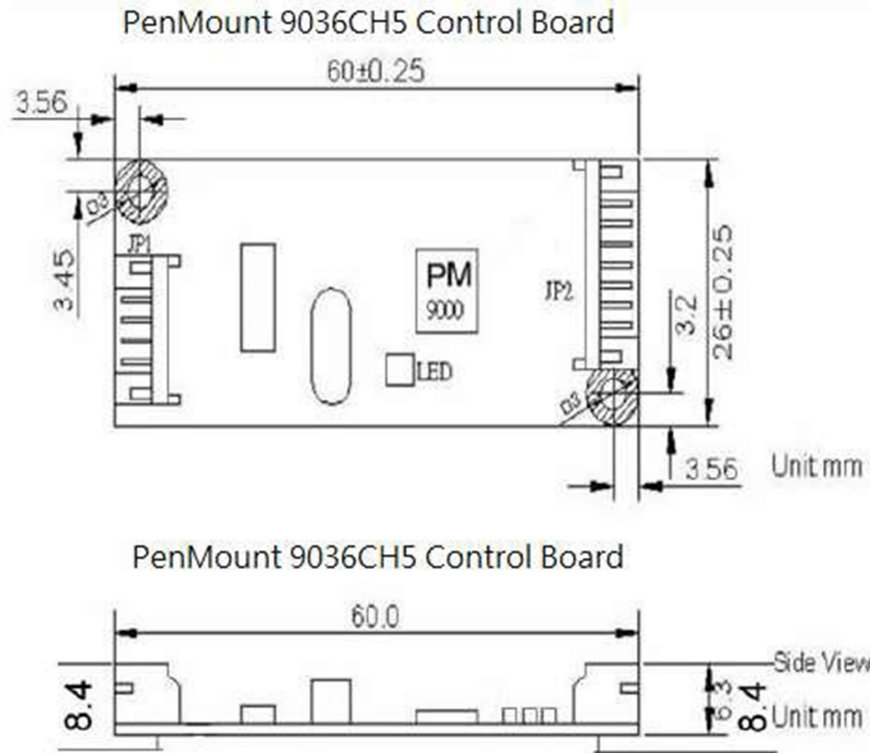


Figure 3.2 Dimensions of PenMount 9036CH5 Control Board

3.1.2 Electrical Specifications

Touch Screen	For 5-wrie analog resistive type
Interface	RS-232
Baud Rate	19200 baud rate selection, N81
Mode selection	PnP mode
Resolution	2048 x 2048
Resistance Range	50~1.3K ohm
Electrostatic Discharge (ESD)	Air Discharge 15KV Contact Discharge 8KV
Power Input	+5V DC
Operating Temperature	-20~70°C
Storage Temperature	-40~85°C
Mechanical Size	60 x 26 mm, two 3φ screw holes
Diagnostic	LED on board
Power Consumption	Standby Mode: 16mA; Active Mode: 27.5 mA (VCC=+5V, Top sheet Panel Resistance: 365 ohm ; Bottom sheet Panel Resistance: 660 ohm) Note. Actual current will be different by touch panel's resistance

3.1.3 Driver Software

Windows XP / 2003 / 2008 / Vista / 7,
Windows CE 6.0

3.1.4 Connector Definition

JP1 RS-232 Connector:

PIN 1	Ground
PIN 2	Power Input
PIN 3	RTS
PIN 4	TXD
PIN 5	RXD
PIN 6	Ground

JP2 Touch Screen Lines:

	PM9036CH5
	5-Wire
PIN 1	Ground
PIN 2	UL (Y)
PIN 3	UR (H)
PIN 4	LL (L)
PIN 5	LR (X)
PIN 6	Sense (S)
PIN 7	---
PIN 8	---
PIN 9	---

3.2 Introduction to the PenMount 6300A5 USB Interface Control Board (For USB interface Touch Screen)

PenMount 6300A5 USB control board is a touch screen control board designed for USB interface and specific for 5-wire touch screen. It is designed with USB interface features with multiple devices supporting function. PenMount 6300A5 control board using PenMount 6000 controller that has been designed for those who may like all-in-one solution with A/D converter built-in to make the total printed circuit board denser. There are two connectors on this board, one connector is for 5-wire touch screen cable, and the other is for 4-pin USB A type cable.

PM6300A5 supports 5 wires touch panel, there's a 0hm resistance of R12 in the circuit, and therefore, we don't mount the component.



Figure 3.3 Overview of PenMount 6300A5 Control Board

3.2.1 Mechanical Size

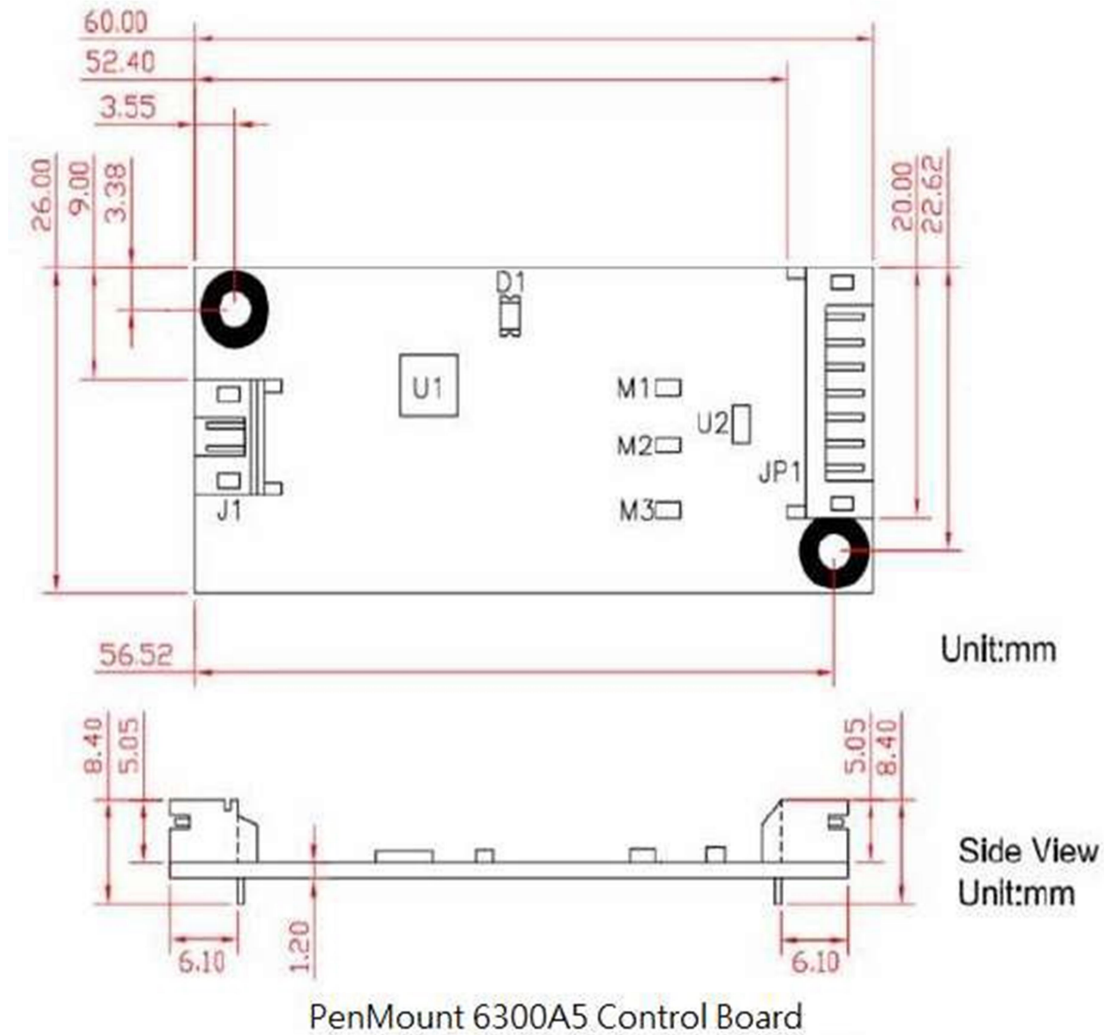


Figure 3.4 Dimensions of PenMount 6300A5 Control Board

3.1.2 Electrical Specifications

Touch Screen	For 5-wire analog resistive type
Communications	USB Full-speed, 12Mbps
Touch Screen Controller	PenMount 6000 controller IC
Resolution	2048 x 2048
Size	60 x 26 mm, two 3φ screw holes
Cursor accuracy	< 1% (Active Area Diagonal of touch screen with PenMount Advanced calibration utility support)
Resistance Range	50~1.3K ohm
Diagnostic	LED on board
Operating Voltage	+5V DC

Electro Static Discharge (ESD)	Air Discharge 15KV, Contact Discharge 8KV
Storage Temperature	-40~85°C
Operating Temperature	-20~70°C
Power Consumption	Standby Mode: 13.4 mA; Active Mode: 21.5 mA VCC=+5V, Top sheet Panel Resistance: 365 ohm; Bottom sheet Panel Resistance: 660 ohm) Note. Actual current will be different by touch panel's resistance.

3.2.3 Driver Software

Windows XP / XPE / 2003 / 2008 / Vista / 7
WinCE 6.0

3.2.4 Connector Definition

J1 USB Connector

PIN 1	GND
PIN 2	D+
PIN 3	D-
PIN 4	VCC

JP1 Touch Screen Lines:

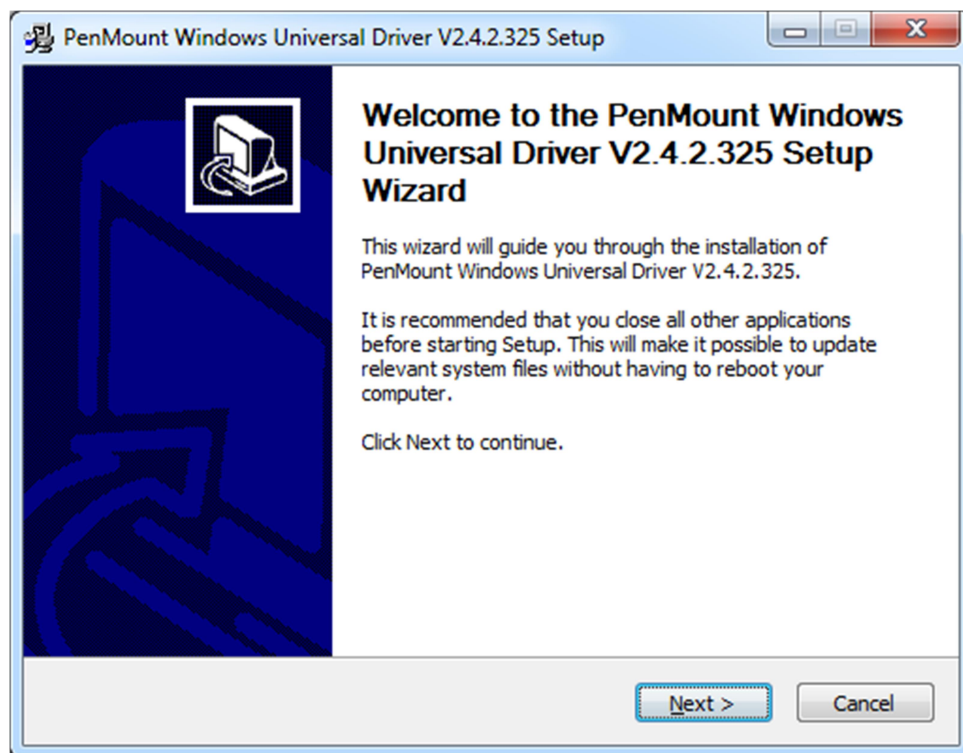
	PM6300A5
	5-Wire
PIN 1	Ground
PIN 2	UL (Y)
PIN 3	UR (H)
PIN 4	LL (L)
PIN 5	LR (X)
PIN 6	Sense (S)
PIN 7	---
PIN 8	---
PIN 9	---

4.1 Windows XP/2003/Vista/Win7 Driver Installation for PenMount 9036CH5/6300A5 Control Board

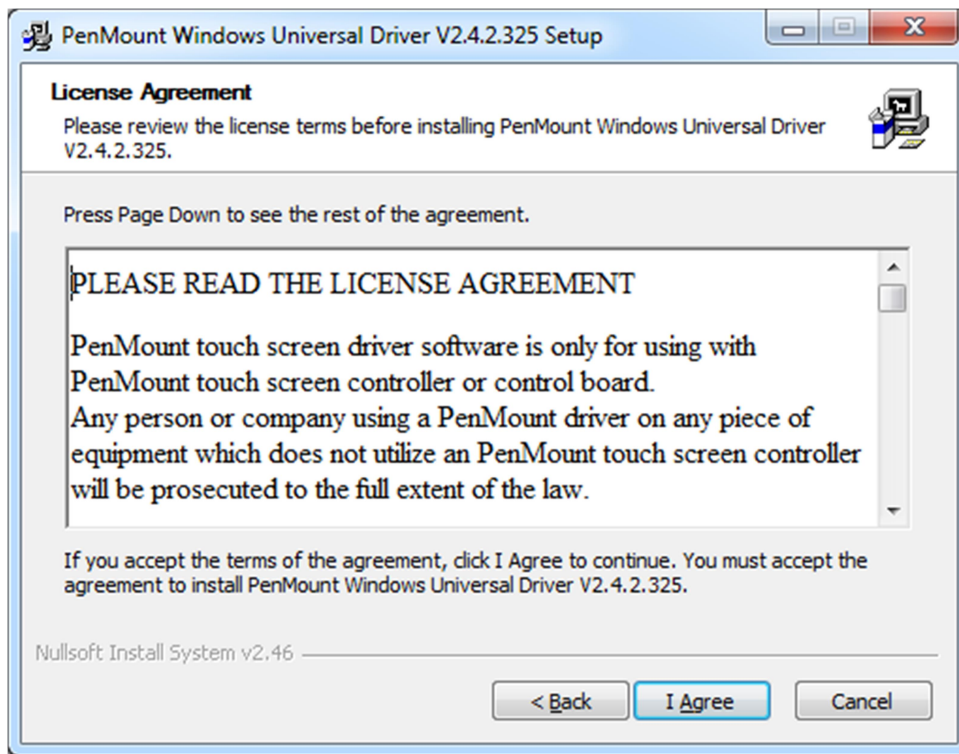
Before installing the Windows XP/2003/Vista/Win7 driver software, you must have the Windows XP/2003/Vista/Win7 system installed and running on your computer. You must also have the PenMount 9036CH5 RS-232 interface or PenMount 6300A5 USB interface controller board installed.

Follow the steps below to install the PenMount Windows XP/2003/Vista/Win7 Driver

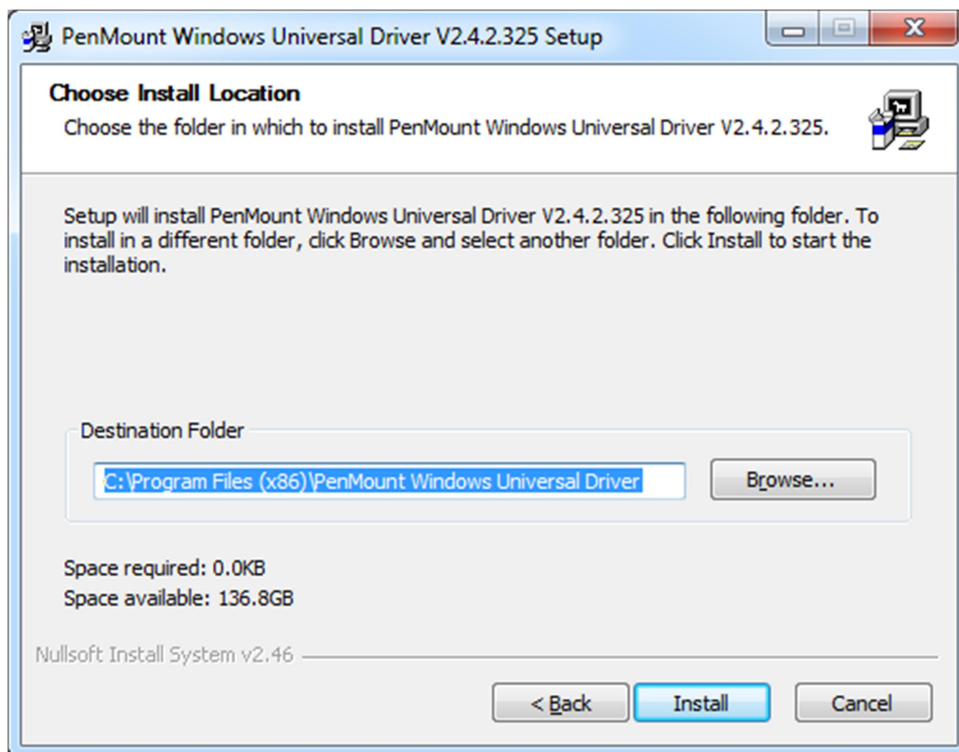
1. The screen displays the installation wizard for the PenMount software. Click **“Next”**.



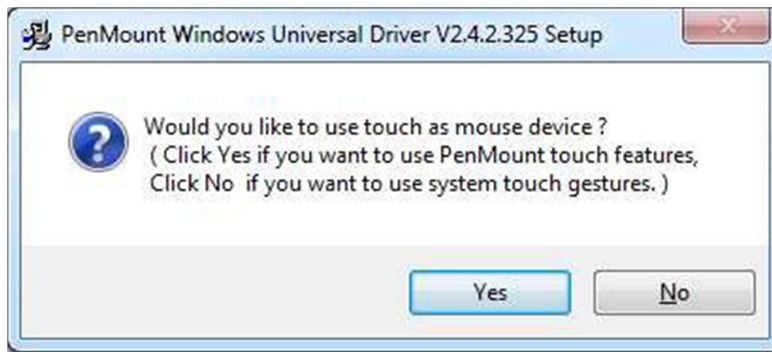
2. A License Agreement appears. Click **"I accept..."** and **"Next"**.



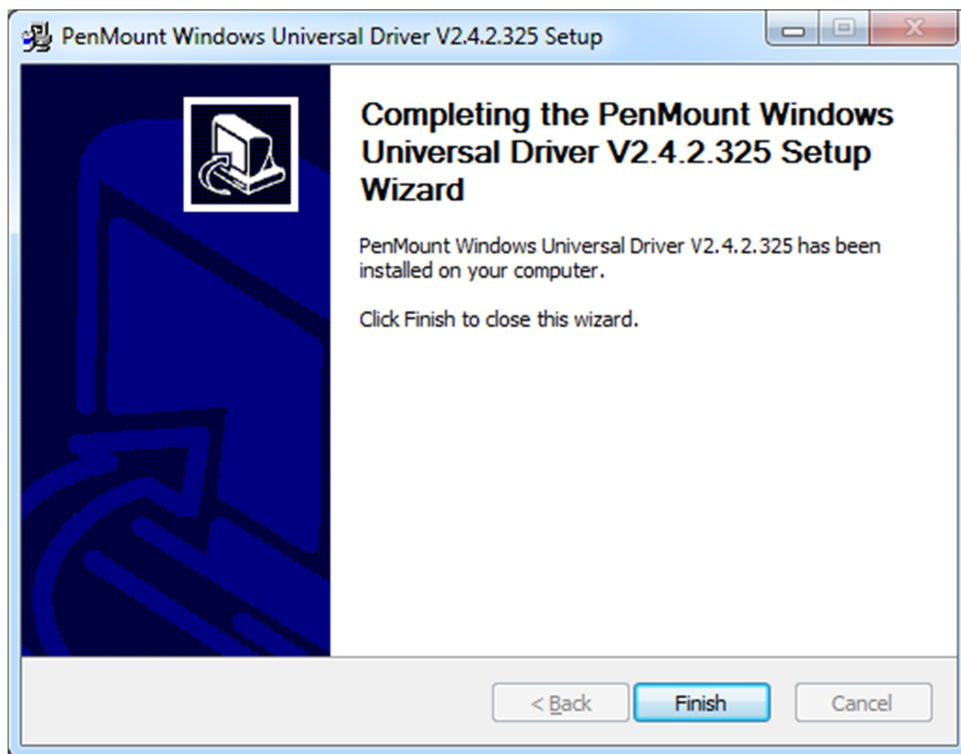
3. Click **Install** to begin the installation.



4. Click **yes** to continue.



5. Click **Finish** to complete the installation.



4.2 Configuring the PenMount Windows XP/2003/Vista/Win7 Driver

Upon rebooting, the computer automatically finds the new 9036CH5 RS-232/6300A5 USB interface controller board. The touch screen is connected but not calibrated. Follow the procedures below to carry out calibration.

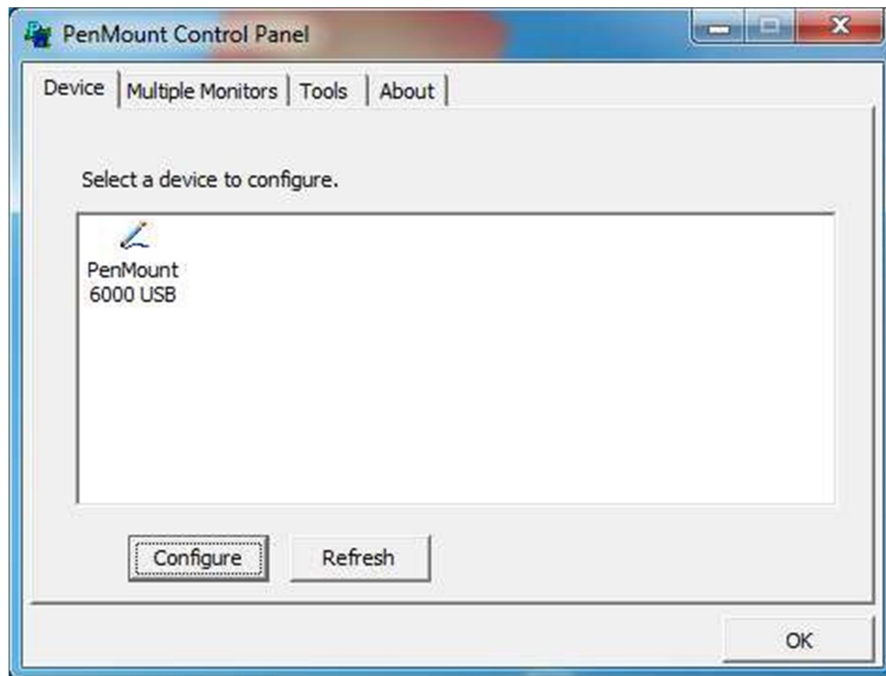
1. After installation, click the PenMount Monitor icon “PM” in the menu bar.
2. When the PenMount Control Panel appears, click “Calibrate”.

PenMount Control Panel

The functions of the PenMount Control Panel are **Calibrate**, **Multiple Monitors**, **Tools**, and **about**, which are explained in the following sections.

Device

In this window, you can find out that how many devices are detected on your system.



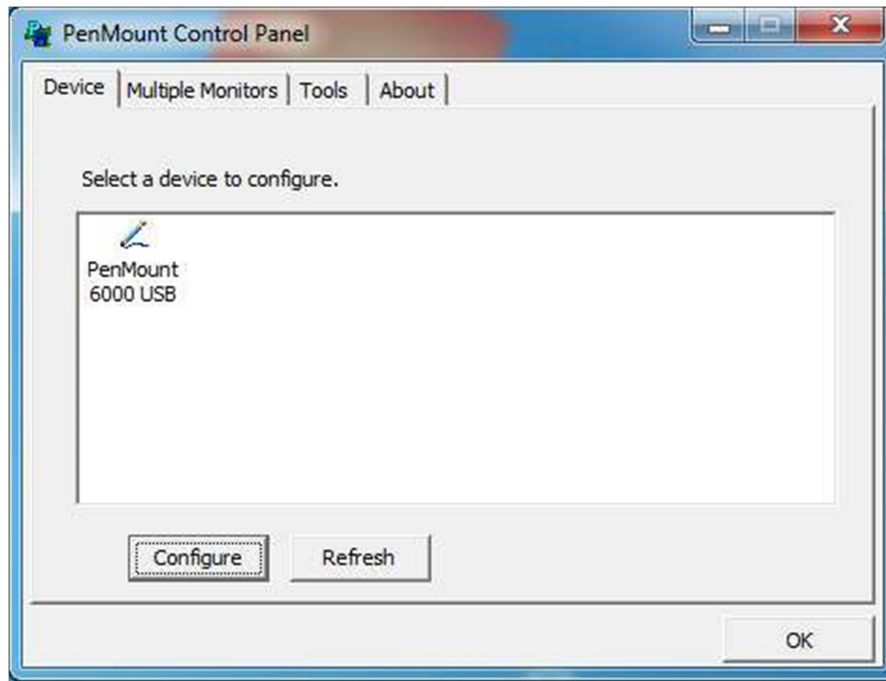
Calibrate

This function offers two ways to calibrate your touch screen. “Standard Calibration” adjusts most touch screens. “Advanced Calibration” adjusts aging touch screens.

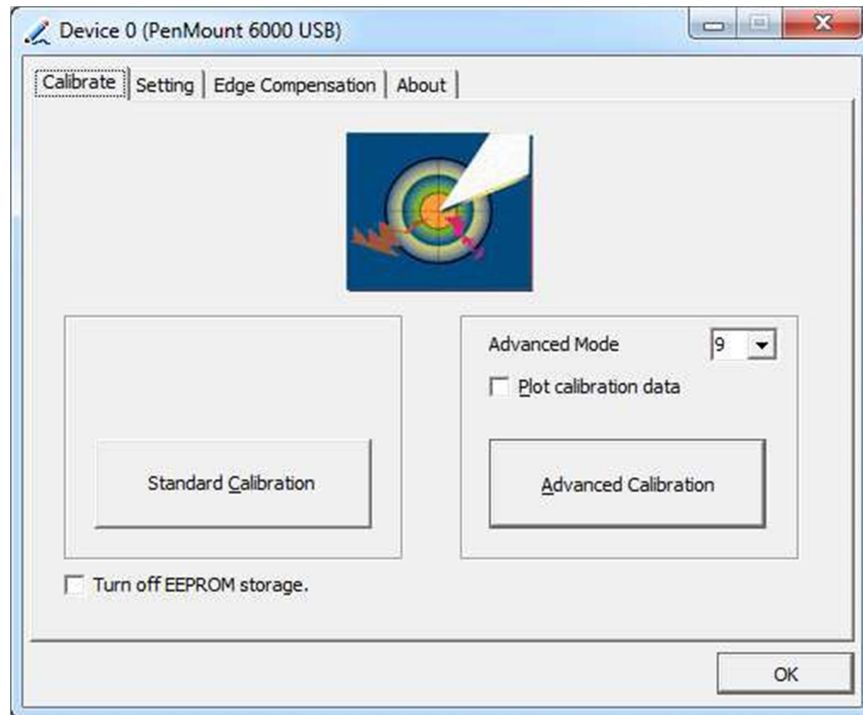
Standard Calibration	Click this button and arrows appear pointing to red squares. Use your finger or stylus to touch the red squares in sequence. After the fifth Red point calibration is complete. To skip, press “ESC”.
Advanced Calibration	Advanced Calibration uses 4, 9, 16 or 25 points to effectively calibrate touch panel linearity of aged touch screens. Click this button and touch the red squares in sequence with a stylus. To skip, Press “ESC”.

Standard Calibration

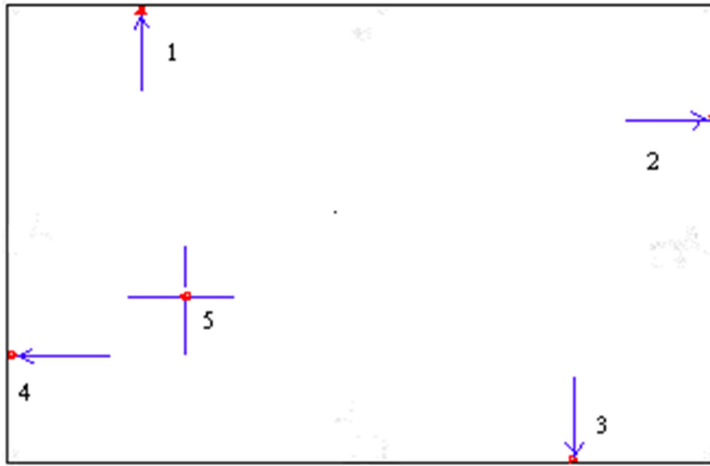
Step 1. Please select a device then click “Configure”. You can also double click the device too.



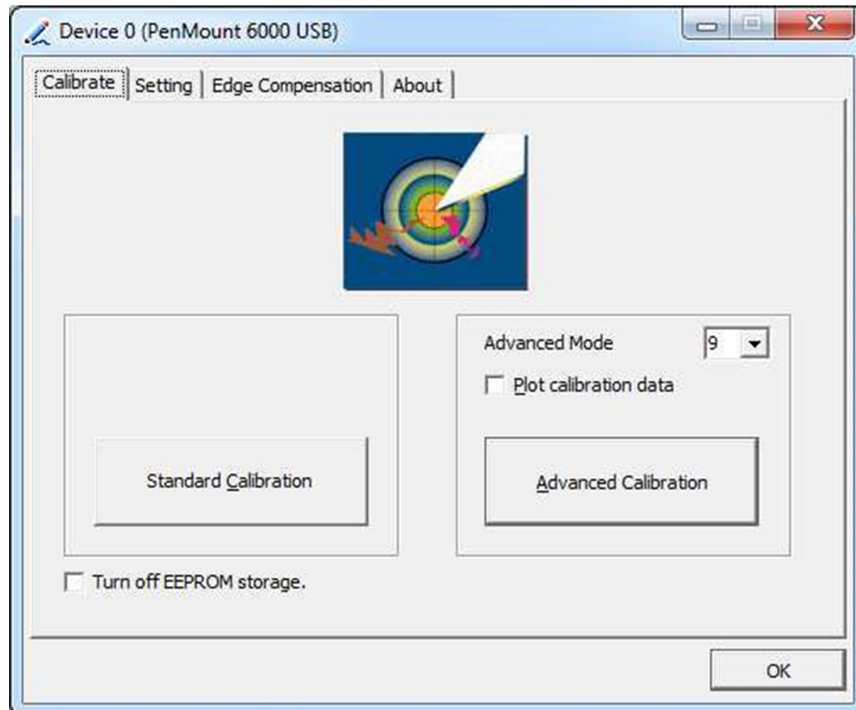
Step 2. Click **Standard Calibration**



NOTE: The older the touch screen is, the more Advanced Mode calibration points you need for an accurate calibration. Use a stylus during Advanced Calibration for greater accuracy.



Advanced Calibration – click Advanced Calibration



Plot Calibration Data	Check this function and a touch panel linearity comparison graph appears when you have finished Advanced Calibration. The blue
-----------------------	---

lines show linearity before calibration and black lines show linearity after calibration.

Multiple Monitors

Multiple Monitors support from two to six touch screen displays for one system.

The PenMount drivers for Windows XP/2003/Vista/Win7 support Multiple Monitors. This function supports from two to six touch screen displays for one system. Each monitor requires its own PenMount touch screen control board, either installed inside the display or in a central unit. The PenMount control boards must be connected to the computer COM ports via the RS-232/USB interface. Driver installation procedures are the same as for a single monitor. Multiple Monitors support the following modes:

Windows Extends Monitor Function

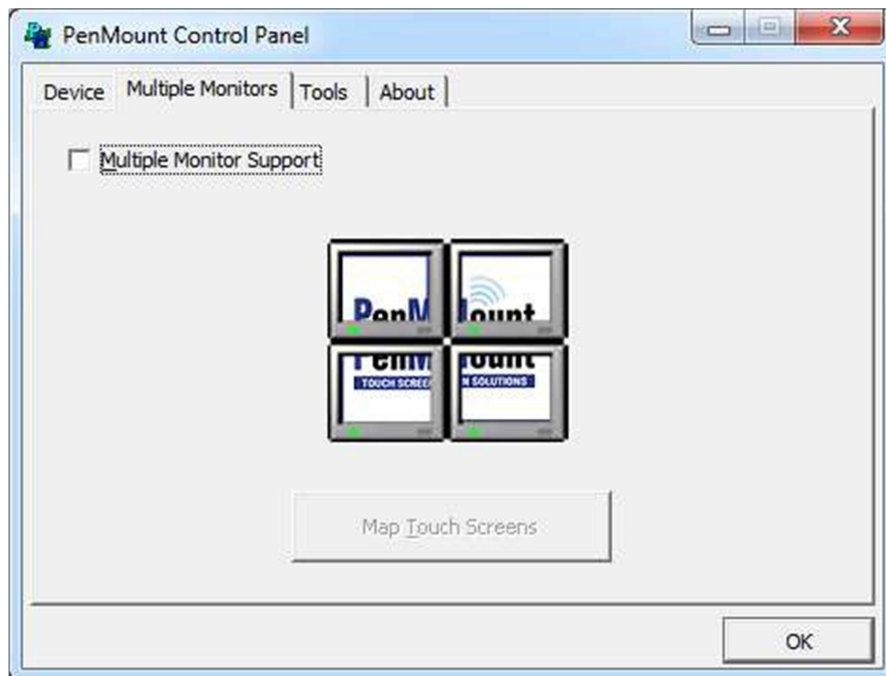
Matrix Dual Head Multi-Screen Function

NVIDIA view Function

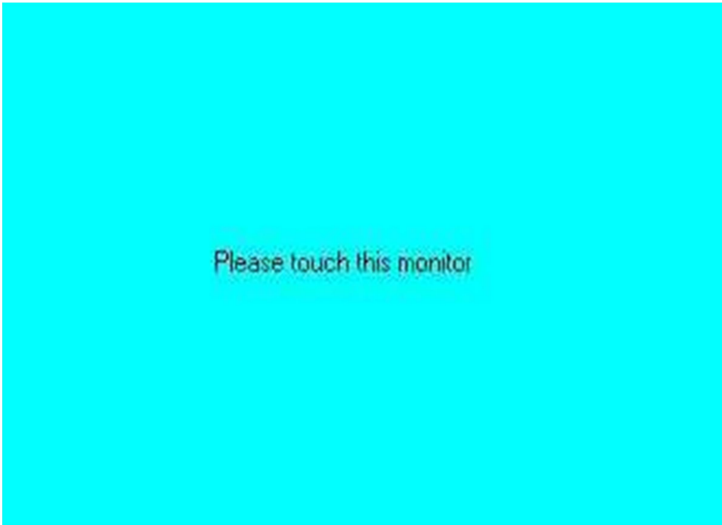
- **NOTE:** The Multiple Monitor function is for use with multiple displays only. Do not use this function if you have only one touch screen display. Please note once you turn on this function the rotating function is disabled.

Enable the multiple display function as follows:

1. Check the **Multiple Monitor Support** box; then click **Map Touch Screens** to assign touch controllers to displays.



2. When the mapping screen message appears, click **OK**.
3. Touch each screen as it displays "Please touch this monitor". Following this sequence and touching each screen is called **mapping the touch screens**.



- 4. Touching all screens completes the mapping and the desktop reappears on the monitors.
- 5. Select a display and execute the "Calibration" function. A message to start calibration appears. Click **OK**.

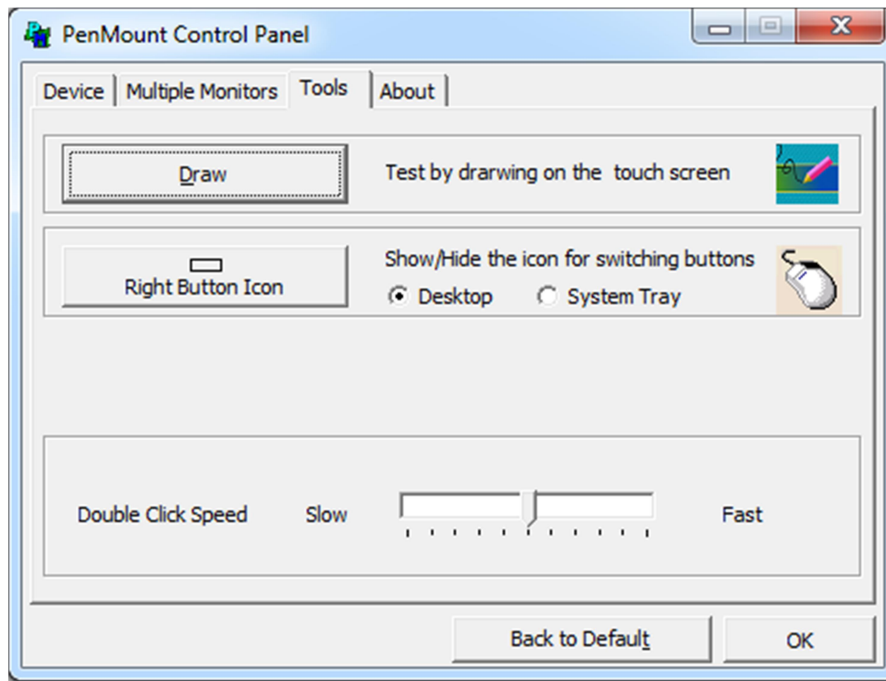


NOTES:

- 1. If you use a single VGA output for multiple monitors, please do not use the **Multiple Monitor** function. Just follow the regular procedure for calibration on each of your desktop monitors.
- 2. The Rotating function is disabled if you use the Multiple Monitor function.
- 3. If you change the resolution of display or screen address, you have to redo **Map Touch Screens**, so the system understands where the displays are.

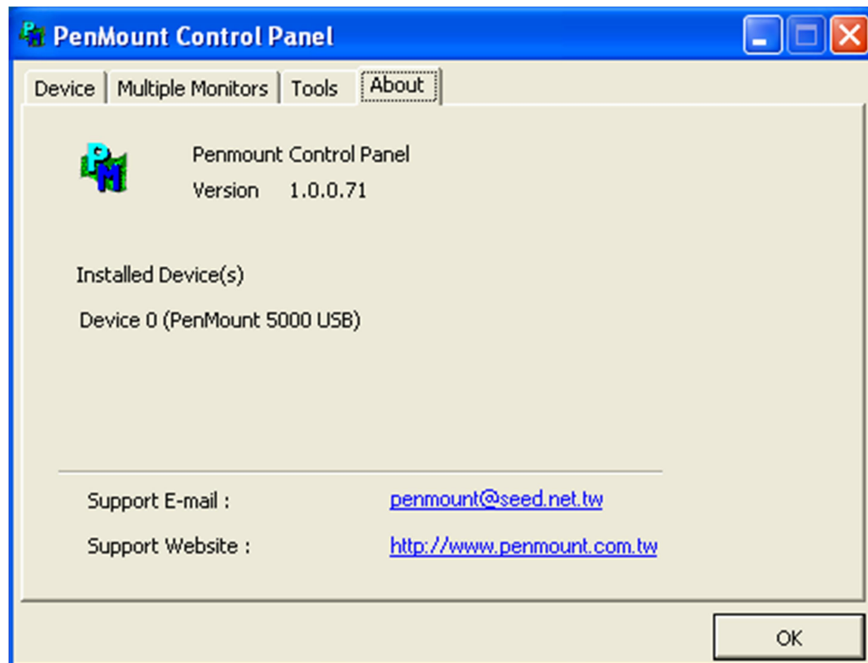
Tools

Draw	Tests or demonstrates the PenMount touch screen operation.
Right Button Icon	Enable right button function. The icon can show on Desktop or System Tray (menu bar).



About

This panel displays information about the PenMount controller and this driver version.




PenMount Monitor Menu Icon

The PenMount monitor icon (PM) appears in the menu bar of Windows XP/2003/Vista/Win7 system when you turn on the PenMount Monitor in the PenMount Utilities.



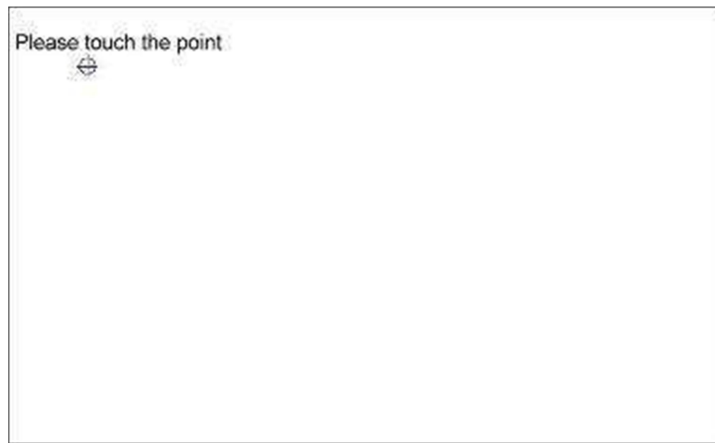
The PenMount Monitor has the following functions:



Control Panel	Open Control Panel Windows
Beep	Setting Beep function for each device
Right Button	When you select this function, a mouse icon appears in the right-bottom of the screen. Click this icon to switch between Right and Left Button functions. 
Exit	Exits the PenMount Monitor function.

Configuring the Rotation Function

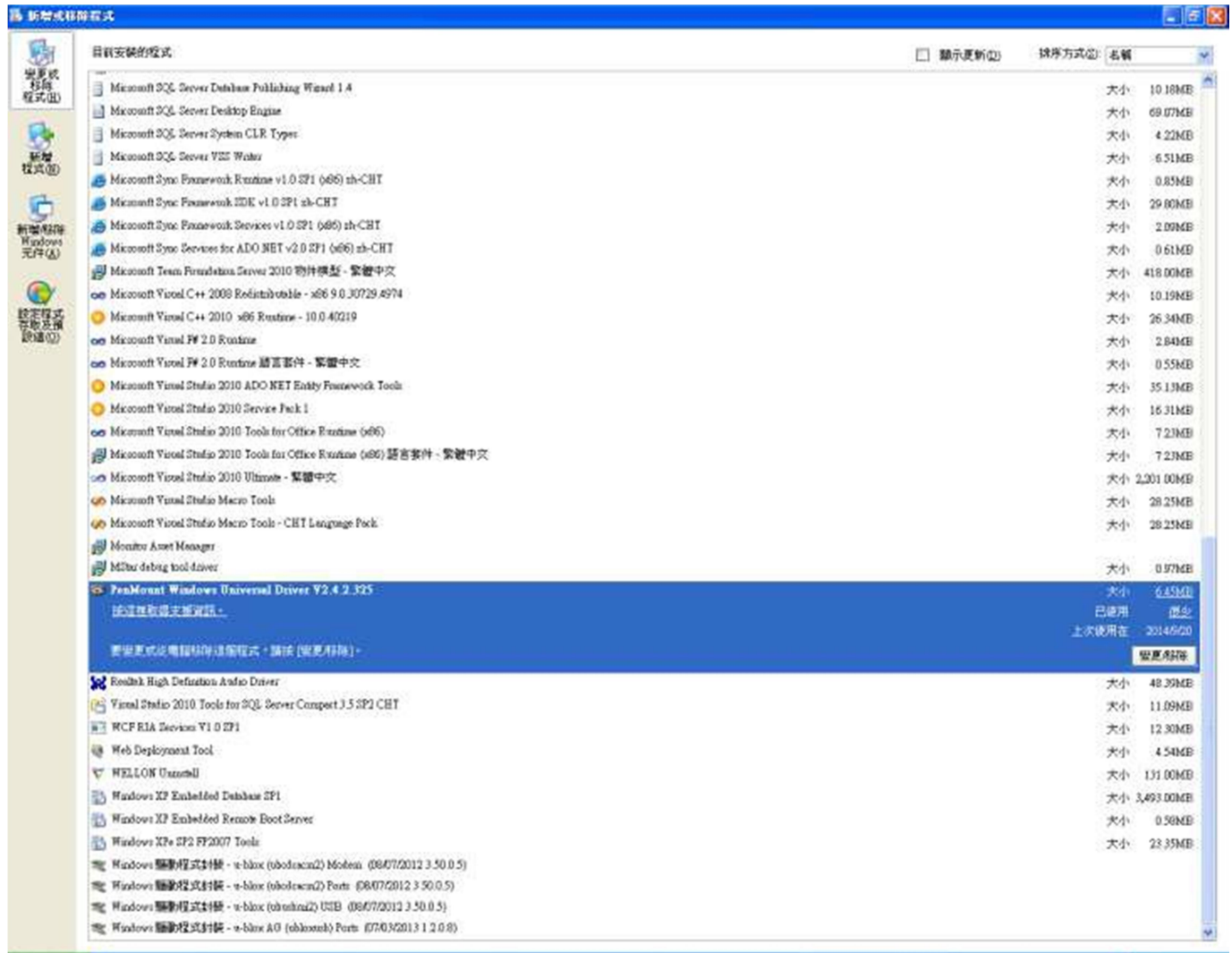
1. Install the rotation software package.
2. Choose the rotating function (0°, 90°, 180°, 270°) in the 3rd party software. The calibration screen appears automatically. Touch this point and rotation is mapped.



NOTE: The rotating function is disabled if you use Monitor Mapping

4.3 Uninstall the PenMount Windows Universal Driver

1. Exit the PenMount monitor (PM) in the menu bar.
2. Go to **Settings**, then **Control Panel**, and then click **Add/Remove program**. Select **PenMount Windows Universal Driver** and click the **Add/Remove** button.



3. Select "Yes" and "Close" to remove the PenMount Windows XP driver, and reboot the system.

Chapter 5 _____ Software

5.1 Software Functions

This chapter describes the special software functions that configure and adjust the PenMount controller board and touch screen hardware. Please note that all of the functions are available for every driver. Software functions and their availability for specific interface and systems are shown in the table below – a description for each function follows:

Software Function	XP/2003	VISTA/7/8	WinCE
Standard Calibration	●	●	●
Advanced Calibration	●	●	●
Multiple Monitors	●	●	
Multi Device	●	●	
Rotation	●	●	
Operation Mode	●	●	
Drawing mode	●	●	●
Beep Sound	●	●	
Beep sound adjustable	●	●	
Wake up function	●	●	
Showing linearity	●	●	
Right button	●	●	●
Hide cursor			
Double click area and speed adjustable	●	●	
About	●	●	
Edge compensation	●	●	
Refresh	●	●	

5.2 Software Function Description

Description for each of the software functions shown in the table above follows:

Standard Calibration

The Standard Calibration function lets you match the touch screen to your display so that the point you touch is accurately tracked on screen. Standard calibration only requires four points for calibration and one point for confirmation. Under normal circumstances, Standard Calibration is all you need to perform an accurate calibration.

Advanced Calibration

The Advanced Calibration function improves the accuracy of calibration by using more involved engineering calculations. Use this function only if you have tried the Standard Calibration and there is still a discrepancy in the way the touch screen maps to the display. You can choose 4, 9, 16 or 25 points to calibrate, though we suggest that you first try 9 points, if it is still not tracking well then try 16 or 25 points. The more points you use for calibration, the greater the accuracy. Errors in calibration may occur due to viewing angle, or individual skill, and there may be little difference in using 16 or 25 points. Note that a stylus is recommended for the most accurate results.

Multiple Monitors

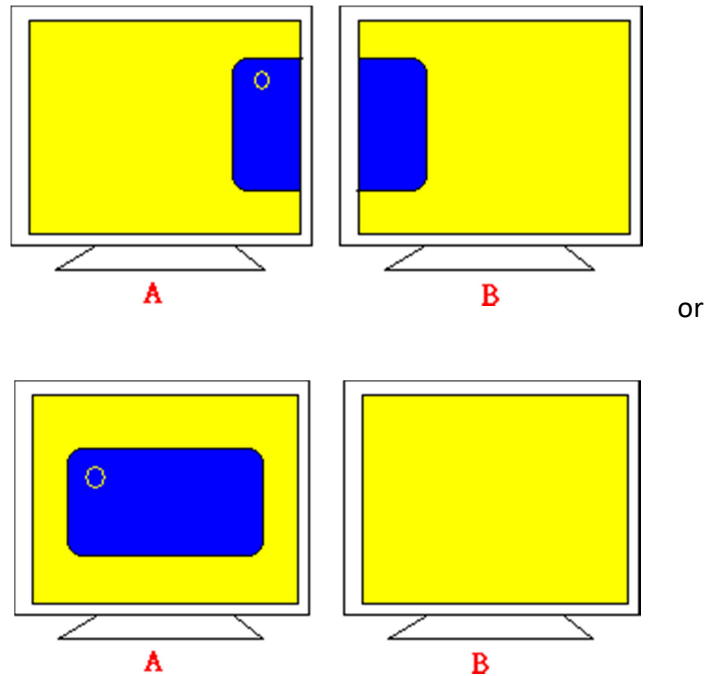
Until now most touch screen systems only support one monitor, and users of multiple monitors have not been able to use touch screen systems. This situation has inspired PenMount to design and develop Multiple Monitors support using the PenMount 9036CH5/6300A5 control board and Windows XP/2003/Vista/Win7 driver. Our advanced design supports from 2 to 6 monitors that can be split horizontally or vertically.

Multiple Devices

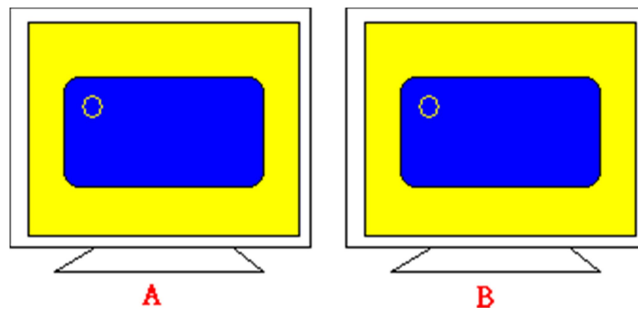
The Multiple Devices function is designed to let you use two or more monitors to display the same image. Software that supports this function includes the PenMount 9000/6000 series drivers. The drivers for PenMount 9000 series can support up to six control boards, and the drivers for PenMount 6000 series support up to 16.

Comparing Functions

The difference between the Multiple Monitors function and the Multiple Devices function are illustrated below:



The Multiple Monitors function shown above extends the screen into 2 or more monitors.



The Multiple Devices function displays the same image on two or more monitors.

Rotation

There are currently a number of software packages on the market that support rotating monitors 0°, 90°, 180°, and 270°. However, you will not be able to use a touch screen unless it is matched to the appropriate rotation. Our rotation configuration function allows you to easily match the touch screen when you rotate your monitor.

If you use a rotating monitor, you will need a display card such as from nVidia, Intel, SMI or ATI and software such as Portrait Pivot Pro. For software operation and features, please refer to your software manual.

Configuring the rotation function is easy. Select this option and a 'point' appears for you to touch. Once the

point is touched, the software driver understands which degree you plan to rotate your display. The rotation function supports 90, 180 and 270 degrees rotation.



0 degrees



90 degrees



180 degrees



270 degrees

Stream/Point Mode

Stream and point modes control the touch and drag function of the touch screen. The point mode only allows “touch” interaction with the screen and does not allow the user to drag objects. The point mode is useful for maintaining the location of screen icons such on POS terminals. The stream mode allows a user to touch and drag icons and other items around on the screen, similar to using a mouse.

Drawing Mode

Drawing mode is a utility that lets the user draw on the screen using a finger or stylus. This allows the user to test the touch screen and touch controller to see if it is operational or is mapped correctly. The drawing mode can display either the matrix address of points touched or just show lines drawn. One of the PenMount driver’s strengths is a special mathematical algorithm that minimizes the occurrence of noise and smooth’s the drawingof lines.

Beep Sound

All of PenMount’s drivers support the beep sound function; however, some PC systems may only offer a fixed buzzer sound.

Beep Sound Adjustable

Software drivers for Windows systems let the user adjust the frequency and length of the beep sound. The drivers let the user adjust the desired touch screen sound, as well as turn the sound off.

Wake Up Function

The Wake Up function lets the user touch the screen and wake the system up from 'suspend' mode.

Point Calibration Data

The Plot Calibration Data function displays the touch screen linearity map, which is available if the PenMount driver provides an Advance Calibration function when touch screens age their touch linearity declines. This non-linearity is apparent when the touched point on the touch screen is not the same as the point on the display. The plot calibration data function shows the linearity status of the touch screen. This is only a support function for the user. The exact linearity of a touch screen requires a linearity test machine.

Right Button

The Right Button function simulates the right button function of a mouse. Click the right button and the user can only touch the screen once and the driver changes the touch definition to the left button.

Hide Cursor

The Hide Cursor function keeps the cursor arrow and other cursor symbols from appearing when using the touch screen. The cursor appears when the user turns this function off.

Cursor Offset

The Cursor Offset function lets the user adjust the position of the touch point to a desired location away from the real touch point.

Double-Click Area and Speed

The Double-Click Area and Speed function lets the user adjust the double-click area and speed to their personal preference.

About

This option shows the exact version of the drivers and controller firmware. Updated drivers are available for download on the PenMount website.