

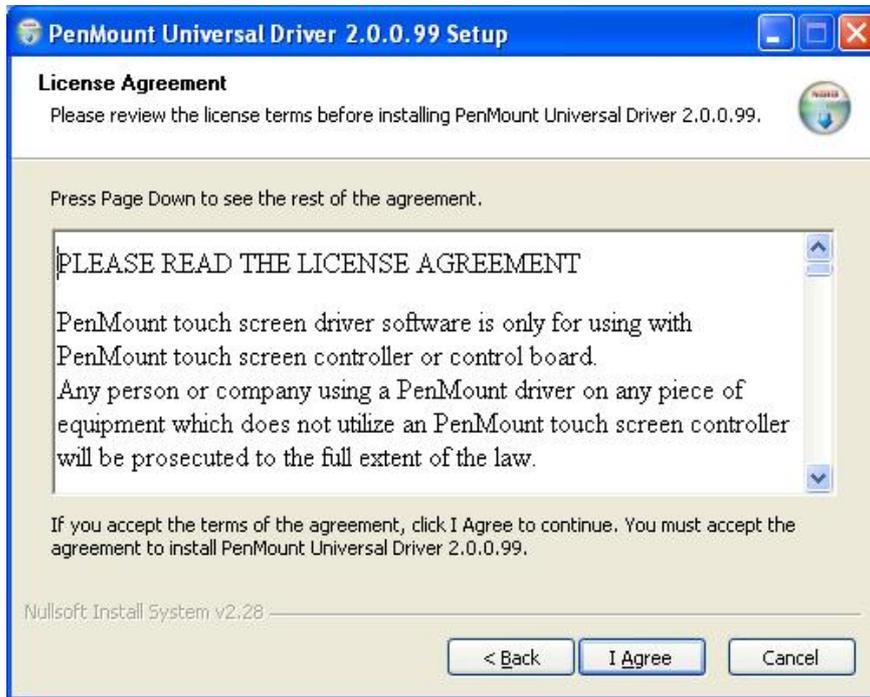
Windows 2000/XP/2003/Vista Universal Driver Installation Guide for PenMount Series

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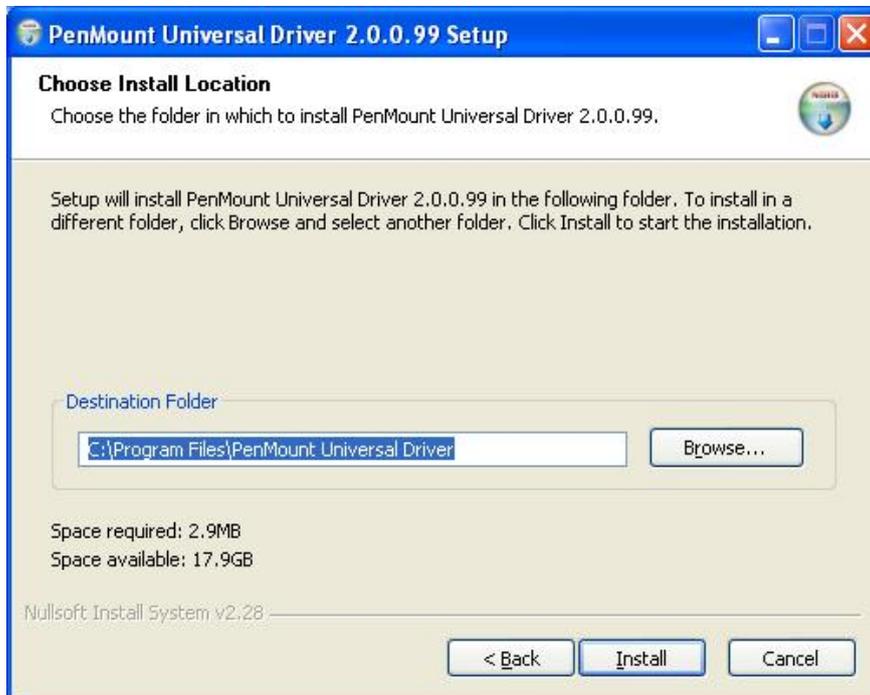
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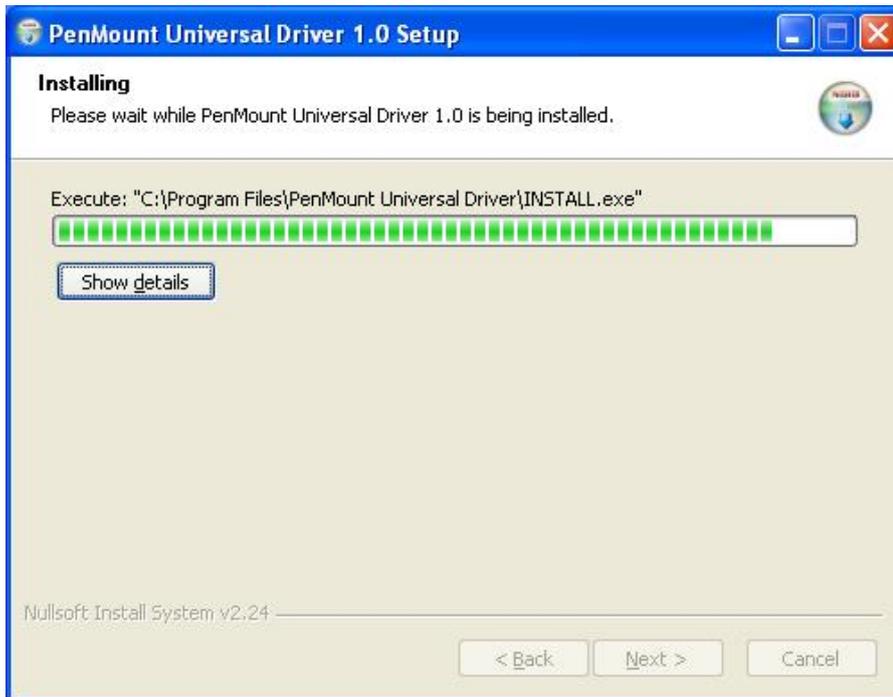
Installing Software for PenMount Series

3. A License Agreement appears. Click **“I accept...”** and **“Next”**



4. Ready to Install the Program. Click **“Install”**





6. When the warning message screen appears, please click “**Continue Anyway**” to continue. For RS232 interface, it will appear one time.



For USB interface, it will appear twice.



7. The “InstallShield Wizard Completed” appears. Click “**Finish**”.



Software Functions

Upon rebooting, the computer automatically finds the new PenMount controller board. The touch screen is connected but not calibrated. Follow the procedures below to carry out calibration.

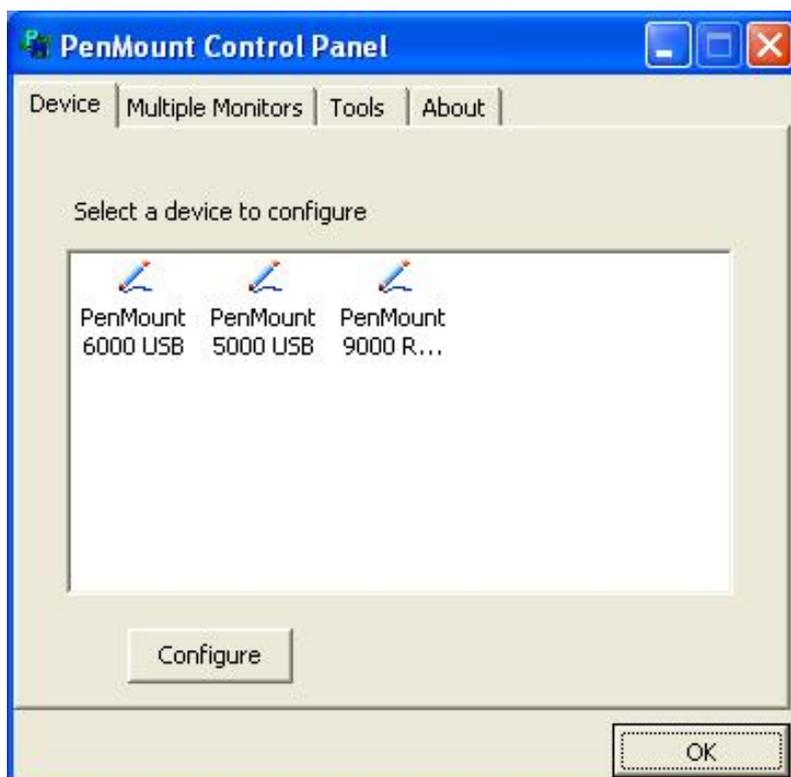
1. After installation, click the PenMount Monitor icon “PM” in the menu bar.
2. When the PenMount Control Panel appears, select a device to “Calibrate.”

PenMount Control Panel

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

Device

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



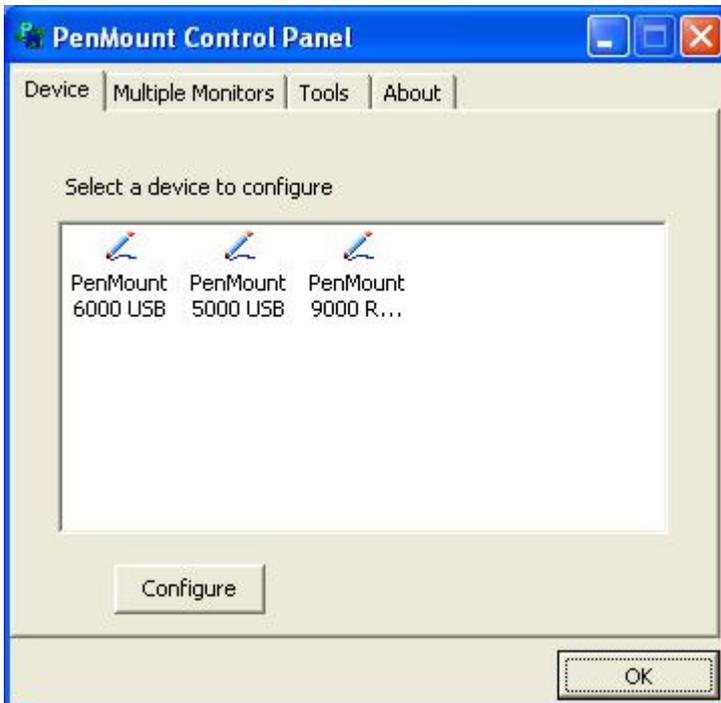
Calibrate

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

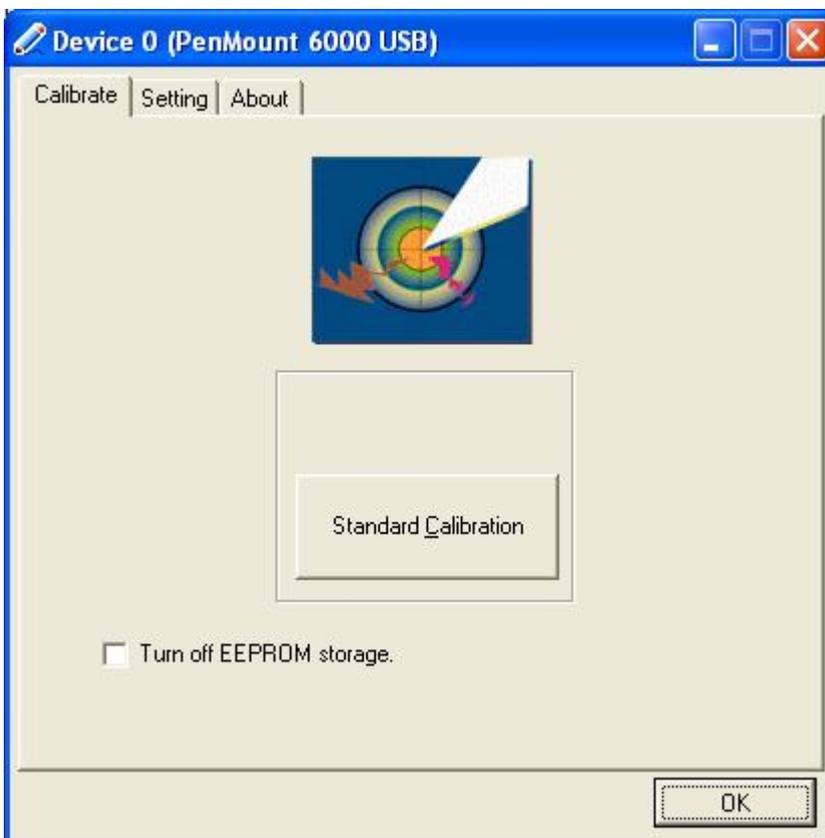
Standard Calibration	Click this button and arrows appear pointing to red squares. Use your finger or stylus to touch the red squares in sequence. After the fifth red point calibration is complete. To skip, press ‘ESC’.
Advanced Calibration	Advanced Calibration uses 4, 9, 16 or 25 points to effectively 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’.
Command Calibration	<p>Command call calibration function. Use command mode call calibration function, this can uses Standard, 4, 9, 16 or 25 points to calibrate</p> <p>E.g. Please run ms-dos prompt or command prompt</p> <p>c:\Program Files\PenMount Universa Driver\Dmctr.exe -calibration 0(Standard Calibration)</p> <p>Dmctr.exe - calibration (\$)</p> <p>0=Standard Calibration</p> <p>4=Advanced Calibration 4</p> <p>9=Advanced Calibration 9</p> <p>16=Advanced Calibration 16</p> <p>25=Advanced Calibration 25</p>

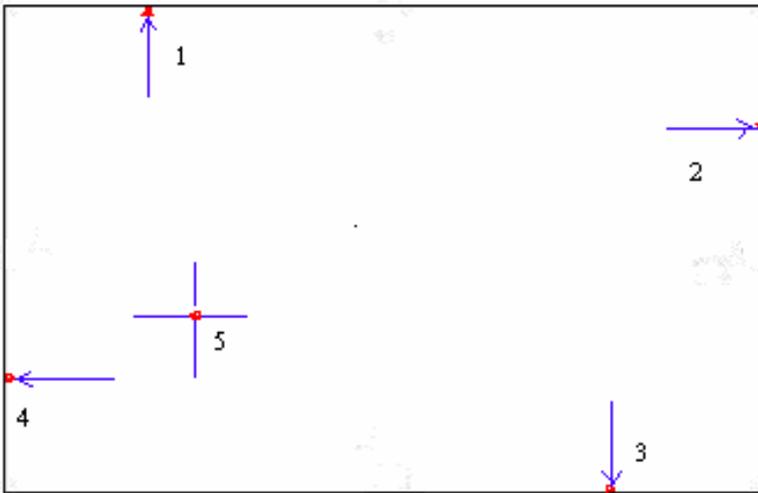
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1. Please select a device then click “Configure”. You can also double click the device too.



2. Click “Standard Calibration” to start calibration procedure





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

3. Come back to “PenMount Control Panel” and select “**Tools**” then Click “**Advanced Calibration**”.

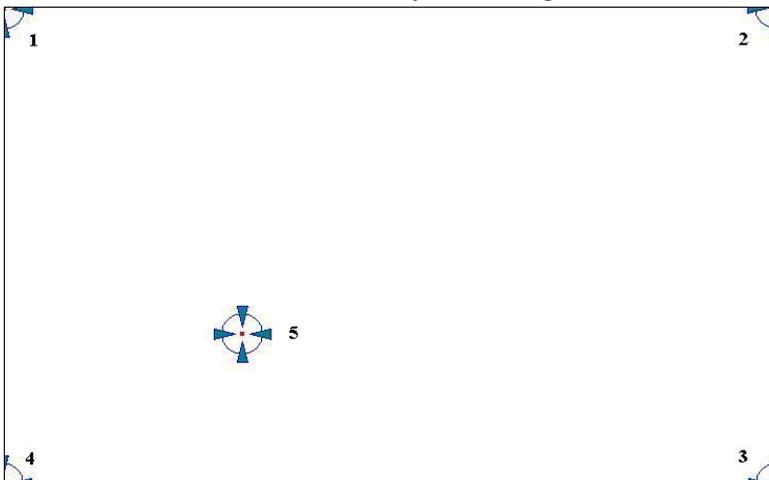


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Select “**Device**” to calibrate, then you can start to do “Advanced Calibration”.



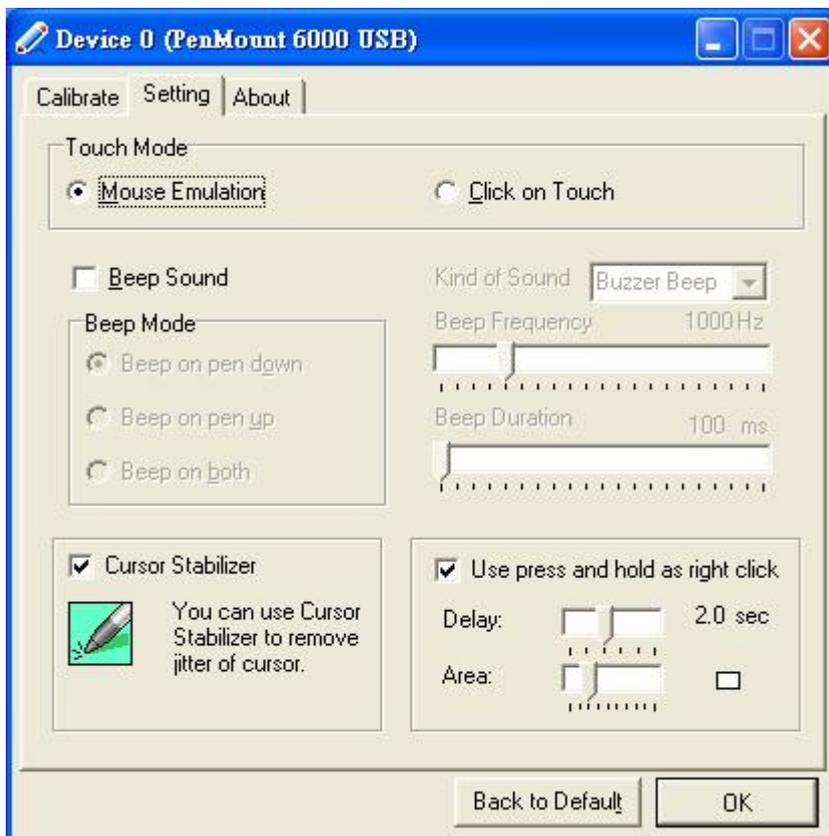
NOTE: Recommend to use a stylus during Advanced Calibration for greater accuracy.



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.
Turn off EEPROM storage	The function disable for calibration data to write in Controller. The default setting is Enable

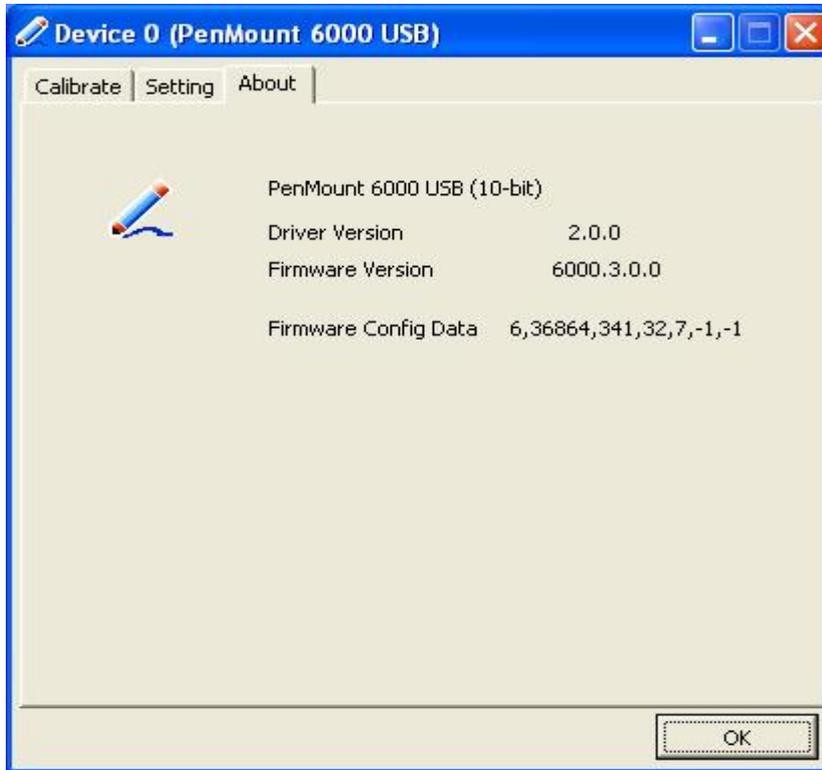
Setting

Touch Mode	<p>This mode enables and disables the mouse’s ability to drag on-screen icons—useful for configuring POS terminals.</p> <p>Mouse Emulation – Select this mode and the mouse functions as normal and allows dragging of icons.</p> <p>Click on Touch – Select this mode and the mouse only provides a click function, and dragging is disabled</p>
Beep Sound	<p>Enable Beep Sound – turns beep function on and off</p> <p>Beep on Pen Down – beep occurs when pen comes down</p> <p>Beep on Pen Up – beep occurs when pen is lifted up</p> <p>Beep on both – beep occurs when comes down and lifted up</p> <p>Beep Frequency – modifies sound frequency</p> <p>Beep Duration – modifies sound duration</p>
Cursor Stabilizer	<p>Enable the function support to prevent cursor shake.</p>
Use press and hold as right click	<p>You can set the time out and area for you need</p>



About

This panel displays information about the PenMount controller and driver version



Multiple Monitors

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

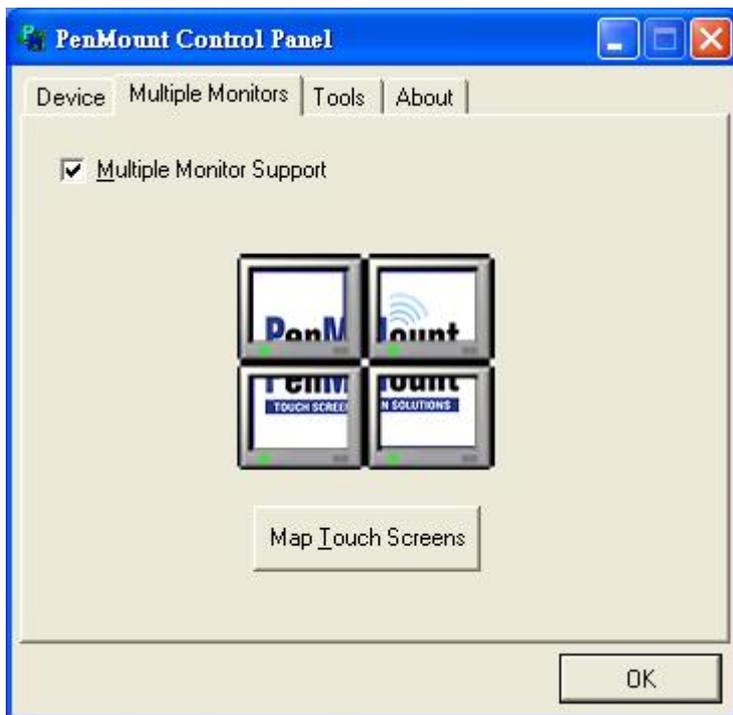
The PenMount drivers for Windows 2000/XP/2003/Vista support Multiple Monitors. This function supports from two to six touch screen displays for one system. Each monitor requires its own PenMount touch screen control board, either installed inside the display or in a central unit. The PenMount control boards must be connected to the computer COM ports via the RS-232 interface. Driver installation procedures are the same as for a single monitor. Multiple Monitors supports the following modes:

- Windows Extend Monitor Function
- Matrox DualHead Multi-Screen Function
- nVidia nView Function

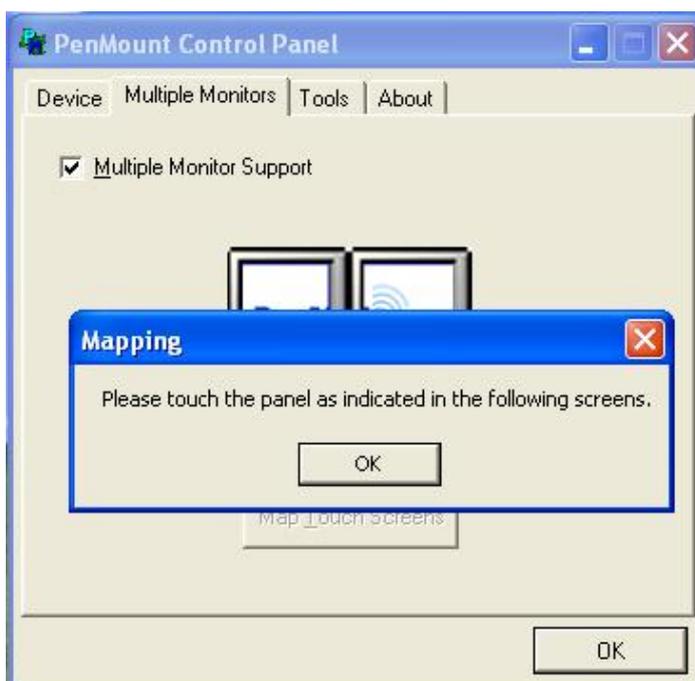
NOTE: The Multiple Monitors function is for use with multiple displays only. Do not use this function if you have only one touch screen display. Please note once you turn on this function the Rotating function is disabled.

Enable the multiple display function as follows:

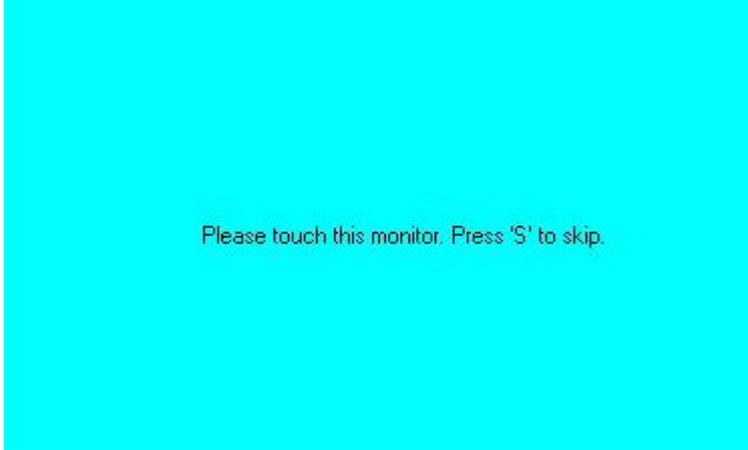
1. Check the “**Multiple Monitor Support**” box; then click “**Map Touch Screens**” to assign touch controllers to displays.



2. When the mapping screen message appears, click “**OK**”



3. Touch each screen as it displays “**Please touch this monitor. Press ‘S’ to skip**” Following this sequence and touching each screen is called **mapping the touch screens**.



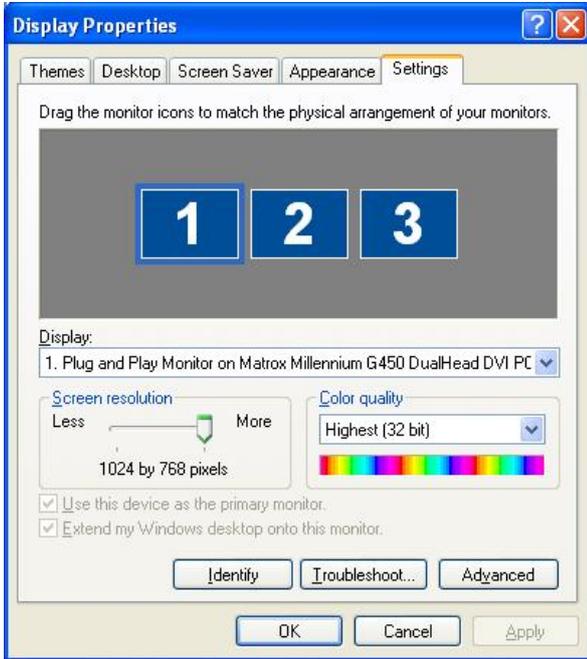
4. After the setting procedure is finished, maybe you need to calibrate for each panel and controller

NOTES:

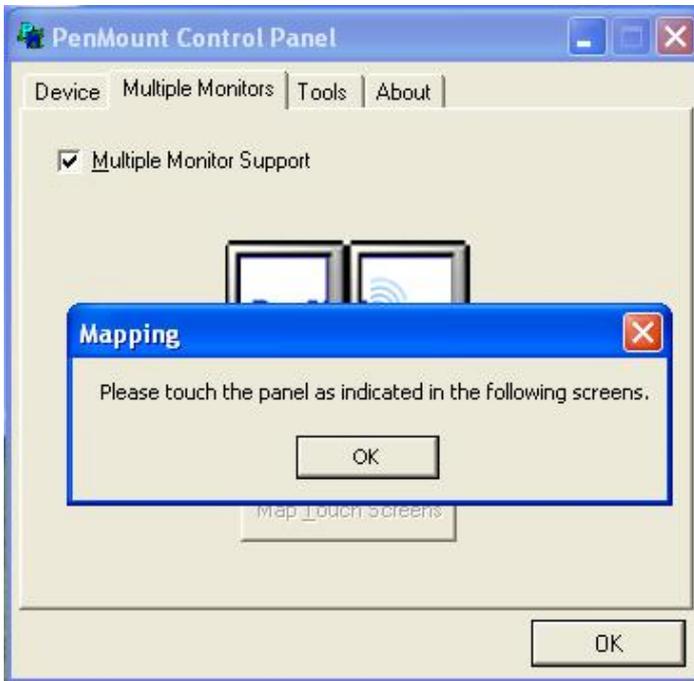
1. If you used a single VGA output for multiple monitors, please do not use the **Multiple Monitors** function. Just follow the regular procedure for calibration on each of your desktop monitors.
2. The Rotating function is disabled if you use the Multiple Monitors function.
3. If you change the resolution of display or screen address, you have to redo **Map Touch Screens** so the system understands where the displays are.
4. If you more monitor mapping one touch screen, **Please press ‘S’ to skip mapping step.**

An example for 3 units of touch monitor

a. Please make sure the touch monitor had plugged in and detected.



b. click “Map Touch Screens” then click “OK”



c. Please follow the message show the display to match the controller and touch screen

c-1. Please click “S” to skip if the monitor without use touch screen.



c-2. When screen jump to Screen 2, please touch it. If screen 2 has no touch function, press “S” to skip it.



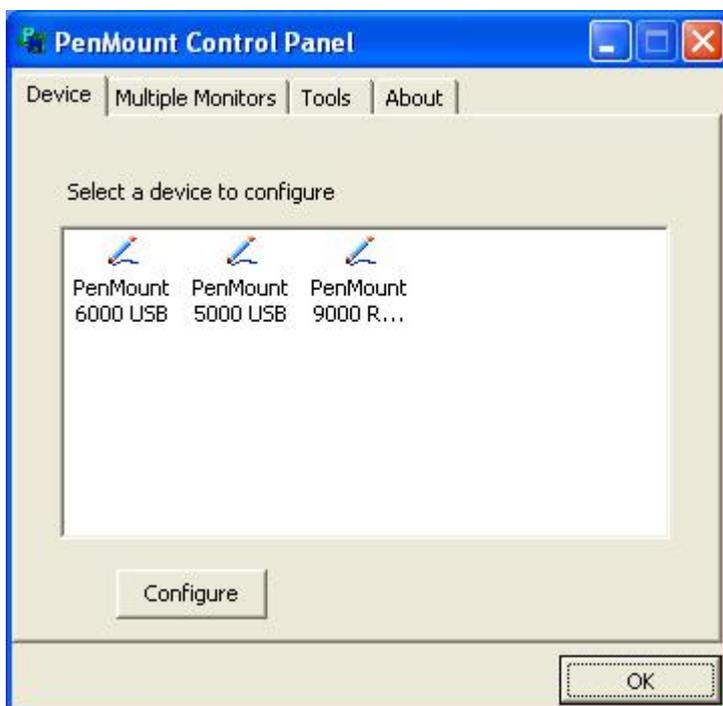
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c-3. When screen jump to Screen 3, please touch it. If screen 3 has no touch function, press “S” to skip it. Afterwards, it should be completed Map touch screen.



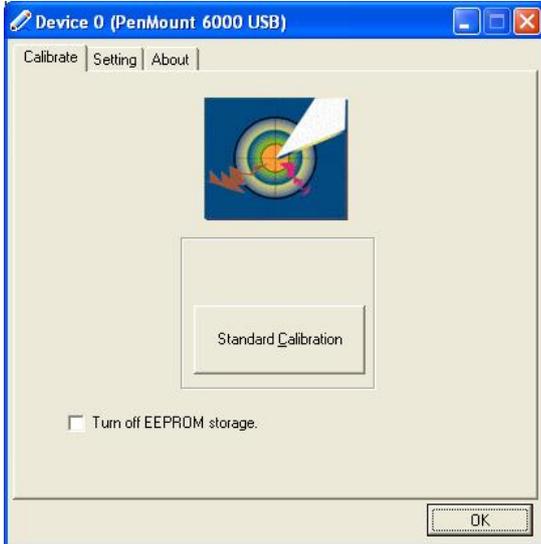
d. Before doing the calibration, you have to finish the procedure of “**Map touch screens**”

d-1. Please do the calibration for each device in sequence.



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d-2. Press each device & start to do standard Calibration, for instance, device 0.

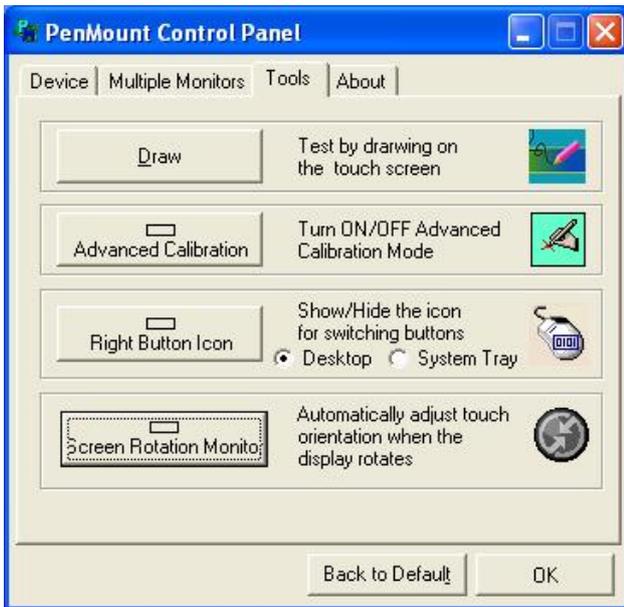


d-3. After press device 0, one of screens will show calibration map. Please follow points to calibrate it. When you completed one device, do please do others as the same way.



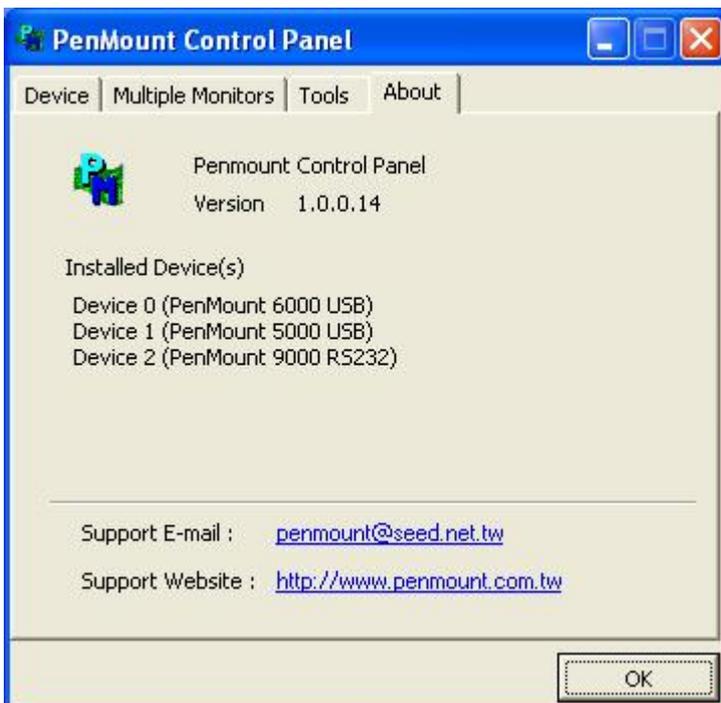
Tools

Draw	Tests or demonstrates the PenMount touch screen operation.
Advanced Calibration	Enable Advanced Calibration function
Right Button Icon	Enable right button function. The icon can show on Desktop or System Tray (menu bar).
Screen Rotation Monitor	The function support nVidia, Intel, SMI or ATI and software such as Portrait Pivot Pro rotation automatic detection.



About

You can see how many devices of PenMount controller that are plugged to your system

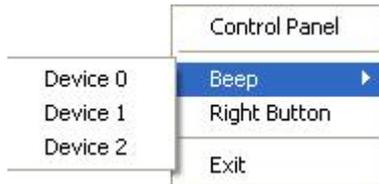


PenMount Monitor Menu Icon

The PenMount monitor icon (PM) appears in the menu bar of Windows 2000/XP/2003/Vista system when you turn on PenMount Monitor in PenMount Utilities.



PenMount Monitor has the following function



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.

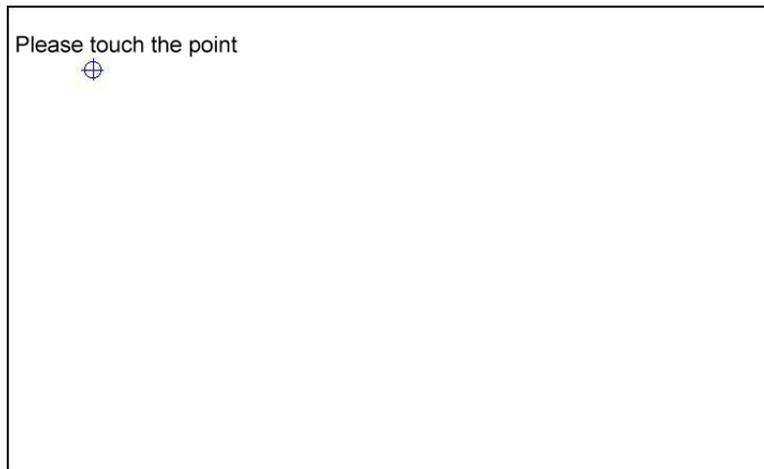
PenMount Rotating Functions

The PenMount driver for Windows 2000/XP supports several display rotating software packages. Windows Me/2000/XP support display rotating software packages such as:

- Portrait's Pivot Screen Rotation Software
- ATI Display Driver Rotate Function
- nVidia Display Driver Rotate Function
- SMI Display Driver Rotate Function
- Intel Display Driver Rotate Function

Configuring the Rotate Function

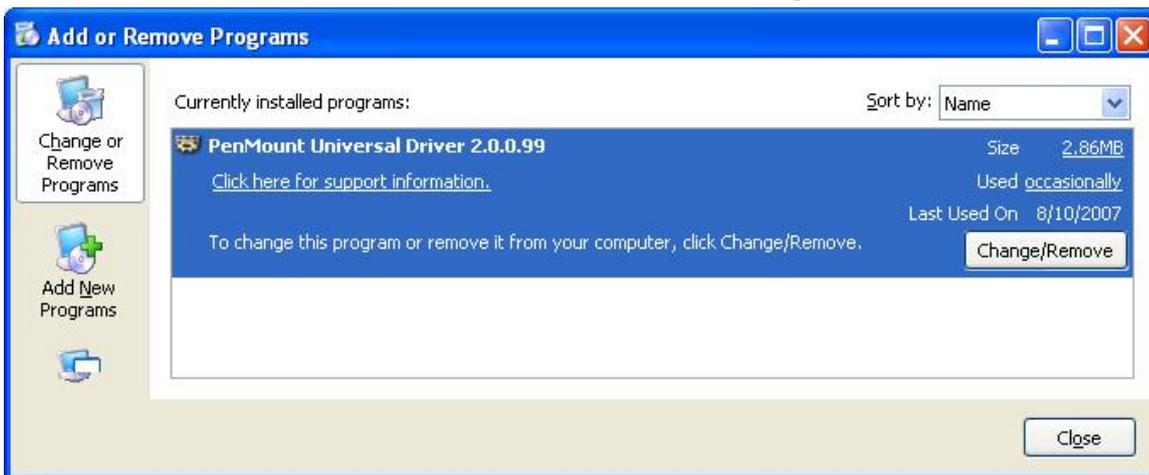
1. Install the rotation software package.
2. Choose the rotate function (0°, 90°, 180°, 270°) in the 3rd party software. The calibration screen appears automatically. Touch this point and rotation is mapped.



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

Uninstall Software

1. Exit the PenMount monitor (PM) in the menu bar in advance.
2. Go to Settings, then Control Panel, and then click “Add/Remove program”
3. Select ”PenMount Universal Driver 1.0”. Click the “**Chang/Remove**” button.



4. Select ‘Yes’ to remove the PenMount driver.



5. Select ‘Yes’ to reboot your system or ‘No’ to reboot your system later.

