

PenMount 9084 Control Board Setup



PenMount 9084 control board is the new control board from Salt, its touch screen controller is DMC9000 that interfaces analog resistive touch screens to a personal computer through COM port. PenMount 9084 control board is designed to have a small mechanical size in order to be located inside the system easily. Together with PenMount driver counterparts on various, PenMount 9084 control board becomes the most popular touch screen solution worldwide. It's designed to have LED one board to show the touch status and also bundled with three interface cables, customer only needs to power in 5V to 12V DC power to the board, and via RS-232 interface to computer system, PenMount touch screen solution is in your hand.

PenMount 9084 Control Board Features:

Design for best touch performance and easy configuration

Design for best cost arrangement

Supporting 1024*1024 pen device resolution

Built-in 10-bit A/D converter inside the DMC9000

Fast conversion and transmission, 19200 baud rate fixed

Upgraded noise handling mechanism (3 level scheme)

Fixed and high speed sampling rate

4-wire and 8-wire touch screen supported

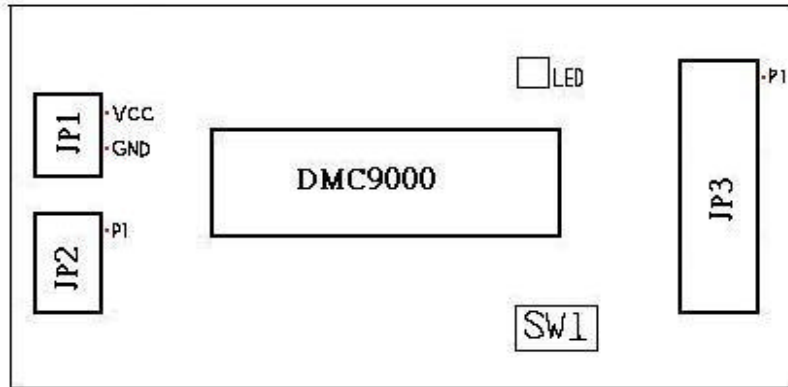
RS-232 interface supported

5V to 12V power input

Power protection fuse to protect the circuit

Touch activated indication LED on board

PenMount 9084 Control Board Description



PenMount 9084 control board

JP1:

Power cable: 5V to 12V DC power

JP2:

RS-232 cable connector: PIN 1: RTS

PIN 2: TXD

PIN 3: RXD

PIN 4: GND

JP3: Touch Screen cable, for 4-wire or 8-wire touch screen

SW1: always set at "ON" for 4-wire or 8-wire touch panel

PenMount 9084 Control Board Hardware Installation

1. Connect the RS-232 cable to JP2 on the control board.
2. Connect the RS-232 cable's DB-9 female connector to a nine pins serial COM port on the back of the computer.
3. Connect the touch screen to the controller using one of the controller interconnect cables (4-wire or 8-wire).
4. Connect the DC power cable to JP1. (5V to 12V)

PENMOUNT WINDOWS 2000/XP DRIVER INSTALLATION

This driver supports Windows 2000 and XP system. PenMount Windows 2000/XP driver detail contents are list as below:

‘DMC9000.inf’

‘DMC9000.sys’

‘SETUP.EXE’

There are several functions in PenMount Windows 2000/XP driver.

PenMount monitor

After PenMount Windows 2000/XP driver installed, the PenMount monitor will appear on the menu bar of the system. It is easy for user to call other PenMount utilities or functions on line.

Right button selectable

This emulates mouse right button function on touching.

Beep Sound

Sound when touch the touch panel

PenMount Windows 2000/XP driver installation

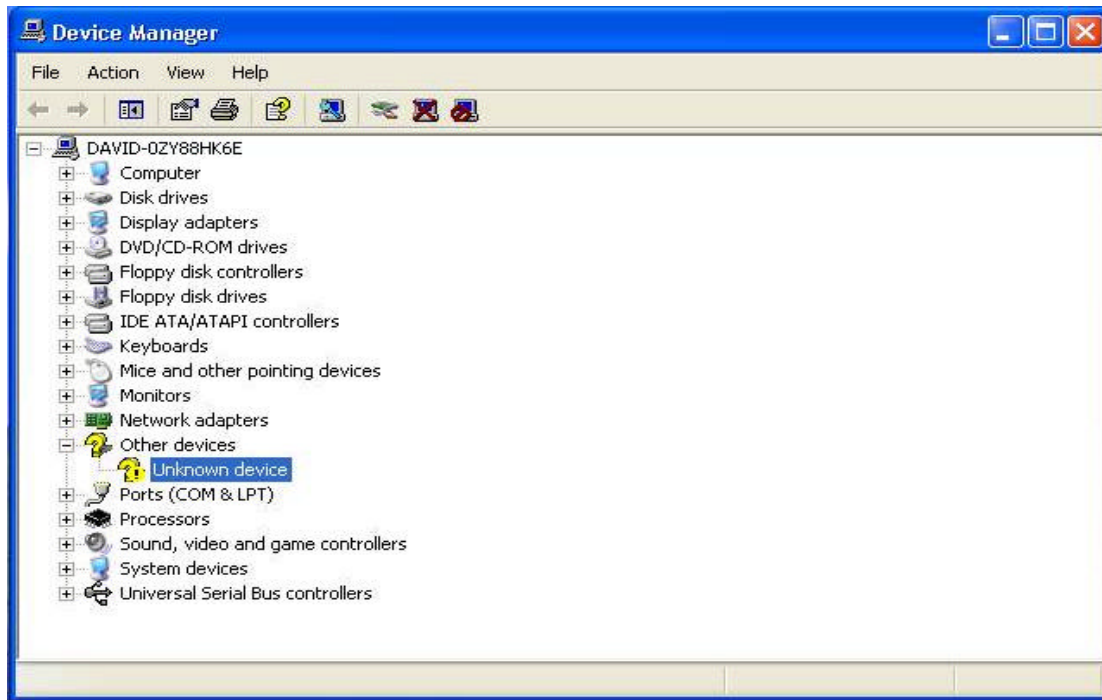
To install the software to your computer, you must have Windows 2000 or XP system running. If you have an older version PenMount Windows 2000 driver installed in your system, please remove it first. Follow up the steps below to install the PenMount Windows 2000/XP driver

Step 1. Please note that the installation procedures will be different. It depends on different computer systems. If your screen shows the following display (as Fig. 1), select "Install from a list or specific location (Advanced)" and press 'Next' and go to Step 5. for continuous installation.

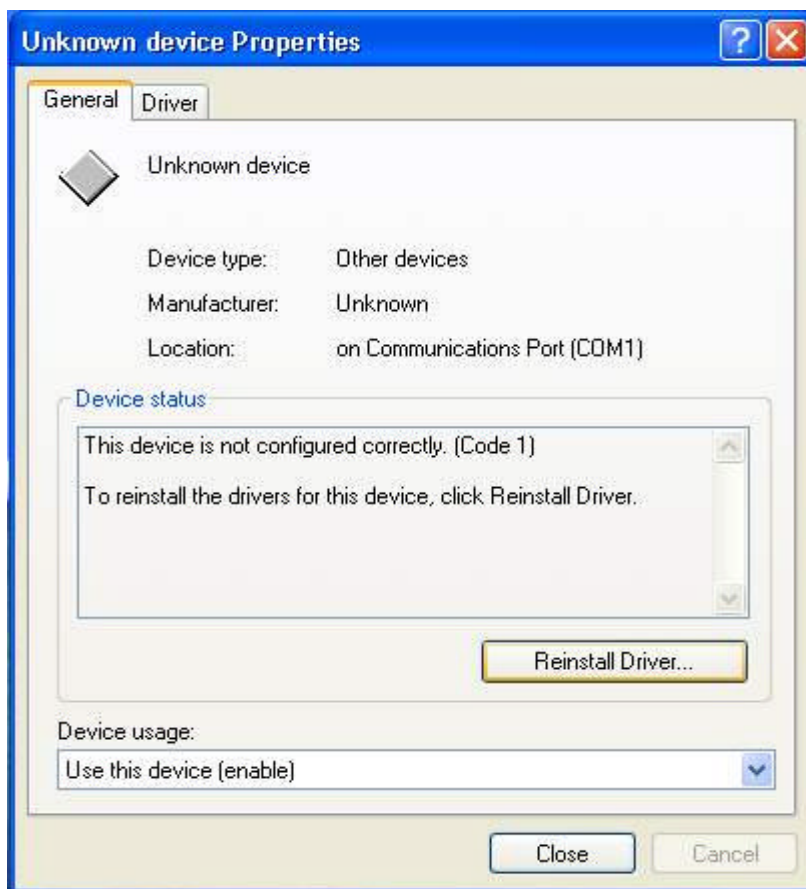


Fig 1

Step 2. If your screens' message does not show as Fig. 1 , then from "Start", select "Control Panel", select "System", select "Hardware", select "Device Manager", then double click the "Unknown device"



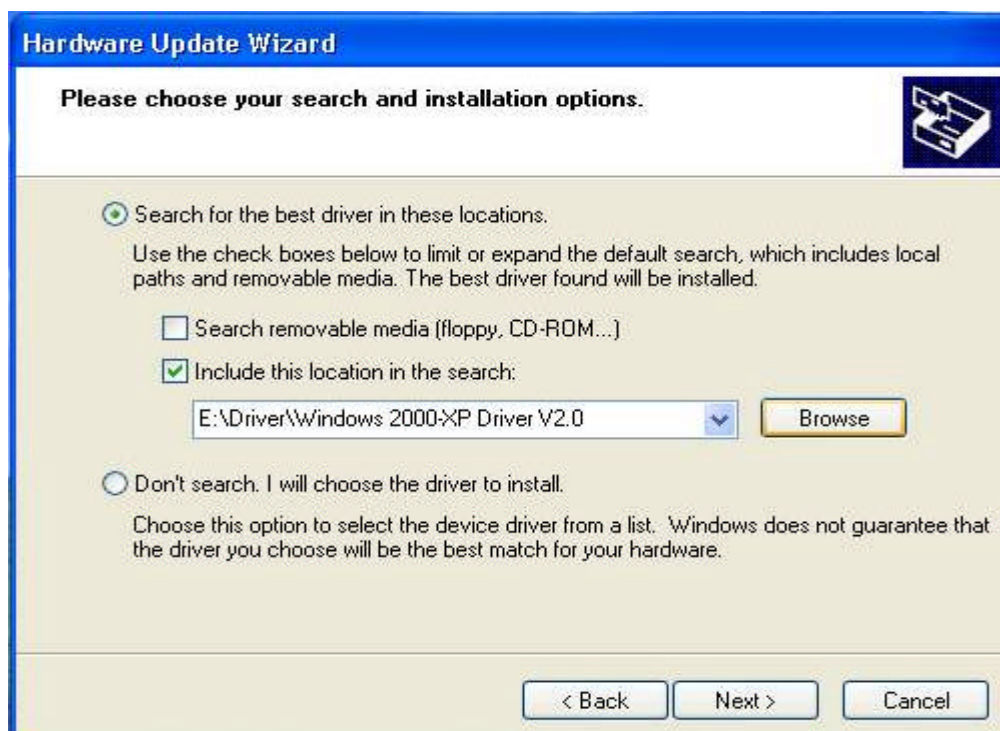
Step 3. Then the next screen is as below, select “Driver”, then ”Reinstall Driver”



- Step 4. Select “Install from a list or specific location(Advanced)”, and click ”Next”



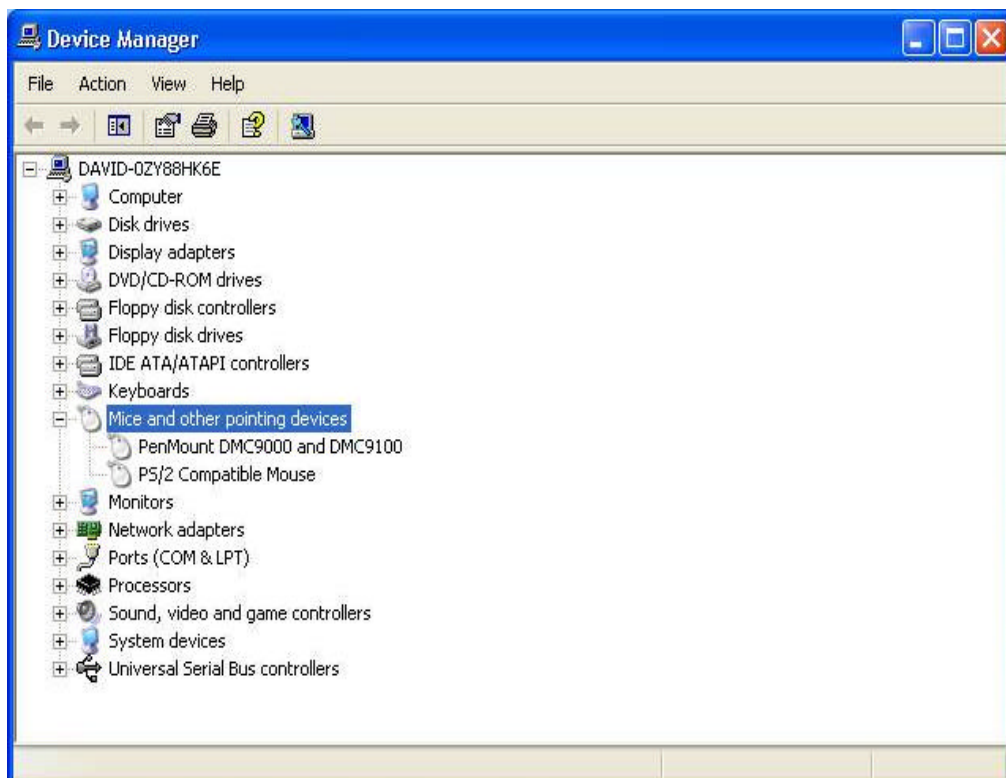
- Step 5. Insert PenMount DMC9000 drivers CD-ROM, select ”Search for best driver in these locations” and choose ”Include this location in the search”, and click ‘ Next’



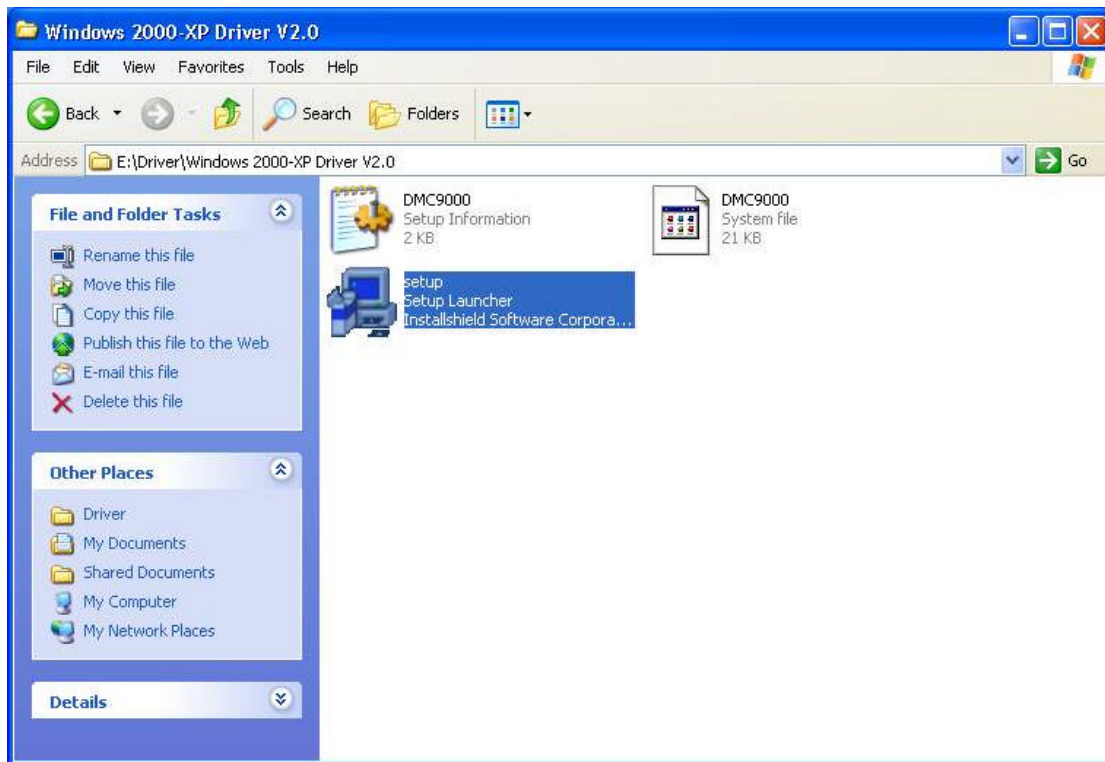
Step 6. The installation is finished. Click "Finish"



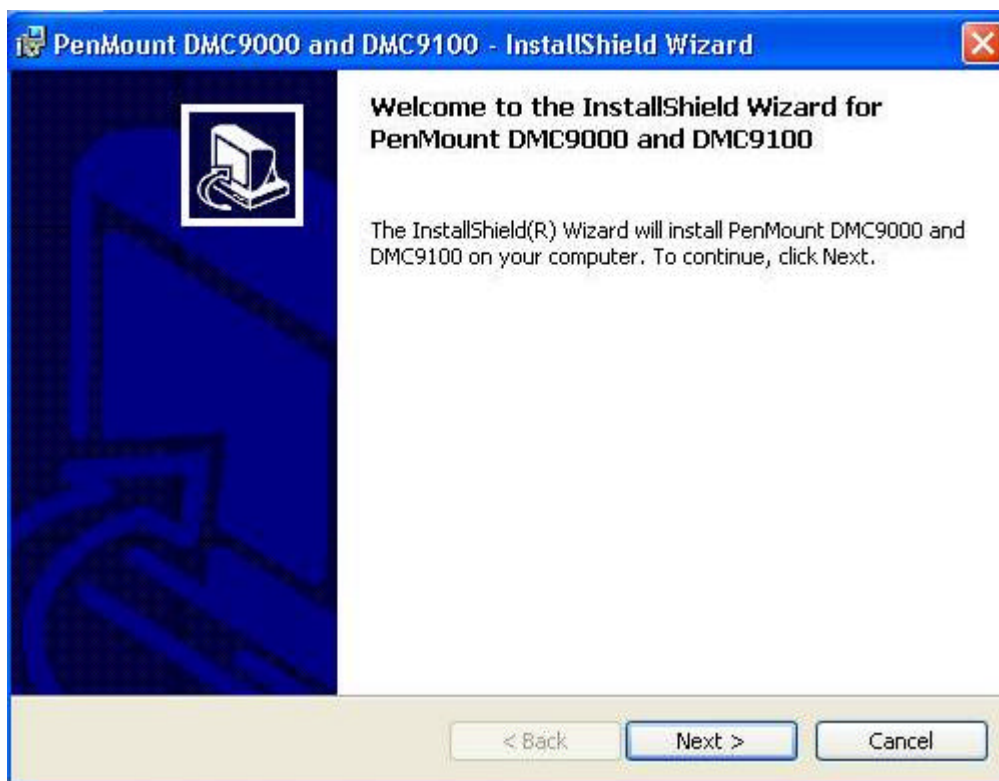
Step 7. The screen will show "PenMount DMC9000 and DMC9100" under "Mice and other pointing devices" as below if your installation is successful. Otherwise, you need to go back to the Step 1 to Step 6 to reinstall the driver again.



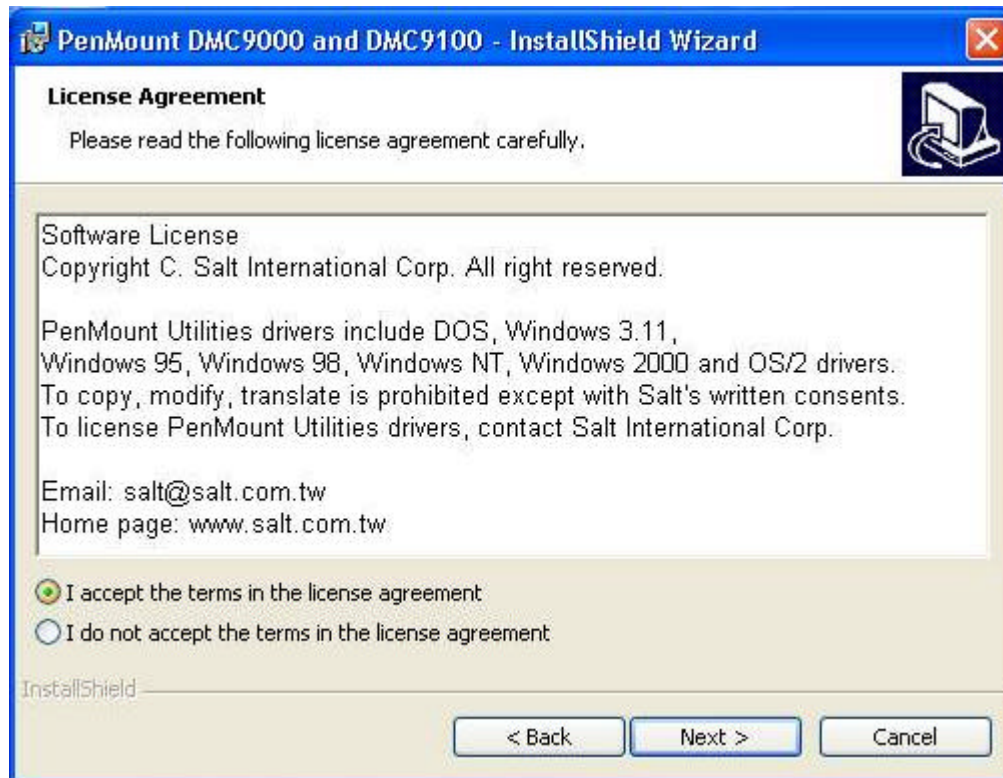
Step 8. Please select the CD-ROM to start installation



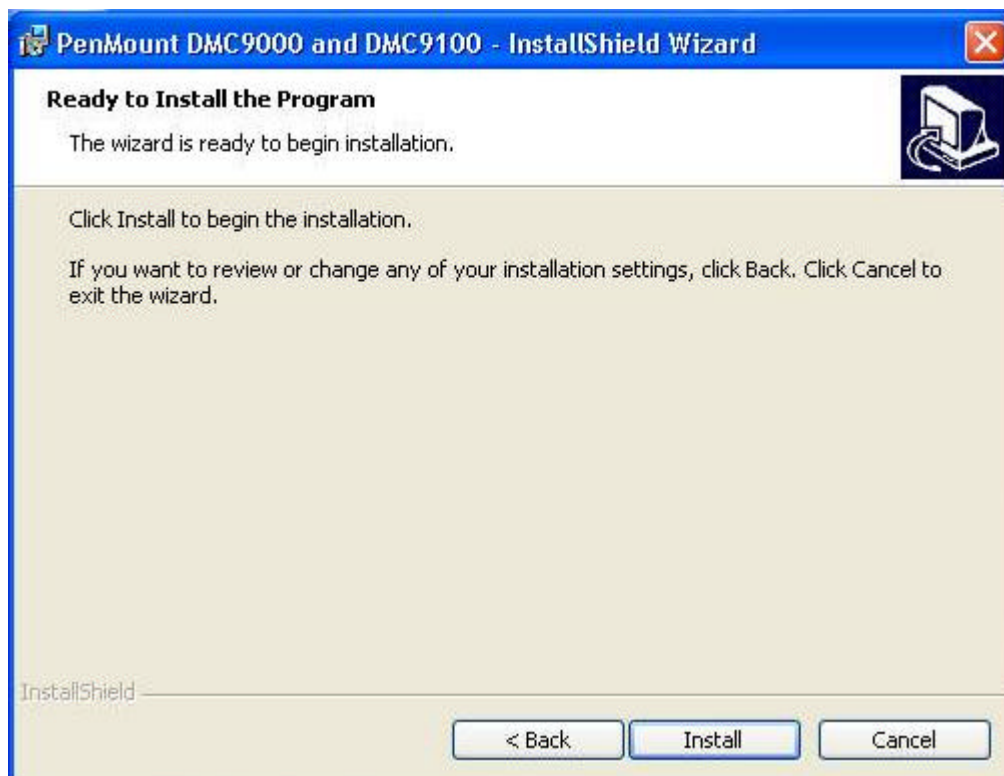
Step 9. The screen displays copying "installation wizard" and "PenMount Utilities Installation" screen plus "welcome" message appear. Select "Next".



Step 10. The next screens are "Software License Agreement", select 'I accept the terms is the license' and "Next".



Step 11. The next screen is "Ready to Install the Program", Select "Install".



Step 12. The next screen is "InstallShield Wizard Completed" and system is asking for 'Reboot the system', select "Yes":



Step 13. After system rebooting, your touch system is working now, please do "Calibrate" now.

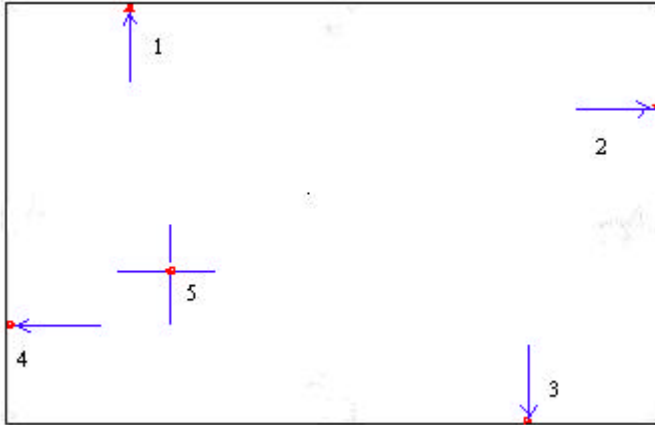
PenMount Windows 2000 Driver Functions

A. PenMount control Panel

Calibrate:

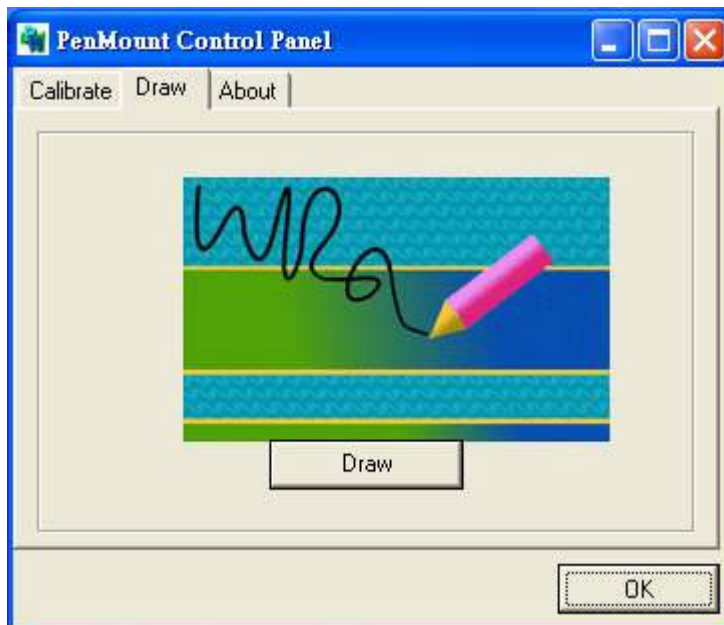
To adjust the display with touch panel, click "Calibration" and follow the calibrate point to do calibration, there are five points on screen for calibration.





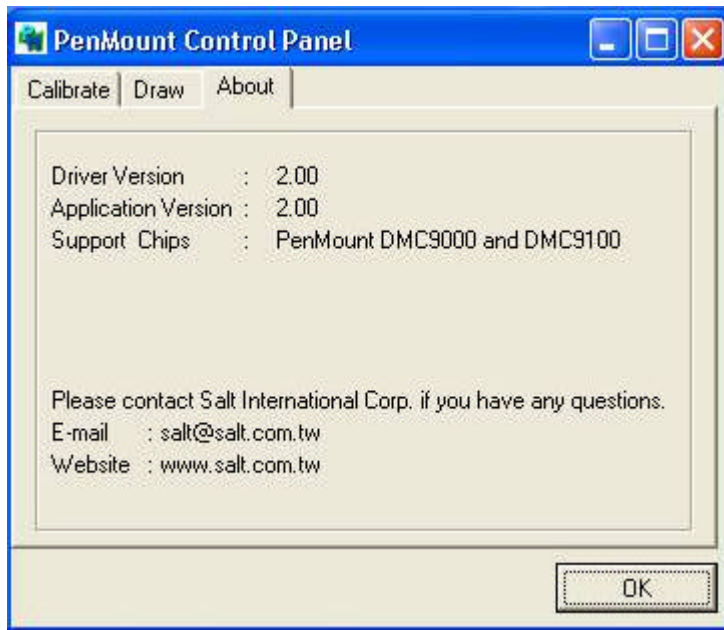
Draw

. Test or demonstrate PenMount touch screen operation, also the touch location is shown on the display, touch “DRAW” to start



About:

It shows information about PenMount controller and this driver



B. PenMount monitor

The PenMount monitor icon is shown in the menu bar of Windows 2000/XP system when turn on PenMount Monitor from PenMount Utilities. There are several functions on PenMount monitor :



Right Click Button:

When select this function, there is a mouse icon shown in the right-bottom place of screen. It shows 'left button' being as default for normal use, touch this mouse icon to change the next touch to be 'Right Button' function. After one touch, the mouse icon will change to 'Left Button' automatically. If user needs to use right button again, user has to touch the mouse icon again for changing the button function.

Beep

Turn on or off beep sound.

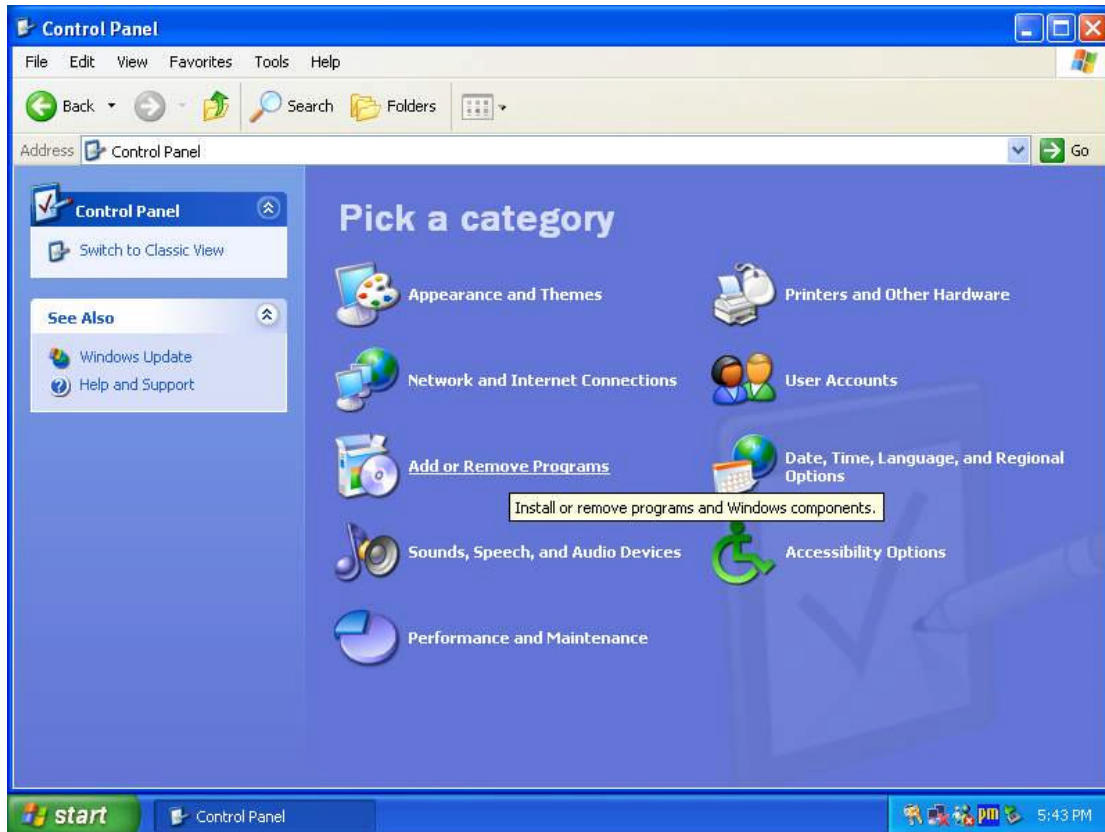
Exit:

Close the PenMount Monitor function.

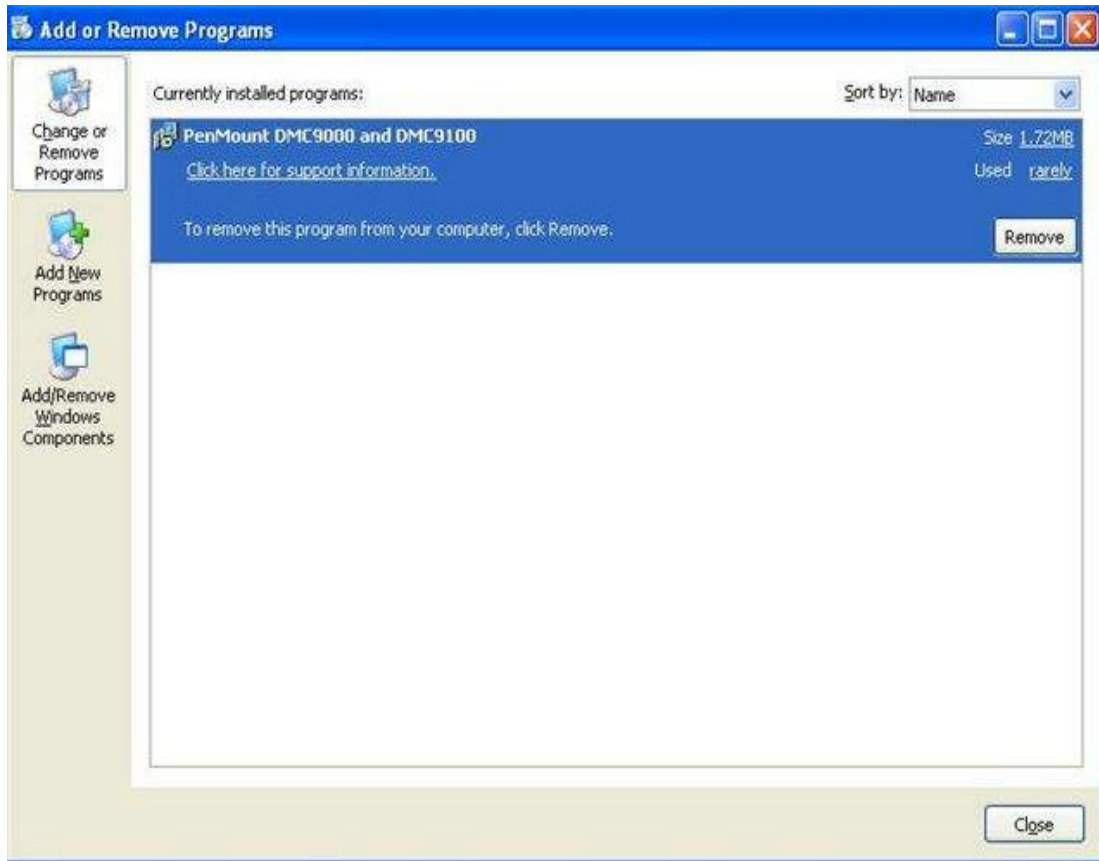
How to uninstall PenMount Windows 2000/XP driver

Before you uninstall PenMount Windows 2000/XP driver, please ‘EXIT’
‘PenMount Monitor’ that is in menu bar first.

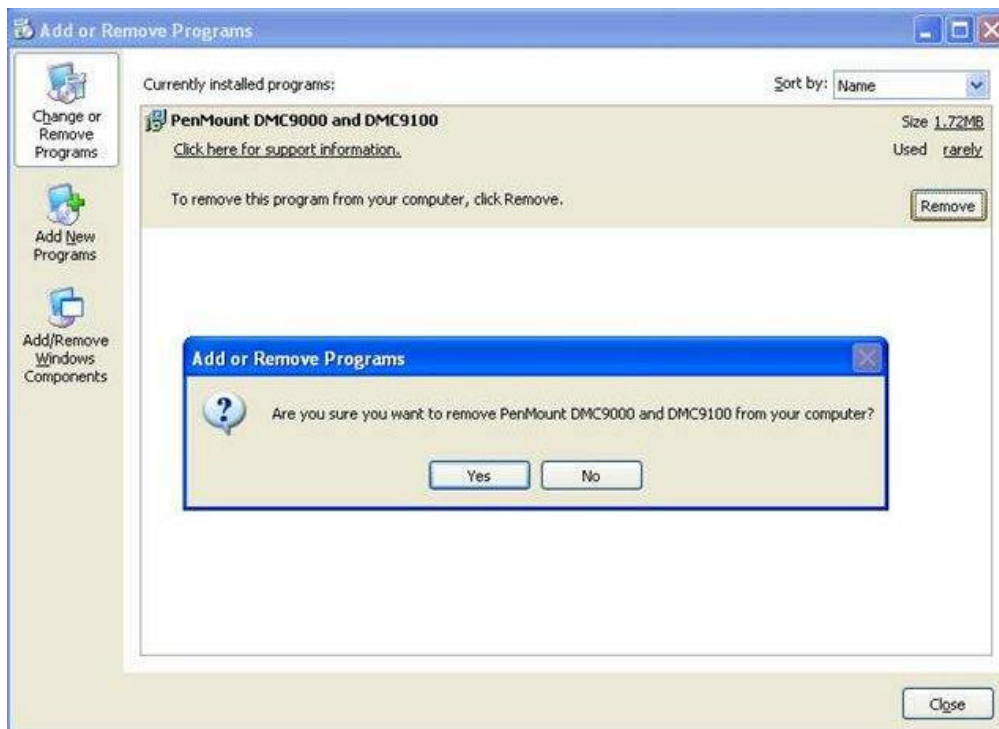
1. From ‘Control Panel’ ”, select ”Add or Remove Programs”, select “PenMount DMC9000 and DMC9100 “and select “Remove” button.



PenMount Windows 2000/XP Driver Installation Guide For DMC9000 Controller



2. Select “yes” to uninstall the driver and then select close to finish the job.



Q&A

Q: Why are the installation procedures for PenMount Windows XP driver different from PenMount Windows 2000 driver ?

A: Windows XP system architecture is more sophisticated than Windows 2000, drivers are unable to modify the system. However, we will make the PenMount Windows 2000/XP be easily installation in next version.