

PenMount 5184 USB Windows98 Setup and Users Manu

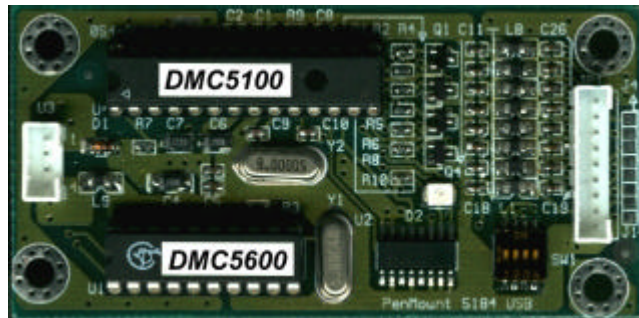


Fig.1

PenMount 5184 USB control board is a touch screen control board designed for USB interfacing. It's designed special for USB interface features with multiple devices supporting functions. It's able to support upto 15 USB devices through PenMount 5184 board. With the same physical size to PenMount 9084 and PenMount 9584, we wish to provide easier final product mechanical designs with all PenMount family products.

The controller consists of two controller ICs, DMC5100 and DMC5600. DMC5100 is an 8-bit AVR microcontroller while DMC5600 is an Universal Serial Bus microcontroller. There are two connectors on this board, one connector is for 4-wire or 8-wire touch screen cable, and another is for 4-pin USB A type cable (optional).

DMC5100 is designed with ATMEL AT90S4433 ASIC.

DMC5600 is designed with CYPRESS CY7C63000A.

PenMount 5184 USB Control Board Description

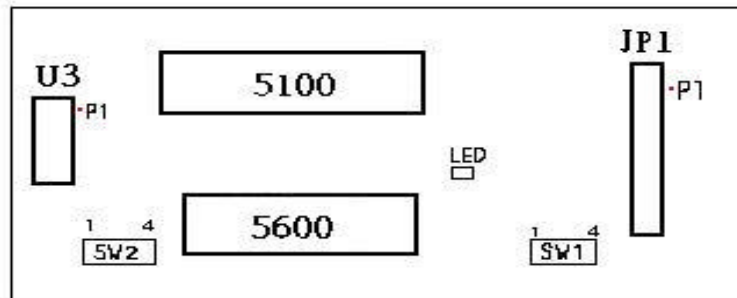


Fig.2

JP1: Touch Screen cable, for 4-wire or 8-wire touch screen

U3: USB cable connector

PIN1: Vcc

PIN2: D-

PIN3: D+

PIN4: Ground

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

SW2: for Multiple-Device device selection, see next page.

PenMount 5184 USB Control Board Hardware Installation

1. Connecting the PenMount 5184 USB board to USB Hub of computer, it does not need the power supply
2. The dipswitch SW1 of PenMount 5184 USB board is set always at 'ON'
3. The dipswitch SW2 (See Fig. 3) is to set the 'Multi-devices' purpose, our PenMount 5184 USB board is able to support up to 15 displays, the setting is described as below table. On SW2 switch, 0 means 'OFF', and 1 means 'ON'.
For example, if you use only one USB control board, SW2 is set at "1111".

If you need to set the board at the fifth display, SW2 is set at "1000".

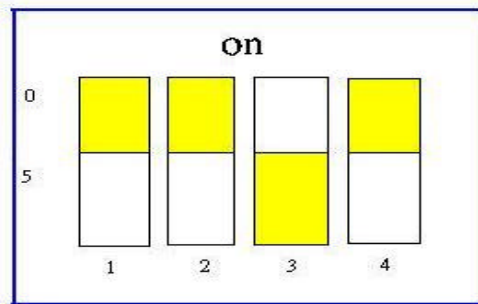


Fig. 3

The 1 st display	The 2 nd display	The 3 rd display	The 4 th display	The 5 th display
1111	0111	1011	0011	1101

The 6 th display	The 7 th display	The 8 th display	The 9 th display	The 10 th display
0101	1001	0001	1110	0110

The 11 th display	The 12 th display	The 13 th display	The 14 th display	The 15 th display
1010	0010	1100	0100	1000

If you have only one display to use the PenMount 5184 USB board to the system, it does not need to adjust the dipswitch, any setting will be OK. However, the connected sequence is requested to be from small number to larger number. Please note that when PenMount USB controller or control board connected to USB port, you have to connect it in sequence. For example, if there is 3 PenMount USB controller connected to a system, it will work by sequence 1, 2, 3, and it will not work if the sequence being 1, 3, 2 or 3,2,1.

PenMount Windows 98 USB Driver Software Installation

PenMount Windows 98 USB driver supports Windows 98 system.

There are five files in PenMount 5184 USB Windows 98 driver:

Setup.exe

PenMount 98.inf

PenMount.inf

Pm_lower.sys

Pm_upper.sys

There are several functions in PenMount Windows 98 USB drivers, see Fig.4

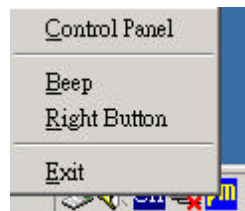


Fig. 4

PenMount monitor

After PenMount Windows 98 USB driver installed, the PenMount monitor icon will appear on the menu bar of the system. It is easy for user to call PenMount utilities or functions on line.

Beep Sound

In beep sound when touch the screen.

Right button selectable

This emulates mouse right button function on touching.

Multi-devices supports

PenMount USB driver is supporting up to 15 PenMount USB controllers for a display.

1. Plus the PenMount 5184 USB board connector to USB port, and then there is a screen displayed “Salt USB PenMount ”.
2. The screen will show ‘ add a new hardware wizard’, click ‘ Next’ . Just go to the sixth step if there is not shown this screen.



3. Please select ‘ Search for the best driver for your device.’ select ‘ next’



4. Then choose 'CD-ROM drive' to assign the rout for Windows 98 CD.



5. Then select "Next" and "Next". Now computer might update the new driver that is depended on the Windows system, please insert Windows 98 system to CD device if the system asks for it. Then the system will show the new driver installed for the new hardware device, select 'Finish'





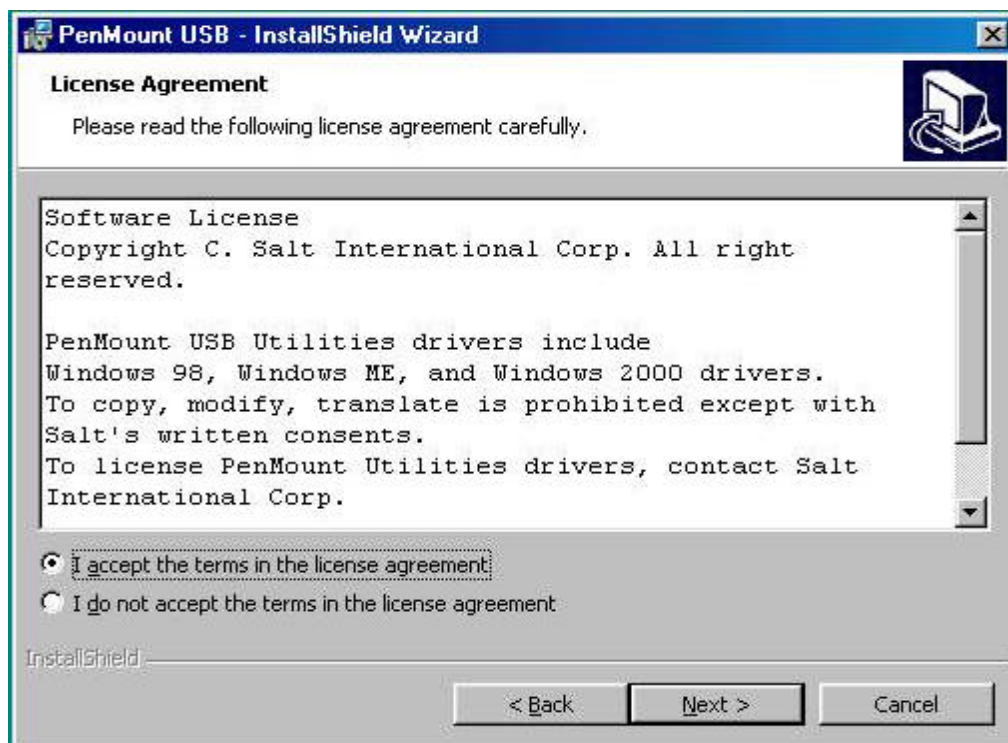
6. Select CD-ROM “PenMount USB\Driver\Setup” to install PenMount USB driver to system.



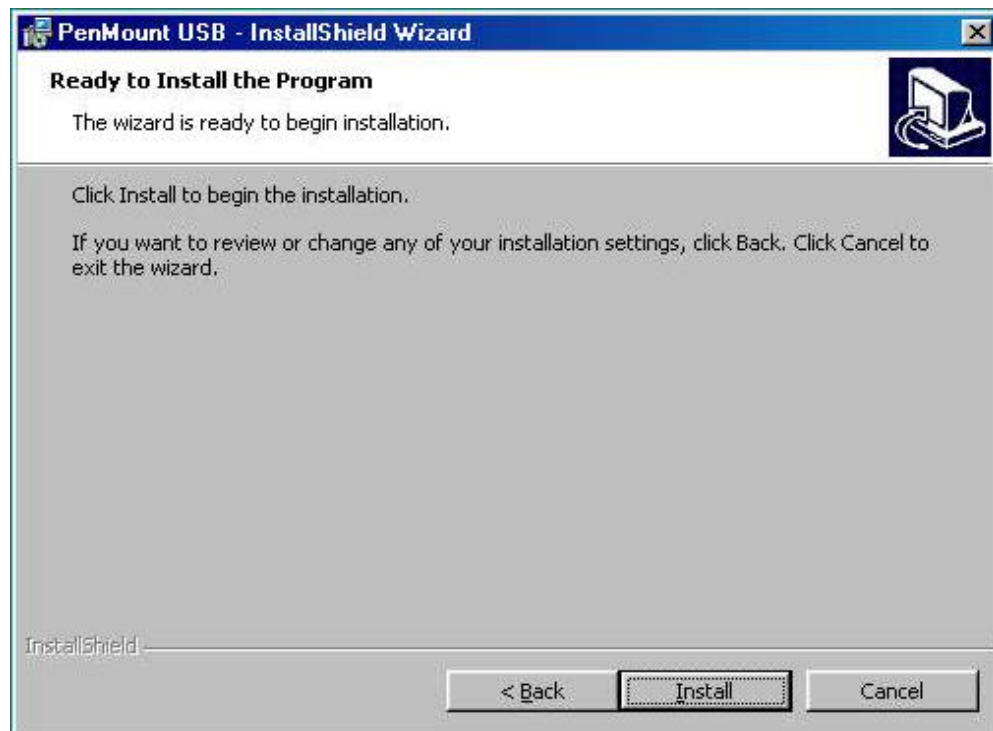
- a. The screen then shows 'InstallShield Wizard' to install the PenMount Windows 98 driver
- b. Then click 'Next' to start to install the PenMount USB driver to system



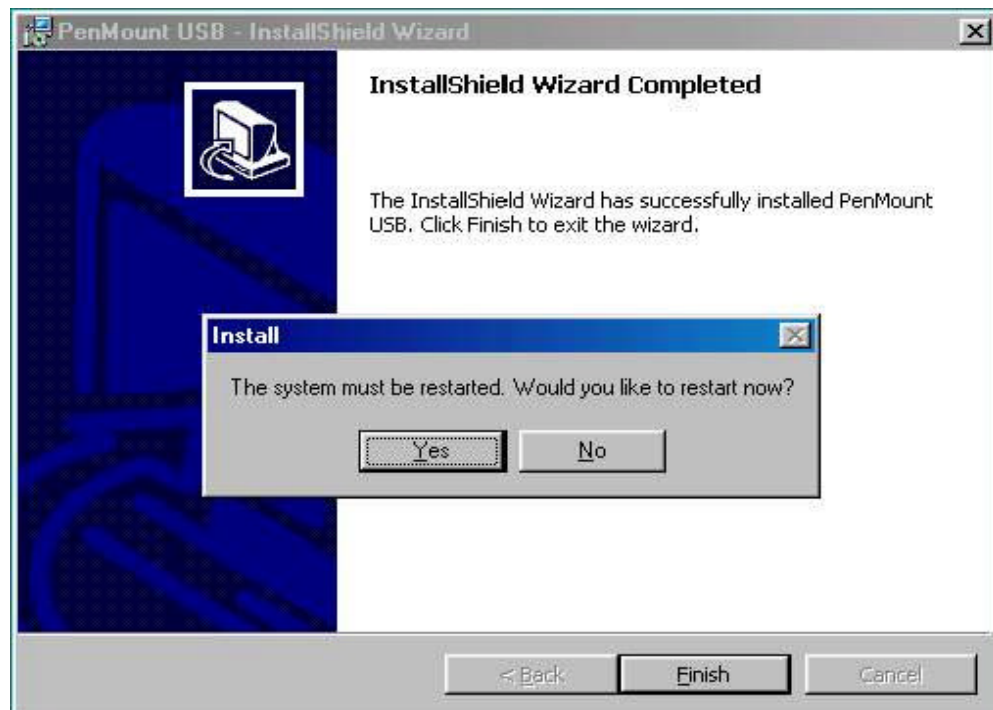
- c. There is License agreement showed, click 'Next'



- d. The next screen is showing 'Ready to Install the Program', click 'Install'



- e. The last, screen is showing 'InstallShield Wizard completed', select 'Yes' to reboot the system.



7. Please do the 'Calibration' first after system reboot, PenMount USB driver is working now.

PenMount Windows Driver Functions

A. PenMount control Panel

There are several functions on this configure:

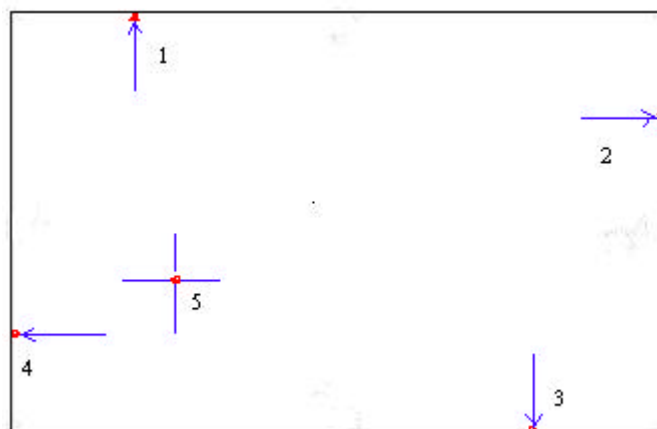
Calibrate

"Initial" and "Calibration" function is available here.



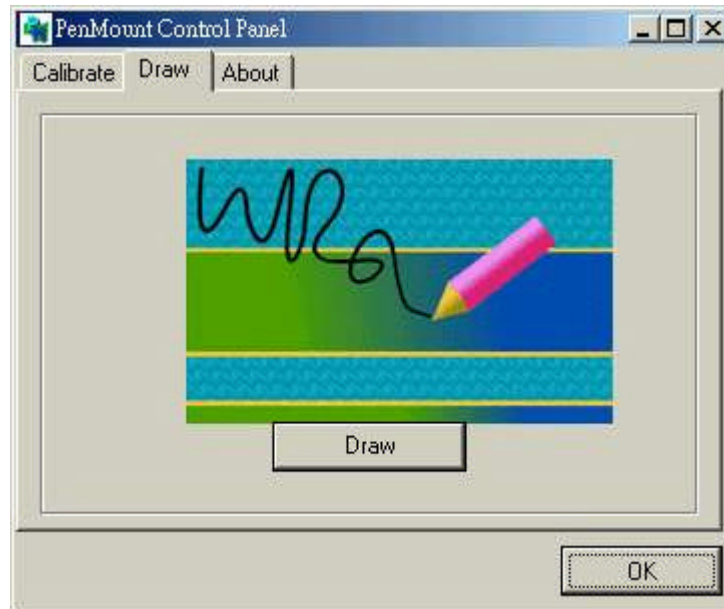
Calibration:

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 version.



B. PenMount monitor

The “PenMount monitor” icon, see below the icon picture, will be shown in the menu bar of Windows 98/Me/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 Sound:

On or off beep sound.

Exit:

Close the PenMount Monitor function.

For double click speed, user could adjust from ‘Start’ , select ‘Control Panel’ and select ‘Mouse’ to modify the double click speed.

C. How to uninstall PenMount Windows driver

The first step:

Please exit the 'pm monitor' in manubar first.

The second step:

After remove the PenMount USB software from Device Manager, please remove all the software from "Add/Delete program" of 'Control Panel', and select 'Remove' to remove the 'PenMount USB'

The third step:

Select 'Next' to confirm to remove the driver

The forth step:

If you select 'Next', and select "Remove" & "Next", System is starting to remove the driver until finishing the job

The fifth step:

Select 'Finish', the 'PenMount USB' is removed completely.

Q&A:

Q1: Why PenMount 98 USB driver is not like PenMount Me/2000/XP USB driver that is installed simply?

A1: Windows 98 system does not copy the Human Interface Device driver to system, user has to do it by manual. However, Windows 2000, Me and XP will automatically install the HID driver to system during adding a new hardware.

Q2: Why does not the system appear the 'Add new hardware wizard' screens (from step 2 to step 5 in the above) when installing the PenMount USB driver?

A2: When installing PenMount USB driver, the Windows 98 system will ask for updating the "USB Human Interface Device" driver. Your system has had the HID if you install another USB device on this system before, at this time, the system will not ask for updating it. You only need to set up PenMount USB driver, see the Step 6.

Q3: What should I do before I install PenMount USB driver?

A3: If you installed PenMount USB driver before, please uninstall the previous driver first and reboot the system, then you could install the update driver. Please refer the manual.

03/05/2002