PenMount DOS Software Installation for DMC9000 controller

This driver supports DOS. PenMount DOS driver detail contents are list as below:

INSTALL.EXE -- General purpose installation utility

PMTSR.COM

README.TXT

PMOUSE.EXE

PMOUSE.CFG

ICECREAM.EXE -- The demo program

PMDETECT.EXE --To identify the communication port and IRQ number of PenMount Touch Screen. The detected data will be saved to PMOUSE.CFG file

PMSET.EXE

SWITCH.COM

PM.BAT -- PenMount Touch Screen drivers' functions

PMINIT.BAT -- To start up PenMount driver in system

CALIBRAT.BAT -- Calibration utility

SVGA256.BGI

SVGA16.BGI

EGAVGA.BGI

ICECREAM.KEY

PMGET.EXE -- To get touching data

To install the software to your computer, your computer system must have DOS system running and installed PenMount Serial Interface control board such as 90A4, 9026B, 9036 or 9084 control board inside.

If you have an older version of PenMount DOS driver installed in your system, please remove it first.

Follow up the steps below to install the PenMount DOS driver.

Salt International Corp.

Step 1: Using "INSTALL.EXE" utility to install PenMount software driver.

To install PenMount software under DOS mode, insert the driver CD-ROM and type "INSTALL".

You will see the screen show "Salt International Corp. PenMount Install Utilities. Press ENTER key to allow PenMount install the drivers to drive C or use keyboard to key-in the hard disc drive that you plan to install the driver.

Then, the driver will ask "Do you want to modify your Autoexec.bat to initialize PenMount? (Y/N)" Suggest you choose "YES" for generating the initialization instructions in AUTOEXEC.BAT files. Then follow up the instructions to complete the installation.

Step 2: Identify the communication port and IRQ number.

For the first time installation, or changing PenMount Touch Screen's COM port, use PMDETECT (e.g. C:\PENMOUNT\PMDETECT) to check the COM port and IRQ number. PMDETECT will save the correct data to PMOUSE.CFG file for further use.

The driver detects your communication COM port and IRQ number from COM1 IRQ4, COM2 IRQ3, COM3…. to COM4 IRQ15. PenMount driver can find the COM port and IRQ number automatically. The screen will then show:

> **PenMount is initialized successfully!!!**
> **Create file "pmouse.cfg". Success.**
> **PenMount internal settings:**
> **Comm. Port: COM\<n>   IRQ\<n>**
> **..........**

PMDETECT program is able to skip the IRQ number detecting if you do not need to detect the specified IRQ number. For example, you do not need to detect IRQ5, and the command is:

C:\PENMOUNT\PMDETECT –N5

If you do not need to detect IRQ5 and IRQ9, the command is:

C:\PENMOUNT\PMDETECT –N5 –N9

Step 3: Do Calibration

To adjust the touch screen mapping properly to display screen, use PM.BAT (C:\PENMOUNT\PM) to do calibration. Choose "1" DO CALIBRATION (adjust screen mapping).

The message on screen asks you to select video mode number. Select by keyboard to start the calibration, touch the upper-center point, then right-center point, bottom-center point and left-center point in sequence. After calibration, the data is shown in the screen, press any key to continue the progress.

After the calibration, suggest you to test touch screen and display mapped results by choose "3" DRAWING TEST under PM.BAT

Step 4: Initializing the PenMount driver

If you don't have the initialization commands in AUTOEXEC.BAT, initialize PenMount (C:\PENMOUNT\PMINIT) controller before you use the PenMount Touch Screen. The display will show the initialization message:

PenMount V7.10 Copyright(c) SALT International Corp.
Test:COM<n> IRQ<n> (<n> is the number after PMDETECT done)
PenMount communication settings: COM<N> IRQ<n> Baud Rate: <xxxx>
…………………………

Step 5: Demonstration

To demonstrate or test touch screen operation, selecting "3" DRAWING TEST in PM.BAT file of Utility Directory. Drawing on screen.

The other demonstration program called "ICECREAM.EXE" in the "PENMOUNT" directory can also be applied.

Now, PenMount DOS driver is installed.

PENMOUNT DOS DRIVER FUNCTIONS

There are several functions under PenMount DOS driver, user is able to change the settings from following utilities.

A. Show Current Setting

The current setting data could be found from PM.BAT file. The procedure to get the status is **C:\PENMOUNT\PM**

Choose "2" SHOW CURRENT SETTINGS

B. Beep Sound On or Off

Beep sound is able to set ON or OFF with parameter.
Enable Beep Sound command is
  C:\PENMOUNT\PMOUSE /S.
Disable Beep Sound (Default) command is
  C:\PENMOUNT\PMOUSE.

C. Getting current touch data

To get the touching data, use "PMGET.EXE" utility. This utility is only available for COM 1 or COM 2 port.

  C:\PENMOUNT\PMGET <COM port> <baud rate>

User will see the touching point address is shown in screen.

D. Hide cursor

Hide cursor: c:\penmount\pmouse/h