

Touch Screen Device Driver Software

Version 03.08.06p

User Manual

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Introduction

This installation guide provides the information about using the Touch Screen Device Driver software. Read this guide completely so you can fully utilize the functions of this software.

Features

The software lets you use our touch panel controller, the software, just as though you were using a mouse by operating the touch panel on Windows.

1. This touch screen software can implement an operating environment equivalent to the mouse function through operating the touch panel.
2. Because you can use the touch screen software together with a mouse, you can change between the touch panel and the mouse without needing a special setting.
3. Whether you connect the touch panel controller with a serial port or USB, you can select the necessary driver at installation.
4. The software lets you customize such functions as changing over the use of mouse's right and left button, details related to clicking, and event customization for touch input, as well as precise calibration function to insure excellent operability in a wide range of applications
5. Supports multi-touch screen function on USB.

Conventions used in this guide

This user's guide uses the following and symbols to represent specific names and displays of the operating systems and the software.

***** Represents an icon or buttons, For example, the floppy disk drive icon specifically refers to "3.5-inch FD(A:).

<***> Represents a key on the keyboard. For example, <Enter> is used to represent the Enter key.

**** Represents the window title name, for example, "Add the button mode."

[***] Represents a character string other than the above. For example, A program in the [Start Menu] is represented as [Program].

When Windows is mentioned in this guide it this guide it means Windows XP operating systems.

Supported models

Supported model: IBM PC/AT or its compatibles

Supported operating system

Serial Port connection : Windows 95, Windows 98, Windows ME, Windows NT
Windows 2000, Windows XP

USB connection: Windows 95, Windows 98, Windows ME, Windows NT
Windows 2000, Windows XP

Remarks

1. The software is for our touch-panel controller MA-330-2-B it is not intended for operation with the other touch-panel controllers and the products similar to them.
2. For how to use software, read this guide well. Do not use any other methods with the software
3. The software is not intended for the model of computer and operating system other than the supported ones.
4. Avoid using this software or with similar functions installed. In such a problematic environment the software may malfunction
5. Read the about the driver after executing the installer program (setup.exe). You cannot read about the driver before executing the installer program or operating the touch panel.

Installation

Installation of the software differs, depending on whether a serial port or USB port, has been connected to the touch-panel controller MA-330-21-B.

This section describes the procedures for installation and the parts that you need to set individually depending on whether you have a serial or USB port connected.

A Regular installation steps

1. Turn on the computer's power.
Turn on the power to boot Windows.

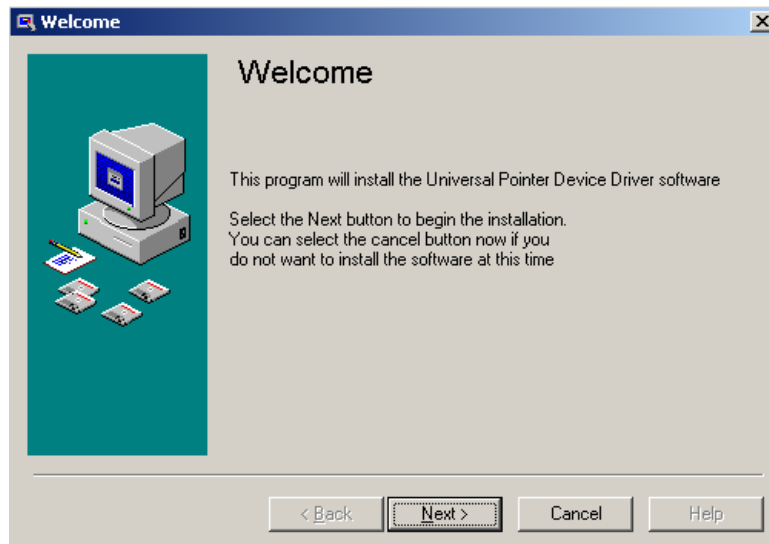
2. Start the Installer.

< CD >

Insert CD that has setup.exe, MAINDIR1.cab, MAINDIR2.cab and DRV32_1.cab into CD driver. The software starts automatic installation.

< Floppy >

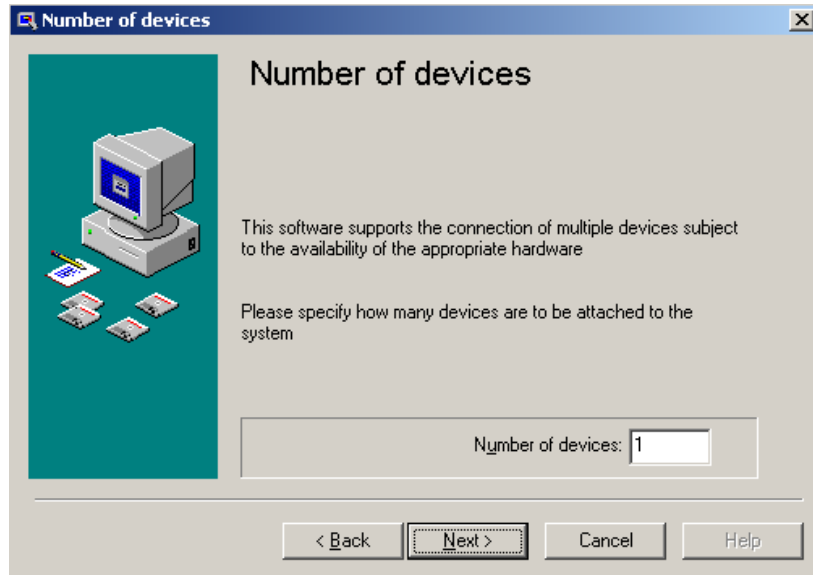
Double-click on "setup.exe" to star the installer it "setup.exe" is located in the same directory as "MAINDIR1.cab", "MAINDIR2.cab", "SYSDIR1.cab" and "DRV32_1.cab". Or save "setup.exe" to a floppy diskette and label it as "Disk 1", "MAINDIR1.cab" to the other floppy diskette and label it as "Disk2" and "MAINDIR2.cab", "SYSDIR1.cab" and "DRV32_1.cab" to the other floppy diskette and label it as "Disk3", And Insert Disk 1 into the floppy diskette drive and double-click on "3.5" FD (A:)" to open the window.



* Almost all of the set values displayed in the Installer screen are the optimum for most of the user, which requires no modification.

B. Number of devices

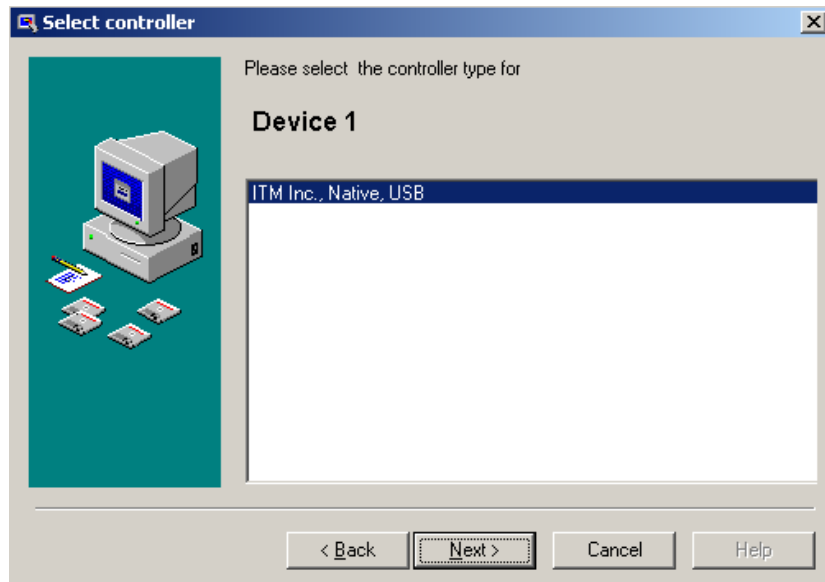
Allows to set the number of touch screens (controllers). Enter the number of touch screen if multiple touch screens are used. Click on “Next(N)” or press <Enter> when finished.



C Selecting the controller

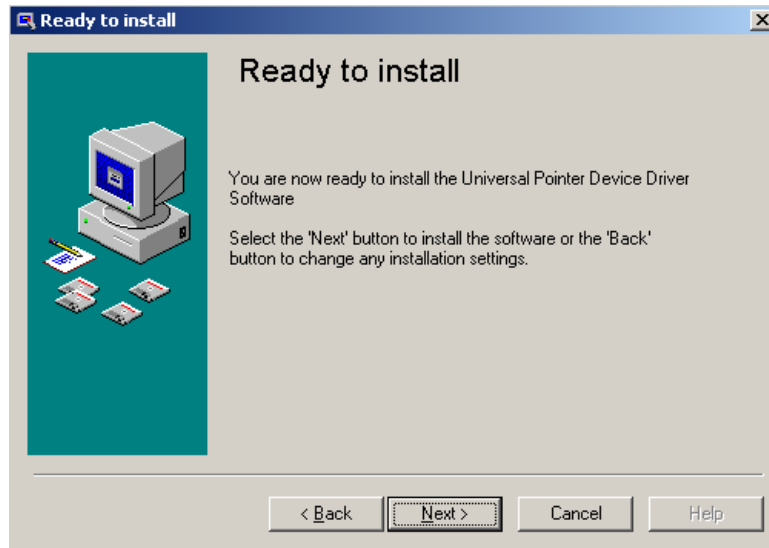
During the installation sequence, the screen for selecting the controller will appear. Then, you must select whether you want to connect your touch-panel controller to the USB.

If you choose [ITM Inc., Native. USB], then go to [Complete].



D Completing the installation

For connecting to a serial port, set 'Serial port connection and to [Complete installation]. And in USB connection, set 'Select a controller' and go to the USB port. Click on 'Next (N)' or press the <Enter> key. Then, follow the instructions on the screen.



Windows XP user.

While installation progresses the window entitled 'the installation of the hardware' is indicated. Click on 'CONTINUATION(C)' or press the <Enter> Key. A window is indicated in the same way when USB plug is put in the PC after INSTALLATION IS FINISHED IN THE case of the USB connection. Click on 'CONTINUATION(C)' or press the <Enter> key in the same way in that case as well.

Windows 2000 user.

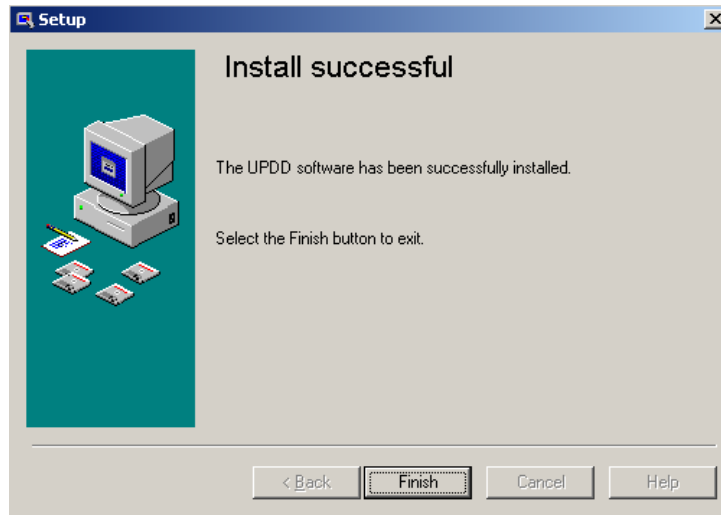
While installation progresses the window entitled 'A digital signature wasn't found' is indicated. Click on 'Yes(Y)' or press the <Enter> key. A window is indicated in the same way when USB Plug is put in the PC after installation is finished in the case of the USB connection. Click on 'Yes(Y)' or press the <Enter> key in the same way in that case as well.

E After completing the installation

You complete the installation. Click on “Continue”, and press the <Enter> key.

In the case of Windows95 or WindowsNT Workstation, reboot Windows to activate software.

Click on “Yes(Y)”, or press the <Enter> key.



F Uninstalling the software

To uninstall the software, run “My Computer”, then go to the “Control Panel” and select “Add/Delete Application” to choose the “Touch panel driver.” Finally click “Add and Delete®.” After activating the Uninstaller, follow the instructions on the screen to the software.

In the case of Windows95 or WindowsNT, reboot Windows to complete the uninstalling.

Before use

Calibration

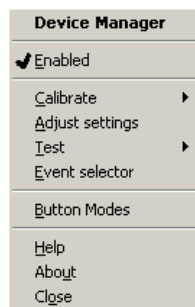
<When an EEPROM Calibration function is not used.>

Before you begin to use the touch panel, you need to adjust (calibrate) it. Calibration is a very important so you can align the position where you touch panel with the Windows cursor position. This calibration adjustment lets you operate the touch panel; with ease.

Once you perform the calibration, the calibration information is stored in Windows, You need not make the calibration every time you boot Windows.

To mask the calibration, click the touch panel's icon at the task tray at the right bottom of the Windows desktop, and select [Star]-. [Program]->[UPDD], then [Control SETTING]. Then, Click “Calibrate” from the “Touch panel Properties” displayed. Then use your finger to touch an arrow

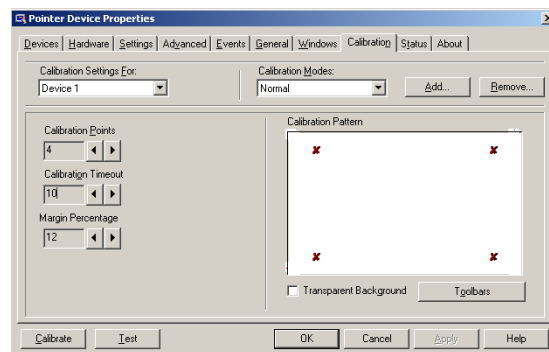
at the light gray screen. Touching the section makes an arrow appear at another location. Similarly, touch that location too.



When you have selected all the calibration points, a message “Check calibration”. Appears to request you save the calibration data. When you are able to make a touch respond to every mark + you have been made without any trouble, click the “OK” button, or press the <Enter> key. If you touch a place other than the calibration points by mistake, leave it alone for 20 seconds. If you do not make any action for 20 seconds, the calibration you made is discarded and is not saved in Windows.



Device 1
 Touch the center of each cross as it appears
 Calibration will terminate if no touch
 is received within 20 seconds
 Press escape to abort the calibration process



<When an EEPROM Calibration function is used.>

If this function is enabled, operation which performs a calibration is the same as that of the case that the function of EEPROM calibration above mentioned is not used. However, the save place calibration data is in EEPROM.

And, when this function is enabled, the position (position of + mask) or a calibration cannot be changed.

*The touch panel coordinates may slip from those at installation with time change. In such a case, it is recommended to make calibration again.

Using the touch panel for mouse operation

A Clicking and dragging

You can use the touch panel to perform such basic operations as click, double-click and drag as follows:

- Click: Touch the touch panel swiftly.
- Double-click: Touch the touch panel twice swiftly
- Drag: Drag your finger (or stylus) on the screen.

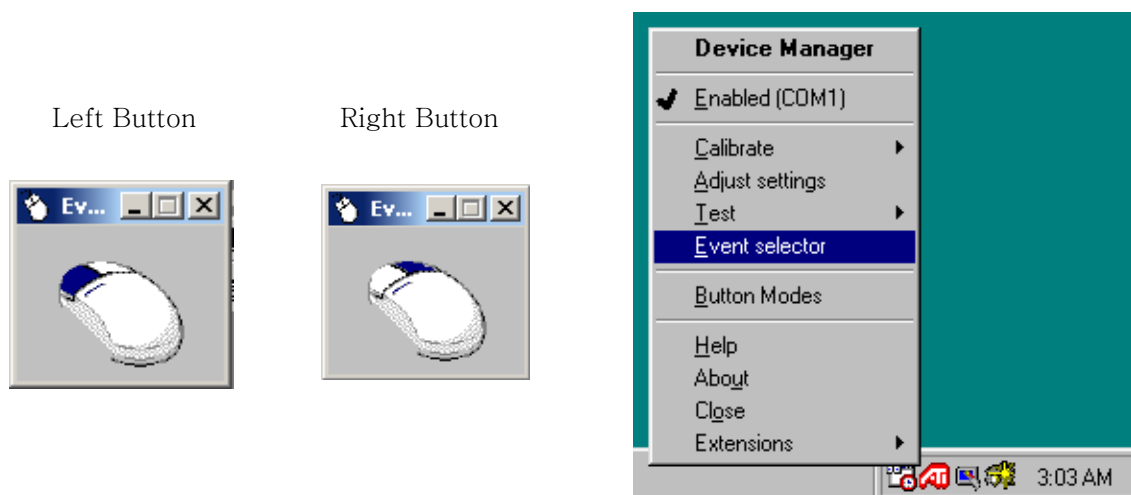
B Right-clicking the mouse

The touch panel does not provide two buttons unlike a mouse. When you want to perform the right-button operation using the touch panel, do the following:

Click the icon at the task, and select the [Event selector]. A small window with a computer mouse appears.

Every time you touch the mouse picture, a dark blue mouse button becomes active.

Touching the touch panel just after the active button appears; operate it like a mouse button.



Function Setting

By the default, this software provides the environment similar the ordinary mouse-operating environment. Its flexible customize function facilitates the operating environment which meets a specific application. This section describes [Control setting] which allows you to make various setting.

An Activating the Adjust setting screen

Use one of the following methods:

1. Select and activate “START” → [Program (P)] →[UPDD]→[Control setting.]
2. Click the icon at the system tray(see the right picture), and select and activate the [Control setting].

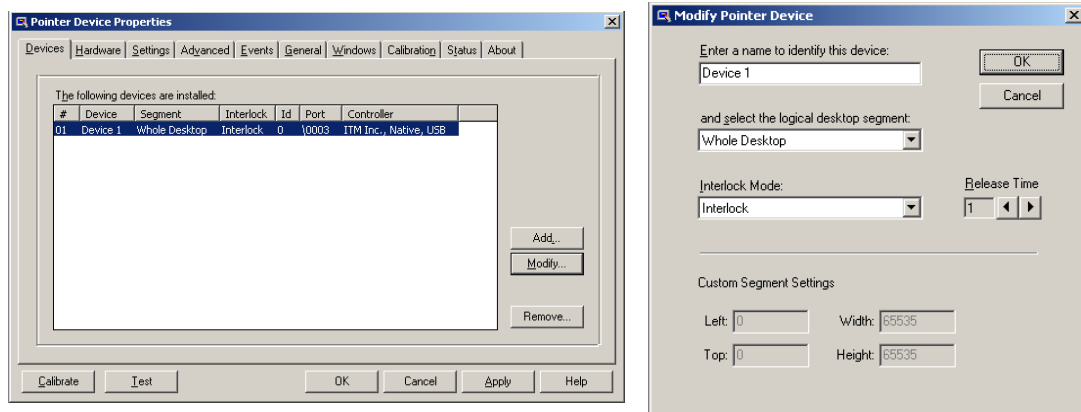
‘ The “touch panel driver property’ window appears. The screen is divided by several tabs. These tabs are classified for each purpose of setting. They are gathered into one screen for each content respectively; The controller addition is in the [Device] tab, the controller status confirmation is in the [Status tab], and the contents related to calibration is in the [Calibration] tab.



When you change the setting, be sure to press the “Apply (A)” to apply the changed contents. Pressing the “Apply(A)” button re-initializes the controllers so that the touch panel gives no response for several seconds.)

B Device

You can add a controller, change the name, set the touching area, and delete a controller.



Add;

You can add a controller. When you add controller, you set selection and operation objects to the entire screen or the right half, upper half or the other range and also the device name.

Modify;

You can change the controller name, change the Interlock Mode, change the Release time and change the operation object.

Interlock Mode:

Allows to set the user level.

Admin: Allows to use the touch screen anytime and can interrupt when the other user is operating the touch screen.

Interlock: Allows to use the touch screen when no other user is operating the touch screen. Allows to take over the operation from the other user when the release time of the user has passed and releases the permission. The permission is abandoned once admin user starts the operation until admin user releases the permission.

Disable: Disables the permission and cannot use the touch screen.

Release time

The time when admin or interlock user releases the permission after the operation (touch screen input) has finished.

Remove: You can delete a controller. Click a controller you want to delete, select it and execute

“Remove...”

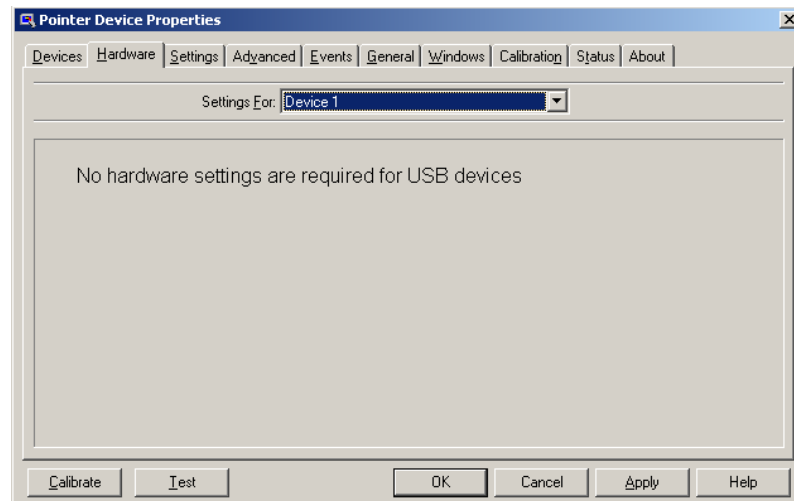
Id: When using USB controller, ID numbers shown on Device Tab is the Ids that are assigned to each controller and cannot be is displayed when Serial controller use.

Port: In the case of the Serial controller, the COM port connected is displayed. In the case of the USB controller, it is the address automatically assigned form Windows.

*When a controller cannot be used, the item of the controller is displayed in a red character.

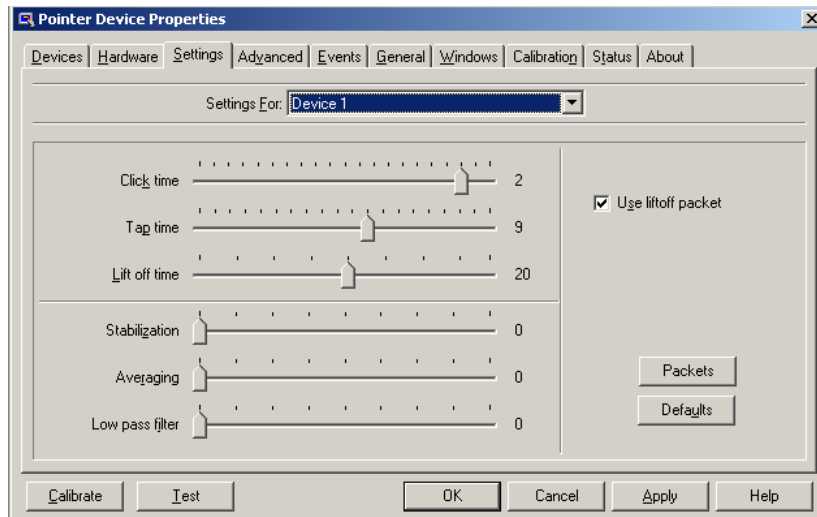
C Hardware

Perform the communications setting of the controller installed in [Devices]. In [ITM Touch, USB], setting is automatically done and requires no manual intervention.



D Setting

You can set a feeling of operation when you touch the touch panel. Some of the items work in linkage with [Event] and [Button mode].



Click time:

When [Time] is specified in [Events], you can set the time from touching to clicking.

Tap time:

When [Tap~] is specified in [Events], you can set the validity time taken for the second touch to be regarded as a click.

Lift off time:

When [using the lift off packet is set to OFF, you can set the time taken to regard finger (pen) having been detached from actual detaching the finger (pen) from the touch panel.

Stabilization:

You can set the degree of the function that the cursor insists to stay at a fixed position. The cursor does not move until the movement amount of the touch input position exceeds a specified amount. It has been initially set to 0 and no stabilization works. The more the set value is, the stronger the stabilization force is.

Averaging:

You can set the degree of the function that the cursor insists to stay at a fixed position. It differs from [Stabilize] in that while in stabilization, the cursor does not move from the same position

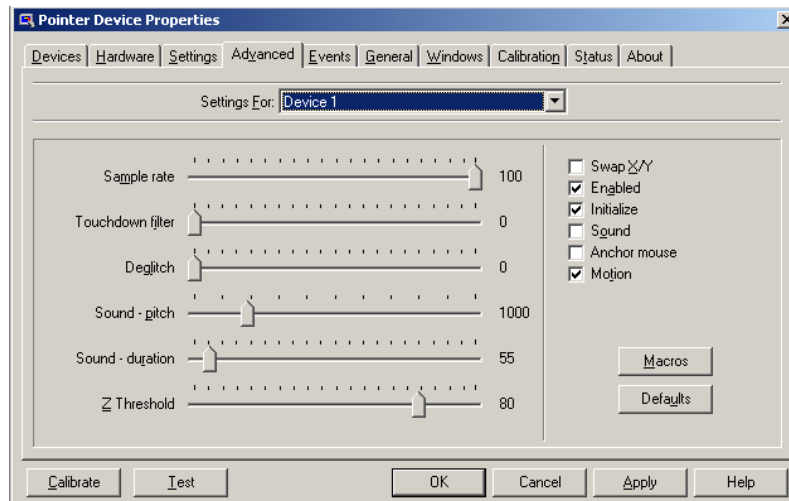
until the movement amount of the touch position exceeds a specified amount; this item stimulates swift movement to the touch position. The initial setting is 0, and no averaging works, The more the set value is, the greater the averaging force is.

Use of a lift-off packet:

Turning on the check lets a touched finger (pen) to be regarded as having been detached immediately when it has been detached. Do not check the item when you enter characters.

E Advanced

You can make more detailed setting of the functions provided by this software. However, a mistaken setting causes the touch panel not to work. Only the user familiar with the touch panel controller can make the setting.



Sound pitch:

Sets the frequency of the click sound. The more the set value is, the higher the sound is.

Sound duration:

Sets the period of the click sound. The more the set value is, the longer the click sound is.

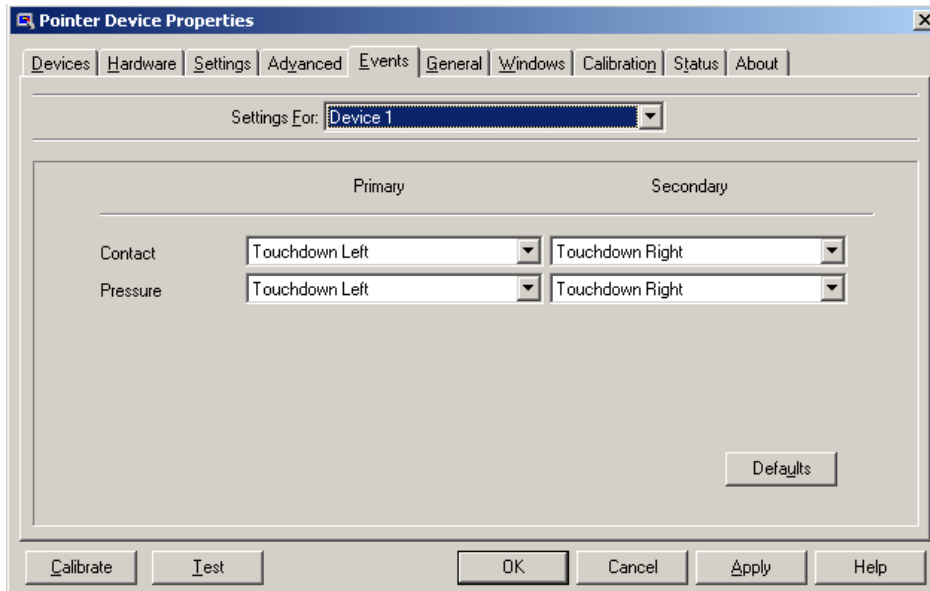
Sound:

Turns ON/OFF the click sound

* The other items do not require any setting change.

F Event

Selects the function when you touch the touch panel. By the default, the [Primary] setting is applied to the touch operation. When the [Secondary] setting is used, use the [Event Selector] to click the mouse picture or text. Set the right button active or [Secondary].



Touchdown:

The first touch makes the mouse button be clicked.

Tap:

The first touch moves the mouse cursor, but does not click the button and the second touch causes it to be clicked. To set the allowable period between the first touch and the second touch, use [Setting] → [Tap time].

Time:

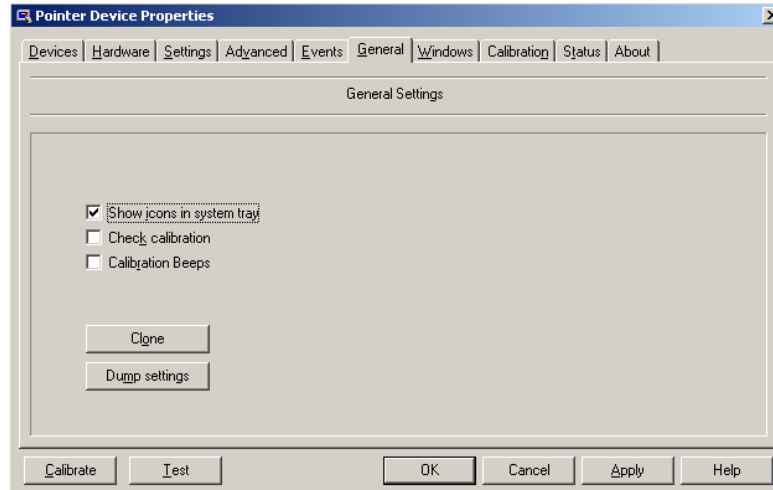
At touching, you cannot click the button until the touch position becomes stable (the touch is stopped.) Use the [Setting] → [Click time].

Lift off:

At touching, the cursor is moved and no button is clicked. When your finger (pen) is detached, the item is used for clicking or double-clicking the button.

G General

Sets the basic setting of the software. In almost all cases, the default setting needs not be changed.



Show icons in system tray:

Sets whether or not you display an icon at the system tray.

Check calibration:

After calibration is completed, a dialog box appears which confirms whether or not you store calibration data. When storing data, click [OK].

Calibration beeps:

When touching the calibration point, you can set whether or not you make the sound to confirm that it has been entered.

Clone:

Re-installation is used for reproducing the previous environment due to some reason. After clicking the button, C:\Program Files\UPDD\upddclon.reg is created. Make folder "updd_ext" in the layer which is the same as the installer "setup.exe". Executing "setup.exe" at this state, "upddclon.reg" is applied.

eg: C:\setup.exe

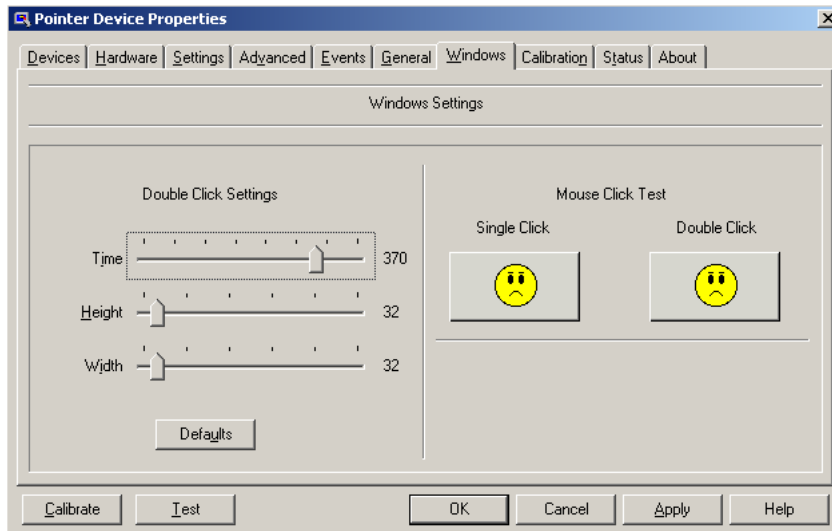
C:\updd_ext\upddclon.reg

Damp settings:

Used for damping the setting. The directory to be damped varies depending on the OS.

H Windows

Make the setting for double-clicking.



Time:

Set the allowable time from the first touch to the second touch, The greater the set value is, the longer the allowable time is.

Height:

At the second touch, set the number of dots in the vertical allowable value for which the position is regarded as the same as the first touch, If a too small value is set, note that you cannot double-click the button.

Width:

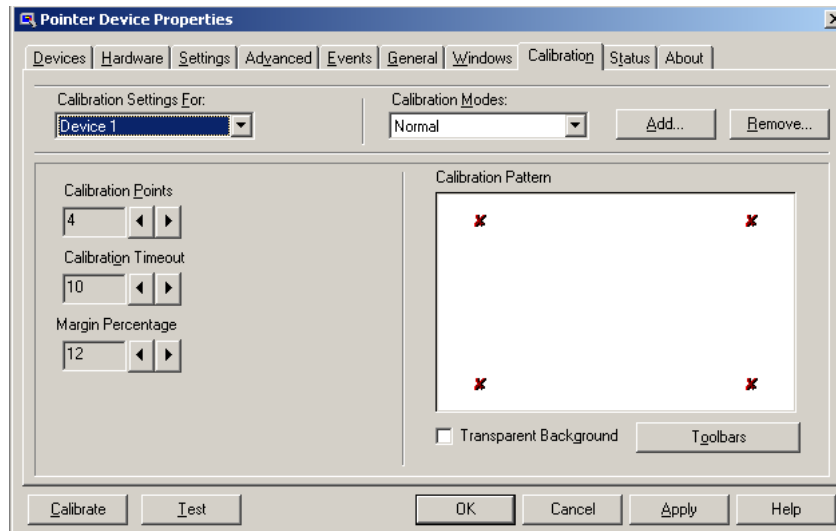
At the second touch set the number of dots in the right and left allowable value for which the position is regarded as the same as the first touch. If a too small value is set, note that you cannot double-click the button.

Mouse Click test:

Used for confirming the operation after setting. For the single-click test, click the [single click] icon, and for the double-click test, click the [Double click] icon.

I Calibration

Makes the setting for calibration. For calibration, multiple settings are allowed. You can change such setting items as the number of compensation points and timeout value for each setting.



Calibration setting:

When multiple controllers are listed in the device, select a calibration controller.

Calibration mode:

Adding a mode in the [Calibration mode] allows you to have multiple calibration data items, Use the [Add] button to add a mode, and use the [Delete] button to delete a mode.

Calibration point:

Sets the number of calibration points. By the default, it is 4 points, and according to the need, 2 to 25 points can be set.

Timeout:

At calibration, if you do not touch the button for a while after the calibration screen has appeared, timeout occurs. Set the timeout value. By the default, it is set to 10 (seconds.) According to the need, you can set a maximum of 60 (seconds).

Start in at:

When the screen edge is 0%, set at what percent position you display the calibration point. By the default, it is set to 12%.

Transparent background:

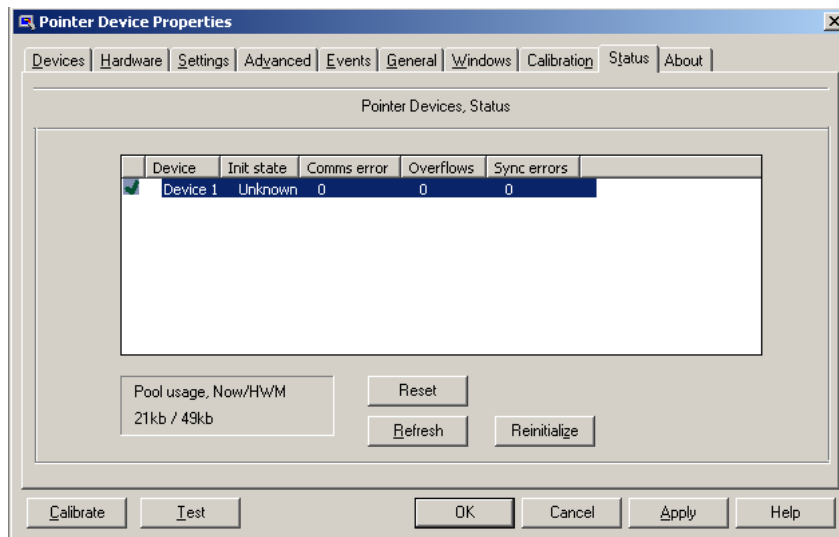
Turning on the check allows you to display the desktop at the background of the calibration screen.

EEPROM Calibration;

If the check is turned on, the save place of calibration data is in EEPROM. And, when this function is enabled, the position of calibration (start in at) cannot be changed.

K Status

You can confirm the controller status display, and re-initialize the controller.



Re-initialize:

Re-initialize the controller. In almost all cases, this button operation is not required. When [DWC TSC-10 Series, Serial] is selected for the controller, and the controller is connected after booting Windows, press the "Re-initialize" button for re-initialize the system.

Reset:

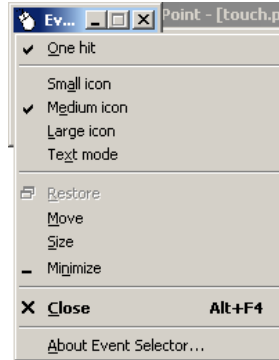
Resets the initial state to the up-to-date display.

Refresh:

Clear the [Com port error], [Overflow], and [Synchronize error] values.

L Event selector

Using the Event Selector allows you to classify the left and right clicking of the mouse button.



1. Activating the Event Selector

Select "Start" → [Program(P)] → [UPDD] → [Event Selector].

Or click the icon at the system tray (see the right picture), and select and activate the Event Selector.

2. Settings

To select the Event Selector, click a small mouse picture at the left top of the window, and select a menu displayed.

Small icon;

Displays a smaller size mouse picture in Windows.

Medium icon:

Displays the standard size mouse picture in Windows.

Large Icon:

Displays a larger size mouse picture in Windows.

Text mode:

Provides text display in Windows. One hit:

Enables only once touch in the right-click setting.

One hit:

Enables only once touch in the right-click setting.

Please check below before calling

Touch Screen does not work properly

- Make sure that the software is installed properly..
- Check the USB cable connection.
- Try reconnecting the USB cable.

Calibration for dual monitor does not work

- Modify hardware settings from Monitor1 to Whole Desktop

Touched area and the on-screen cursor does not match

- Try reconfiguring the calibration