



Infrared TouchScreen Driver User Manual (For Windows)

Beijing IRTOUCHSYSTEMS Technology Co., Ltd

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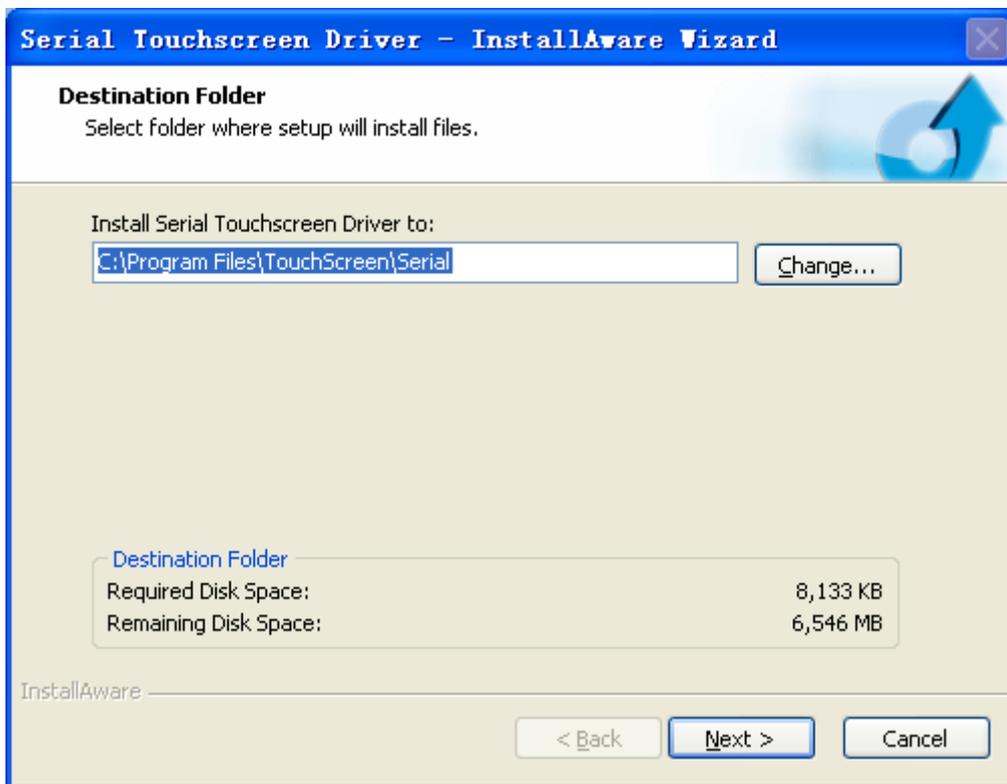
1 Installing Driver



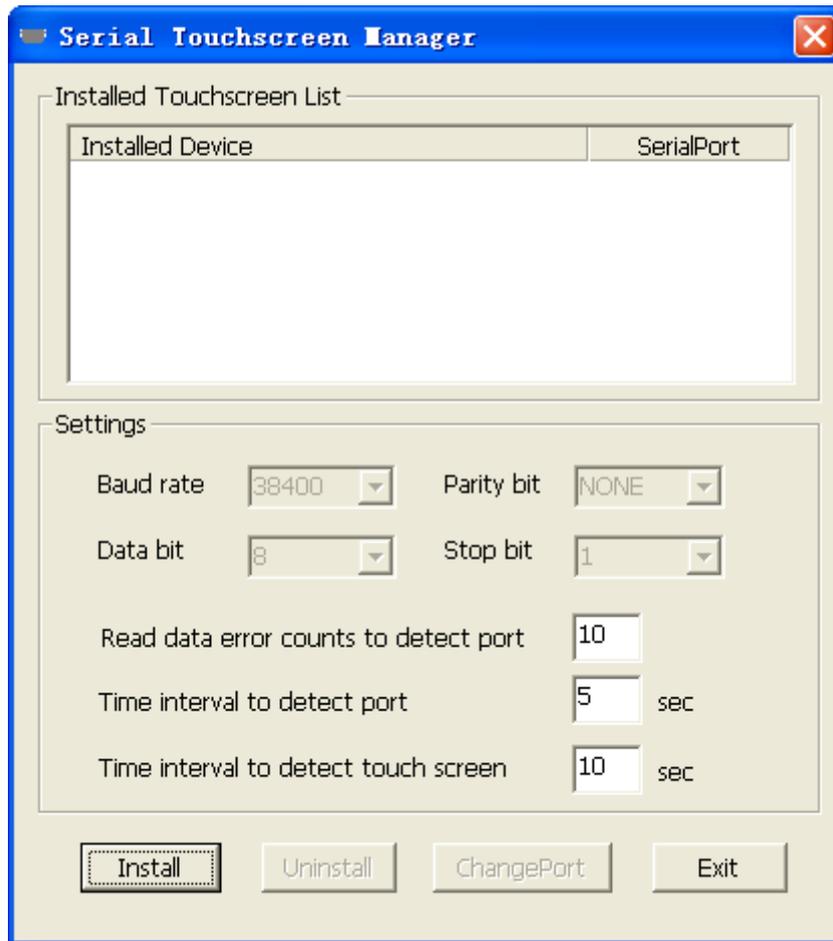
Step1: Double-click driver installation “setup.exe” , interface into the driver installation;

Notes: If your computer system is Windows Vista, please right click “setup.exe” and choose “Run as Administrator”.

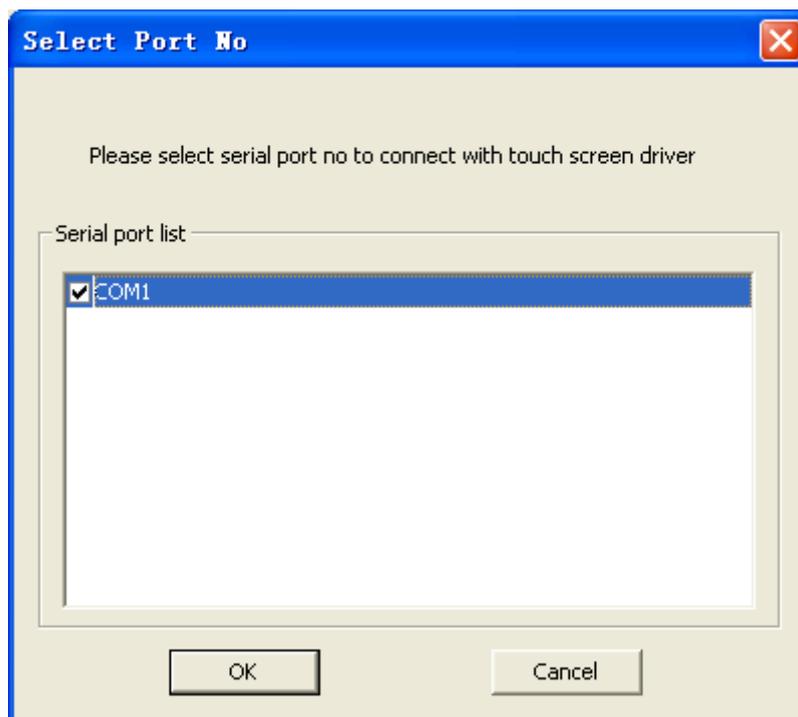
Step2: The default installation path of the driver is “C:\Program Files\TouchScreen\Serial”, you can click “Change...” to select another installation path, and then click “Next”, as shown in:



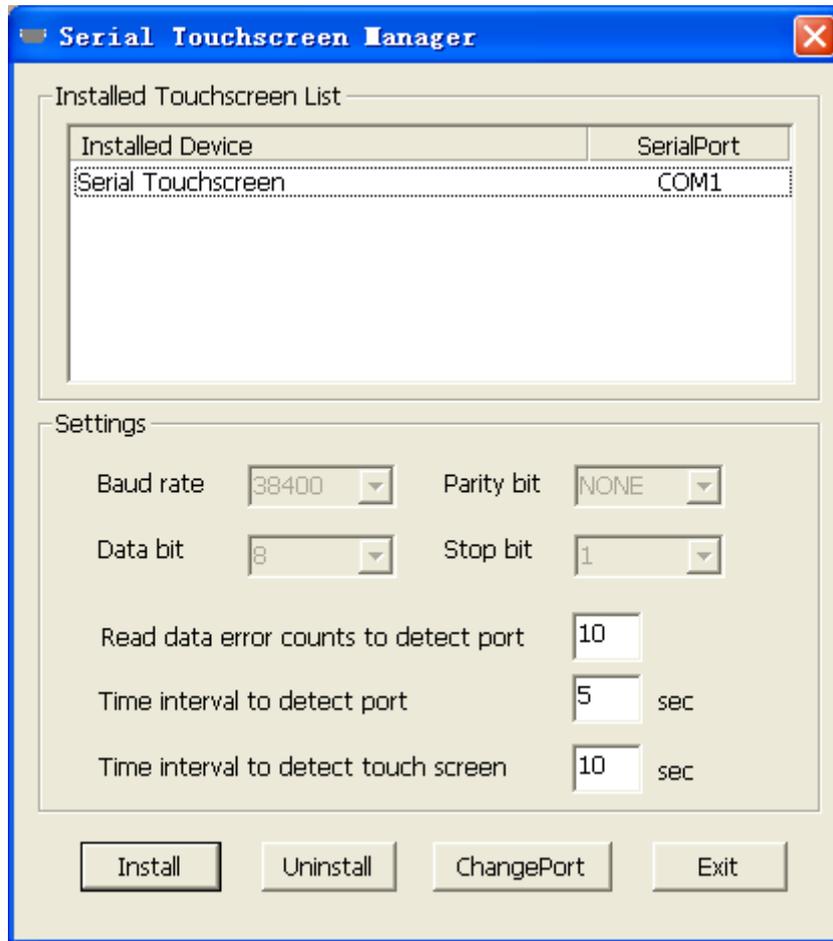
Step3: Serial manager window pops up, as shown in:



Step4: Click “Install”, select a serial port from the list and then click “OK”, as shown in:

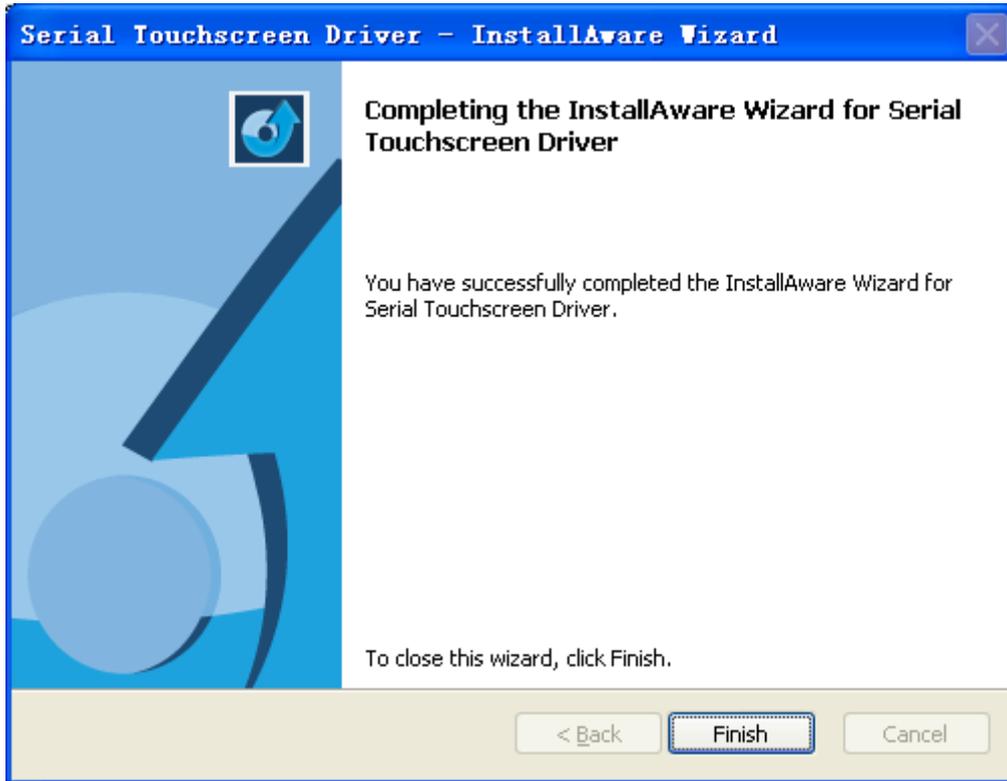


Step5: After selecting a port, click “Exit” to save and exit, as shown in:



Tips: After you installing the driver, you can change the settings of the port during the installation at any time. See “3 Serial TouchScreen Management” for reference.

Step6: Driver installation is complete, click “Finish” to close the wizard, as shown in:



Step7: Plug the end of the serial connecting line to the serial port of your computer that you select in step 4, then toolbar at the lower right corner of the computer prompts:”Found New Hardware”, as shown in the following figure. The new hardware is installed and ready to use:

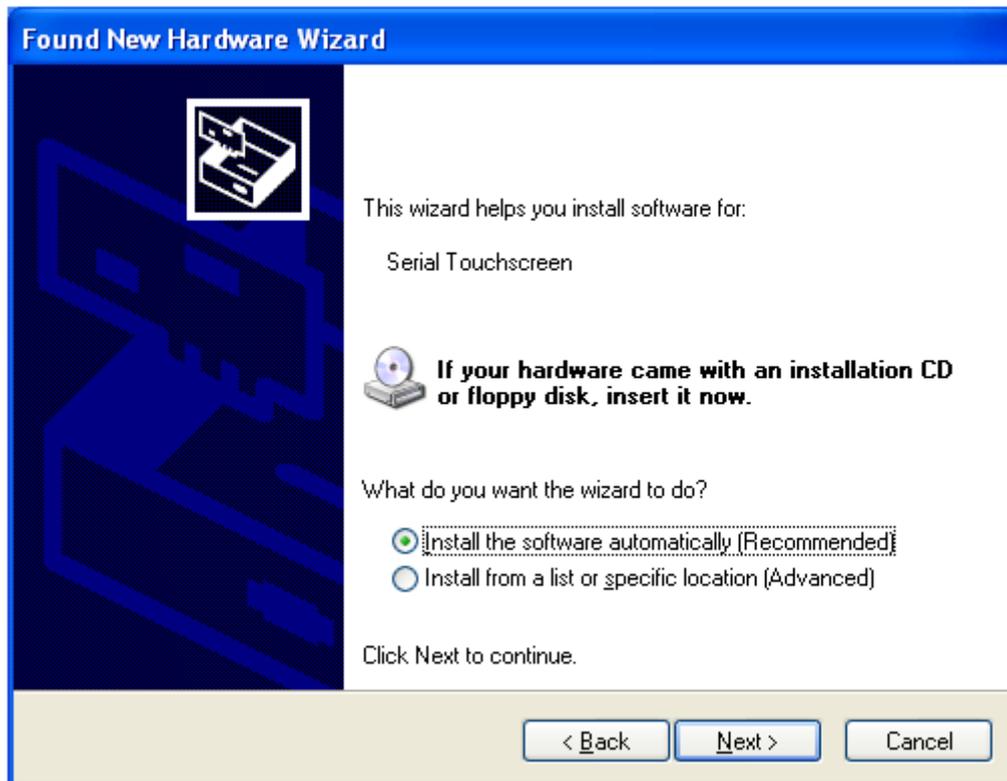


Notes: Now the driver has been installed to your computer, system will automatically retrieve the driver. But it is suggested that you restart your computer and please wait 5 seconds before you use the touchscreen. And moreover, some computers need to take the following steps to find the new driver.

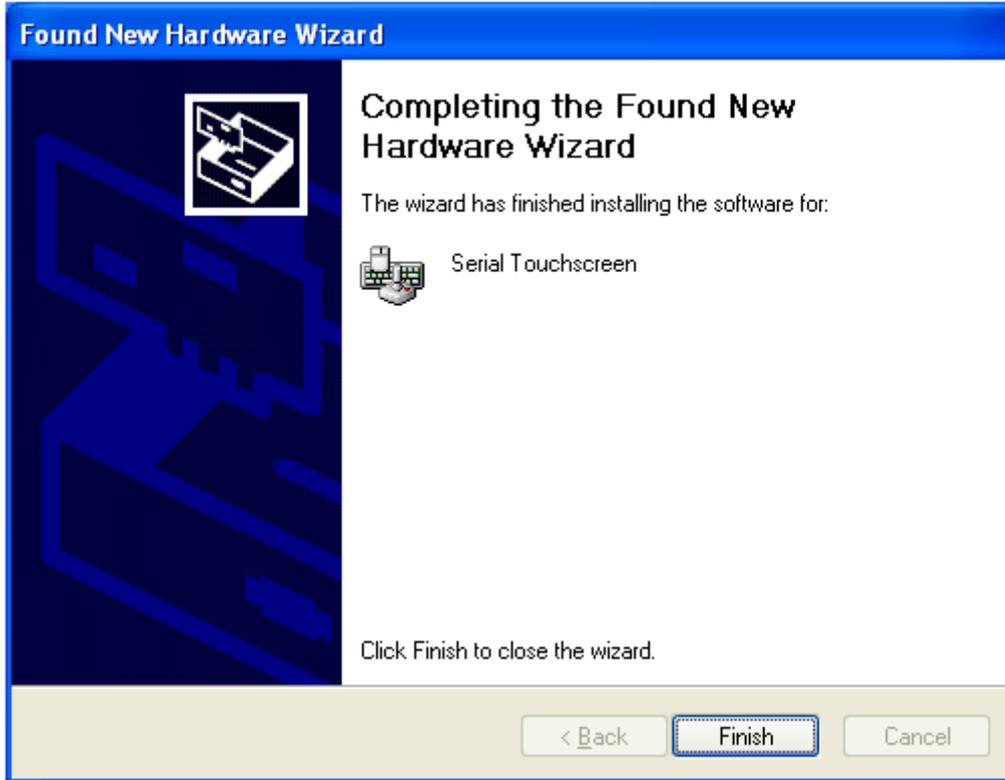
Step8: In the pop-up “Found New Hardware Wizard” window, choose “No, not this time”, and then click “Next” to continue, as shown in:



Step9: Choose “Install the software automatically”, and then click “Next”, as shown in:



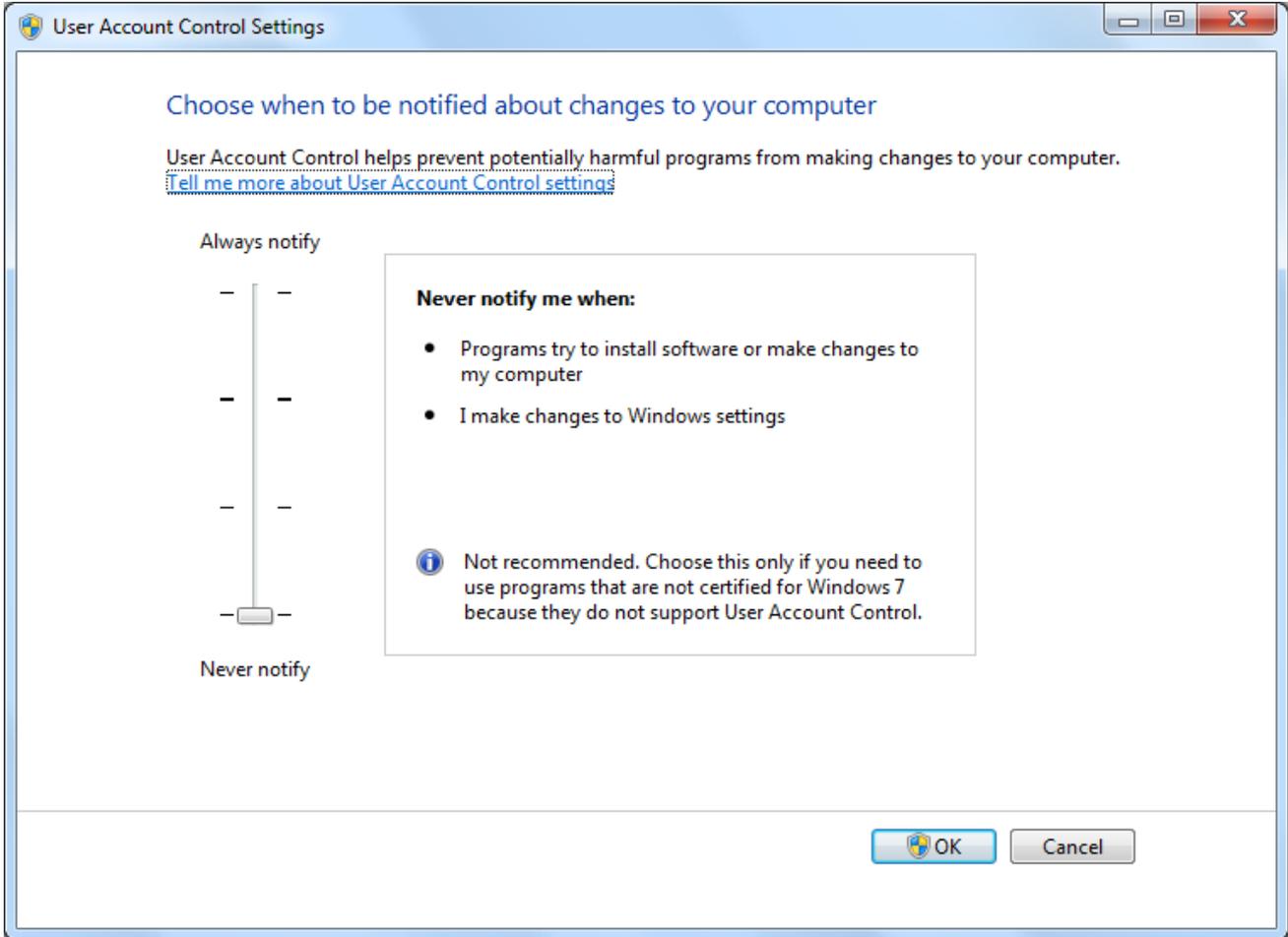
Step10: Click “Finish” to complete the driver installation, as shown in the following figure. Toolbar at the lower right corner of the computer prompts:”Found New Hardware”, the new hardware is installed and ready to use:



Notes: If hardware compatibility warning appears during the installation, please click “Continue Anywhere”, as shown in:



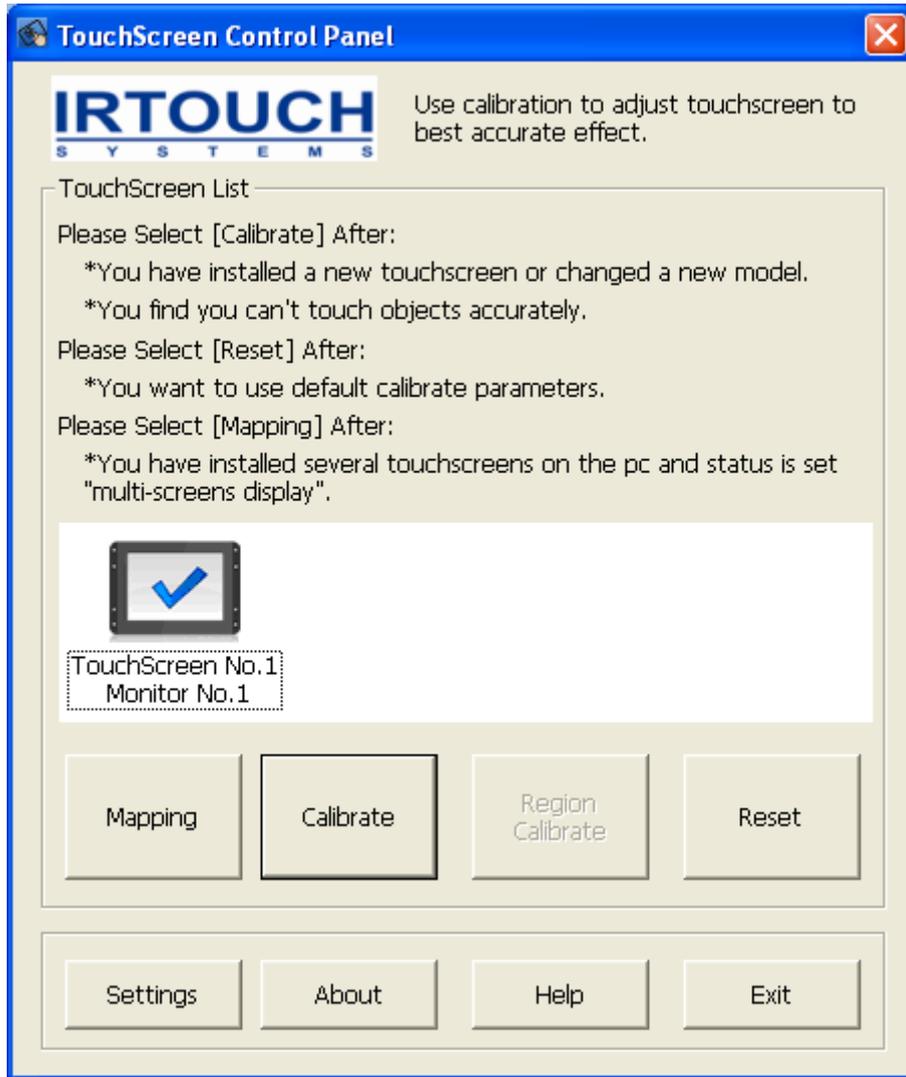
Notes: In order to use the driver better, for Windows Vista and above computer operating editions, it is suggested that you close UAC (User Account Control). Method is as follows: open “Control Panel”-“User Accounts”-“User Account Control Settings”, choose “Never notify” from “Choose when to be notified about changes to your computer”, as shown in:



2 TouchScreen Control Panel



Double-click the shortcut button "TouchScreen Control Panel" on the desktop, open the TouchScreen Control Panel, as shown in:

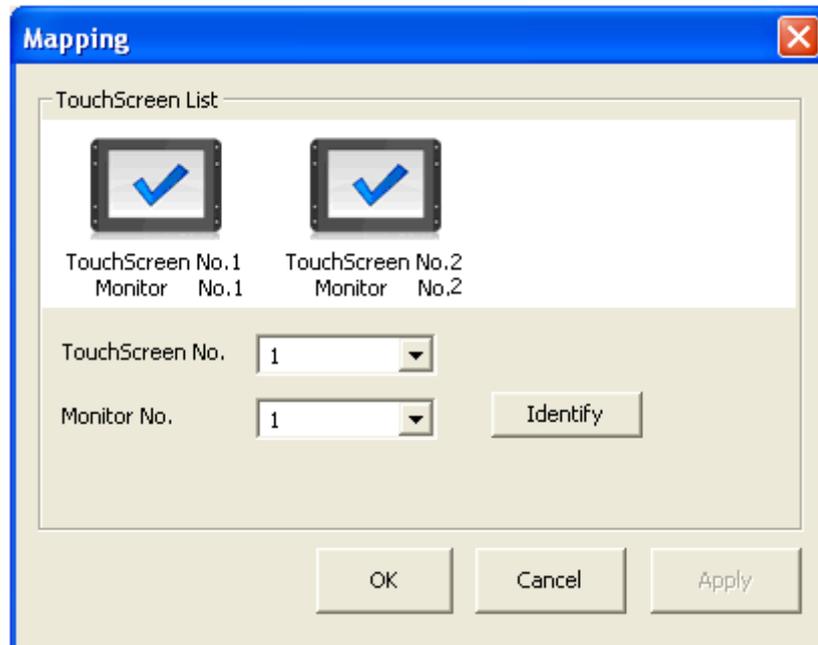


2.1 Mapping and Calibrating

1. Mapping:

TouchScreen Control Panel provides adjustment and configuration with touchscreens, and supports compatibility of multi-touchscreens at the same PC. The panel shows the basic information of the touchscreen and calibration. If several touchscreens are mounted on the PC and the system is set to

“multi-screens display”, then all the touchscreens will be shown in the Touch Screen List. Before calibrate each touchscreen, you need to set the corresponding relationships between the monitors and the touchscreens, otherwise the touchscreens won’t work. The method is: click [**Mapping**] button on TouchScreen Control Panel, the setting window pops up, as shown in:

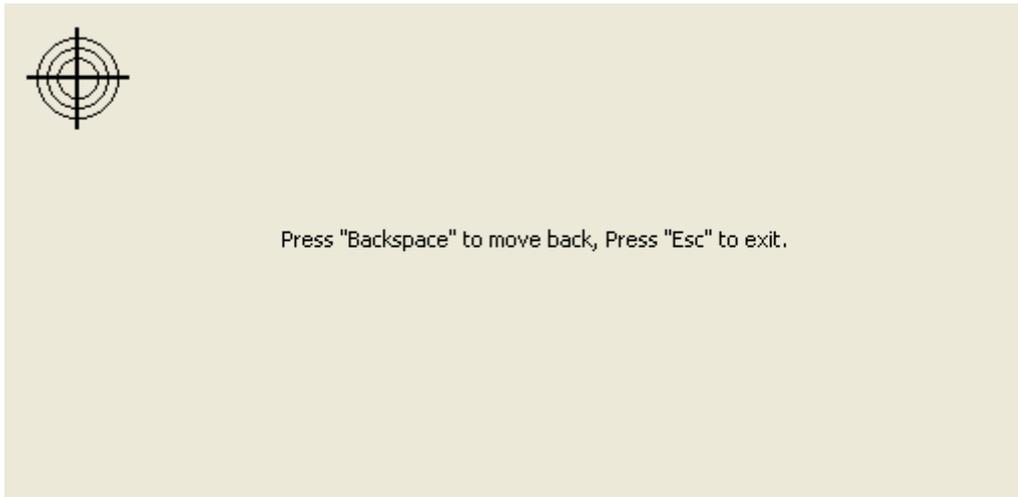


Select a touchscreen from [**TouchScreen List**], choose a number for the touchscreen from the drop-down menu of [**TouchScreen No.**]. And then choose a monitor related to the touchscreen from the drop-down menu of [**Monitor No.**]. You can click the [**Identify**] button, and then on the selected monitor will display its number, so you can know which monitor is selected. After you have set the corresponding relationships between the monitors and the touchscreens, click [**OK**] button to save and exit.

Notes: For Windows 7 computer systems, the function of “Mapping” is gray and not optional. If you need, please use the similar functions of the operating systems’.

2. Calibrate:

After setting the corresponding relationships between the monitor and the touchscreen, you can calibrate each touchscreen. The method is to choose a touchscreen from the list, click [**Calibrate**] and the calibration window appears, as shown in:



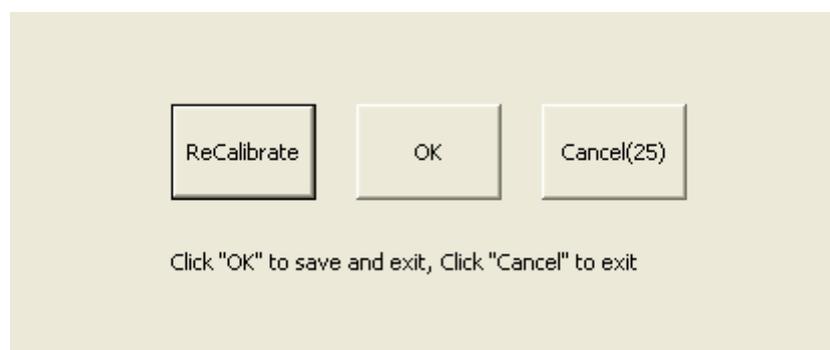
Click center of the butt mark, don not lift your finger until data of the point has been collected. Collect data of each calibration point one by one in the same way to calibrate the touchscreen.

There are optional two ways of calibration: 4 points and 25 points. See “2.2.6 Calibrate Settings” for reference.

When calibrating, you can press “Backspace” key to return to the previous calibration point and restart to calibrate from that point.

When calibrating, you can press “Esc” key to exit.

After calibration, three buttons appear, as shown in:

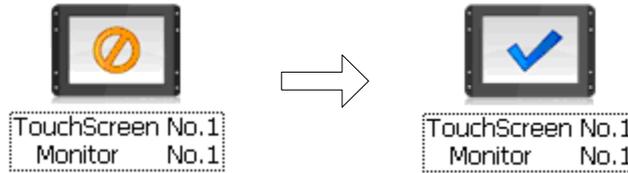


① **[ReCalibrate]**: to calibrate again;

② **[OK]**: to save the calibration result and exit;

③ **[Cancel]**: to exit without saving the calibration result.

After calibration, red circle in the center of the touchscreen becomes blue tick, as shown in:

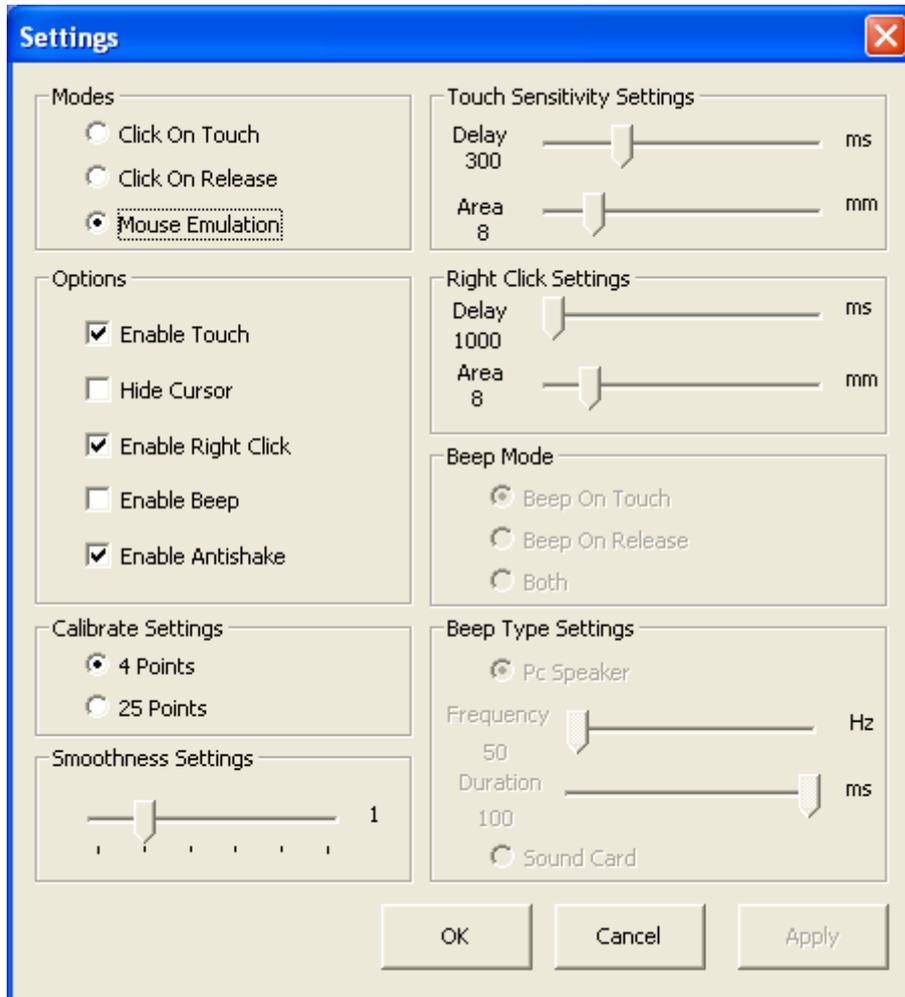


3. **Reset:**

Choose a touchscreen from the list, click **[Reset]** to abandon the previous calibration result and use the default calibration data. Blue tick in the center of the touchscreen becomes red circle.

2.2 Settings

Click the [Settings] button on the TouchScreen Control Panel, the “Settings” panel appears, as shown in:



Notes: For the detailed descriptions of those functions, you can refer to the introduction of the rest of this chapter. You can flexibly set related parameters according to hardware statuses and external factors, so as to achieve the best practical effects. See “Attachment - General setting of the touchscreen (As reference)” for reference.

2.2.1 Modes

There are three touch modes:

1. Click on Touch:

Mouse single click event happens immediately at the point when the finger contacts the touchscreen. The mode is applied only to click objects, but not to drag objects. Touchscreens in the mode responds fastest and are usually used for clicking big buttons. Under this mode, Beep mode that can be used is only “Beep on Touch”.

2. Click on Release:

Mouse single click event happens at the point when the finger leaves the touchscreen. You can move the pointer or finger without lift until you accurately hitting the object that you want to click. Touchscreens in the mode are usually used for clicking small buttons or clicking hyperlinks on a Web page, such as POS and Web applications. Under this mode, Beep mode that can be used is only “Beep on Release”.

3. Mouse Emulation:

Default mode of the driver. Full emulation of mouse functions, including left-clicking, moving, lifting, and dragging objects. The mode is very suitable to the following applications: writing, drawing, and dragging maps. Under this mode, you can choose any mode among the three Beep modes.

Tips: For Windows 7 computer systems, the option is “Touch Mode”.

2.2.2 Options

1. Enable Touch:

Enable (default)/disable touchscreen.

2. Hide Cursor:

Hide cursor without turn off the mouse functions. Because mouse cursor is not necessary in some cases, such as clicking big buttons, playing animations and children education in “Click on Touch” mode.

3. Enable Right Click:

Enable (default)/disable right click function. Click and press on any area of the screen for a while, then the right-click pop-up menu will appear. This function is only available in “Touch Mode” mode.

You can set the features of the function in “Right Click Settings” on the right side of the panel. See “2.2.4 Right Click Settings” for reference.

4. Enable Beep:

After checking the option, Beep mode enables. As a result, when mouse click event happens, a sound tip prompts.

You can set the features of the function in “Beep Mode” and “Beep Type Settings” on the right side of the panel. See “2.2.5 Beep Mode and Beep Type Settings” for reference.

***Notes:** For Windows 7 computer systems, the functions of “Hide Cursor” and “Enable Right Click” are gray and not optional. If you need, please use the similar functions of the operating systems’.*

5. Enable Antishake:

Enable (default)/disable antishake function. When this option is checked, you can set the value of the smoothness. See “2.2.7 Smoothness Settings” for reference.

2.2.3 Touch Sensitivity Settings

Through touch sensitivity settings, you can set a number of touch delay (Delay) to allow a time for the fingers’ lifting and dropping when touching. You can also set an allowed touch scope (Area) as the fingers’ stay area.

You can set the features of the function in “Touch Sensitivity Settings” on the right side of the panel:

- ① **Delay:** to adjust the number of touch delay, the higher the value, the longer the delay time, range from 50~1000 (unit: millisecond).

- ② **Area:** to adjust the effective area of the touch scope, the higher the value, the wider the effective area, range from 0~50 (unit: millimeter).

2.2.4 Right Click Settings

You can set the features of the function in “Right Click Settings” on the right side of the panel:

- ① **Delay:** to set the pop-up time, the higher the value, the slower the pop-up time, range from 1000~8000 (unit: millisecond).
- ② **Area:** to adjust the jitter-range of the touch surface within limit of error, the higher the value, the wider the jitter-range, range from 4~32 (unit: millimeters).

After setting, right-click menu will pop up so long as the finger contacts the screen for a while (Delay) within the range (Area).

2.2.5 Beep Mode and Beep Type Settings

You can choose a beep mode from “Beep Mode” on the right side of the panel:

- ① **Beep On Touch:** sound tip prompts immediately when the finger contacts the touchscreen.
- ② **Beep On Release:** sound tip prompts at the point when the finger leaves the touchscreen.
- ③ **Both:** sound tip prompts when the finger contacts and leaves the touchscreen. Under this mode, only “Touch Mode” can be used.

You can set the features of the mode in “Beep Type Settings”:

- ① **PC Speaker:** send out beep through the default PC card, and you can adjust the frequency (Frequency)and duration (Duration) of beep to change the sound.
- ② **Sound Card:** send out sound through the sound card.

Notes: “PC Speaker” and “Sound Card” are mutually exclusive, you can only choose one of them. And for Windows XP and Windows Vista of 64 bits, “PC Speaker” is not supported.

2.2.6 Calibrate Settings

There are optional two ways of calibration:

- ① **4 Points:** 4 points calibration.
- ② **25 Points:** 25 points calibration.

By default, 4 points calibration is used.

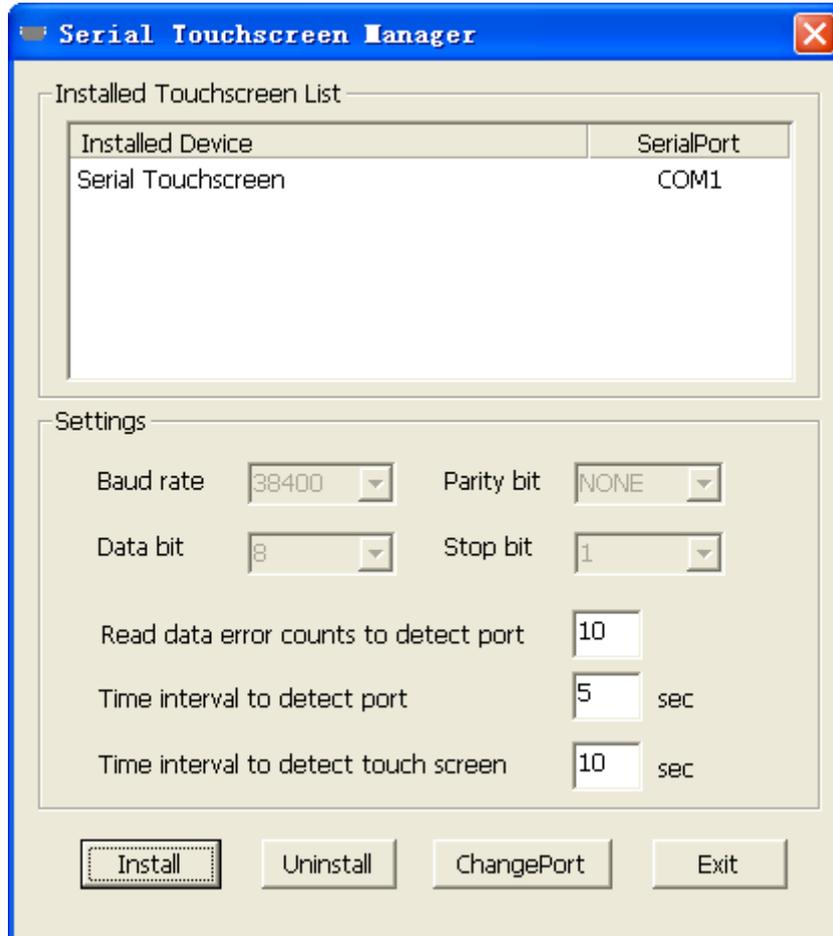
2.2.7 Smoothness Settings

You can drag the slider to adjust the value of the smoothness, from 0 to 5.

***Tips:** The higher value of the smoothness, the better effect of writing or drawing, but the higher requirement of the computer system configuration. The lower value of the smoothness, the faster of writing or drawing. It is recommended that you use the default setting (the value set to 1).*

3 Serial TouchScreen Management

Double-click the shortcut button "Serial Touchscreen Manager"  on the desktop, open the Serial TouchScreen Manager, as shown in:



3.1 Installing Port

Click "Install", select another serial port from the pop-up window and click "OK", then the driver will be installed to that port.

3.2 Uninstalling Port

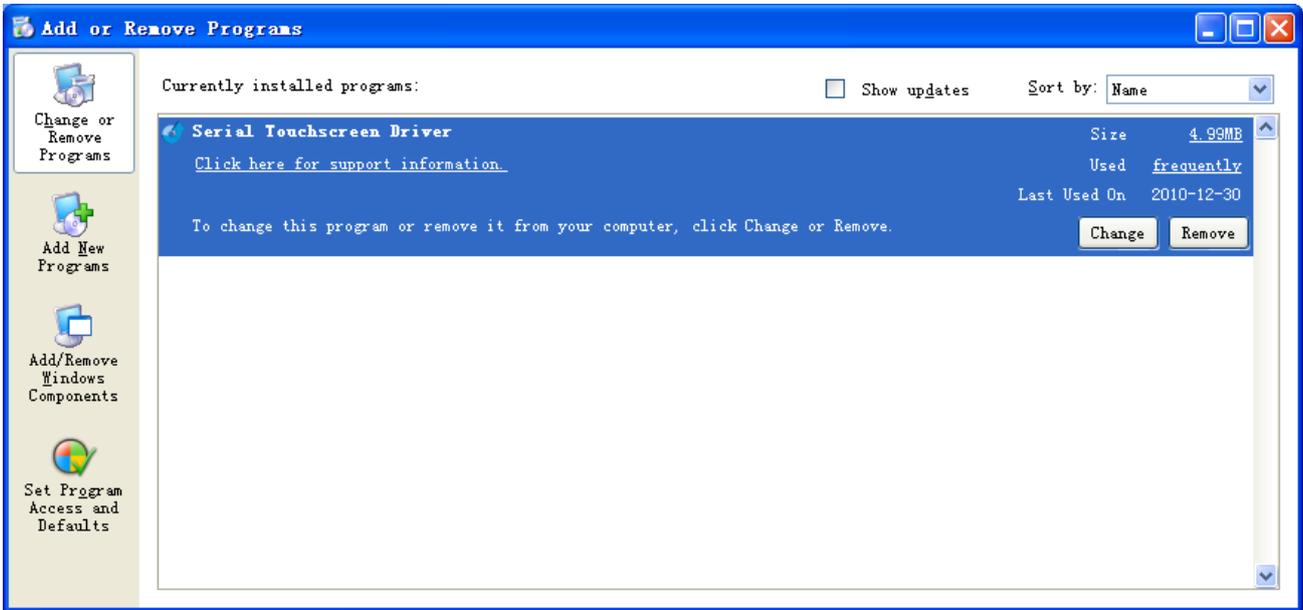
Choose an installed serial port from the list and click "Uninstall", then driver installed in that port will be uninstalled.

3.3 Changing Port

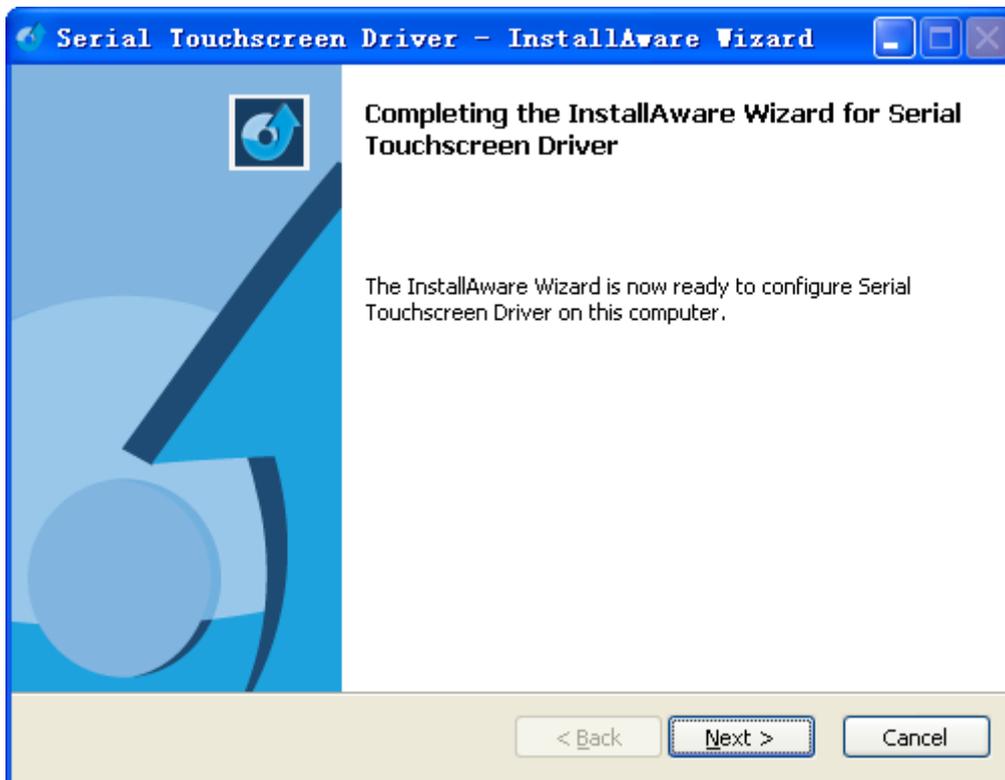
Click [ChangePort], select a port from the drop-down menu, and click [OK] to save and exit.

4 Uninstallation

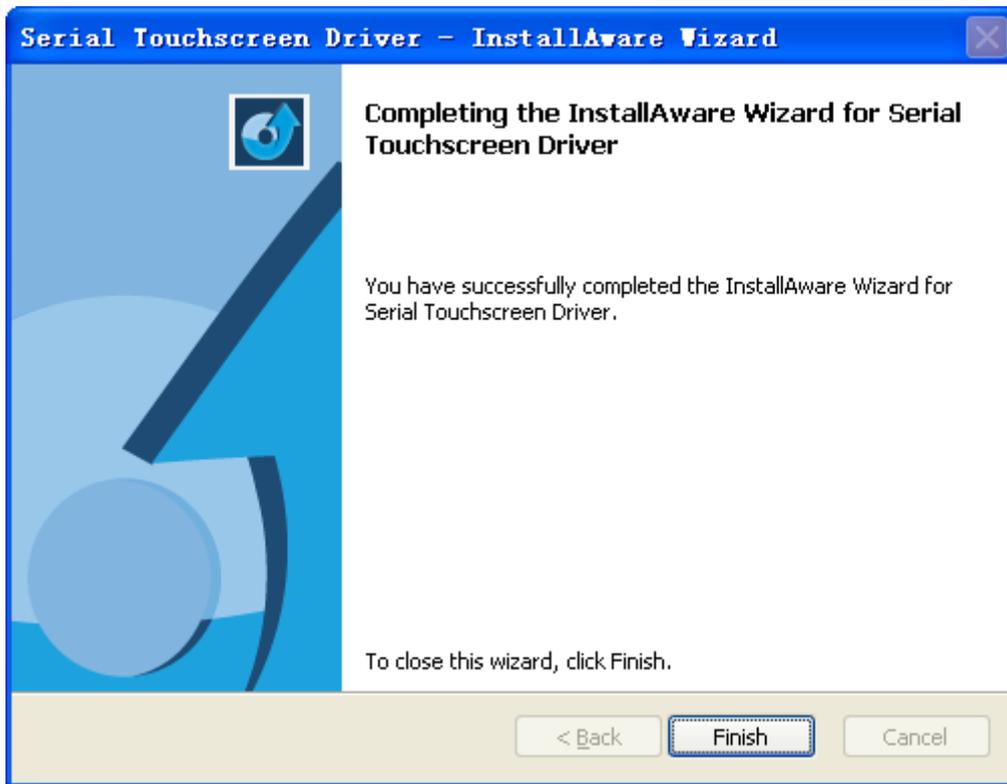
Step1: Click “Control Panel”-“Add or Remove Programs”, select “Serial TouchScreen Driver” from the list, then click “Remove” button to uninstall the driver, as shown in:



Step2: Click” Next” to start the uninstallation driver, as shown in:



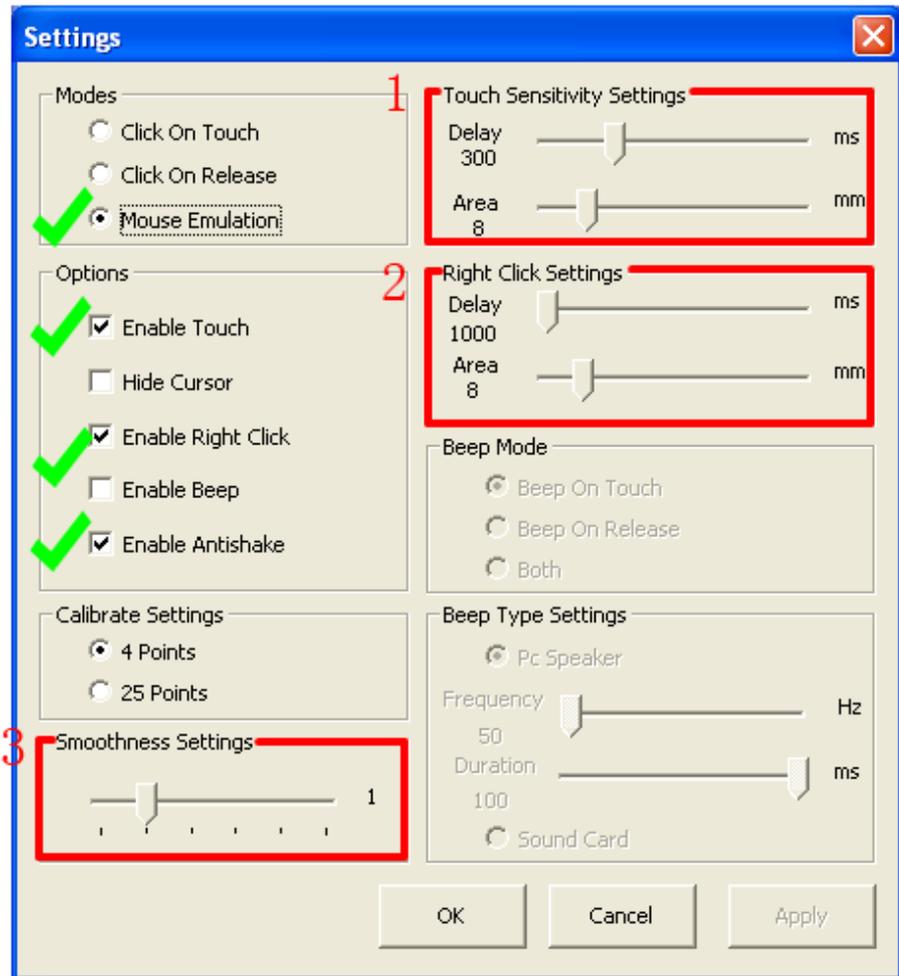
Step3: Driver uninstallation is complete, click “Finish” to close the wizard, as shown in:



Attachment - General setting of the touchscreen (As reference)

Select “Mouse Emulation” mode, then check “Enable Touch”, “Enable Right Click” and “Enable Antishake” in “Options”. Whether checking “Hide Cursor” or “Enable Beep” depends on your actual conditions.

Setting Description:



1. Touch Sensitivity Settings:

Through touch sensitivity settings, you can set a certain time and scope for the fingers’ lifting and dropping when touching. In general, “Delay” is set to 300ms (0.3 second), “Area” is set to 8mm.

2. Right Click Settings:

Click and press on any area of the screen for a while, then the right-click pop-up menu will appear. This function is only available in “Touch Mode” mode. In general, “Delay” is set to 1000ms (1

second), “Area” is set to 8mm.

3. Smoothness Settings

You can drag the slider to adjust the value of the smoothness, from 0 to 5. The higher value of the smoothness, the better effect of writing or drawing, but the higher requirement of the computer system configuration. The lower value of the smoothness, the faster of writing or drawing. It is recommended that you use the default setting (the value set to 1).

(Please refer to the User Manual for detailed information.)