RS2200 Series Infrared TouchScreen User Guide

IRTOUCH

This document describes IRTOUCH RS2200 2 point infrared touchscreen products' assembly steps, installation and instructions of the touchscreen software, and second development based on this system.

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1 Terms

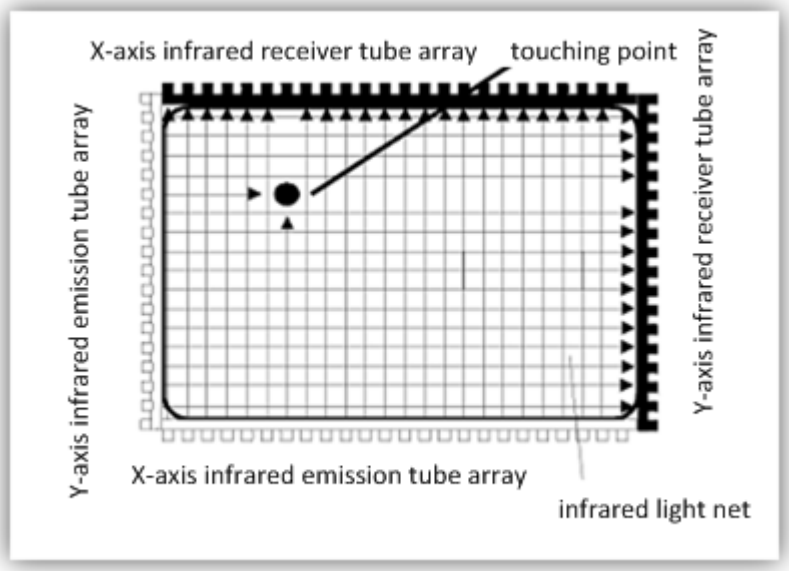
- Display: display devices, contain LCD, LED, plasma, projector and one-touch etc.
- Touch point: entry points that can be identified at one time on the touch frame
- Multi touch: a kind of human-computer operation that can receive multiple points on the screen at one time
- Ghost point: point in the allowable touching area of the touchscreen but cannot be identified because of the limits of technology
- Gesture: operations of the fingers' move which are replacement of the mouse and keyboard, such as click an object with two fingers and then separate/tighten the fingers to zoom in/zoom out the object, or slid on the screen to browse the scrollbar
- Touch Open Area: open area of the touchscreen frame
- Touch Active Area: area of the touchscreen that can be touched

2 Introduce of the products

Infrared touchscreen is an entire new human-computer equipment, which allows people to control the computer directly by fingers. RS2200 series infrared touchscreen supports 2 touch.

2.1 How infrared touchscreen works

IRTOUHC infrared touchscreen uses a kind of technology based on optical blocking induction detection and location system. The infrared touchscreen is surrounded by closed arrangement of infrared emission and receiver tube arrays. The infrared emission tubes emit infrared light so a dense light net is formed on the glass surface. The infrared receiver tubes receive infrared light emitted by the corresponding infrared emission tubes. When user touches the glass surface, the infrared emit- receive light path is blocked, which can be used to calculate the location of the touching point.



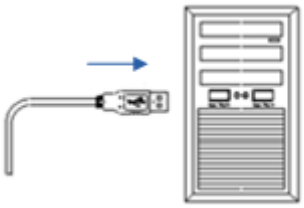
3 Product instructions

3.1 Hardware and system requires

	Minimum	Preferred
Processor	Dual Core or better	Quad Core 2.5G or better
Memory	1G or more	4G or more
Graphic Card	Integrated graphics	DX 9.0 standalone VRAM： 512MB or better
Operating System	Windows/Mac OS X/Linux	Windows 7
Power Supply	AC Adapter(5V, 2A)Powered	AC Adapter(5V, 3A) Powered

3.2 Equipment Connection

Put USB port of the touchscreen to a USB port of your PC, as shown in



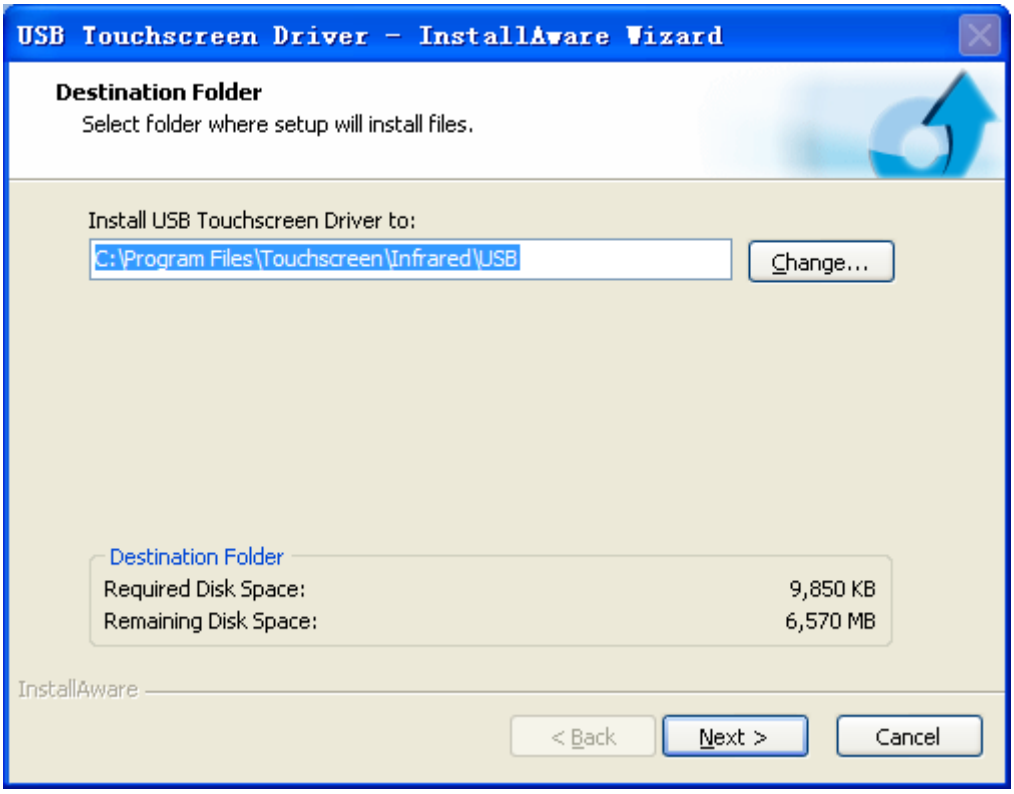
3.3 Driver Installation

3.3.1 Common Installation

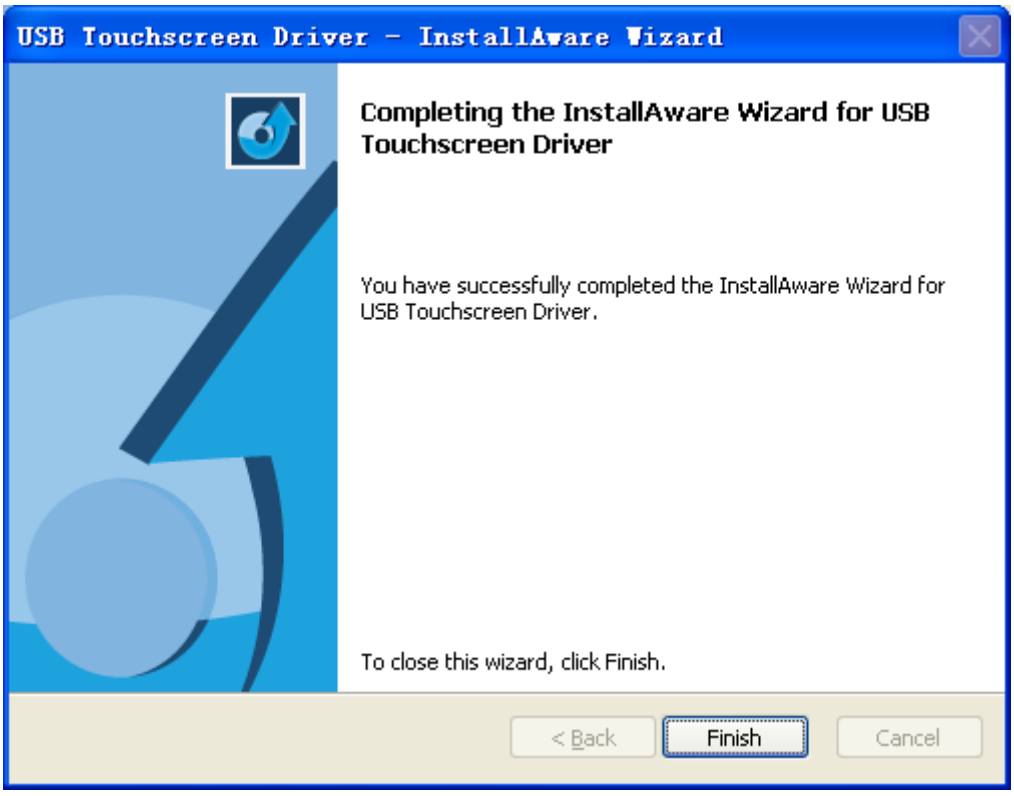
Step 1: Double-click driver installation “Setup_IRTOUCH_USB.exe”, interface into the driver installation;

***Notes**: If your computer system is Windows Vista or Windows 7, please right click “Setup_IRTOUCH_USB.exe” and choose “Run as Administrator”.*

Step 2: The default installation path of the driver is “C：\Program Files\TouchScreen\Infrared\USB”, you can click “Change…” to select another installation path, and then click “Next”, as shown in:



Step 3: Driver installation is complete, click “Finish” to close the wizard, as shown in:



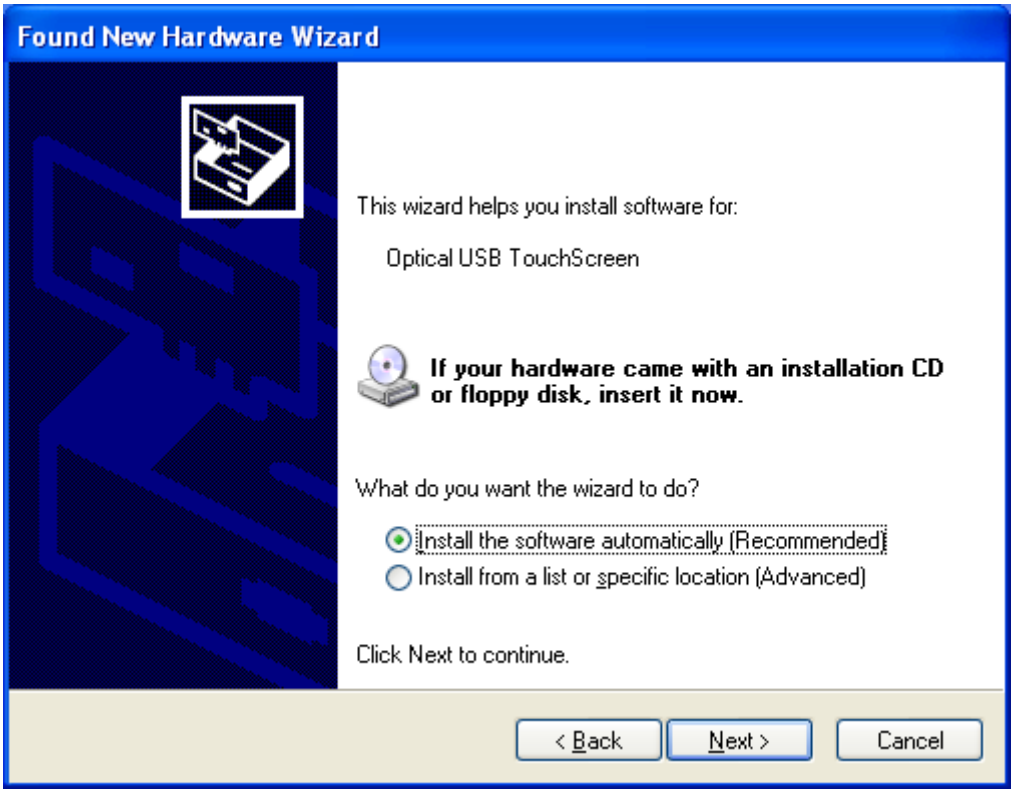
***Tips**: Some system security software may prompt whether to disable the driver, please choose "No".*

Step4: Plug the end of the USB connecting line to the USB port of the computer, 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:

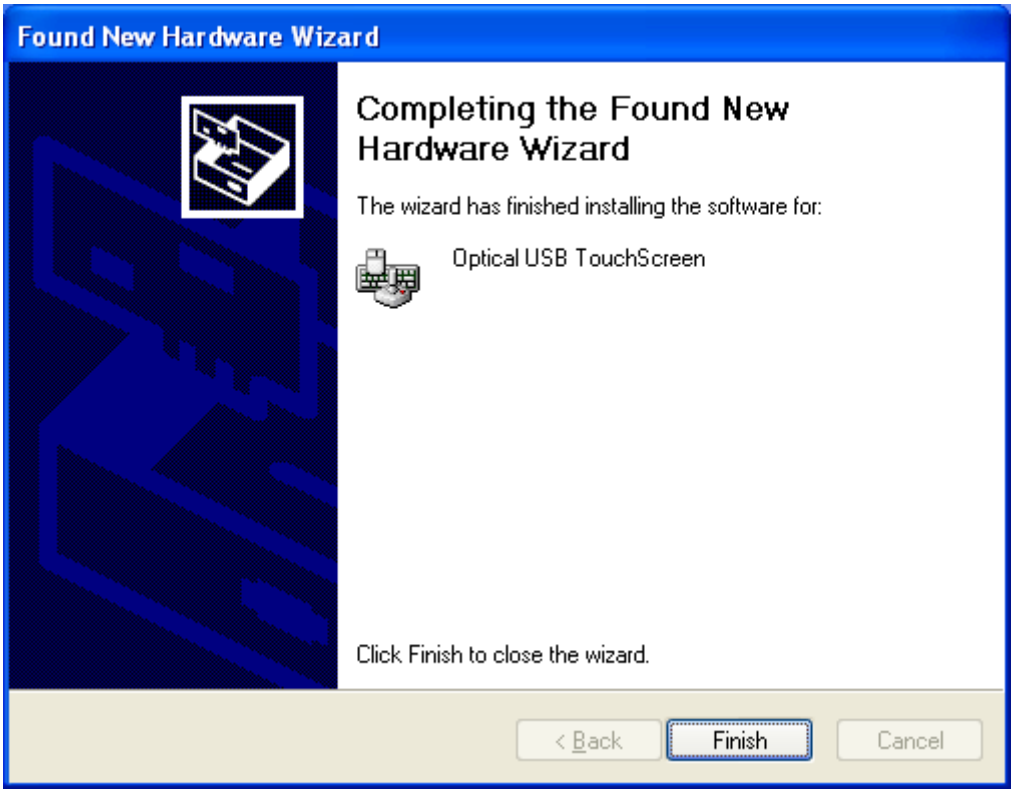
***Notes**: Now the driver has been installed to your computer, system will automatically retrieve the driver. But it is suggested that you restart your computer and please wait 5 seconds before you use the whiteboard. And moreover, some computers need to take the following steps to find the new driver.*

Step 5: In the pop-up "Found New Hardware Wizard" window, choose "No, not this time", and then click "Next" to continue, as shown in:

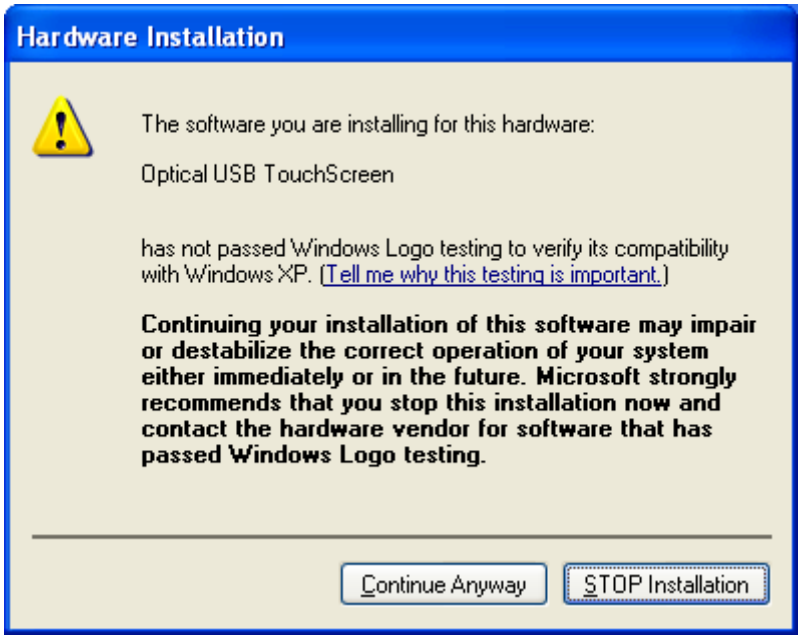
Step 6: Choose “Install the software automatically”, and then click “Next”, as shown in:



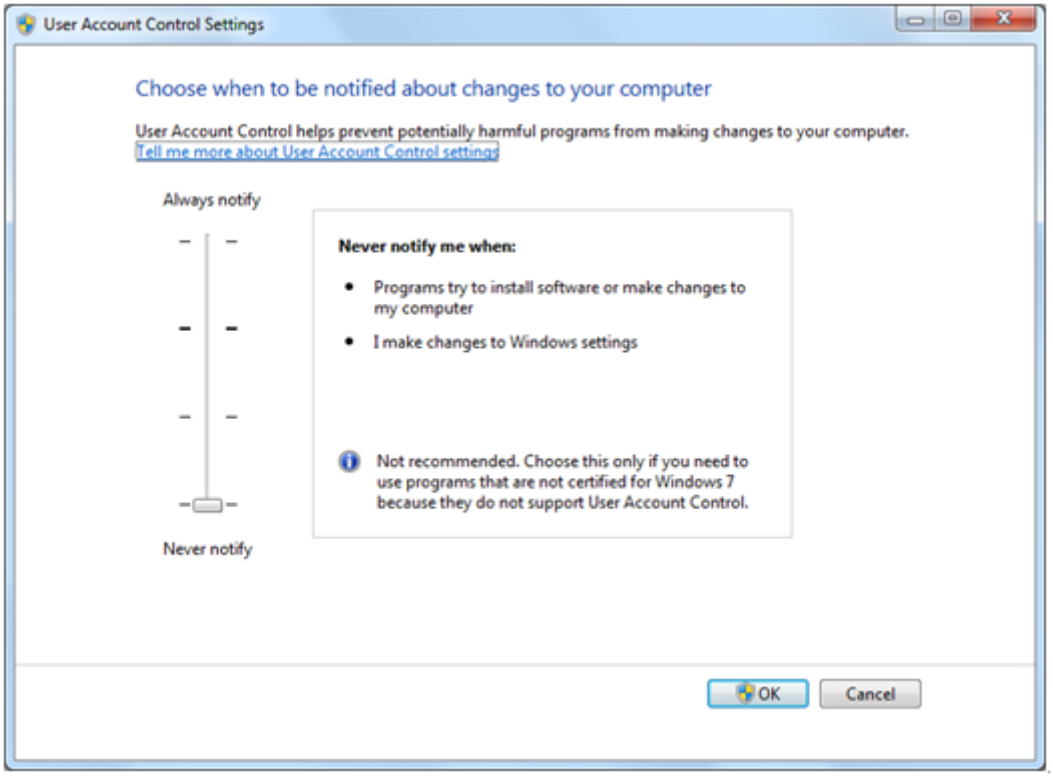
Step 7: Click “Finish” to complete the driver installation, as shown in the following figure. Toolbar at the lower right corner of the computer prompts:”Found New Hardware”, the new hardware is installed and ready to use:



***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:*



3.3.2 Silent Installation

Step1：Follow “Start”-“Run” and input “cmd” to enter DOS operating environment.

Step2：Input the driver installation package folder’s path, and then click “Enter”.

Step3：Run command line: “setup.exe /s” (“setup.exe” is the name of the driver installer) and click “Enter” to install the driver.

3.4 Touchscreen Connection

Connect the touchscreen lead-out wire to the PC or other supporter, and then connect the power supply.

3.5 Begin to Use

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

3.5.1 Parameters Setting

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 "Mouse Emulation" mode. In general, "Delay" is set to 1000ms (1 second), "Area" is set to 8mm.

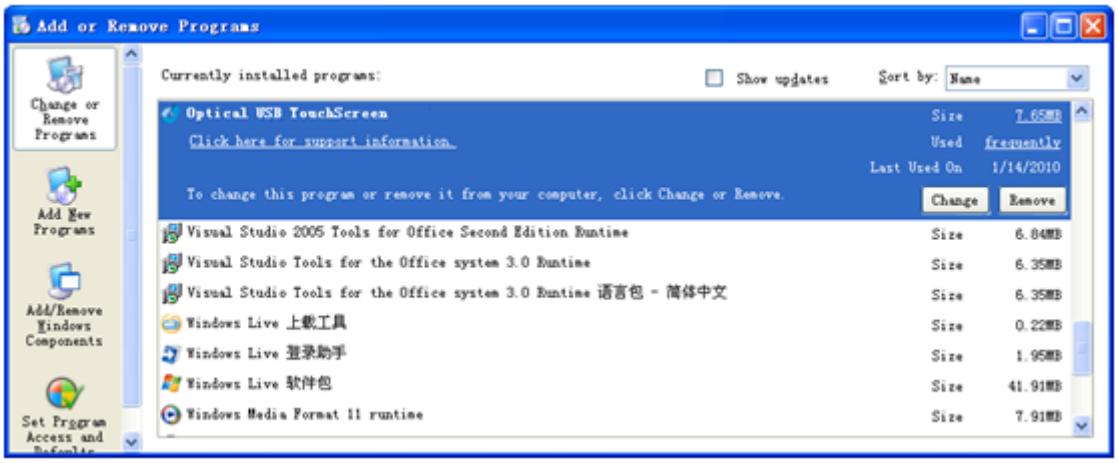
3. Smoothness Settings

You can drag the slider to adjust the value of the smoothness, from 0 to 12.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 12).

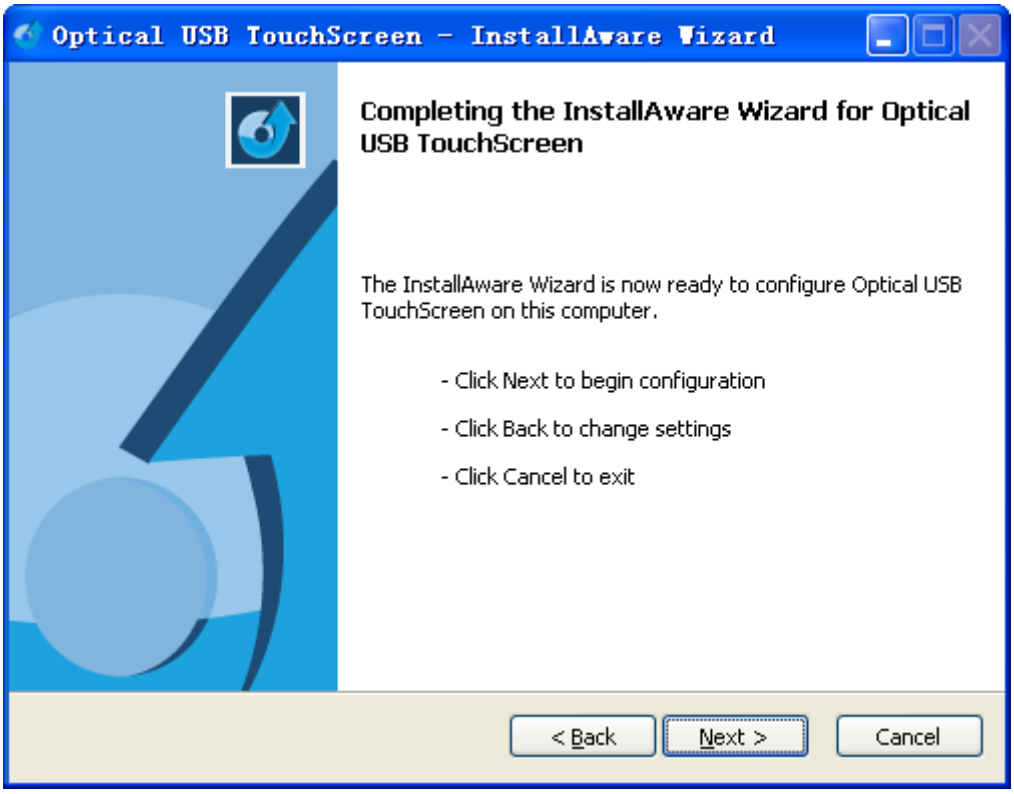
3.6 Uninstallation

3.6.1 Common Uninstallation

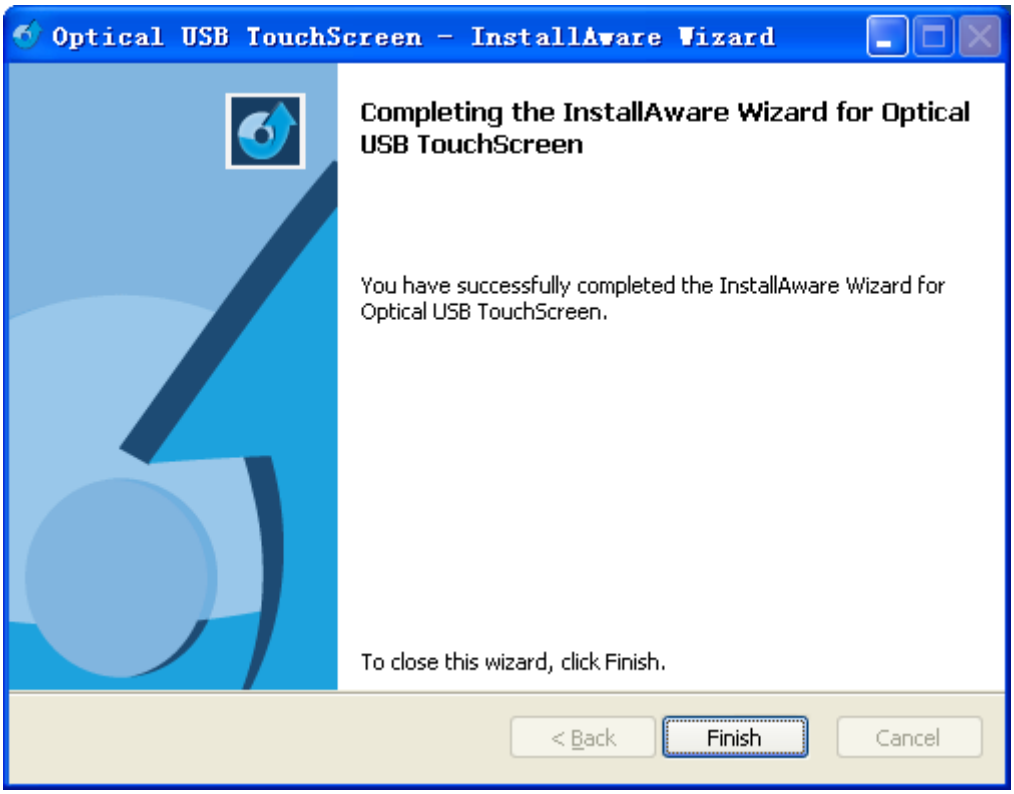
Step1：Click "Control Panel"-"Add or Remove Programs", select "USB TouchScreen Driver" from the list, then click "Remove" button to uninstall the driver, as shown in:



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:



3.6.2 Silent Uninstallation

Step1：Follow “Start”-“Run” and input “cmd” to enter DOS operating environment.

Step2：Input the driver installation package folder’s path, and then click “Enter”.

Step3：Run command line: “setup.exe /s MODIFY=FALSE REMOVE=TRUE UNINSTALL=YES” (“setup.exe” is the name of the driver installer) and click “Enter” to uninstall the driver.

NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY

FCC caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.