User Manual

V 1.0N

Contents

Introduction

This model is the first portable Interactive Whiteboard that supports finger touch. It can work with any projectors or LCD screen and turn the projection screen or LCD Screen into finger touchable. Key features: portable and finger touch; detect any non- transparent objects; Work on any surfaces, no limited on the material; active sizes range from 40”-85’’; can work with common board and save the record of both mark pen and finger writing.

* 6 months replacement，2 years limited warranty for the model.

Features

1, Support finger touch.

2, Multi-writing.

3, Remote control with our new pen.

4, Support to delete the words with the normal eraser.

5, Portable and easy to install.

6, Turn normal whiteboard or wall into finger touchable.

7, Any non- transparent objects like a rolled paper.

Specifications

calibration	manual
object detection	finger(stylus) or eraser
delay	<80 ms
minimum active work area	40" diagonal
maximum active work area	85" diagonal
tracking technology	Laser Image Calibration Technology (LICT)
positional accuracy	±1 Pixel (Resolution: 1024 x 768)
average power	
consumption	500mW
dimensions	Bar: L 70cm, Base: L 14cm x W 12.5cm x D 4.5cm
power requirements	100-240V, 50/60HZ, 0.2A
weight	0.65kgs
requirements	Windows XP, Vista, Windows 7
software	software CDs
certification	CE, FCC

Package Includes

Finger Touch Model

8m USB Cable

Power Adaptor

CDs

Hard Key

Working Environment

Computer	CPU：P4 1.6 or Above RAM：1G Hard disk：80G
	System：XP / 2003 /2000/ Win7 Software：NET Framework 3.5

Software Installation

Open the small CD and copy the “Calibration Software” and “Application Software” file folders into your PC.

Step 1: When the system is Windows, Vista or XP, please place the big software CD-ROM into the CD drive and copy the “dotNetFX35’’ folder in the CD-ROM onto your PC’s hard disk drive. (Please skip this step with Windows 7)

Please Note: do not RUN the software from the CD directly.

Step 2: Open the “dotNetFX35’’ and then run 

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Step3: Open the folder “Application Software’’ and run 

, There will be a icon of tBoard on the desktop. 

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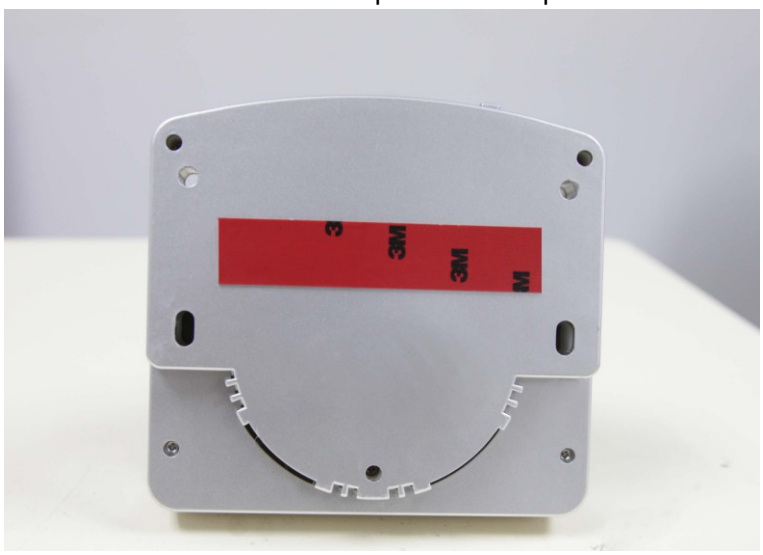
Now the Application software of “tBoard” is installed.

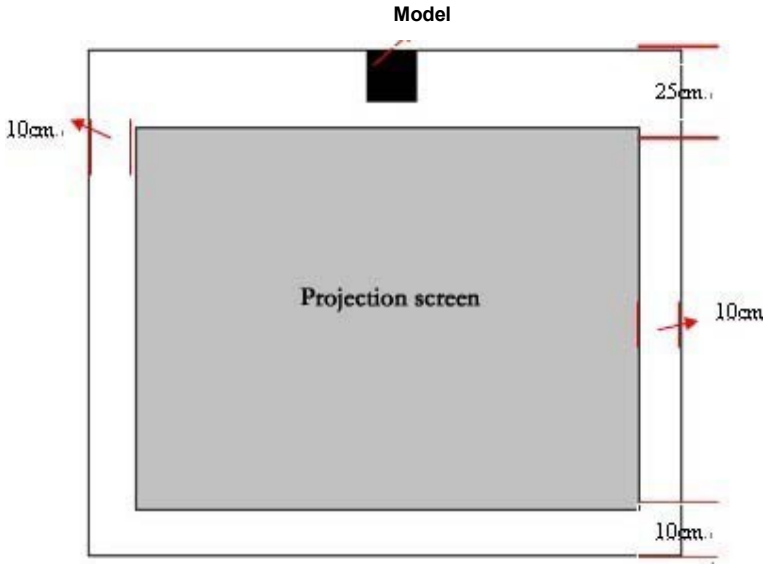
Step4: Open the “Application software’’ and install “Handwriting Recognition’’.

Hardware Installation

1, There is a red tape on the base as below. Please keep it and don't peel off the red sheet.



2, Prepare a flat whiteboard: Please leave a space between the projection screen and whiteboard edge as marked as below.



3, If you choose to install with screws, please according to the following steps:

Take the cover of Base(Pic1). Put 4 screws and mount the model on the area marked in black area in the above picture. The base should be at the same level with the surface of whiteboard.

Set the bar perpendicular to the board. Tighten the upper screws and then the down screws (Pic2). The base should be touched on the board with a little space **(Later we will adjust the angle of model through fastening or loosening the screws.)**

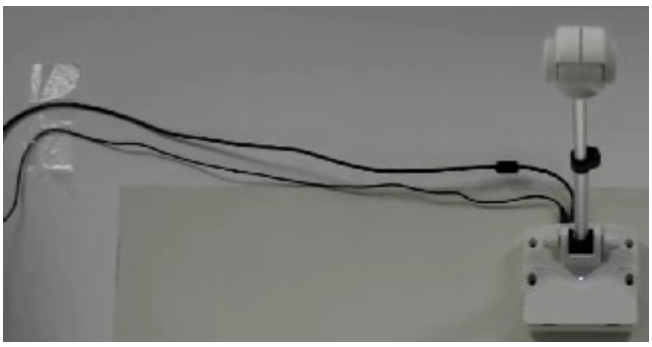
(Pic1)

(Pic2)

If you choose to install with the double faced adhesive tape, please according to the following steps: Put another two strip of double faced adhesive tapes onto the model's base (like Pic3), tearing the red layer, and put the model onto the board or wall. You'd better to use your double hands to press the model to the flat surface about 20 seconds to make sure it can be sticky strongly.

(Pic3)

4, Connect one end of USB Cable to the USB Port of Computer, and the other end to model. Plug the power cable into the model. USB and Power cable should be exclusive to the projection screen（Pic4）. Plug the hardkey into the USB Port of computer and press the button of model.



(Pic4)

5, Start the Calibration Software by click **"3D_IWB"** . **If the mouse is out of control, Please use the hand or any other object to cover the lens of the model, then open "Operation", select "Disable Optical Pen Control". Then you can remove your hand. And follow the new instruction to take off the interruption. At the end, please close "Disable Optical Pen Control" function.**

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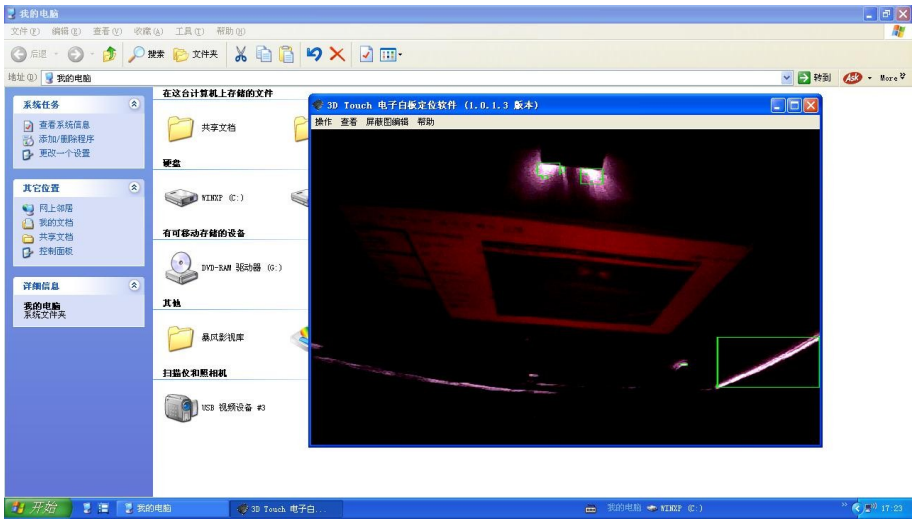
1, If you didn't see any image through model's camera, that means there is another camera with computer, please click "Stop". Then open "Parameter Settings" to choose another camera in the list of device and click "Start" again.

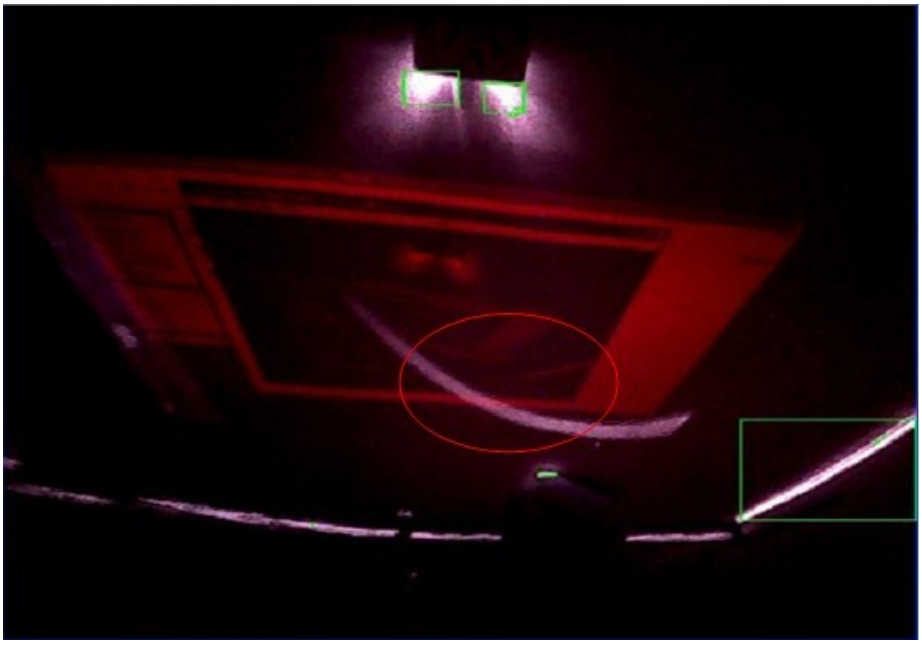
2, If the screen is too dark to be clear for checking. Please change the background of computer to white (open "my computer" like Pic5), and drag this screen to the center like the following picture.



(Pic5)

3, Computer screen should be involved in the viewing window completely. And it should be as big as 60% of the whole screen.

4, **You may see some white line marked in red circle (Pic6). It will make calibration failed**

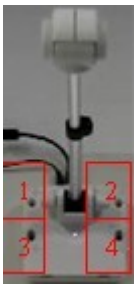


(Pic6)

If you use the screws for installation, this problem can be solved by tightening No 1 screw and loosen No 4 screw (Pic7). Please keep trying until the white line gone (Pic8)

(White line is located at left of screen, please tighten No 2 screw and loosen No 3 screw
White lines are located at left and right screen, please loosen No 3, 4 screw and tighten No1, 2 screws)

If you use the double faced adhesive tapes for the installation, this problem can be solved by use some cards (for example: name cards) to insert between the flat surface and base of the model.
(White line is located at the left of the screen, please inserts the cards to the left side of the base; White lines are located at the left and right screen, please inserts the cards from the bottom of the base (like Pic9)



(Pic7)

(Pic8)

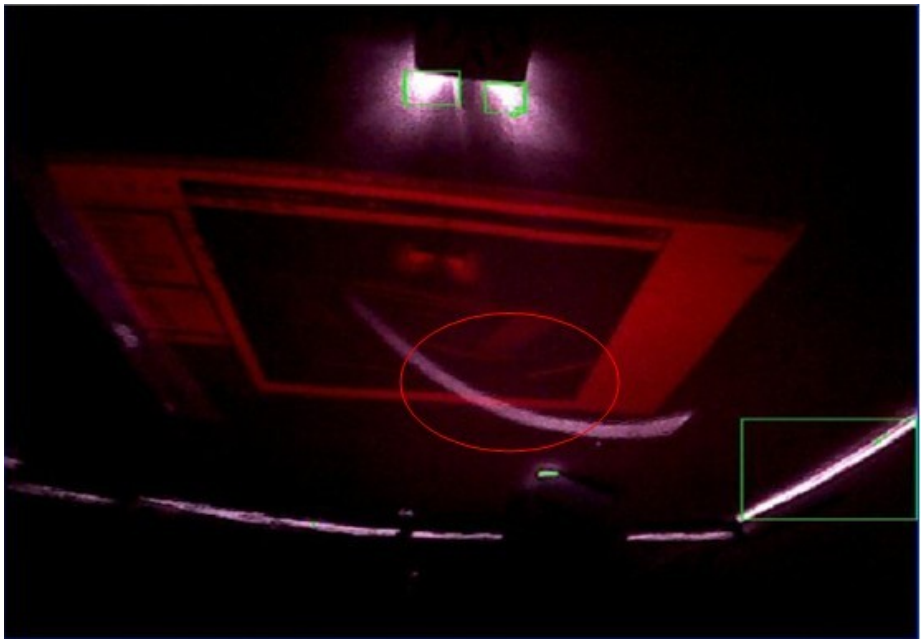
(Pic9)

4, Please try to click 5 points of screen (Pic10). Move one finger from far to close. If the finger is detected at 5mm or above before touching the board. Please tighten No 3 and No 4 screws and loosen No 1 and No 2 screws. (For

double faced adhesive tapes, please insert the cards from the bottom of the base. Before adjusting the screws, please open the calibration screen first and check the result. Keep doing this until the finger can only be detected at 2-4mm away from the whiteboard surface.

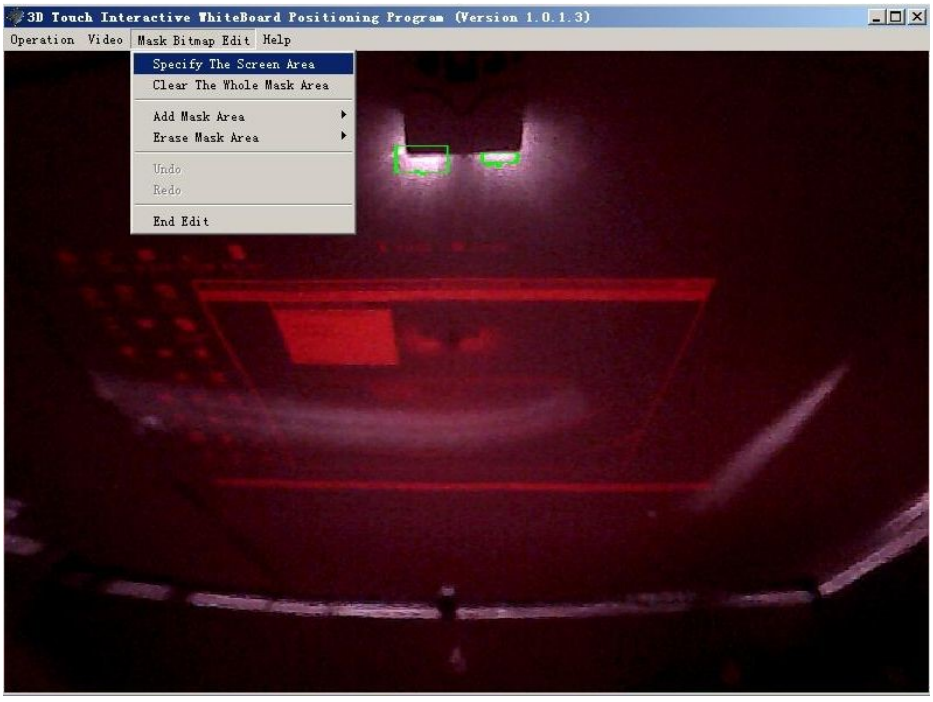
(Pic10)

5, There are some green frames, green dot or white belt like Pic11. In this situation, you have no way to do calibration. It is necessary to take off these interruptions first.



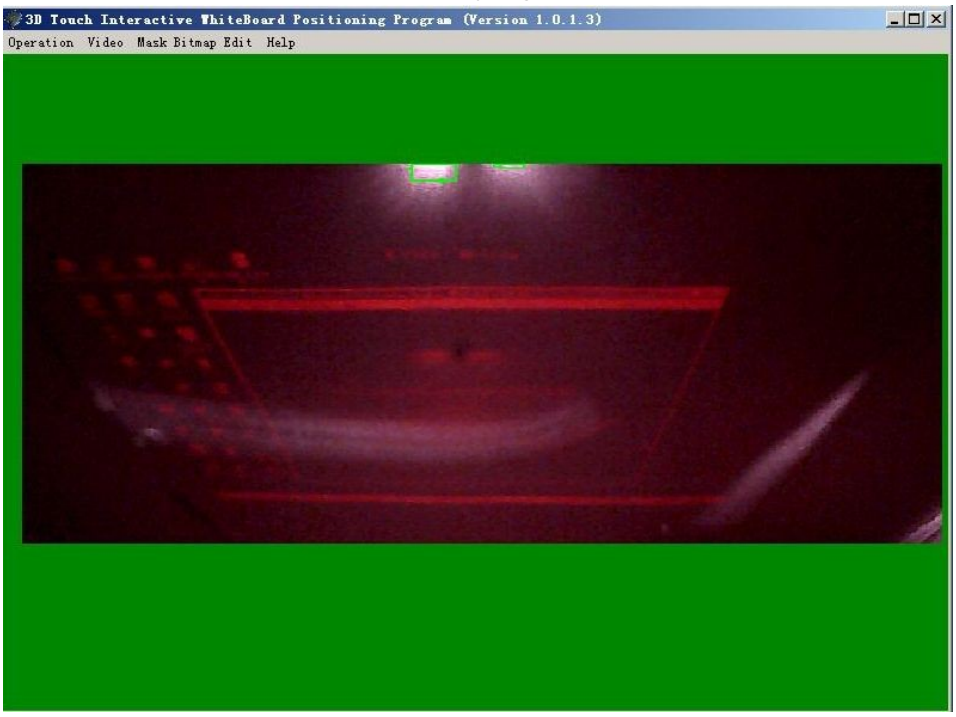
(Pic11)

Please open “Mask Bitmap Edit”, choose “Specify the screen area” and draw the computer screen.



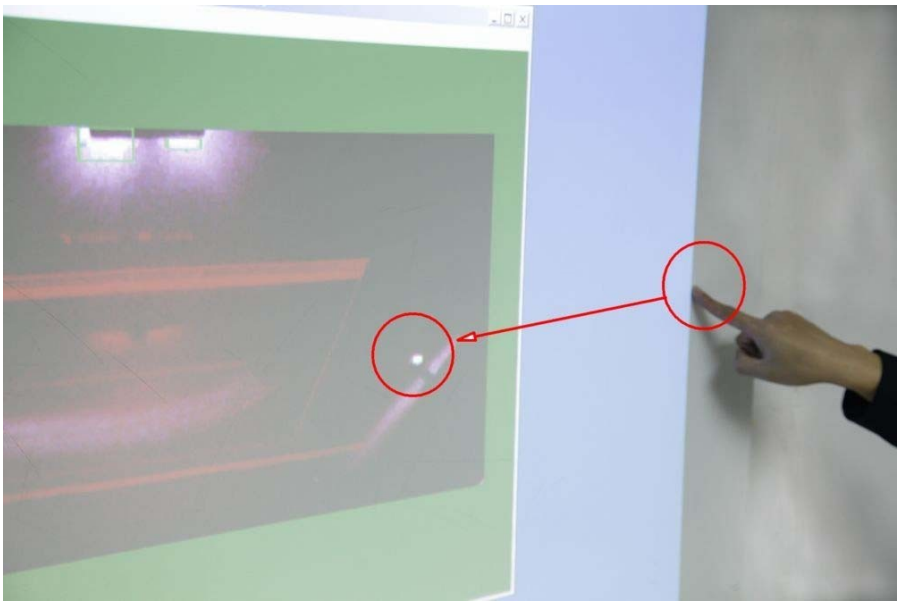
(Pic12)

The other area out of computer screen will be covered by a green mask (Pic13)



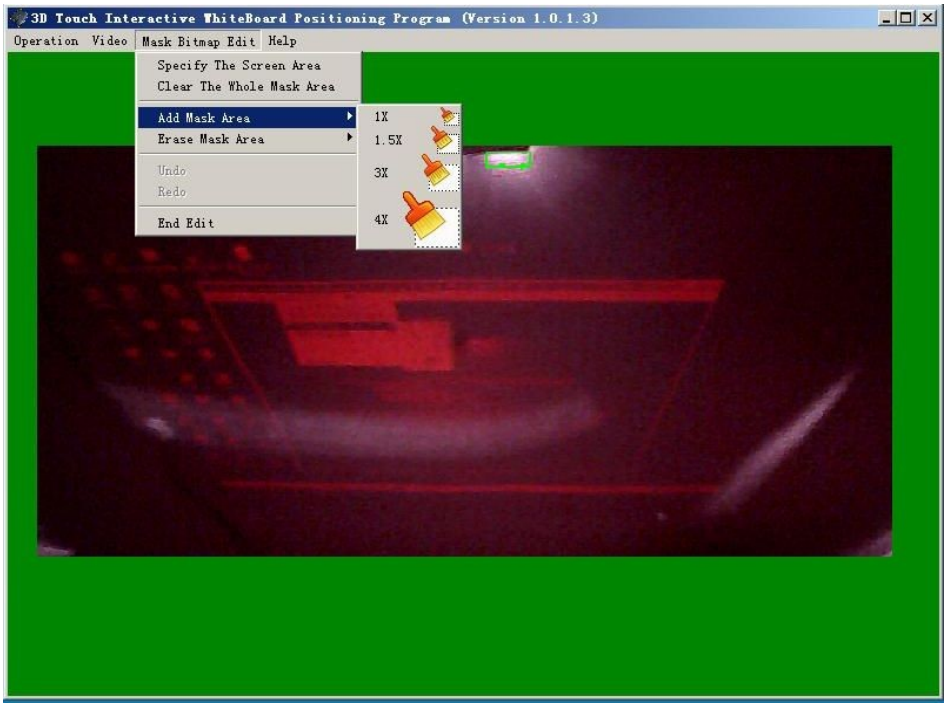
(Pic13)

If the border of computer screen is not clear, a partner is needed. He / she moves his / her finger following the border of screen, there will be a dot appearing in the projection screen (Pic14).

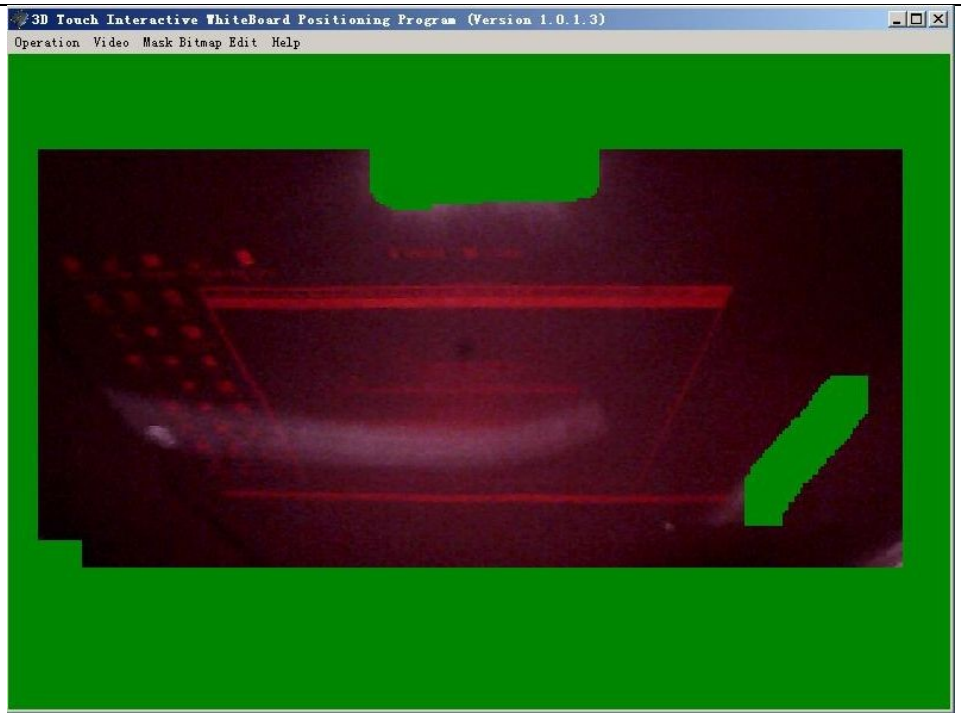


(Pic14)

There may still be some other green boxes or dots in the screen, please open “Mask Bitmap Edit”, click “Add Mask Area”, Left click the mouse and paint the green box or dot like (Pic15 and Pic16). **After finishing that, please choose “End Edit”.**

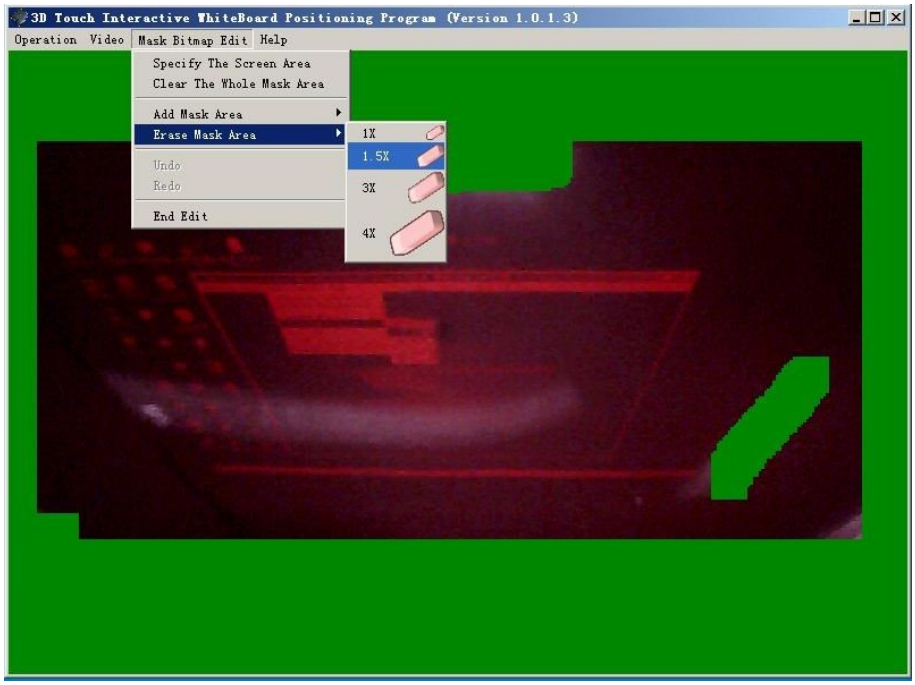


(Pic15)



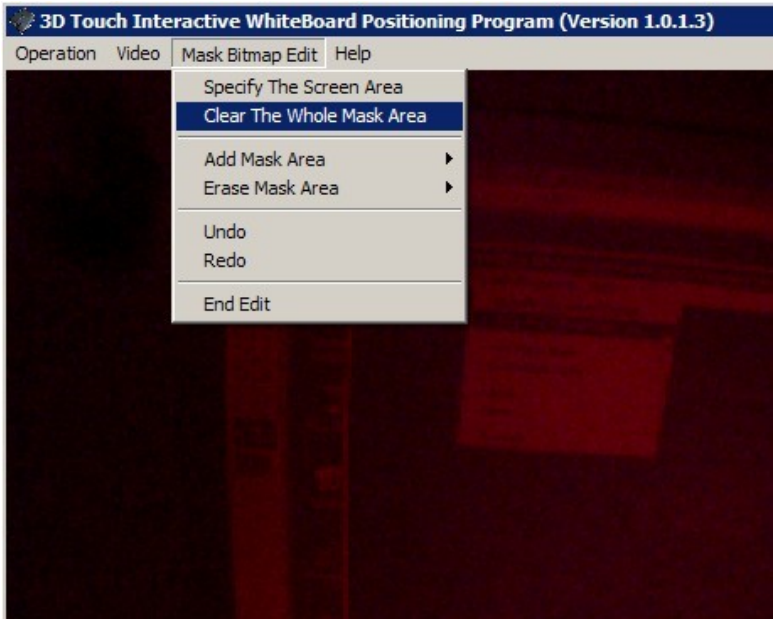
(Pic16)

6, If some active screen is masked by mistake, please click “Erase Mask Area”. After finished, don’t forget click “End Edit”. (Pic17)



(Pic17)

7, **Please don’t click “Clear The whole Mask Area” function unless the model or Projector is removed**. This function will delete all the calibration setting. (Pic18)

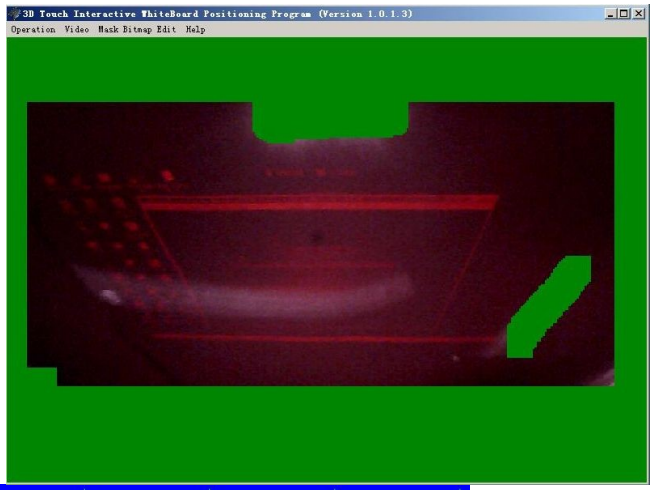


(Pic18)

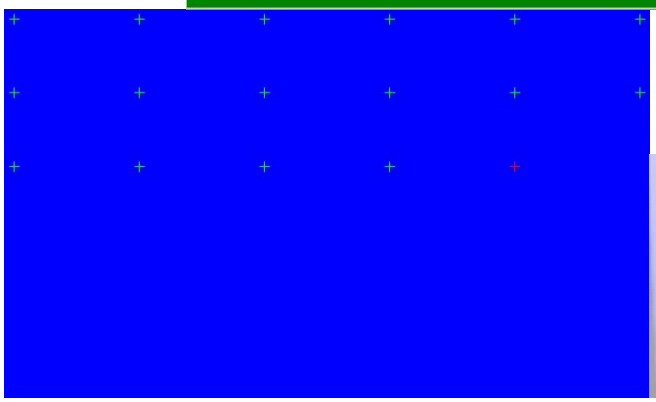
8, After edit the active screen and take off any interruption light source, the active screen will be only in red and green as below (Pic19). **Then we can do calibration now.**

Open “Operation”, choose “Manual Calibration” to enter the calibration process. Use your finger to touch the dot shown on the screen (Pic20, Pic21), another dot then appears, repeat this process until the 36th dot is finished. After you have finished the calibration, the calibration software will minimum at the corner of the computer.

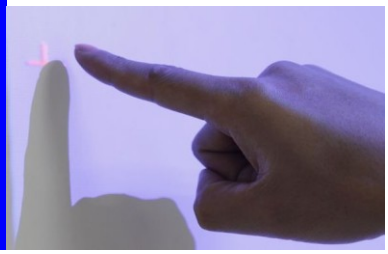
Now you can use finger as a mouse on the projection surface.



(Pic19)



(Pic20)



(Pic21)

tBoard Software Manual

Double click the icon of tBoard from the desktop.

Start Menu Introduction

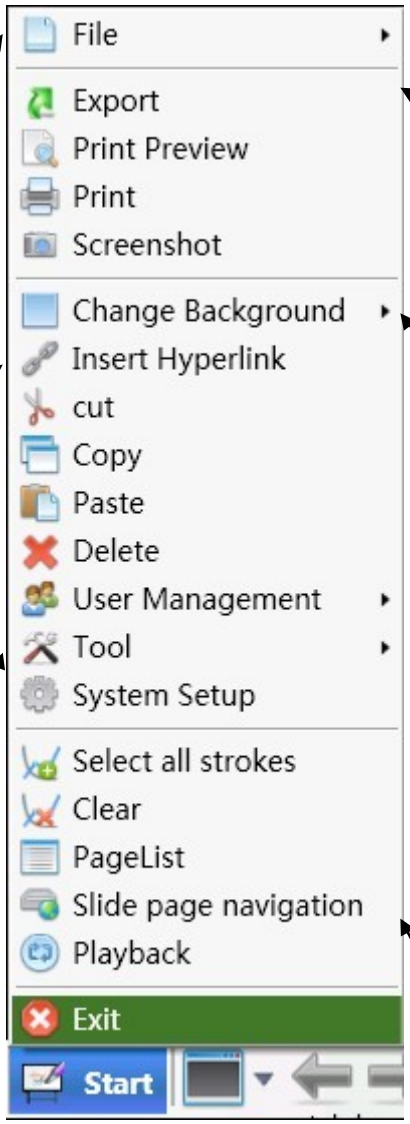
Click the menu 

, then the tool list will pop up, click the option according to the different needs.

The File menu: including the ‘’New, Open, Save, Save As’’ Support open ‘’ PTS, PDF, Word, Excel, PowerPoint and other file formats.

Insert Hyperlink: including the ‘’ Web Page, Disk File and Documentation Page’’

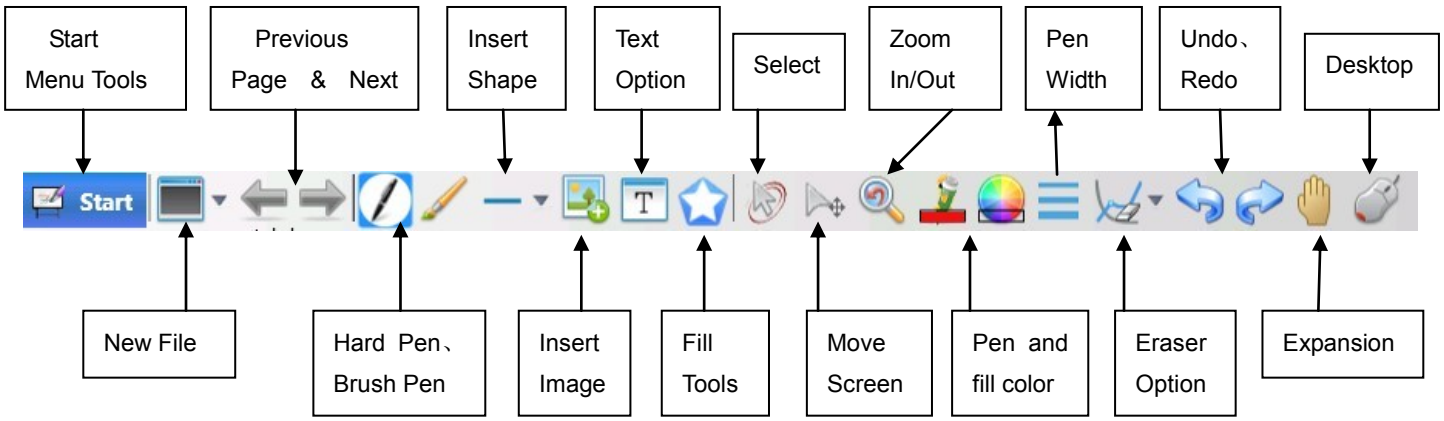
Tool Group Includes: Protractor, Triangle, Ruler, Timer, Media Player, Vide Capture, Mask, Magnifying glass, Spotlight, Keyboard, Calculator, Handwriting Recognition, Screen Recording, External tool Management.



Export: the current page could be exported as the format of PNG, JPG, BMP, ISF and XPS.

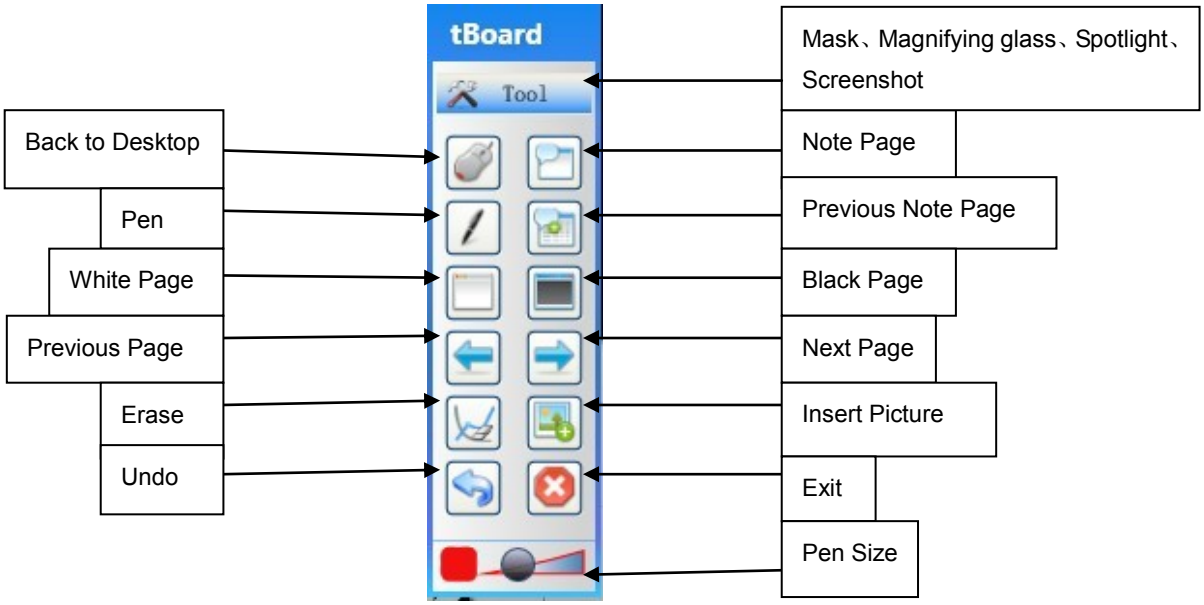
Change Background: used to change the background of current page.

Slide page navigation: users will be required to open the slide and enter the ‘’View Show’’ status under the desktop status, click on the function keys then the Annotation, page up and down could be achieved.



Minimize the Toolbar Introduction

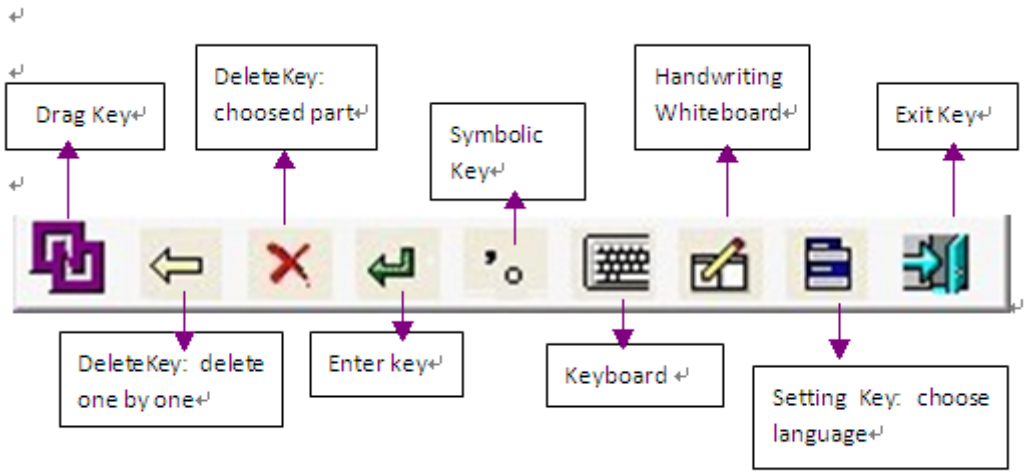
Click  to switch to the desktop Mode, then the right side of the desktop will appear Minimize toolbar, the following is a description of each button:



Handwriting Recognition

Step 1: Start the handwriting Recognition from “Tool” list of tBoard.

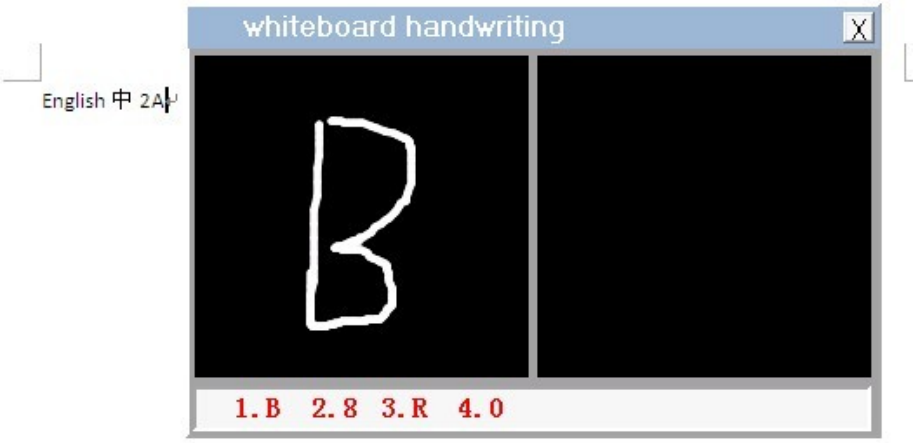
It will appear toolbar.



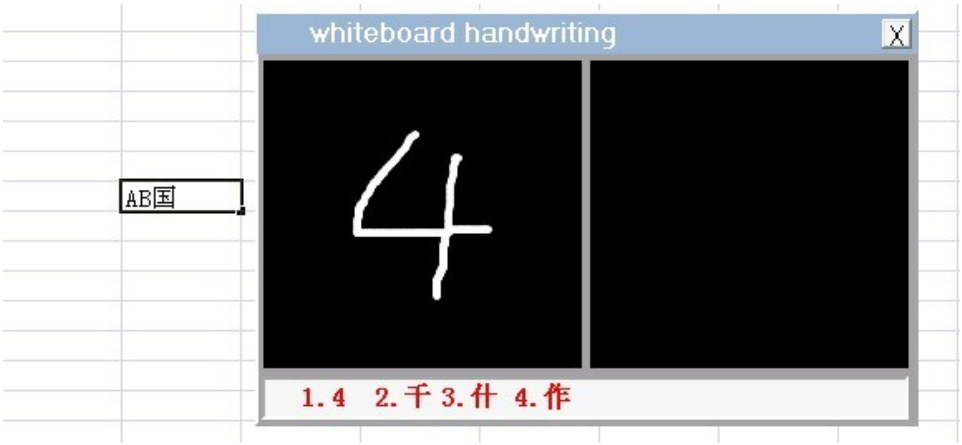
Step 2: Using the Handwriting Recognition in Word file, Excel file and tBoard.

In Word and Excel file

Open the Word and Excel file from computer procedure and you will use it as like the Picture 1 and 2.



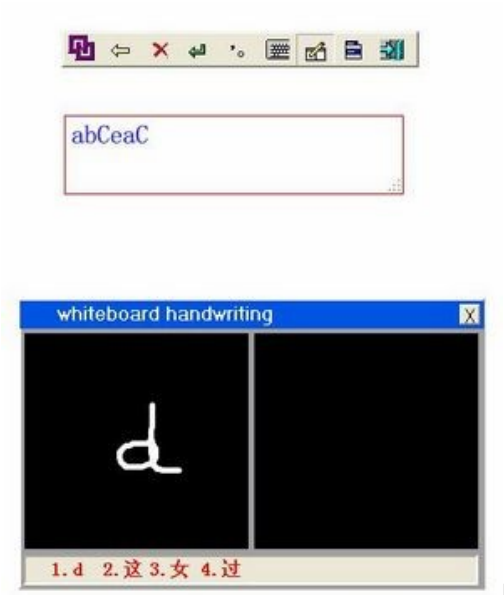
Picture 1



Picture 2

In tBoard

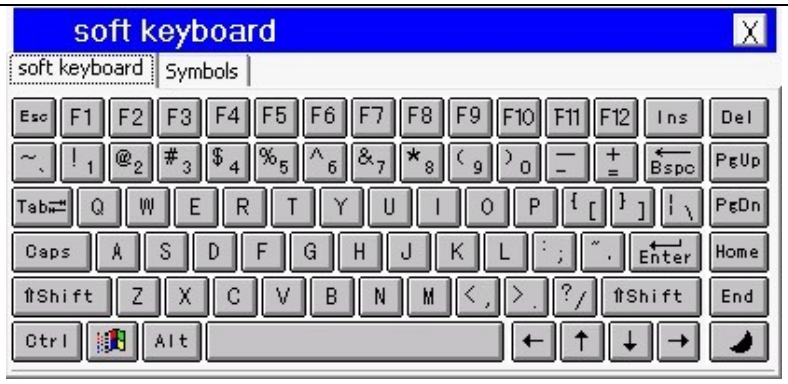
Click  in the tBoard and make a text input window like picture 3



Picture 3

Virtual Keyboard

Step 1: Open the “Handwriting Recognition”, then click the virtual keyboard in the toolbar.



Step 2: The soft keyboard could be used in the Word file, Excel file and IE, etc

Multi-writing Trial Version

Before making multi writing demo, please find the folder “Calibration Software” and run 

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Tips

1, The maxim distance from finger touch bar end to the screen is about 55CM, the computer image taken by the finger touch must be all included in the projection screen (the red video), people need adjust the sensitivity setting and installation place according to different environments, Please make sure there are no obvious bright spot (or green light) in the red view of the calibration software;

2, It is better to use fingertip when applying Manual calibration of 36-dots, and please point in the center of the cross one by one; if the cross is appear before you finished click the pre-cross, that may caused by the light interference. Please right click and exit. And back to the red view of the calibration software to check.

3, To the sensitivity setting, Generally speaking it is from 2 to 5, it may cause the mouse out control if the sensitivity is too high (8), or it may led writing is unable or broken if the sensitivity is too low, (such as 1 or 0);

4, To the function of right click of mouse, please press for about 2 seconds. The target will become moving if jitter and it also won't pop up the context menu if the time is too short;

5, If it reported the software error when inserting the USB dongle (hard key), Please make sure the red light of the USB dongle keeps flashing, or you can re-insert or other USB port ;

6,If there are time delay of green light In the red video of the calibration software , please check the frame rate(open calibration software-press video) if less than 50, please change the computer to try or contact technicians;

7, Open 

in the folder of calibration software, which is the video and pictures followed one another in time and recorded every time when make auto-calibrate, people can analyze weather the calibration is successful or the installation place is proper by viewing these dates

8, Open 

in the folder of calibration software, there will be some code, in which the blue part of the "40" is the value of auto-calibration, it can be set to "40" if it is in the room and "70'' when outdoor. "

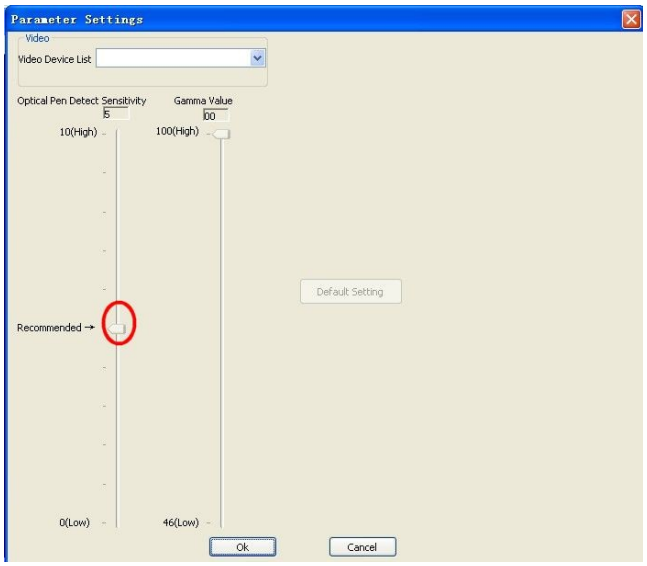
9, Open 

in the folder of calibration software, there will be some code, in which the blue part of the "02" is the pixel value of the identified points of light, the default is "02", Please adjust it according to the size of the spot of the light pen, change it into "01" if the light pen spot is small.

Trouble Shooting

1. Q: There are break in writing

   A: sensitivity is low. Turn up the sensitivity



2. Q: After calibration, the mouse can be move but cannot do single or double click.

   A: Check if there is Antivirus software in your computer, maybe the software prohibits the functions of mouse. Then just close the Antivirus software.