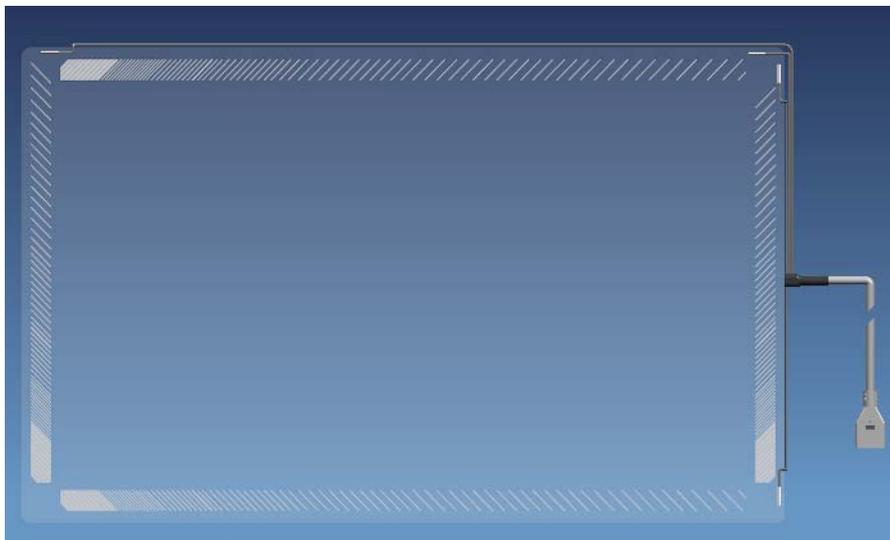


7"-26" SAW Touch Panel (the Standard Type)



DongGuan CJTOUCH Electronic Co., Ltd.

www.cjtouch.com

May. 2011

Table of Contents

- **Part1.Technical Specification----- 3**
- **Part2.Features----- 3**
- **Part3.Special Touchscreen Products----- 4**
- **Part 4. Accessories----- 4**
- **Part 5. Mechanical Drawings and connection sketch----- 5**
- **Part 6. integration process----- 7**
- **Part 7. Install Driver----- 8**
- **Part 8. Product Warranty-----10**
- **Part 9, How to contact us ----- 10**

◆ Part 1. Technical Specification

➤ SAW touch screen panel technical specification

Technology	Surface Acoustic Wave(SAW)	
Sizes	7" to 26" (extending)	
Controller Interface	USB OR RS232	
Resolution	4096*4096 ,Z-axis 256, not related with the sizes of the touch screen panel	
Material	Pure glass	
Positional Accuracy	Standard deviation of error is less than 0.080 in.(2mm)	
Light Transmission	More than 90% per ASTM	
Touch Activation Force	30-60g	
Durability	Scratch-free; More than 50,000,000 touches in one location without failure.	
Surface Hardness	Mohs' hardness rating of 7	
Operating Temperature	Touch Panel	-20°C to +60°C
Storage Temperature	Touch Panel	-40°C to +70°C
Humidity	10%-90% RH at 40°C, non-condensing	
Operation Altitude	3800m	
Accessories	Connector cables, double-sided glue, dust-proof stripes	
Agency Approval	CE, FCC, RoHS,	

➤ Controller technical specification

Sizes(PCB)	85mm*55mm*10mm	
Working voltage	12V±0.5V	
Working Current	80mA	
Maximum Current	100mA	
Response time	≤10ms	
Operating temperature	-10°C-70°C	
Operating humidity	10%-90%RH.	
Storage temperature	-25°C-80°C	
Multi-Point Touch	Intelligent discrimination by software	
Drivers Available	Windows 2000, Windows XP, Windows NT, Linux	
Agency Approval	CE, FCC, RoHS	

◆ Part 2. Features

- Same driver for both USB and RS232 from 7" to 26"
- High image clarity
- Free of drift
- Z-axis pressure recognition
- Strong mechanical strength
- Short response time

- **Compact size for easy integration**
- **Customization available on glass sensor size, driver, accessories**

◆ **Part 3. Special Touch screen Products**

- **Vandal-Proof Touch screen(S series)**
 - 4mm,6mm tempered glass
 - Super impact-proof performance
 - Ideal solution for unsupervised applications
 - Standard sizes available: 7" to 22"
 - GB9963-1998
- **Anti-glare Touch screen(G series)**
 - Sunlight readable
 - Human engineering technology: eye fatigue reduction
 - Ideal solution for outdoor applications with strong sunlight
 - Standard sizes available: 7" to 42"
- **Dust-proof Touch screen(P Series)**
 - compliant with IEC IP6X standards
 - protect the reflective grating and transducers from the dust and other objects
 - Excellent maintenance-free and durability
 - Sealed well with Alloy-aluminium frame
 - Applicable to the outdoor environment where in unsupervised or industrial environments
 - Standard sizes available: 7" to 24"
- **Water-proof Touch screen(W series)**
 - Latest technology and design
 - Super-thin glass sensor
 - Easier integration
 - Free of maintenance
 - IP 65 Rated
 - Standard sizes available: 10"and19" (customization available)
 - Sealed well with Plastic frame or Alloy-Aluminium Frame

Remark: combined special functions are available

◆ **Part 4. Accessories**

- **SAW Touch screen Controllers**
 - Has USB OR RS232 interface
 - MTBF: more than 500,000 hours
 - EMI disturbing restrained
 - More stable, safer
 - Less power consumption
- **Connector Cables**
 - Standard length: 1.8m (customization available)
 - R18H For RS232 12V
 - U18H For USB 12V

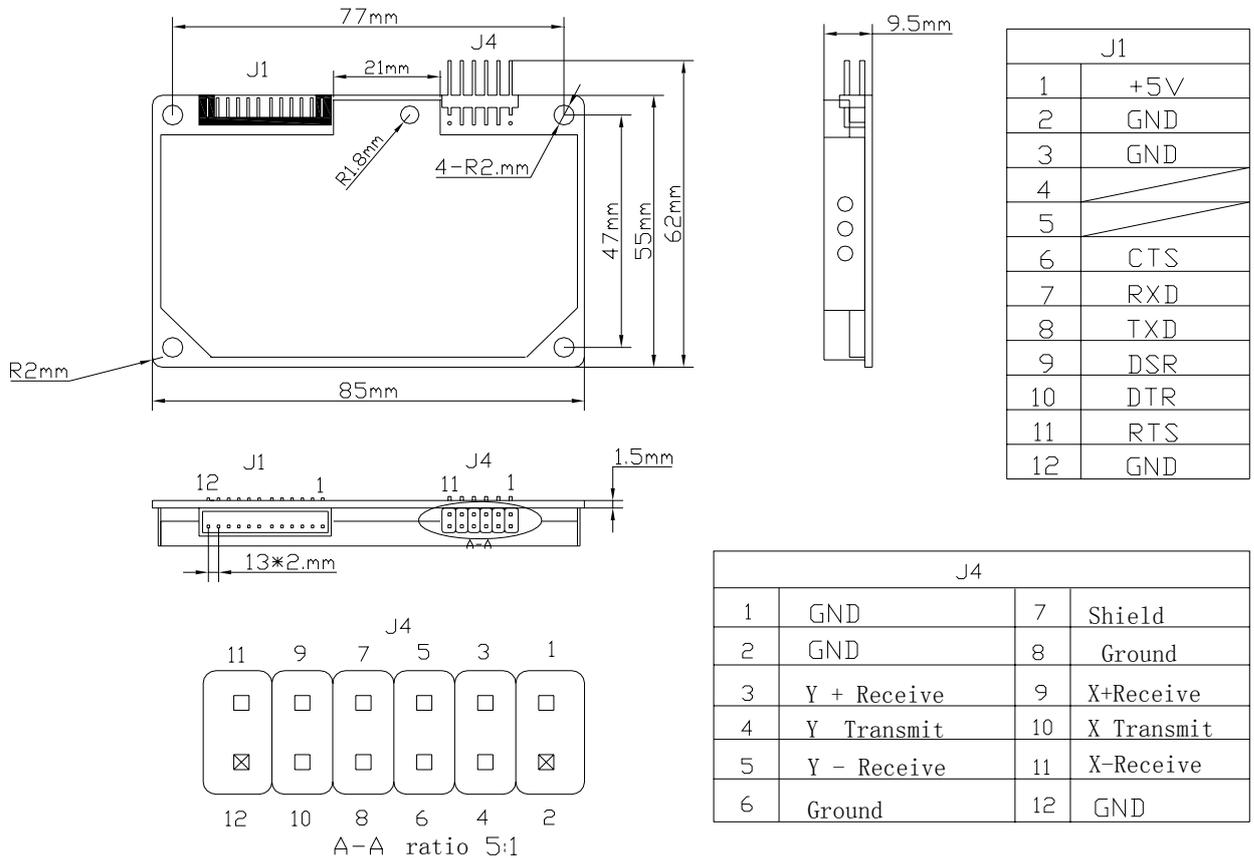
- **Double-sided adhesive double tapes**
 - Various sizes available
 - Excellent glue performance
- **Dust-proof Stripes**
 - Thickness: 1.5mm-8mm
 - Width: 3mm-8mm
 - Length: any length
 - Made of special material, excellent dust-proof performance, avoid signal loss

◆ Part 5. Mechanical Drawings

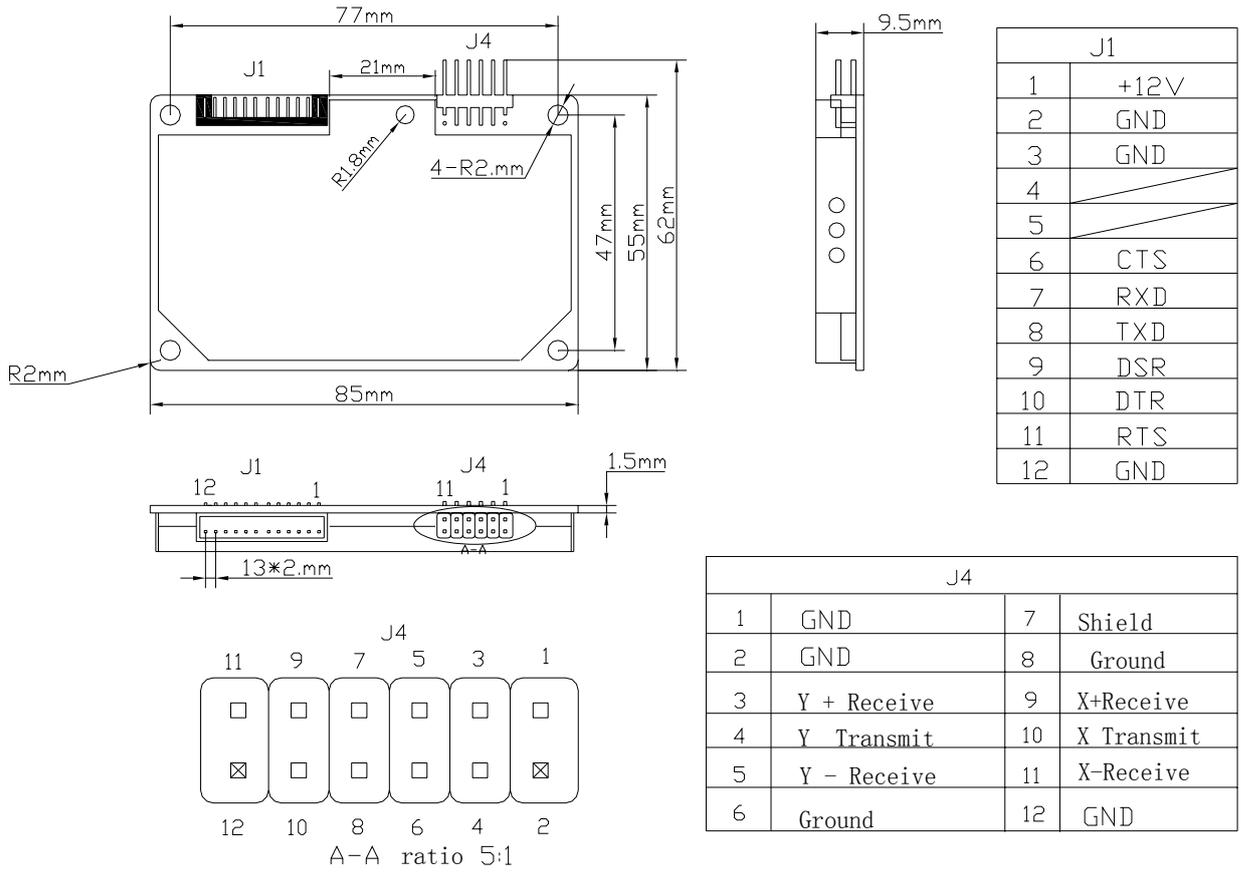
5.1: Mechanical Drawing of the SAW size from 7" to 26", please kindly read the drawing as attachment.

5.2 Mechanical Drawing of Controller and cable (CCA-UL01-R1D)

Controler Board 5V

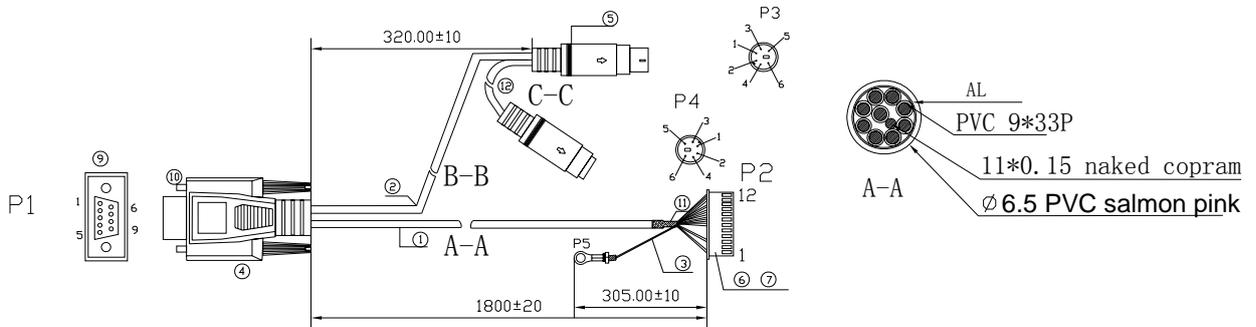


Controler Board 12V

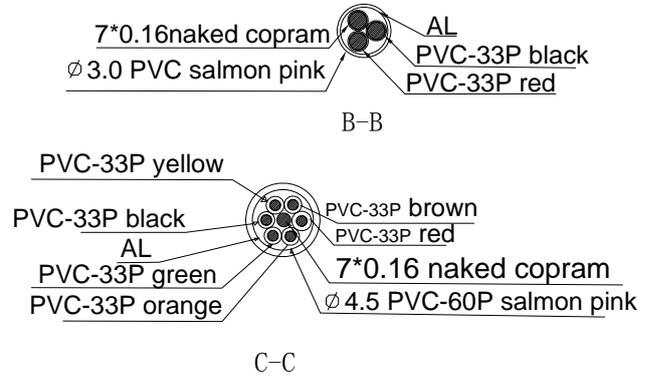


6 Mechanical Drawing(Cable RS232)

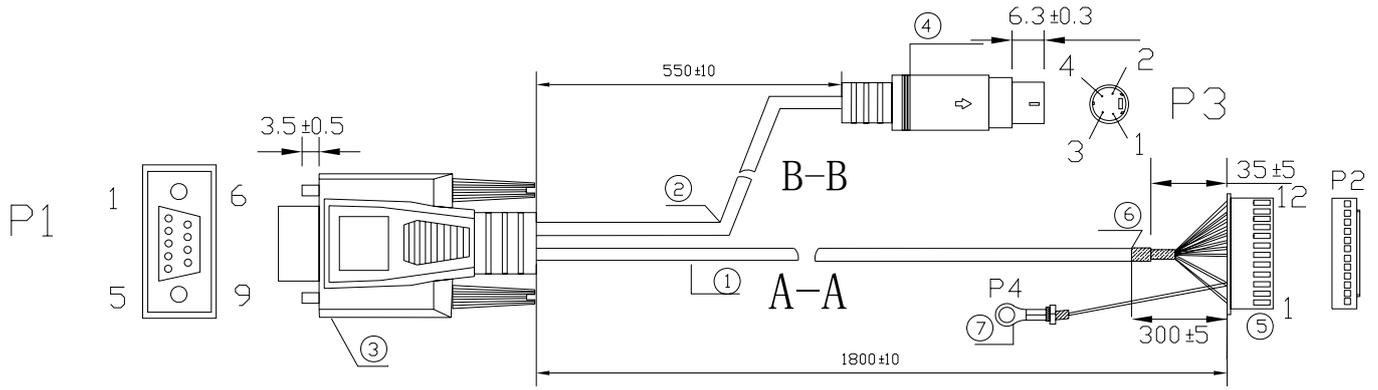
RS232 5V



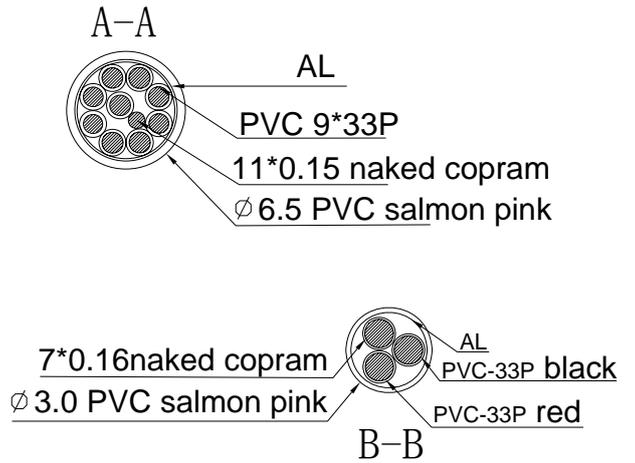
P1	P2	P3/P4	P5	
	1	red +5VDC	4	VCC-power+5vDC
	2			
	3	green GND	3	GND-GND
	4			
	5			
8	6	yellow CTS		
2	7	orange RXD		
3	8	white TXD		
6	9	blue DSR		
4	10	black DTR		
7	11	brown RTS		
5	12	green GND		
		5	CLK-clock	
		1	DATA-Key Data	
		6	n/c-not connected	
		2	n/c-not connected	



RS232 12V

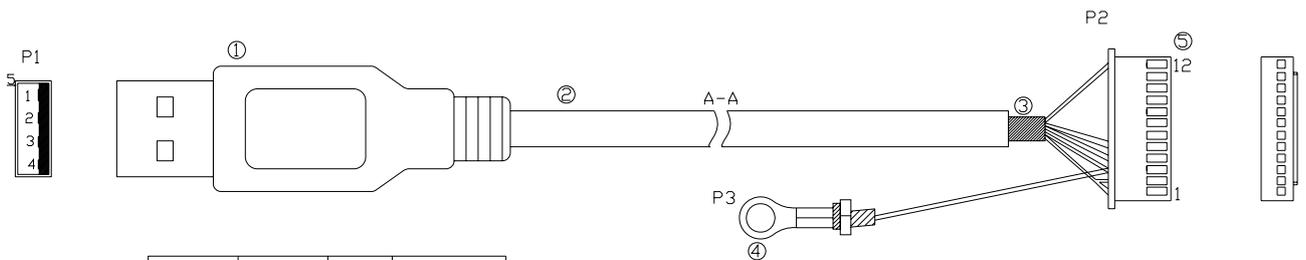


P1	P2	P3	P4
1	red +12VDC	1	VCC-power+12vDC
2			
3	green GND	2	GND-GND
4			1
5			
8	6 yellow CTS		
2	7 orange RXD		
3	8 white TXD		
6	9 blue DSR		
4	10 black DTR		
7	11 brown RTS		
5	12 green GND		
1			
		3	
		4	

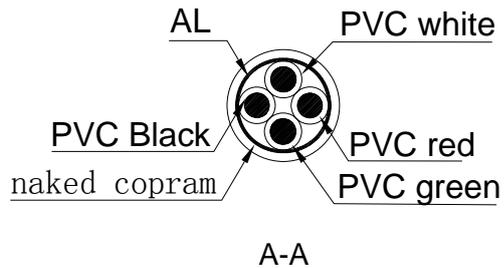


Mechanical Drawing (Cable USB)

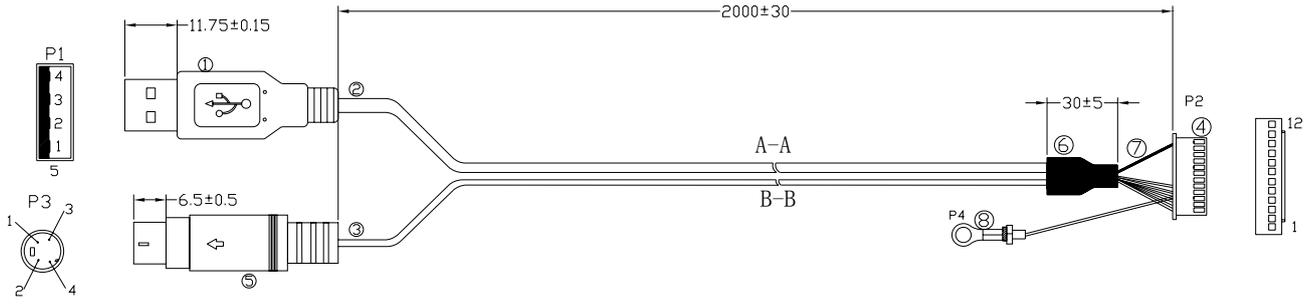
USB 5V



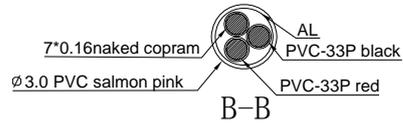
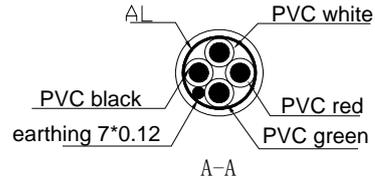
P1	P2	P3	颜色
1	1&2		+5VDC red
2	4		D- white
3	5		D+ green
4	12		GND black
5	3	1	GND
	6		
	7		
	8		
	9		
	10		
	11		



USB 12V

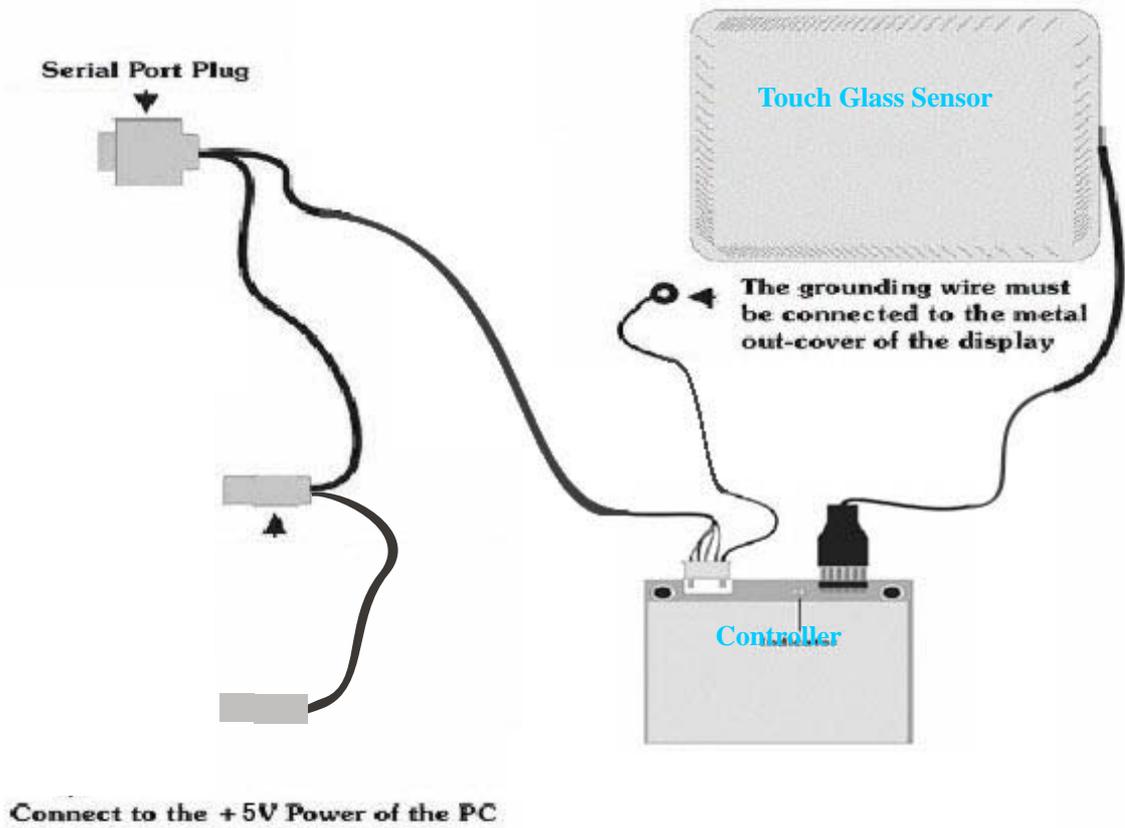


P1	P2	P3	P4	colour&Function
1	2			+5VDC red
2	4			D- white
3	5			D+ green
	3	2	1	GND black
4&5	12			GND naked copper
	1	1		+12VBus brown
	6			
	7			
	8			
	9			
	10			
	11			

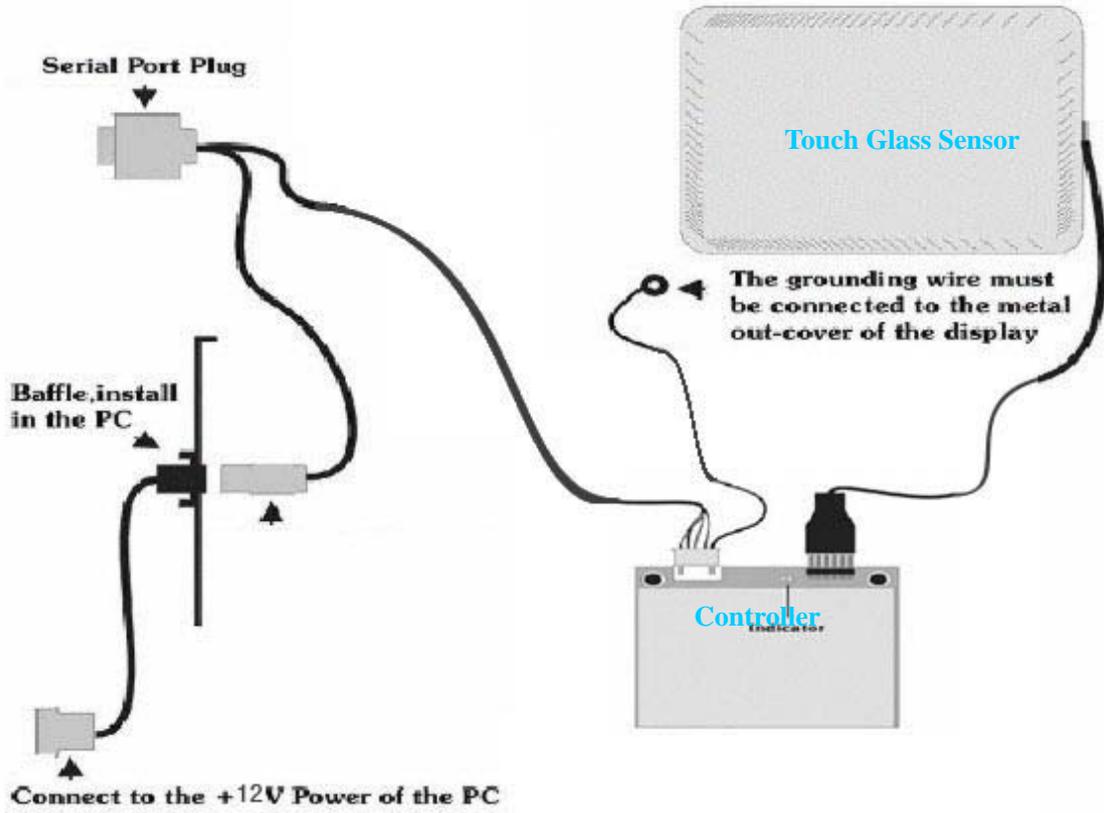


RS232 Interface Connection Sketch Map

RS232 5V

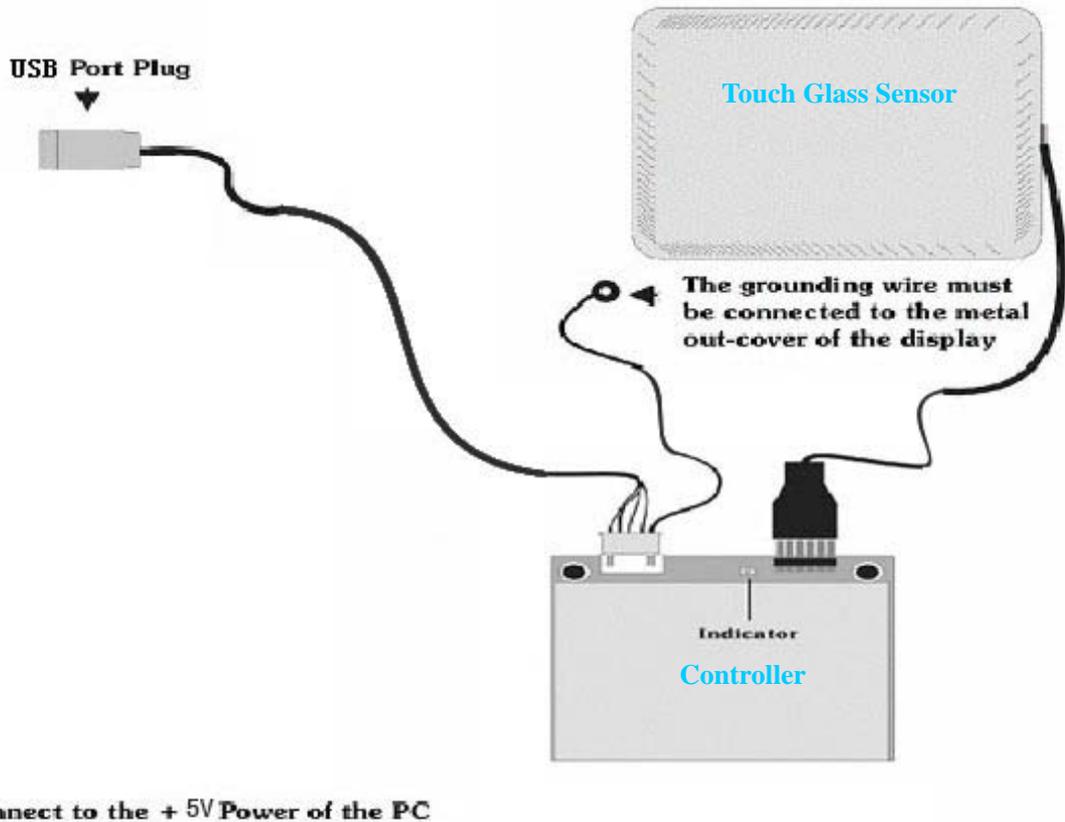


RS232 12V

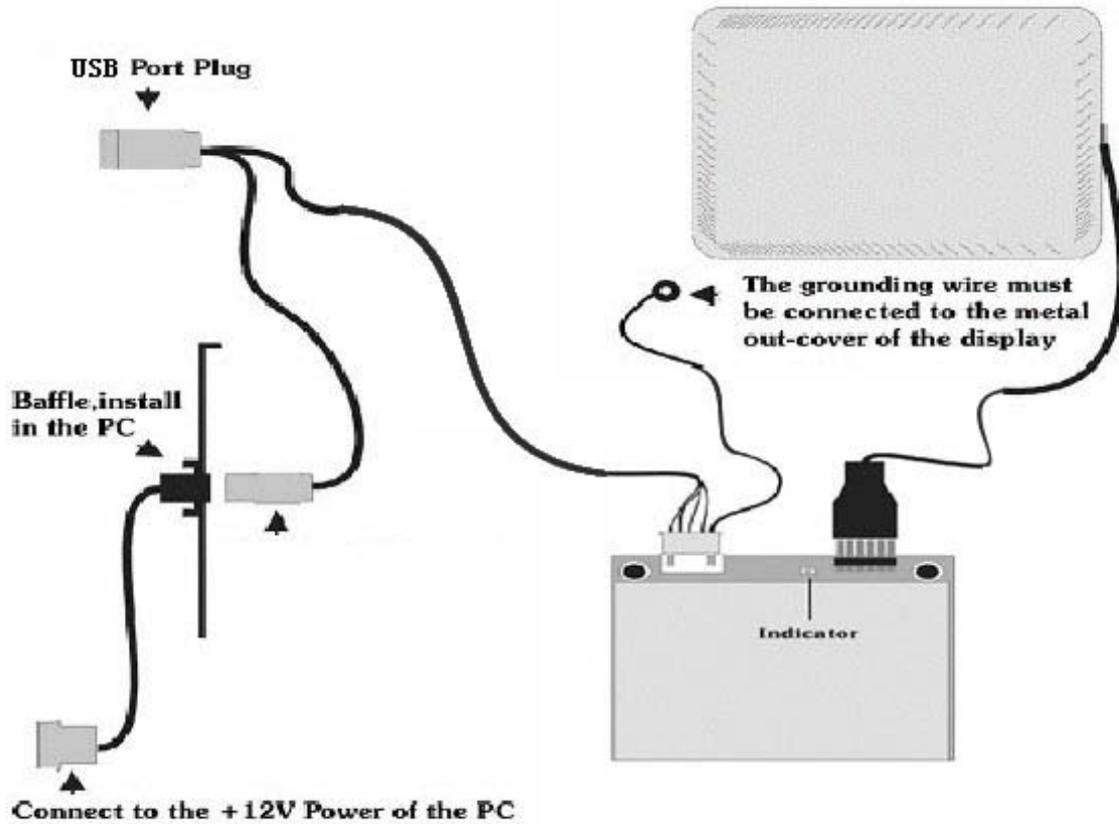


7 USB Interface Connection Sketch Map

USB 5V



USB 12V



Part 6. Integration process

- Connect the cable to the computer
- Connect the controller to the touch sensor
- Connect the controller to cable
- Install the driver responding to the controller.

Part 7. Install driver

7.1 Installation steps

1. Connect Controller and touch screen.
2. Connect controller to pc motherboard via USB or RS232 cable.
3. Switch controller on.
4. Install the right driver via the pc operate system.

7.2 According to the guest operating system, choose the following drivers

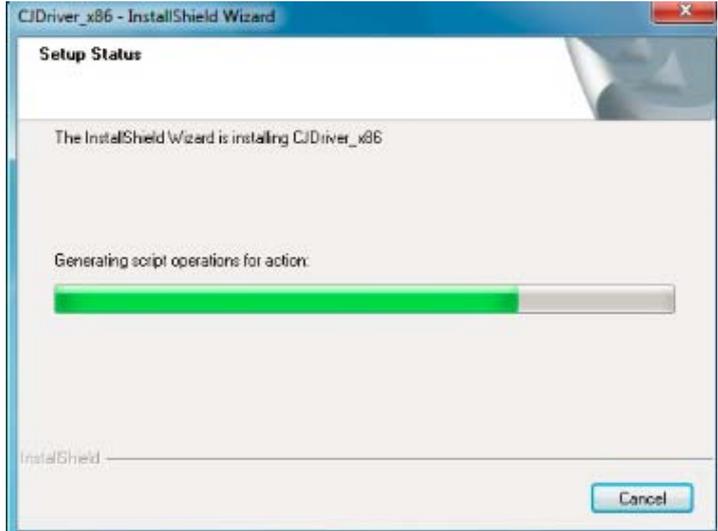
- SetupX86: Support WindowsXP, WindowsXPE, Win7 32bits, Windows VISTA .
- SetupX64: Support Win7 64bits.
- Linux : Ubuntu/Redhat/FC/Suse etc. According to the kernel version provide or custom-made driver.
- **Android: Support 2.30,4.0 etc. ,using for the one need no driver.**
- WinCE: Support WinCE 5.0/ WinCE 6.0

7.3 Driver installation and calibration guide (As an example of Windows 7) :

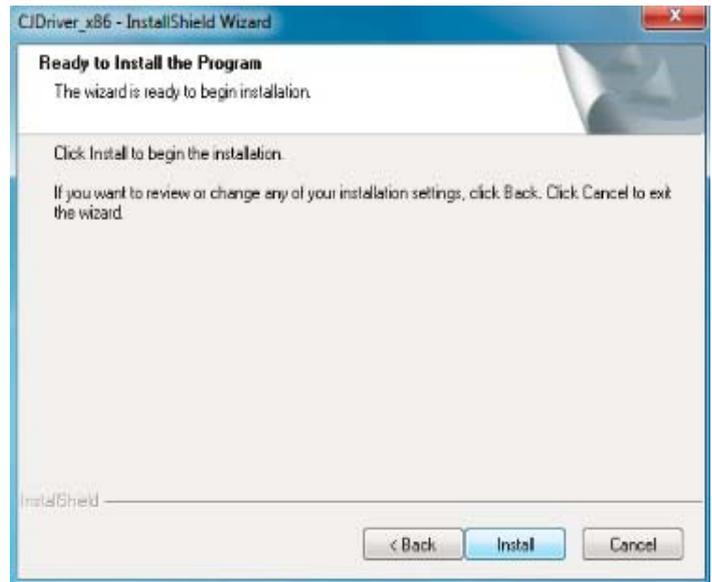
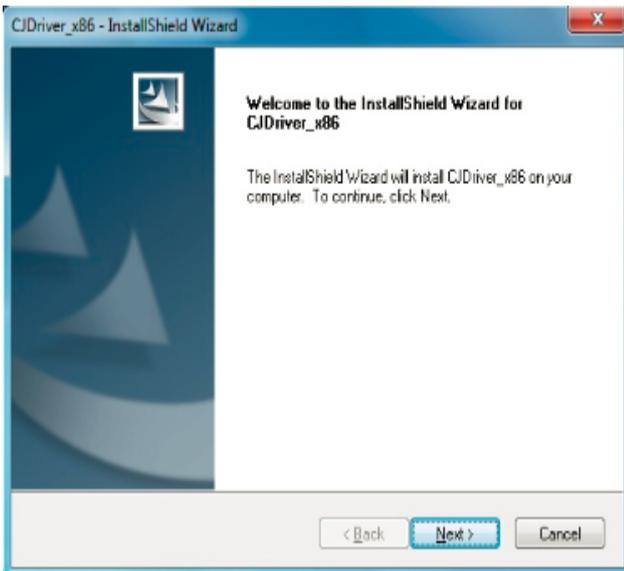
- (1) Connect touch screen and controller to pc in right way .

(2) Put the CD into computer

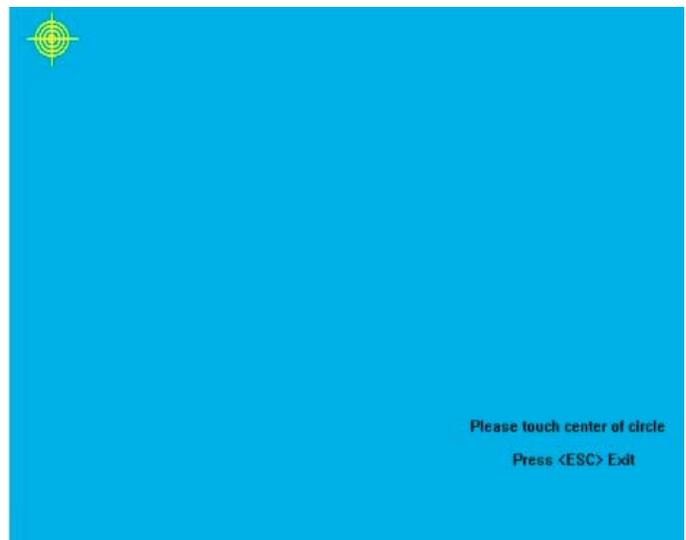
(3) Click Setup-X86.exe document in CD, install it ,the following tips will pop up :



A)Choose installation language,click"OK".



B)Click "Next" ,choose "Install"



C) Installation complete,the above tips will pop up screen,click "OK",Automatic pop-up calibration images,

follow the cursor to do the calibration .

D) Installation complete, you will find "CJtouch" icon appear in the lower right corner, as below picture. Double click it, Popping Touch screen control surface, and then Set the touch screen parameter.



E) Touch control panel

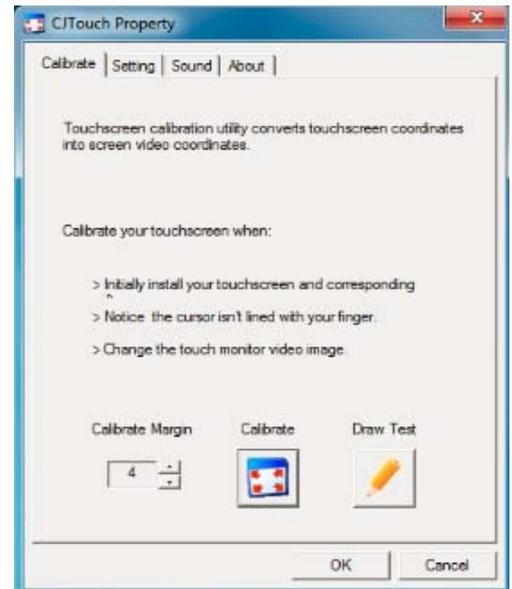
Calibration can set the parameters as shown:

"Calibrate Margin"--Edge calibration scale: the default value is 4, the number is used to set the calibration target from the edge of

the screen. Click to increase or decrease.

"Calibration"-- Calibration: click on the icon, the pop-up calibration Images.

"Draw test": click on the icon, the pop up panel, could do the click and drawing test.



"Point and Click" -- just click of the mouse, can't drag and draw lines;

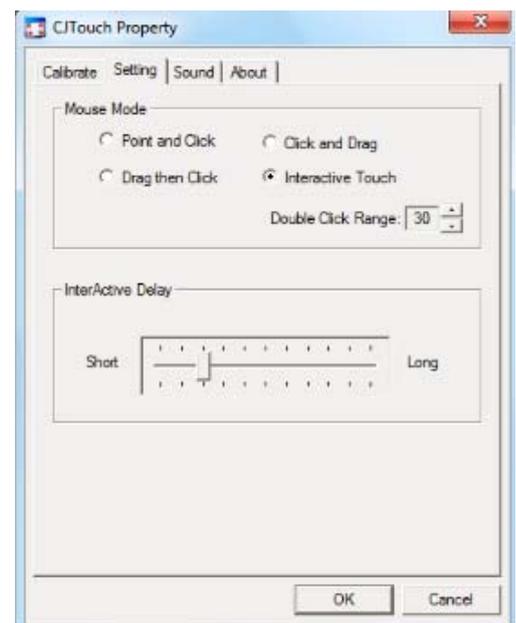
"Click and Drag" -- the mouse click can be realized, double click and drag;

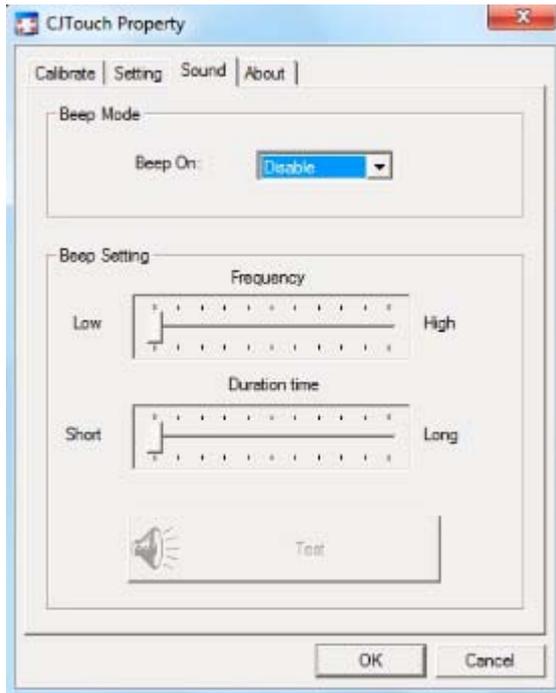


"Drag then Click" -- Use finger to drag files and then to click on screen .

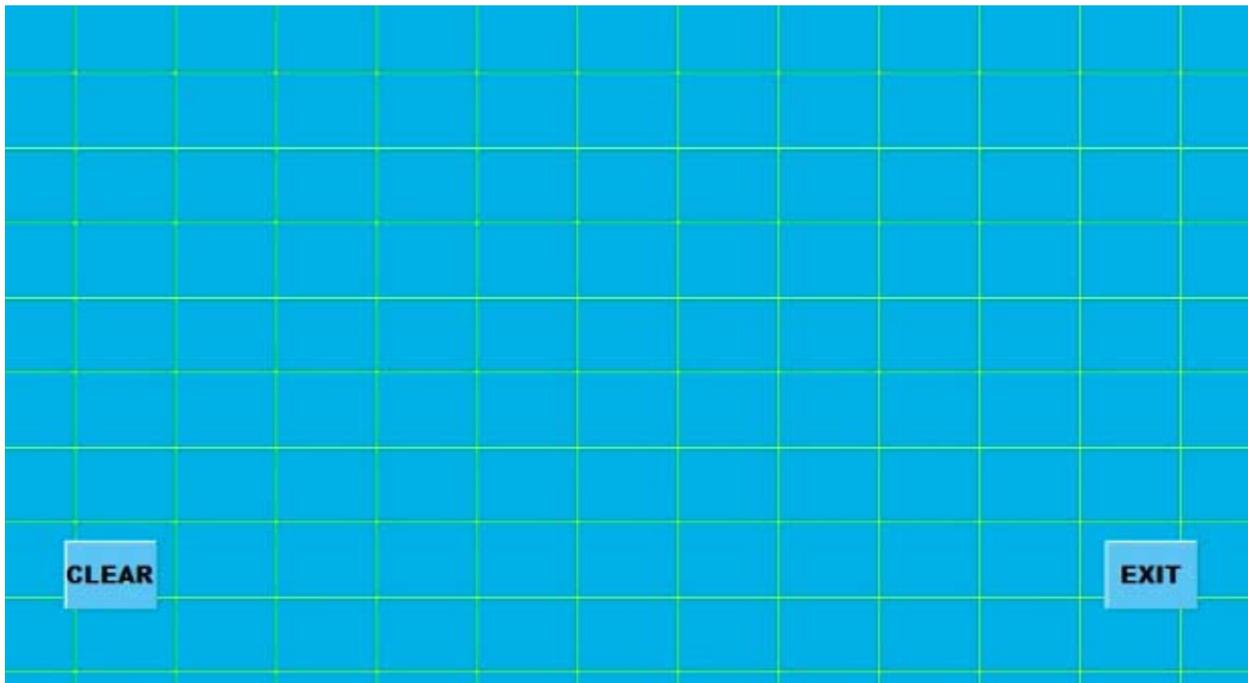
"Interactive touch" -- the mouse click can be realized, double click, drag and right click function.

Realize right function methods: click on the screen, fingers don't go away, wait a few seconds later the automatic pop-up menu. The length of the waiting time can be drag below delay "interaction" slider .





Volume adjustment and Driver background

**Important note:**

A: When you do the calibration, if you click on the bull 's-eye' position has A deviation, it will cause the click time marked deviation. Please recalibration .

B: Adjusting the calibration "bull 's-eye" on the edge of the distance from the screen location, through the "Settings" in the driver panel.

Part 8. Product Warranty

SAW sensor for 5 years

SAW controller for 3 years

Part 9. HOW TO CONTACT

www.cjtouch.com

Add: Block B, 5th floor, Building 6,

Anjia industrial park, WuLian,

FengGang, DongGuan, P.R. China

Tel: +86-769-82522511

Fax: +86-769-82522517

Sales & Marketing: cjtouch@cjtouch.com