

Version	Date	Information Source	Update Details
1.0	29/08/2017	Hai Bi	Preliminary version
1.1	18/12/2017	Hai Bi	Parameter modify
1.2	01/04/2019	Hai Bi	Parameter modify

Infrared Type Touch Panel

IX3000 Series

Technical Specification

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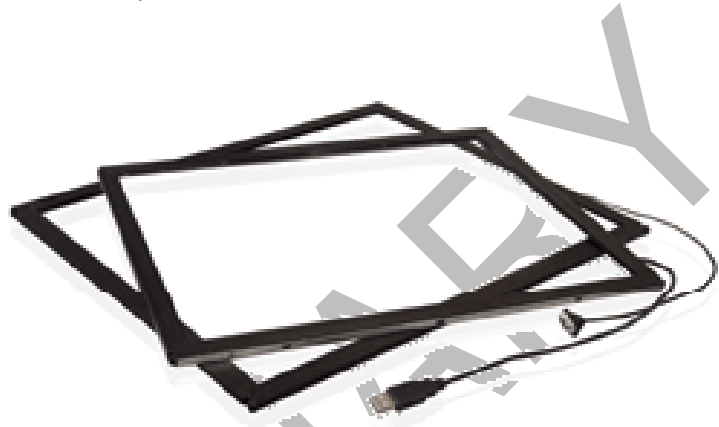
1、 Characters

IRTOUCH SYSTEMS'S IX3000 Series infrared touchscreen is designed for LCD monitor. Features such as vandal proof, water proof, maintenance free as well as long life time make the IX3000-series touchscreen an ideal choice for many interactive applications such as POS, touch monitors, Kiosks, etc.

IX3000 Series infrared touchscreen is a brand-new creative version compatible with existing infrared E series products and add gesture function to support zoom in and zoom out operation.

Benefits

- Adapt to complex open country scene
- Vandal proof, scrape-resistant
- Integrated controller
- Support zoom in and zoom out gesture
- Ultra-high precision
- Ultra-Fast response speed
- Maintenance free, long life time
- Fault tolerance design to ensure reliability
- Various touch objects
- 1-5 points touch



Typical Applications

- Delivery Lockers
- POS
- Desktop touch monitor
- Indoor/outdoor kiosk
- ATM
- In-vehicles and transportation
- Medical instrument
- Industrial control systems
- Gaming machine
- Ticket machine

2. Specifications

Mechanical Specifications

Input Method	Finger, gloved hand, or any other opaque stylus
Touch Technology	Infrared rays interception detection, no special surface coatings
Available Size	21.6"
Outside Dimensions	see Appendix I and II
Touch Active Area	see Appendix I and II
Glass	3mm tempered glass (customizable)
Transmittance	>88% with glass
Shell Material	Top Shell : Polycarbonate (PC) Bottom Shell : Aluminum Extrusion
Pressure Required to Trigger Touch Event	No pressure required.

Electrical Specifications

Controller reported resolution		32767×32767
Touch accuracy	[mm]	<1.0mm (central area), < 2.0mm (edge area)
Touch object diameter	[mm]	> 7mm(single point), > 9mm(multipoint)
Output		Coordinates
Calibration		Not required or Simple four-point calibration, no drift
Response Time	[ms]	≥ 10ms
Power requirements		Powered by USB (DC5V±5% @ 500mA)
Power consumption		<1.5W
Electrical life		61000 Hours

Interface Specifications

Interface Type	USB	HID
Plug and Play	Plug and play and HID compatible	
Connector Type	USB	Type A

Environmental Specifications

Temperature	Operating : -20 ~ 70°C Storage : -40 ~ 85°C
Relative Humidity	Operating : 10%-90% RH, 40°C non-condensing Storage : 10%-90% RH, 40°C non-condensing
Electrostatic Protection	Per EN61000-4-2 2008: Level 4, Class B. Contact discharge 8kV, air discharge 15kV on USB connector pins
Ambient Light Tolerance	Direct light illumination ≤150000 Lux
EMC	CE, FCC Class B Compatible
Seal ability	IP65(Front)

Software Specifications

Firmware Upgradability	Yes
Device Type	Touch (with gesture support per OS) or, Mouse (Click, drag, double click, right-click)
Calibration	Four-point calibration, no drift
Multi-Monitor Support	Manually Binding
Operating Systems Support	Windows(xp\7\8.1\10),Linux(≥2.6),Android(≥2.6),Vxwork(≥6.5)

4、 Panel Opening Area and Touch Active Area

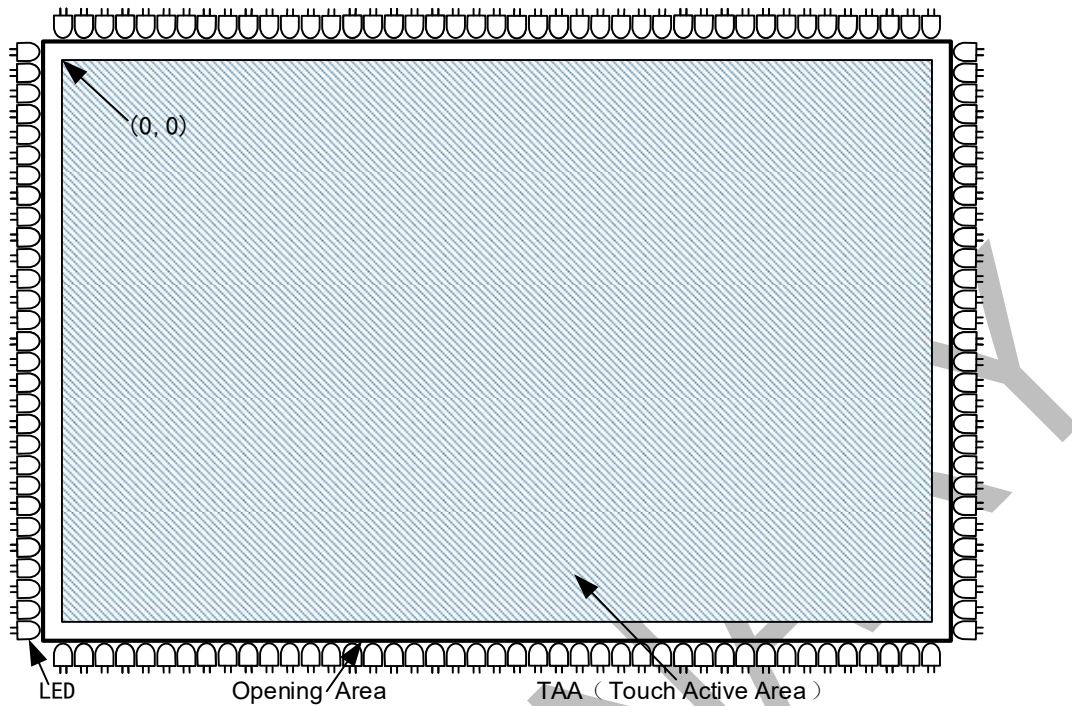


FIGURE 1

5、 Dimensional Drawing

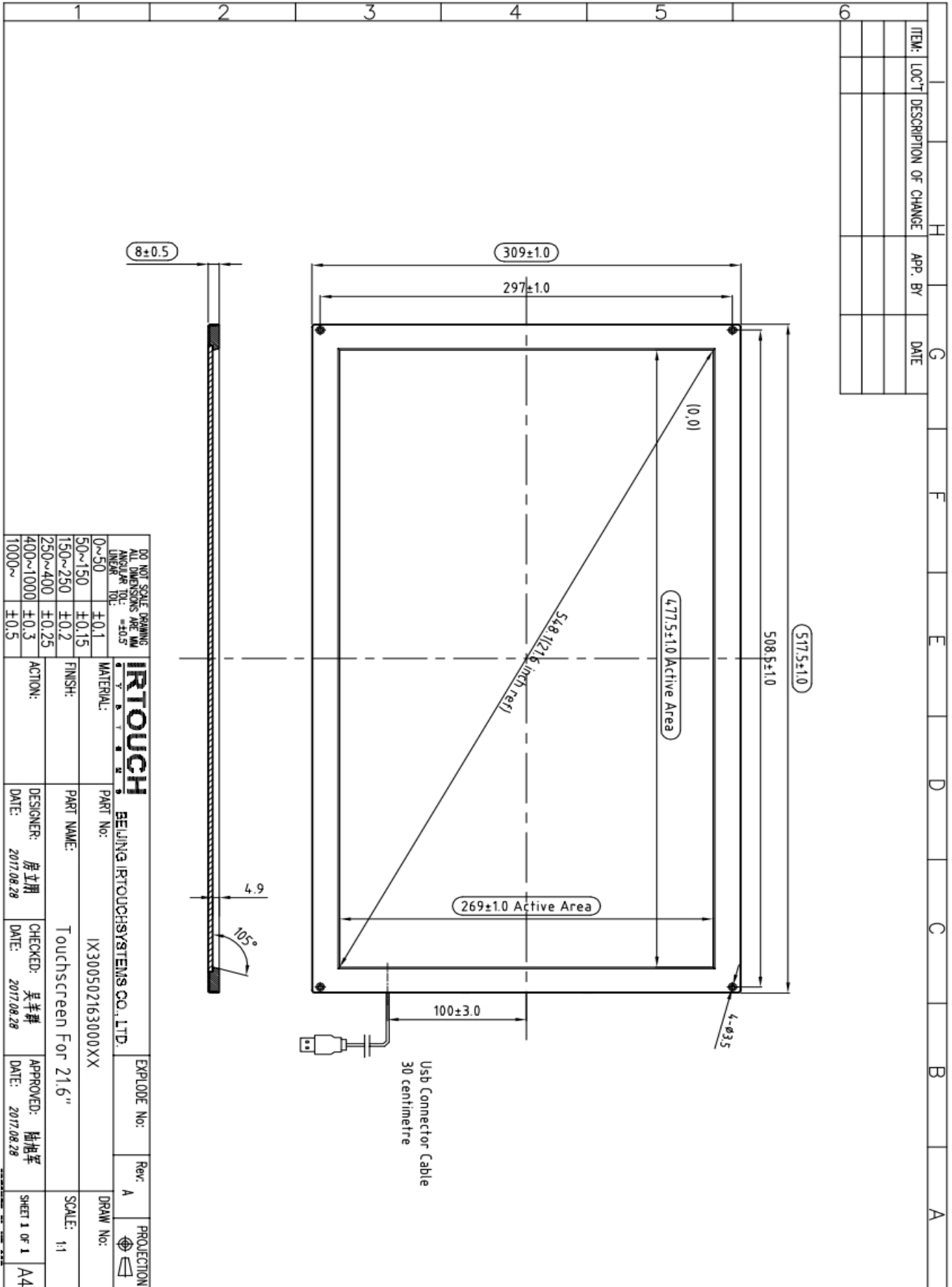
Appendix I: Product Dimension Drawing

Appendix II: USB Connector Drawing

6、 ROHS COMPLIANCE

IX3000 Series touchscreen is RoHS compliant.

Appendix I:



Appendix II:

		H	G	F	E	D	C	B	A																																																																																																						
		<table border="1"> <tr> <td>1</td> <td>USB</td> <td>连接线颜色定义</td> <td>A1254</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>1</td> <td>红色 (VCC)</td> <td>1</td> <td>6</td> <td>A1254 (MOLEX /51146), A1254-1接线端子 (5个).</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>2</td> <td>白色 (D-)</td> <td>2</td> <td>5</td> <td>套管: Φ0.8*16mm;屏蔽芯线直径在0.65mm内;不能小于其它芯线直径;</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>3</td> <td>绿色 (D+)</td> <td>3</td> <td>4</td> <td>套管: Φ5.0*25mm</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>4</td> <td>黑色 (GND)</td> <td>4</td> <td>3</td> <td>外套: PVC 颜色: 黑色半露</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>4</td> <td>黑色 (屏蔽地线)</td> <td>5</td> <td>2</td> <td>线材: UL2725 28AWG*2C+28AWG*1P+AL+BRATD L=985+15/-0mm 黑色 (COM-030)</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>5</td> <td></td> <td>5</td> <td>1</td> <td>PLUG: USB A TYPE MALE-4PIN (SOLDER TYPE)</td> <td>1</td> <td></td> <td></td> <td></td> </tr> </table> <table border="1"> <tr> <td colspan="2"> IRTOUCH BEIJING IRTOUCH SYSTEMS CO., LTD. DO NOT SCALE DRAWING ALL DIMENSIONS ARE MM TOLERANCE: LINEAR TO: X=±0.25 ANGULAR TO: XX=±0.10 YY=±1.0° </td> <td>PART No:</td> <td>EXPLODE No:</td> <td>Rev:</td> <td>DRAW No:</td> </tr> <tr> <td>FINISH:</td> <td>DESIGNER:</td> <td>DATE:</td> <td>CHECKED:</td> <td>DATE:</td> <td>APPROVED:</td> <td>DATE:</td> <td>SHEET 1 OF 1</td> <td>A4</td> </tr> <tr> <td></td> <td>设计师</td> <td>2009.06.03</td> <td></td> <td></td> <td>271-040303-06</td> <td>母插头USB引出线</td> <td>SCALE: 1:1</td> <td></td> </tr> </table>								1	USB	连接线颜色定义	A1254							1	1	红色 (VCC)	1	6	A1254 (MOLEX /51146), A1254-1接线端子 (5个).	1				2	2	白色 (D-)	2	5	套管: Φ0.8*16mm;屏蔽芯线直径在0.65mm内;不能小于其它芯线直径;	1				3	3	绿色 (D+)	3	4	套管: Φ5.0*25mm	1				4	4	黑色 (GND)	4	3	外套: PVC 颜色: 黑色半露	1				5	4	黑色 (屏蔽地线)	5	2	线材: UL2725 28AWG*2C+28AWG*1P+AL+BRATD L=985+15/-0mm 黑色 (COM-030)	1					5		5	1	PLUG: USB A TYPE MALE-4PIN (SOLDER TYPE)	1				IRTOUCH BEIJING IRTOUCH SYSTEMS CO., LTD. DO NOT SCALE DRAWING ALL DIMENSIONS ARE MM TOLERANCE: LINEAR TO: X=±0.25 ANGULAR TO: XX=±0.10 YY=±1.0°		PART No:	EXPLODE No:	Rev:	DRAW No:	FINISH:	DESIGNER:	DATE:	CHECKED:	DATE:	APPROVED:	DATE:	SHEET 1 OF 1	A4		设计师	2009.06.03			271-040303-06	母插头USB引出线	SCALE: 1:1									
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