Version	Date	Information Source	Update Details
1.0	16/12/2016	Hai Bi	Preliminary version
1.1	09/05/2017	Hai Bi	Update Order information
1.2	12/06/2017	Hai Bi	Add 23.6
1.3	10/08/2017	Hai Bi	Modify 23.6 SN

Infrared Type Touch Panel

IX1102 Series

Technical Specification

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1、Characters

IRTOUCH SYSTEMS'S IX1102 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 IX1102-series touchscreen an ideal choice for many interactive applications such as POS, touch monitors, Kiosks, etc.

IX1102 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

- 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
- 1-2 points touch

Typical Applications

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



Part Number	Description
IX11020151100001	15.1" (4:3), 3mm general tempered glass HID
IX11020171200001	17.1" (5:4), 3mm general tempered glass HID
IX11020191200001	19.1" (5:4), 3mm general tempered glass HID
IX11020191400001	19.1" (16:10) , 3mm general tempered glass HID
IX11020216300001	21.6" (16:9) , 3mm general tempered glass HID
IX11020236300002	23.6" (16:9) , 3mm general tempered glass HID







3. Specifications

Mechanical Specifications

Input Method	Finger, gloved hand, or any other opaque	stylus
Touch Technology	Infrared rays interception detection, no sp	ecial surface coatings
Available Size	15.1" \17.1" \19.1" \21.6" \23.6"	
Outside Dimensions	see Appendix I	
Touch Active Area	see Appendix I	_
Glass	3mm tempered glass (customizable)	
Transmittance	>88% with glass	
Shell Material	Top Shell : Polycarbonate (PC)	
ו אוכוו ויומנכוומו	Bottom Shell : SGCC (15.1"- 23.6")	
Pressure Required to Trigger Touch Event	No pressure required.	

Electrical Specifications

Controller reported resolution		32767×32767
Touch accuracy	[mm]	<1.5mm (central area), < 2.5mm (edgy area)
Touch object diameter	[mm]	> 7mm(single point), > 10mm(two points)
Output		Coordinates
Calibration		Not required or Simple four-point calibration, no drift
Response Time	[ms]	≤12ms (1points) ≤13ms (two points)
Power requirements		Powered by USB (DC5V±5% @ 500mA)
Power consumption		<1.5W
Electrical life	[Hours]	61000

Interface Specifications

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

Environmental Specifications

Tomporative	Operating: -20 ~ 70°C
Temperature	Storage: -40 ~ 85°C
Dolativo Humidity	Operating: 10%-90% RH, 40°C non-condensing
Relative Humidity	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 Televance	Direct light illumination ≤6.5K Lux (Color Temperature = 2700K)
Ambient Light Tolerance	(Non-Direct) Sunlight illumination ≤100K 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,
Device Type	Mouse (Click, drag, double click, right-click)
Calibration	Four-point calibration, no drift
Multi-Monitor Support	Manually Binding
Operating Systems Support	$Windows(xp\7\&.1\10), Linux(\ge 2.6), Android(\ge 2.6), Vxwork(\ge 6.5)$







4. Panel Opening Area and Touch Active Area

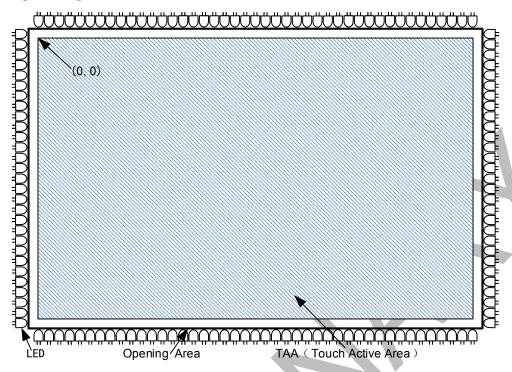


FIGURE 1

5. Dimensional Drawing

Appendix I: Product Dimension Drawing

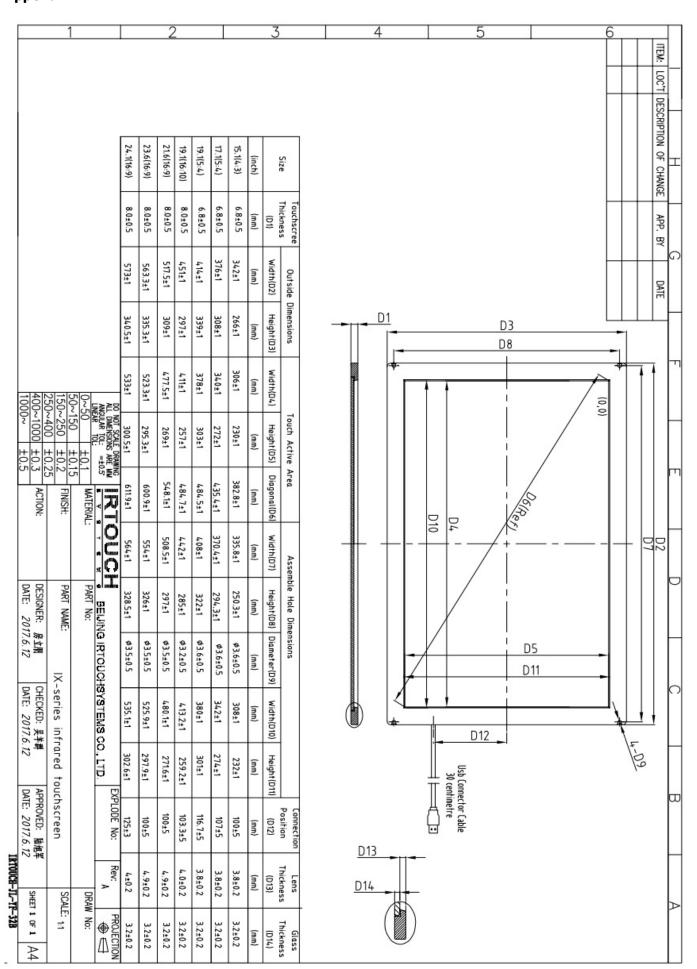
Appendix II: USB Connector Drawing

6. ROHS COMPLIANCE

IX1102 Series touchscreen is RoHS compliant.



Appendix I:







Appendix II:

