

Version	Date	Information Source	Update Details
1.0	30/08/2017	Hai Bi	Preliminary version
1.1	14/12/2017	Hai Bi	Modifying device parameters
1.2	07/03/2018	Hai Bi	Add Chinese mode
1.3	04/12/2018	Hai Bi	Modify Drawing

**Infrared Type Touch Panel**

# **IX2000 Series**

## **Technical Specification**

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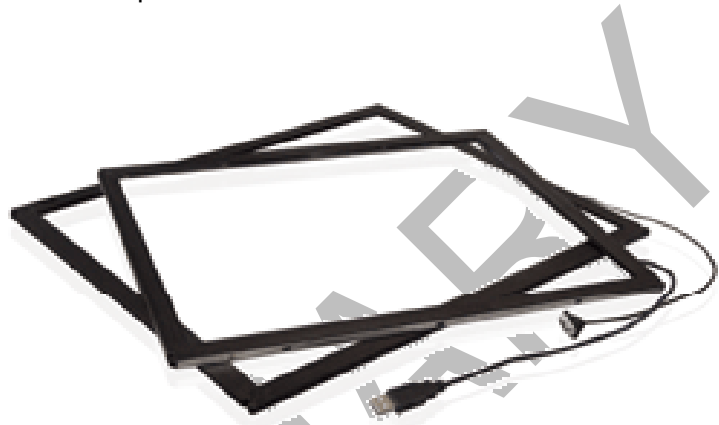
# 1、 Characters

**IRTOUCH SYSTEMS'S IX2000 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 IX2000-series touchscreen an ideal choice for many interactive applications such as POS, touch monitors, Kiosks, etc.

**IX2000 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
- 1-20 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

# 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	15.1" \17.1" \19.1" \21.6" \23.6" \24.1"
Outside Dimensions	<b>see Appendix I</b>
Touch Active Area	<b>see Appendix I</b>
Glass	3mm tempered glass (customizable)
Transmittance	>88% with glass
Shell Material	Top Shell : Polycarbonate (PC) Bottom Shell : SGCC
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]	≥11ms
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

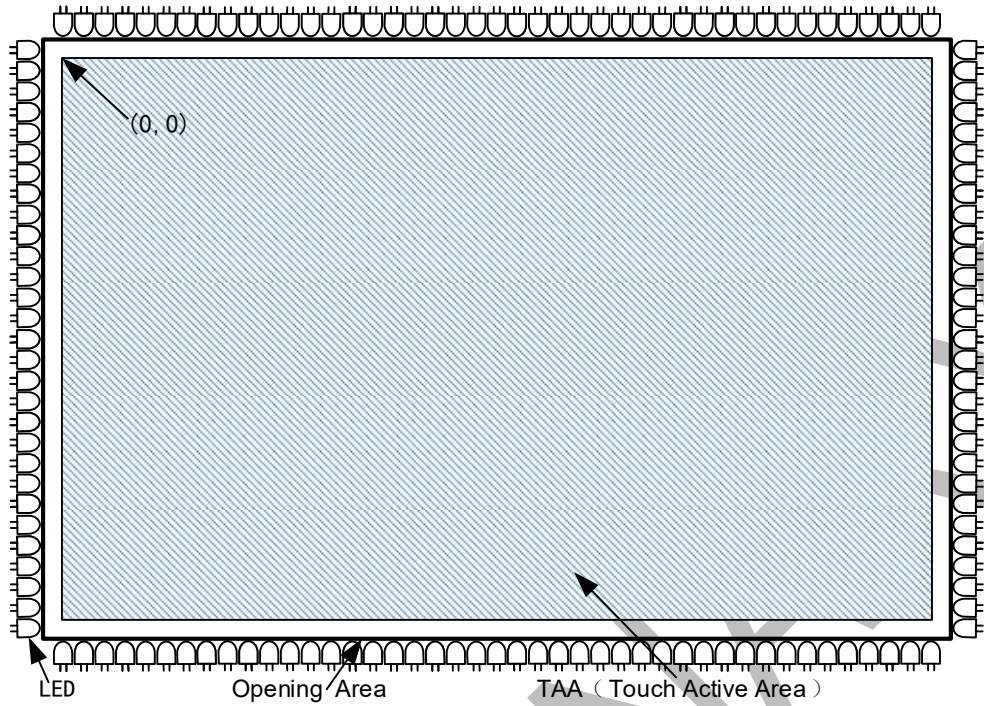
### Environmental Specifications

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 ≤6.5K Lux (Color Temperature = 2700K) (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, 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)

### 3、 Panel Opening Area and Touch Active Area



**FIGURE 1**

### 4、 Dimensional Drawing

Appendix I: Product Dimension Drawing

### 5、 ROHS COMPLIANCE

IX2000 Series touchscreen is RoHS compliant.

**Appendix I :**

ITEM		LOCT		DESCRIPTION OF CHANGE		APP. BY		DATE						
H		G		F		E		D						
C		B		A										
1	2	3	4	5	6									
Size	Touchscreen Thickness (D1)	Outside Dimensions			Touch Active Area			Assemble Hole Dimensions			Connection Position (D12)	Lens Thickness (D13)	Glass Thickness (D14)	
		Width(D2)	Height(D3)	Width(D4)	Height(D5)	Diagonal(D6)	Width(D7)	Height(D8)	Diameter(D9)	Width(D10)				Height(D11)
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
15.1(4.3)	6.8±0.5	34.2±1	266±1	306±1	230±1	382.8±0.25	335.8±1	250.3±1	φ3.6±0.1	308±1	232±1	109±3	3.8±0.1	3.2±0.1
17.1(5.4)	6.8±0.5	376±1	308±1	340±1	272±1	435.4±0.3	370.4±1	294.3±1	φ3.6±0.1	342±1	274±1	107±3	3.8±0.1	3.2±0.1
19.1(5.4)	6.8±0.5	416±1	339±1	378±1	303±1	484.5±0.3	408±1	322±1	φ3.6±0.1	380±1	301±1	116.7±3	3.8±0.1	3.2±0.1
19.1(6.10)	8.0±0.5	451±1	297±1	411±1	257±1	484.7±0.3	442±1	285±1	φ3.5±0.1	413.2±1	259.2±1	103.3±1	4.0±0.1	3.2±0.1
21.6(6.9)	8.0±0.5	517.5±1	309±1	477.5±1	269±1	548.1±0.3	508.5±1	297±1	φ3.5±0.1	480.1±1	271.6±1	100±3	4.9±0.1	3.2±0.1
23.6(6.9)	8.0±0.5	563.3±1	335.3±1	523.3±1	295.3±1	600.9±0.3	554±1	326±1	φ3.5±0.1	525.9±1	297.9±1	100±0.5	4.9±0.1	3.2±0.1
<p>DO NOT SOURCE PARTS FROM ALIEN SOURCES AND USE LOCAL SUPPLIERS</p> <p><b>IRTOUCH</b> <b>IRTOUCH TOUCHSCREENS CO., LTD.</b></p> <p>MATERIAL: PART No: EXP/COE No: Ref: A PROJECTION</p> <p>FINISH: PART NAME: IX2000-series infrared touchscreen DRAW No:</p> <p>ACTION: DESIGNER: 吳善禧 CHECKED: 魯亮 SCALE: 1:1</p> <p>DATE: 2018.11.21 DATE: 2018.11.21 APPROVED: 吳善禧 SHEET 1 OF 1 A4</p> <p>DATE: 2018.11.21 DATE: 2018.11.21 IRTOUCH-JL-YF-328</p>														