

Version	Date	Information Source	Update Details
1.0	2016/12/16	Hai Bi	Preliminary version
1.1	2017/05/09	Hai Bi	Update Order information
1.2	2017/06/12	Hai Bi	Add 23.6
1.3	2017/08/10	Hai Bi	Modify 23.6 SN
1.4	2017/12/18	Hai Bi	Parameter modify
1.5	2018/01/16	Hai Bi	Modify structural drawings
1.6	2019/04/02	Hai Bi	Parameter modify
1.7	2020/09/10	Dongxia Lin	Update Environmental Specifications
2.0	2021/08/17	Dongxia Lin	Combine Chinese and English versions
2.1	2022/03/29	Dongxia Lin	Parameter modify
2.2	2023/05/05	Dongxia Lin	Update the Appendix I

Infrared Type Touch Panel

IX1102 Series

Technical Specification

本文档包含 IRTOUCHSYSTEMS 专有技术信息，未经 IRTOUCHSYSTEMS 许可，不得向其他人披露全部或部分拷贝、转发或用于设计依据、生产和销售。

This document contains proprietary technical information, which is the property of the IRTOUCHSYSTEMS and shall not be disclosed to others in whole or in part, reproduced, copied, or used as the basis for design, manufacturing, or sale of apparatus without written permission of IRTOUCHSYSTEMS.

1. 产品信息 Order information

型号 Size	描述 Description
15.1"	4:3, 3mm 普通钢化玻璃, HID 4:3, 3mm general tempered glass, HID
17.1"	5:4, 3mm 普通钢化玻璃, HID 5:4, 3mm general tempered glass, HID
19.1"	5:4, 3mm 普通钢化玻璃, HID 5:4, 3mm general tempered glass, HID
19.1"	16:10, 3mm 普通钢化玻璃, HID 16:10, 3mm general tempered glass, HID
21.6"	16:9, 3mm 普通钢化玻璃, HID 16:9, 3mm general tempered glass, HID
23.6"	16:9, 3mm 普通钢化玻璃, HID 16:9, 3mm general tempered glass, HID

2. 规格参数 Specifications

机械规格 Mechanical Specifications

触摸物体 Input Method	手指或其他不透明物体 Finger, gloved hand, or any other opaque stylus
触摸点数 Touch points	2 点 2 points
技术原理 Touch Technology	红外线阻挡检测 Infrared rays interception detection, no special surface coatings
可选尺寸 Available Size	15.1" \17.1" \19.1" \21.6" \23.6"
产品尺寸 Dimensions	见附件I See Appendix I
触摸有效区 Touch Active Area	见附件I See Appendix I
玻璃 Glass	3mm 钢化玻璃(可定制) 3mm tempered glass (customizable)
透光率 Transmittance	≥88% with glass
外壳材质 Shell Material	上壳 Top Shell: 聚碳酸酯(PC)Polycarbonate (PC) 下壳 Bottom Shell: SGCC
有效触摸压力 Pressure Required to Trigger Touch Event	无需压力 No pressure required

电气规格 Electrical Specifications

分辨率 Controller reported resolution	32767×32767
触摸精度 Touch accuracy	<1mm(中心区域 central area) <2mm(边缘区域 edge area)
触摸物直径 Touch object diameter	≥φ7 (单点 single point) ≥φ10 (两点 two points, 间距 spacing ≥10mm)

触摸输出 Output	触摸点坐标 Coordinates
校准 Calibration	无需校准或四点校准 Not required or Four-point calibration, no drift
响应时间 Response Time	9ms
供电 Power requirements	USB 供电(DC5V±5% @ 500mA) Powered by USB (DC5V±5% @ 500mA)
功耗 Power consumption	<1.5W
MTBF	61000H

接口规格 Interface Specifications

接口类型 Interface Type	USB HID
即插即用 Plug and Play	免驱 Plug and play and HID compatible
连接类型 Connector Type	Type A

环境参数 Environmental Specifications

温度 Temperature	工作温度 Operating: -20~70°C 存储温度 Storage: -40~85°C
湿度 Relative Humidity	工作 Operating: 10%-90% RH, 40°C 无凝结 non-condensing 存储 Storage: 10%-90% RH, 40°C 无凝结 non-condensing
静电防护 Electrostatic Protection	EN61000-4-2 2008: L4, B 级: 接触放电 8kV, 空气放电 15kV EN61000-4-2 2008: Level 4, Class B. Contact discharge 8kV, air discharge 15kV on USB connector pins
抗光性能 Ambient Light Tolerance	10°, 单点 φ10, 卤素灯(色温=2700K): 照度 5k Lux 10°, one point φ10, halogen lamp (Color Temperature = 2700K): illumination 5k Lux
	10°, 单点 φ10, 阳光: 照度 25k Lux 10°, one point φ10, sunlight: illumination 25k Lux
EMC	CE, FCC Class B Compatible
防护等级 Seal ability	正面 IP65 IP65(Front)

软件规格 Software Specifications

固件升级 Firmware Upgradability	支持 Yes
设备类型 Device Type	触摸模式 Touch (with gesture support per OS) 鼠标模式 Mouse (Click, drag, double click, right-click)
校准 Calibration	四点校准, 无漂移 Four-point calibration, no drift
多屏匹配 Multi-Monitor Support	手动 Manually Binding
操作系统 Operating Systems Support	Windows(xp\7\8.1\10), Linux(≥2.6), Android(≥2.6), Vxwork(≥6.5)

3. 屏幕开口区及有效区示意图 Panel Opening Area and Touch Active Area

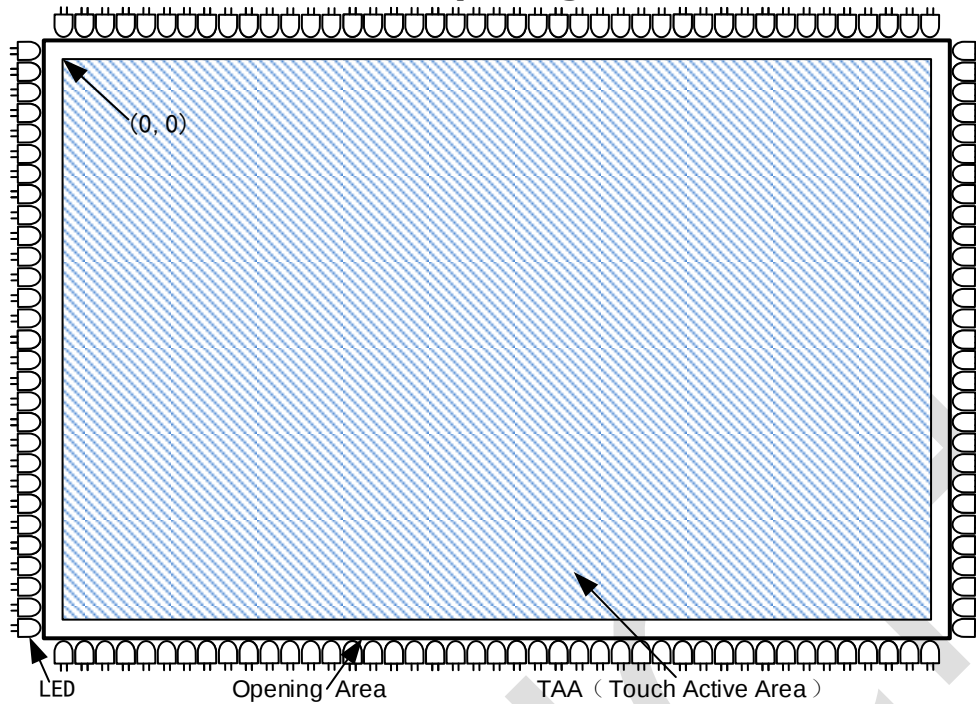


FIGURE 1

4. 产品尺寸图 Dimensional Drawing

附件1 Appendix I: 产品尺寸图 Product Dimension Drawing

附件2 Appendix II: USB 引出线图 USB Connector Drawing

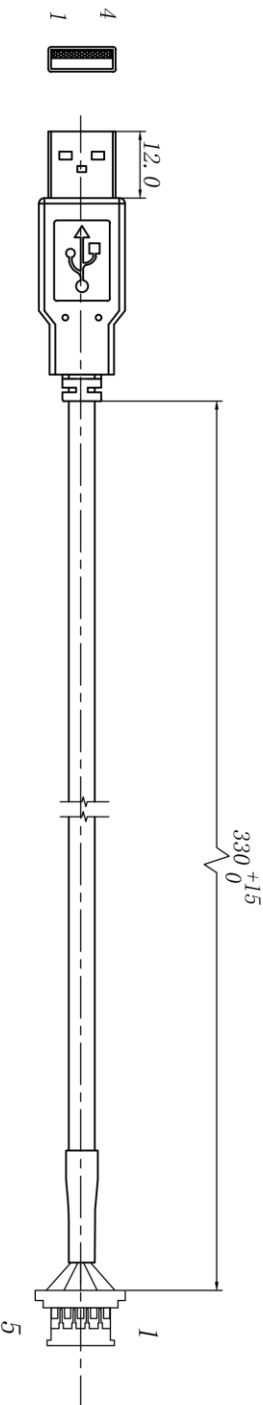
5. 符合 RoHS 认证 RoHS COMPLIANCE

IX1102系列触摸屏符合RoHS认证。

IX1102 series is RoHS compliant.

Appendix II:

会签栏		H	G	F	E	D	C	B	A
☐ 02		6							
☐ 03		5							
☐ 05		4							
☐ 06		3							
☐ 07		2							
分发栏 ☐ 02 ☐ 03 ☐ 05 ☐ 06 ☐ 07		1							
		USB							
		1		连接线颜色定义					A1254
		2		红色 (VCC)					1
		3		白色 (D-)					2
		4		绿色 (D+)					3
		5		黑色 (GND)					4
		外壳(5)		黑色 (屏蔽地线)					5



IRTOUCH			BEIJING IRTOUCHSYSTEMS CO., LTD.			EXPLODE No:		Rev: D	PROJECTION	
MATERIAL:			DO NOT SCALE DRAWING			PART No: 271-040303-06		DRAW No:		
FINISH:			ALL DIMENSIONS ARE MM			PART NAME: 带插头 USB 引出线		SCALE: 1:1		
ACTION:			TOLERANCE: LINEAR TOL: XX=±0.25 ANGULAR TOL: =±1.0°			CHECKED: 林东霞		APPROVED: 华海		
DATE: 2022.01.06			DESIGNER: 史静彬			DATE: 2022.01.06		DATE: 2022.01.06		
								SHEET 1 OF 1		
								A4		