

SPECIFICATION

FOR INFRARED FRAME

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Document Revision History

Date	Version	page	Update details
2022-02-21	V1.0		First release

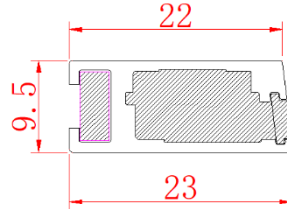
1. CHARACTERISTIC

- A plug-and-play device
Support 24 touch points.(Optional)

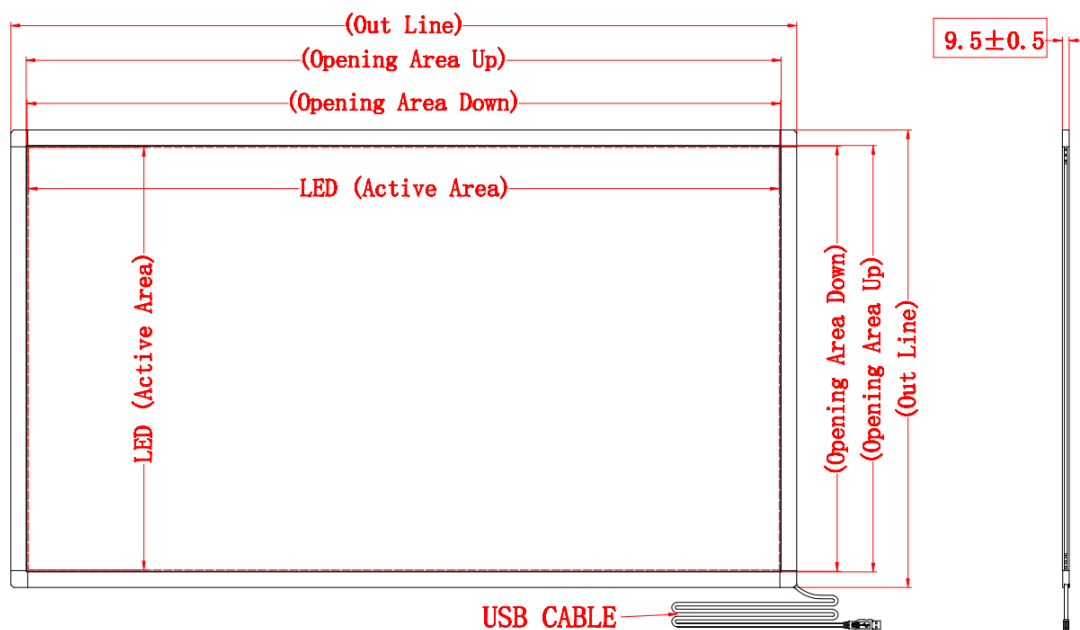
2.TOUCH SPECIFICATIONS

Item		Sepecification
Frame Matrial		Aluminium
Color		Black
Active Area (Display Device)		32"~86"
Interpolation Resolution		32767(w)x32767(D)
Response Time		<10ms
Frame Rate		125Hz
Touch Accuracy		±2 (over 90% Area)
Input Method		Finger, finger cover by glove, Opaque objects
Output Form		Coordinate Value
Touch Durability		Unlimited
Minimum Object Sizes For Touch	Single Touch	3mm
	Multi Touch	8mm
Interface		USB
		TTL / TTL Serial Port

3. TOUCH FRAME DIMENSION



FRAME SECTION



Normal Size Ranges:

Size (unit:inch)	Opening Area Down (mm)	Opening Area Up (mm)	Out Line (mm)	USB Cable length (m)
32	701.7*396.3	703.7*398.3	747.7*442.3	1.5
43	945.3*533.4	947.2*535.4	991.2*579.4	1.5
49	1077.8*608	1079.8*610	1123.79*654	1.5
50	1099*619.4	1101*621.4	1145*665.4	1.5
55	1213.8*684.4	1215.8*686.4	1259.8*730.4	1.5
65	1432.5*807.5	1434.5*809.5	1478.5*853.5	1.8
69.5	1542.9*869.6	1544.9*871.6	1588.9*915.6	1.8
70	1553.5*875.8	1555.5*877.8	1599.5*921.8	1.8
75	1654.24*932.26	1656.24*934.26	1700.24*978.26	1.8
86	1899.04*1069.96	1901.04*1071.96	1945.04*1115.96	1.8

4.ELECTRICAL SPENCIFICATIONS

Item	Specification
Communication Type	USB2.0 full Speed
Transmission Rate	12Mbps
Power Supply	USB
Working Voltage	DC 5V±5%
Average Current	<300mA

5.STORAGE CONDITIONGS

Item	Specification
Storage Temperature	-10°C~40°C
Storage Humidity	30%~70%RH
Storage Time	6Mouths

6.RELIABILITY

Item	Specification
Low temperature operation	Temperature: -20°C,Time: 48H
Low temperature start	Temperature: -20°C,Time: 4H
Low temperature storage	Temperature: -20°C,Time: 48H
High temperature operatio test	Temperature: 60°C,Time: 48H
High temperature, high humidity operation	Temperature: 60°C,humidity: 95%RH,no condensationTime: 48H
High temperature, high humidity storage	Temperature: 60°C,humidity: 95%RH,no condensationTime: 48H
Temperature change test	Temperature: -20°C~60°C, Loop number: 10times,

	Speed: 1°C/min
Thermal Shock test	High temperature: 85°C, low temperature: -45°C, 50cycles
Packing vibration test	Frequency: 5~200H, power spectral density: 0.015G ² /Hz, total RMS Acceleration: 1.57G, vibration mode: random vibration
Package drop test	A corner three side six-faces
ESD level	According to IEC6100-4-2 levelB. Contact discharge 4KV, air discharge 8KV (Applies to whole machine products)

7. OPERATING SYSTEM

Linux	Over Ubuntu 14.04	Ubuntu 19.10	√	√
Windows	Windows 7		√	√
	Windows 8		√	√
	Windows 10		√	√
Mac OS X	Mac OS X 10.12	MacOS X 10.15	√	√(using UPDD)
Chrome	Over Chrome 54		√	
Android	Over Android 4.0		√	√

Test Instruction

8.1 Test condition .

- Windows, Signal test software on Windows.
- Touch Pen (2pcs, φ8mm)

8.2 Test requirements .

- Take anti-static measures during assembly, wear static gloves or bracelets.
- There must be no high-power electrical appliances working around when testing, to avoid interference.
- There must be no other active infrared touch frame devices working around when testing, to avoid interference .
- If there has a mouse connected to the machine when testing, do not move it

8.3 Test steps

3.1 Signal test

- TOUCHTEST software on Windows
- After software finds the device, click "Start" to test (Do not touch when test beginning)
- Each test item show PASS, the touch frame signal is OK ; Otherwise is NG.

3.2 Line test

- How to holding the pen .
 - ◆ When drawing lines, the tilt angle of the stylus is $\leq 20^\circ$ as shown in figure 1, figure 2 is wrong



Figure 1



Figure 2

- Two points drawing .
 - ◆ Use two pens to draw lines on full screen (the distance between the center of the touch pens is 40mm) There should be no broken or jumper lines which is OK (figure 3); Otherwise is NG .
 - ◆ If NG, repeat the test to verify if the same problem occurs, if so, is a non-conforming product
- Figure 3

