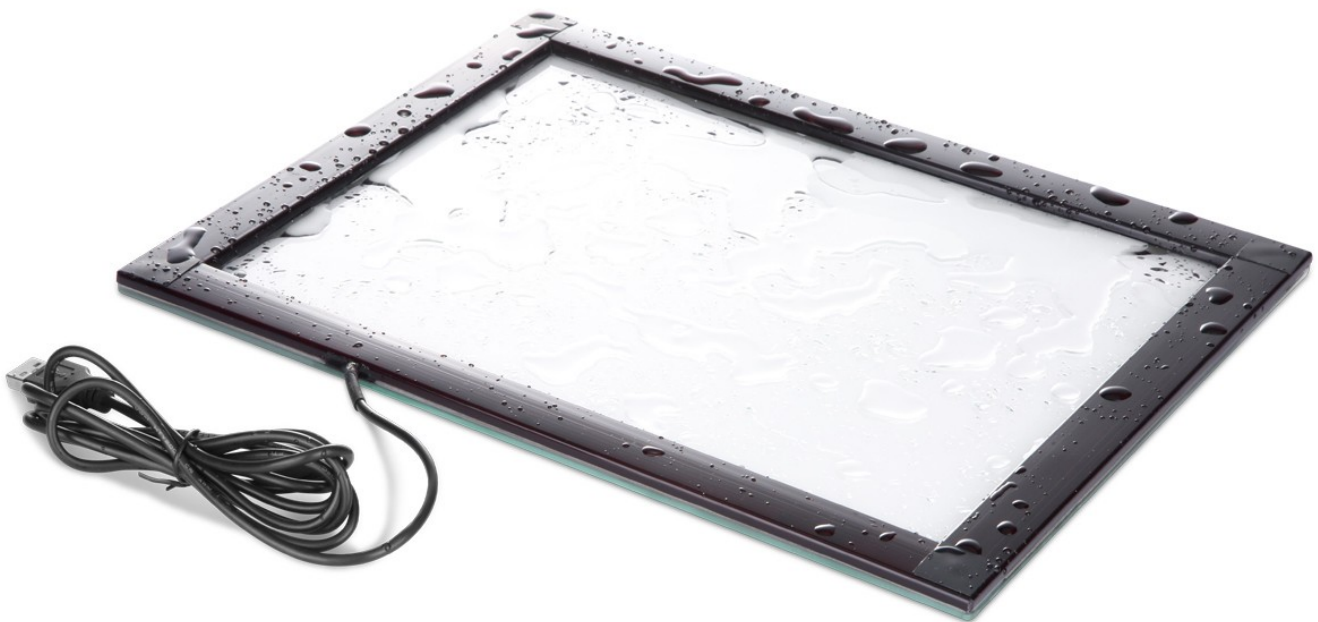


TPN (Paper) Waterproof Series

2 Points Multi-touch

Specification



Supports Android , Windows XP/7/8/10 , Mac OS , Linux、 Chrome OS , Raspberry Pi

Supports plug and play

9.7-27 inch



1.Overview

- TPN(Paper) Waterproof Series use fully enclosed production process ,the waterproof and dust-proof grade reaches IP65 , it can be used in an outdoor environment and complex industrial environment.
- The greatest free drive project in this business , support multiple operating systems , plug and play , convenience customers.
- Stable product performance, strong light resistance, can work under direct sunlight.
- Superdense tube design, support 2 points real touch and a variety of gesture recognition, easy to zoom, rotate, flip and drag, fast and smooth writing.

2. Features

- True multi-touch, writing fluency
- Support multiple operating systems without driver
- Plastic frame , exquisite appearance
- Free maintenance , long product life
- Fault-tolerant design, stable performance
- Superdense tube design, high precision of touch
- Hardware self-test, easy maintenance
- Anti light&dust , waterproof&riot

3.Application



Kiosk



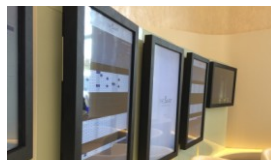
Games



Query



Vehicle equipment



Exhibition



Finance



Education



Industrial control



LED curtain wall

4. Specification

Standard Size		9.7" -27"
Border Width		19mm
Touch Points		2 points
Thickness		8.3mm (include 3mm glass)
Shell		Special filter material PC
Color		Black
Cable Length		USB : 1.2m R232 : 1.8m
Waterproof Level		IP65
Certification		RoHS, CE, FCC
Glass	Thickness	Standard: 3 mm, or according to customer requirements
	Material	Standard : toughened glass (surface hardness 7H) ; Customized : AR , AG glass
	Luminousness	toughened glass≥86% , AR glass≥92% , AG glass≥80%

5. Electrical

Output Resolution		4096*4096
Touch Precision		<2mm (Centre area) , <3mm (Edge area)
The Smallest Touch Objects		>4mm
Touch Depth		<3mm
Output Type		Absolute Value Of Coordinate
Calibrate		Not Require Recalibration
Response Speed		3~10ms
Multi-points Recognition		More than 10mm between touch points
Consumption		<2W , Typical 0.7W (DC5V Power)
Plug and Play		Without any driver (USB Product)
Scanning Frequency		60Hz
Interface		USB 2.0 , or RS232
RS232	Baud Rate	9600/38400
	Communication Interface	TXD , RXD , GND , +5V
	Power Supply	PS/2 , or USB
USB2.0	Terminal Type	A-type USB
	Communication Interface	USB-D+ , USB-D-
	Transmission Speed	12Mbps
	Power Supply	USB
ESD		Contact discharge 4KV, air discharge 8KV

Supply Voltage	DC+5V±5%
Operating Current	150±20mA

6.Mechanical

Touch Objects	Opacity object
Sensor	Infrared Ray
Working Life	Unlimited
Touch Pressure	Zero Pressure

7.Environmental

Temperature	Operating : -10℃~60℃
	Storage : -30℃~85℃
Humidity	Operating : 10℃~90℃ RH , 40℃
	Storage : 10℃~90℃ RH , 40℃

8.Software

Scan	Auto scan after power on
Event Detection	Touch Start , Hold , End
Upgraded	Upgraded with USB , RS232 interface
Driver	Without any driver(USB Product),RS232 product supply driver
Touch Events	Virtual Mouse(Drag,Left&Right Button)
	Android、 Windows 7/8/10 2 points touch event
	Touch device (Win7/8/10/Mac OS zoom and rotation)
	Support single display touch, multi monitor touch, extended display touch
OS Support	Windows XP/7/8/10 , Linux , Mac OS X , Android , Chrome OS , Raspberry Pi
Technical Service	Customizable output protocol, output interface, and application , DLL
Technical Support	Windows,Android online diagnosis, upgrade,configuration;Other platform can be customized

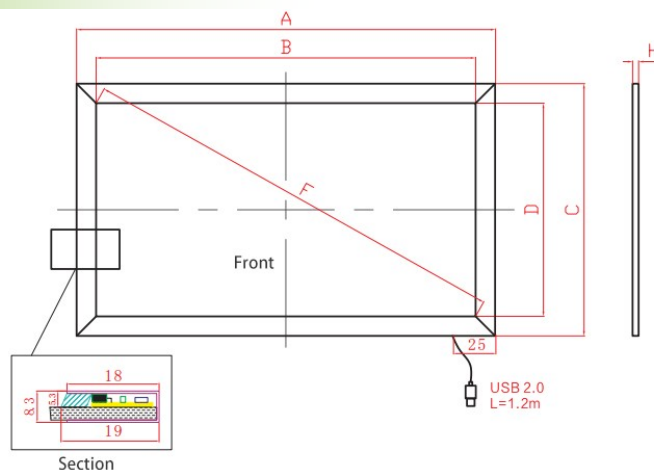
9. Reliability

Project	Test Condition	Result
High-temperature Storage□	60℃ : not work 20 hours continuously, room temperature for 2 hours	Normal
Low-temperature Storage□	-20℃ : not work 20 hours continuously, room temperature for 2 hours	Normal
High and low temperature cycle	40℃ : work 48 hours continuously , then -10℃ work 24 hours continuously	Normal
High humidity work	40℃ , 85% : work 24 hours continuously	Normal
USB plug test	Plug 2000 times in a row under different operating systems	Normal

10.Package

Product Accessories	Touch pen, manual, USB extension cable (selection)
Package	Carton (overall packaging、 10 pieces)

11.Sketch Map



TPN-P Waterproof frame touch screen size table

Size (")	Ratio	Touch Area (mm)		Outline dimension($\pm 0.5\text{mm}$)		Thickness/H ($\pm 0.3\text{mm}$)	Border width (mm)
		X (B)	Y (D)	length (A)	width (C)		
10.1	16 : 10	218	137	256	175	8.3	19
10.4	4 : 3	212	159	250	197	8.3	19
12.1	4 : 3	247	185	285	223	8.3	19
12.1	16 : 10	263	165	301	203	8.3	19
15	4 : 3	305	229	343	267	8.3	19
15.6	16 : 9	345	194	383	232	8.3	19
17	4 : 3	338	271	376	309	8.3	19
17	16 : 10	368	231	406	269	8.3	19
18.5	16 : 9	411	232	449	270	8.3	19
19	4 : 3	378	303	416	341	8.3	19
19	16 : 10	411	256	449	294	8.3	19
19.5	16 : 9	433	240	471	278	8.3	19
21.5	16 : 9	477	268	515	306	8.3	19
22	16 : 10	475	297	513	335	8.3	19
23	16 : 9	512	289	550	327	8.3	19
23.6	16 : 9	522	294	560	332	8.3	19
24	16 : 9	532	299	570	337	8.3	19
24	16 : 10	520	325	558	363	8.3	19
26	16 : 9	578	326	616	364	8.3	19
27	16 : 9	600	339	638	377	8.3	19