



苏州维业达触控科技有限公司

Nano Metal Mesh TP General SPEC

产 品 规 格 书

Product Name/品名: Projected Capacitive multi –Point Touch Panel

投射式多点电容触摸屏

Date /日 期: 2014/03/03

Vision /版本: A1

iVTouch approve/维业达确认：

Approved by /承认	Checked by /审核	Designed by /设计

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History of Version 变更记录

Date 日期	Ver.版本	Description 描述	Page 页码	Design by 变更人
2014.03.03	1.0	For the first time to issue/首次发行	7	LPG



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1. General Specification 产品规格

Item 项目	Contents 内容	Remark 备注
Outline Dimension 外形尺寸	Depend on the drawing	
Active Area(W*L) 动作区	Depend on the drawing	
View Area 可视区	Depend on the drawing	
TP size (inch) 英寸尺寸	Depend on the drawing	
Interface Type 接口种类	USB Control board	
Structure type 结构类型	GFF (Metal Mesh Flim)	
The first layer 第一层	1.8mm Cover Glass	Also can do customized product
The second floor 第二层	0.1mm OCA	
The third layer 第三层	0.125mm PET	
The fourth floor 第四层	0.05mm OCA	
The fifth floor 第五层	0.125mm PET	
The total thickness 总厚度	2.2mm±0.2mm	



2. Electrical Characteristics (Ta = 25°C) 电气参数

Item 项目	Specification 规格	Remark 备注
The operating system /操作系统	Win7、Win8	
Touch points /触摸点数	10 points	
Linearity/线性度	<2%	
Normal Working current 工作电流	< 30mA	
Green Working current 工作电流	< 20mA	
IC Working voltage/工作电压	DC2.8V~3.3V	

3. Optical Characteristics 光学参数

Item 项目	Contents 内容	Remark 备注
Transparency 透过率	≥85%	
Haze 雾度	<2%	

4. Reliability 信赖性

Item 项目	Specifications 规格	Remark 备注
High Temperature Storage /高温存储	70°C, 120hrs, Placed in room temperature 24h, the sample was tested.	
Low Temperature Storage /低温存储	-30°C, 120hrs, Placed in room temperature 24h, the sample was tested.	Non-condensing 无结露
Temperature/ Humidity Storage 储存温度/湿度	70°C/90% RH, 240hrs, normalized for 2 hrs	Non-condensing 无结露
Thermal Shock /	-30 ~ 80°C, 60 min/cycle, Total 50 Cycles,	



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冷热冲击	Start with cold temperature and end with high temperature	
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5. Durability 机械性能

Item 项目	Specification 规格
Hitting life 触击寿命	Use R0.8 written 150 g, 2 times/s, tapping 200 million times back and forth (calculate) 用R0.8笔头施加150g力, 2次/s, 触击2亿次 (来回算两次)
Hardness 表面硬度	7H
Ball Drop Test 落球测试	Steel ball Φ 32 mm, 130 g, 1 Drop Points, Height 40cm 钢球 Φ 32 mm, 130 g, 1 个落点, 高度 40cm
Package drop 包装跌落测试	Packaging from 50 cm high drop without damage 包装从50cm高度跌落无损伤

6. ESD TEST 静电测试

Condition: the user can be used in daily contact to place the table below for discharge test, each test point do 3 times, each time; To test the electric interval of 5 seconds, discharge capacitance value 330 pf, discharge resistance for the 2 k ohms.

条件: 对用户可以在日常使用接触到的地方按照下表进行放电测试, 每个测试点做3 次, 每次放电间隔 5 秒, 测试时放电电容容值 330PF, 放电阻值为 2K 欧姆。

Discharge position 放电位置	Discharge way 放电方式	Discharge voltage 放电电压 (KV)	Test requirements 试验要求
面板	接触放电	$\pm 6KV$, Times	B 级
	空气放电	$\pm 10KV$, Times	B 级

B: during the period of interference, device or system all functions in line with the actual requirements, some indicators allow paint, such as touch screen touch a little insensitive, minor position offset, etc., but after you remove the interference, out-of-tolerance indicators can automatically return to normal.

B 级: 在干扰期间, 器件或系统所有功能符合实际要求, 部分指标允许超标, 如触摸屏稍微触摸不灵敏、轻微位置偏移等, 但在干扰移开后, 超差的指标能自动恢复正常。



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Remarks : Our product also can pass Europe EMI testing .

备注：我们的产品可以通过欧标EMI测试。

7. Precautions 注意事项

Storage 存储	Store panel under the temperature and humidity range pre-specified. Direct sunlight exposure or piling should be avoided.
Unpack 拆包	Unpack the box with the printed red arrow pointing up.
Handling 使用中	(1) Use clean sacks or glove to prevent fingerprints and/or stains left on the panel. Extra attention and carefulness should be taken while handling the glass edge. (2) Avoid high voltage and/or static charge (3) Holding the panel instead of the tail at all time.
Cleaning 清洁	(1) Use neutral detergent or isopropyl alcohol on a clean soft cloth to clean the panel surface (2) Prevent using any kind of chemical solvent, acidic or alkali solution.
Installing 安装	(1) Excessive force or strain to the panel or tail is prohibited. (2) Retain at least 0.3 mm clearance between panel and display module. (3) Gasket or cushion pads around the edge of the panel may segregate water and/or dust contamination.
Operating 操作	(1) Touch the panel with your finger or stylus only to assure normal operation. Any sharp edged or hard objects are prohibited. (2) Operate the panel in a steady environment. Abrupt variation on temperature and humidity may cause malfunction of the panel.
Others 其他	(1) Keep the panel surface clean. Prevent any kind of adhesive applied on the surface. (2) Avoid high voltage and/or static charge.