

# 触摸屏规格承认书

## Specification of Touch Panel

机种编号 / Model No.: AC-C1075-27.0

版本号 / Customer's P/N: V1

客户名称 /Customer Name:

客户型号 /Customer No.: 27.0 寸电容触摸屏

Approve by	Designed by

客户确认 /Customer Approve:

确认时间 /Approve Date:

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## Warranty

Products manufactured to these specifications shall be capable of meeting all characteristics delivery onwards or for a minimum period of 1 year of the customer received when stored and used as specified under normal conditions within the contents of these sheets.

保质期

此规格触摸屏，从出货之日起或客户收到产品后，至少一年内应符合下列正常条件下的储存和使用规格。

## 1 Sample Specification 样品规格

### 1.1 Product name Code No.: Transparent touch panel

品名编号：透明轻触开关

### 1.2 Scope

适用范围

This specification shall apply to metal pen or finger input transparent capacitive touch panel.

此样品为用专用金属笔或手指操作的电容式透明轻触开关。

### 1.3 Features and General Specifications

特征和规格

- Features 特征

Construction 结构	Materials used 所用材料	Comment 注释
armoured glass 钢化玻璃	GLASS 玻璃	Thickness: 2.0mm 厚度:2.0mm
UV Graphic overlay OCA 透明胶	UV Adhesive 粘胶	Thickness: 0.2mm 厚度:0.2mm
TOP Glass	ITO 玻璃	Thickness: 1.1mm 厚度:1.1mm

● General Specifications 规格 (L=long 长; W=wide 宽; T= thickness 厚)

Item 项目	Specifications 规格	Unit 单位
TP Outline 外形尺寸	656.02 (L) × 394.02 (W) × 3.3 (T)	mm
Viewing Area 可视区	598.6 (L) × 337.14 (W)	mm
Active Area 驱动区	600.6 (L) × 339.14 (W)	mm

1.4 Environment Conditions 环境参数

Items 项目	Value 值
Operating temperature & Humidity 工作温湿度范围	-20℃~+70℃:
Storage temperature & Humidity 储存温湿度范围	-30℃~+80℃:

1.5 Mechanical characteristics 机械性能

Items 项目	Value 值
Optical characteristics 光学特性	Transparency 透明度 大于 86%
Hardness 表面硬度	6H

1.6 Solution and Electric characteristics 方案和电气性能

Items 项目	Specifications 规格
Touch point 触控点数	10 点
Linear equation 线性度	<2%
SNR 信噪比	>200db
工作电压	2.8~3.3V
ESD 接触面(接触)	正负 6KV, 10times
ESD 接触面(空气)	正负 10KV, 10times
通信接口(Interface)	USB/IIC

2 Appearance limit standard

外观检验标准

## 2.1 Scope 范围

Touch panel visible side. 产品的可视区

## 2.2 Inspection conditions 检测条件

(1) The brightness in text site:500LUX

光照条件:500LUX

(2) Inspection distance:30cm

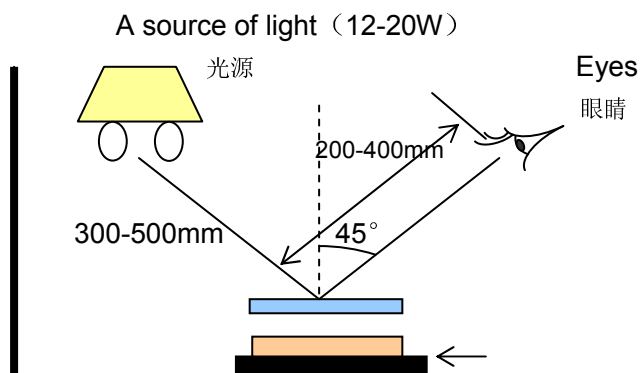
检测距离:30cm

(3) visual angle:>60 度

检测角度: >60 度

(4) light source:40W natural light

电源强度: 40W

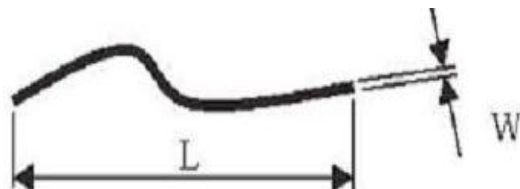


(Remark: D=diameter 直径; L=length 长度; W=width 宽; GT=glass thickness 玻璃总厚)

### 2.2-1

## visual area 透明可视区

Scratch 刮伤



CRITERIA	DECISION
W<0.1mm 宽<0.1mm	Ignored. 可以忽略
0.1mm≤W≤0.3mm 0.1mm≤宽≤0.3mm	L≤10mm,two objects are ignored. 长≤10mm, 允许两条;
W>0.3mm 宽>0.3mm	The T/P is regarded as a defect. T/P 属不良品。

### 2.2-2 Dot-like Foreign Matter 点状杂物

CRITERIA	DECISION
D<0.35mm 直径<0.35mm	Ignored 可忽略

0.35mm≤D≤0.5mm 0.35mm≤直径≤0.5mm	The object is >10mm in distance from any other foreign object. Three objects are allowed. 粒状杂物与另一杂物之间的距离>10mm,允许有五个存在;
D>0.5mm 直径>0.5mm	The T/P is regarded as a defect. T/P 属不良品。

### 2.2-3 Linear Foreign Matter 线状杂物

CRITERIA	DECISION
W<0.1mm 宽<0.1mm	L≤3mm Ignored. L≤3mm 可以忽略
0.1≤W≤0.3mm 0.1≤宽≤0.3mm	L≤10mm, the object is >10mm three object is ignored. 长≤10mm, 与另一杂物之间的距离>10mm, 允许 5 条;
W>0.05mm or L>3mm 宽>0.05mm 或长>3mm	The T/P is regarded as a defect. T/P 属不良品。

### 2.2-4 OCA bubbles and bend 透明胶汽泡/变形

CRITERIA	DECISION
V/A 区点状汽泡直径 0.35mm 以下, 允许 5 个, OCA 轻微波浪纹变形不影响 FILM 变形可接受	OCA 点状汽泡用检验规量测, OCA 轻微波浪纹变形需将产品平放于检验光源下 300~400mm 检验观察 FILM 有无变化

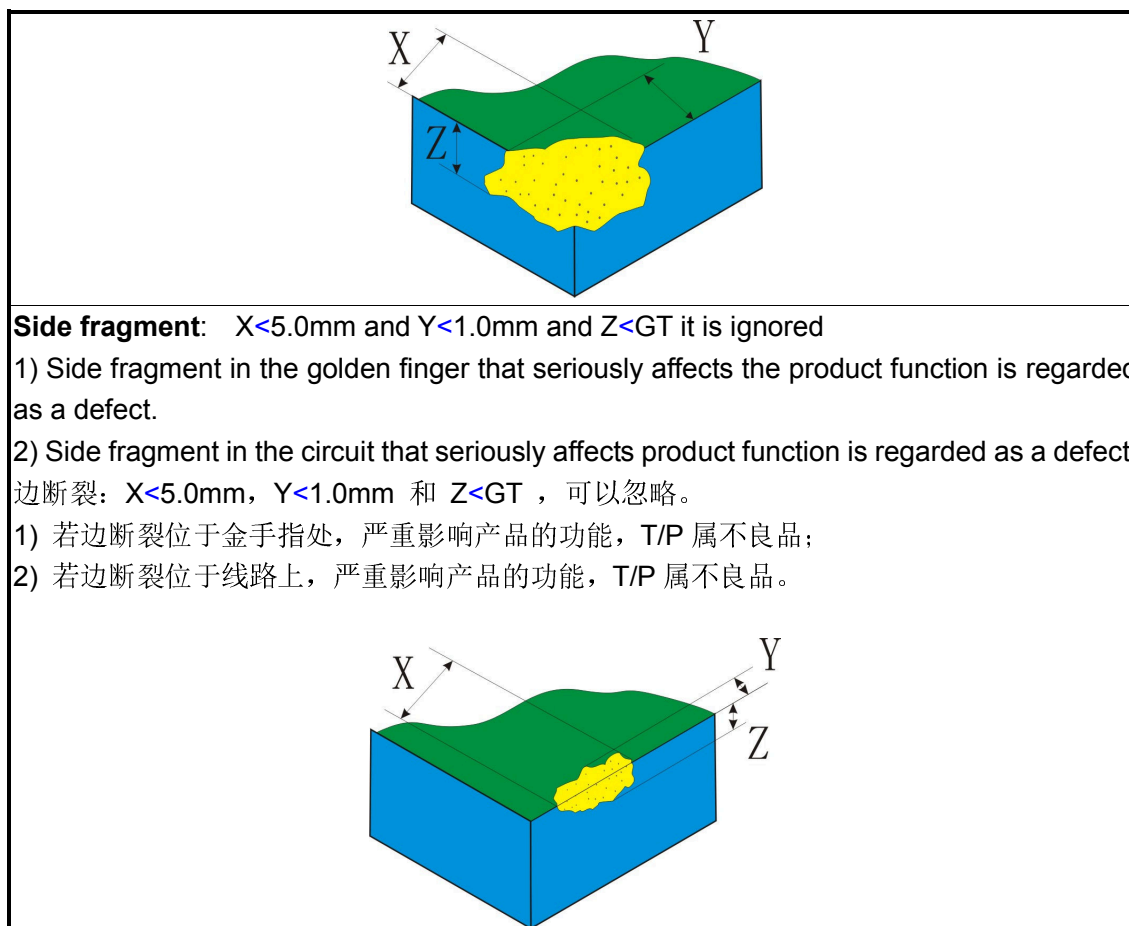
## ➤ Non- visual area(overlay)非透明可视区(面版)

### 2.2-5 Dot-like Foreign Matter 点状杂物

CRITERIA	DECISION
D<0.35mm 直径<0.25mm	Ignored 可忽略
0.35mm≤D≤0.5mm 0.35mm≤直径≤0.5mm	Two objects are allowed. 允许有五个存在;
D>0.5mm 直径>0.5mm	The T/P is regarded as a defect. T/P 属不良品。

### 2.2-6 Chip And Crack 碎裂、破损

<b>Corner fragment:</b> X<2.0mm and Y<2.0mm and Z<GT it is ignored 1) Corner fragment in the golden finger that seriously affects the product function is regarded as a defect. 2) Corner fragment in the circuit that seriously affects product function is regarded as a defect. 角断裂: X<2.0mm , Y<2.0mm 和 Z<GT, 可以忽略 1) 若角断裂位于金手指处, 严重影响产品的功能, T/P 属不良品; 2) 若角断裂位于线路上, 严重影响产品的功能, T/P 属不良品。	
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**2.2-7 others:** This specification is considered as basic on the products, but details are subject to discussion upon individual customer requirement.

其它: 此承认书基本满足产品特性要求, 若有其它问题可针对客户实际要求进行协商。

### 3 Reliant Condition 信赖性条件

No.	Item	Test Condition	Note
1	High Temperature Operating	After exposing at $60^{\circ}\text{C}$ for 64 hours and at normal temperature and humidity for 24 hours.	OK
2	Low Temperature Operating	After exposing at $-20^{\circ}\text{C}$ for 64 hours and at normal temperature and humidity for 24 hours.(except for dew gathering)	OK
3	High Temperature 、High Humidity Operating	After exposing at $60^{\circ}\text{C}$ , 80%RH for 64 hours(after dehumidifying in the chamber $60^{\circ}\text{C}$ and 50% max.) and at normal temperature and humidity for 24 hours.(except for dew gathering)	OK
4	High Temperature Storage	After exposing at $60^{\circ}\text{C}$ for 64 hours and at normal temperature and humidity for 24 hours.	OK
5	Low Temperature	After exposing at $-30^{\circ}\text{C}$ for 64 hours and at	

	<b>Storage</b>	normal temperature and humidity for 24 hours.	
<b>6</b>	<b>High Temperature 、 High Humidity Storage</b>	After exposing at 60℃,90%RH for 64 hours and at normal temperature and humidity for 24 hours.(except for dew gathering)	OK
<b>7</b>	<b>Thermal Shock.(Non Operating)</b>	After exposing under the conditions between -30℃ (30min) and 70℃ (30min) by 50 cycles (taking out at 70℃) and at normal temperature and humidity for 24 hours.(except for dew gathering) Test sample:4pcs	OK
<b>8</b>	<b>Touch panel surface Intensity test</b>	Condition:steel ball of dia 30mm, Loading=110g,Height=30cm, to stroke on touch panel surface. Criterion: Normal performance after surface intensity test. There shall be no fragmentation on touch panel surface.	OK

#### **4.Attachment** 附件

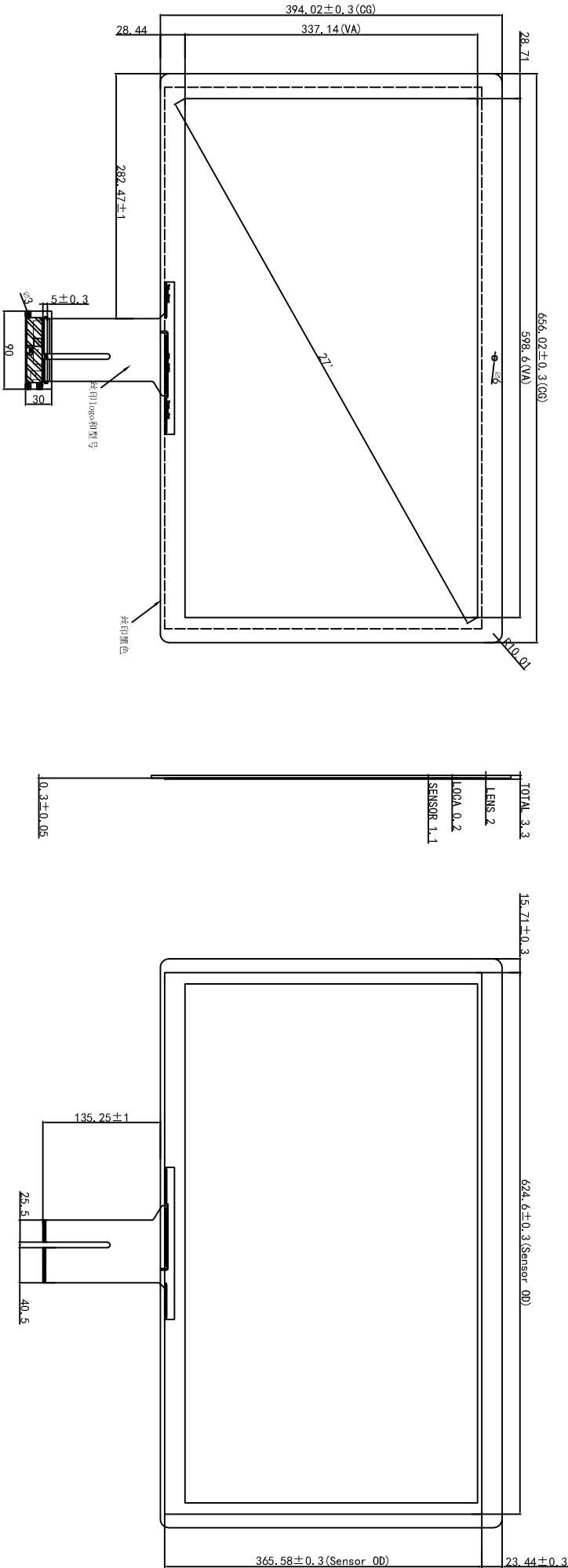
**Engineering drawing** 工程图

REV	MARK	HISTORY	DATE	NAME
REV.0	—	—	2016.01.20	JSY
REV.1	—	更改FPC外形	2016.03.23	JSY

正视图

侧视图

背视图



Notes:

1. TP Structure: G+G;
2. TP Type: COB; IC: ILI2312 (RX78\*TX46)
3. Transmittance:  $\geq 85\%$
4. Hardless:  $>6H$
5. Operating conditions:  $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$ ,  $\leq 85\%RH$
6. Storage conditions:  $-10^{\circ}\text{C} \sim +65^{\circ}\text{C}$ ,  $\leq 85\%RH$
7. Unspecified tolerance:  $\pm 0.2\text{mm}$
8. All materials in the drawing comply with the Rosh

AC-C1075-27.0 工程图				SHEET	UNIT	SCALE	1st ANGLE PROJECTION
DESIGN		DATE		1 of 1	mm	1:1	
CHECK	JSY	DATE	2016.03.23				