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PRODUCT SPECIFICATION

Customer Name (客户名称): _____

Customer P/N (客户料号): **GG10103005JY-USB**

P/N (产品料号): **104 72A-GDA-A3**

Date (日期): **2017-03-04**

EDIT (制作)	CHECKED (审核)	APPROVED (批准)
杨静	刘烈林	杨少拉

Customer Approval 客户批准	<input type="checkbox"/> Approved 承认 <input type="checkbox"/> Reject 拒绝 Comment 意见:
	Approved by (确认人): _____



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1. General Specification 产品规格

Item 项目	CONTENTS 内容	Unit 单位
Outline Dimension 外形尺寸	247.00*168.00	mm
Active Area(W*L)动作区	217.96*136.60	mm
View Area 可视区	216.96*135.60 (10.1inch)	mm
ITO Glass thickness ITO 厚度	0.55	mm
Cover lens thickness 玻璃厚度	1.10	mm
Total 总厚度	1.85	mm
Touch IC 触摸IC	ILI2301S+M2V	--
Number of touchpoint 触点数量	10 点触摸	Points
Number of button 按键数量	--	--
Interface Type 接口方式	USB	-
Operation Temperature 工作温度	-20℃~70℃	℃
Storage Temperature 储存条件	常温（室内）条件；湿度40%~70%RH （装机前）仓储不能超过3个月。	℃
	温度-30℃~80℃（装机后）	℃



2. Optical Characteristics 光学参数

Item 项目	CONTENTS 内容	Remark 备注
Transparency 透过率	>85%	

3. Reliability 信赖性

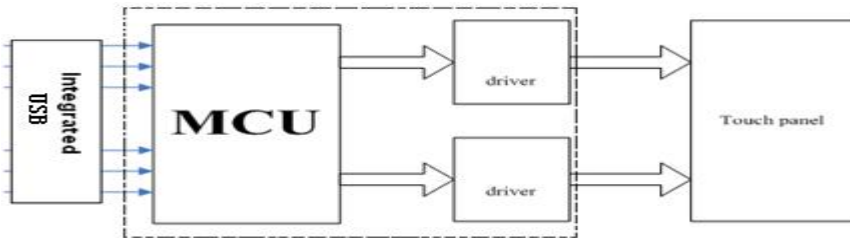
Item 项目	Specifications 规格	Remark 备注
High Temperature Storage 高温存储	80°C, 240hrs	
Low Temperature Storage 低温存储	-30°C, 240hrs	Non-condensing 无结露
Temperature/ Humidity Storage 储存温度/湿度	60°C/90% RH, 240hrs	Non-condensing 无结露
High Temperature Operation 高温工作	70°C, 24hrs	
Low Temperature Operation 低温工作	-20 °C, 24hrs	Non-condensing 无结露
Temperature/ Humidity Operation 工作温度/湿度	60°C/90%RH, 24hrs	Non-condensing 无结露
Thermal Shock 冷热冲击	-30 ~ 80°C, 60 Mins/cycle , Total 10 Cycles	

4. Touch panel description 触摸屏功能描述

4.1 touch panel drawing 外形图

See appendix(见附工程图)

4.2 Block diagram 功能方框图



4.3 Touch panel pin assignment 引脚定义

Pin	Symbol	Description
1	VDD/5V	Power supply.
2	D-	Signal
3	D+	Signal
4	GND	Power ground.

5. Appearance Inspection 外观检验

5.1 External appearance examination standard 外观检验标准:

不良项目	检验标准	缺陷分类				判定
		ACC	MI	MA	CR	
线状物 (包括刮伤、纤维) W: 宽度 L: 长度	$W \leq 0.1\text{mm}$; 忽略不计	★				PASS
	$0.1\text{mm} < W \leq 0.25\text{mm}$, $L \leq 5\text{mm}$ 允许 2 条, 距离在 40mm 以上	★				PASS
	$W > 0.25\text{mm}$, $L > 5\text{mm}$		★			NG
点状物 (异色点、白点、黑点) D 代表直径 (可视区内) $D = (x + y) / 2$	$D \leq 0.2\text{mm}$; 忽略不计, 整面及密集点不允许。	★				PASS
	$0.2\text{mm} < D \leq 0.4\text{mm}$ 允许 3 个, 距离在 30mm 以上。	★				PASS
	$D > 0.4\text{mm}$		★			NG
不良项目	触摸屏标准	缺陷分类				判定
		ACC	MI	MA	CA	

崩角 	$X \leq 0.3\text{mm}; Y \leq 0.4\text{mm}; Z1/2T$; 单边允许1个	★				PASS
	$X > 0.3\text{mm}, Y > 0.4\text{mm}$		★			NG
崩边 	$X \leq 0.3\text{mm}; Y \leq 0.4\text{mm}, Z1/2T$; 单边允许1个	★				PASS
	$X > 0.3\text{mm}, Y > 0.4\text{mm}$		★			NG
	Sensor 面崩边/崩角未伤及线路且正视不可见。	★				PASS
	Sensor 面崩边或崩角伤及线路或正视可见。			★		NG
玻璃裂纹 	任何裂纹			★		NG
油墨漏光	边沿区域漏光宽度 $\leq 0.25\text{mm}$	★				PASS
	边沿区域漏光宽度 $> 0.25\text{mm}$		★			NG
表面脏污	ITO表面不允许有不可清洁处理的脏污、水印		★			NG
	无法清洁的脏污按点状不良判定		★			-
FPC 缺陷 	凹痕, 针孔 $a \leq w/3$		★			PASS
	开路/划伤线路/裂开			★		NG
	氧化, 污染			★		NG
FPC 折伤	FPC 折伤/压伤 ; 死折 (锐角折痕) 不允许, 锐角凸起			★		NG



6. Notice 注意事项

6.1 Notice 常规注意事项:

- 6.1.1 Due to the system of capacitive touch screen is made of glass, Please do not strong impact, The impact, Or Fall from height; 由于电容式触摸屏是由玻璃所制, 请勿强力撞击, 或高处落下;
- 6.1.2 Please do not stack up TPs. Don't load on TP; 保存时请勿重叠放置, 或重物叠压;
- 6.1.3 Please do not put the capacitive touch screen itself or FPC direct contact with metal material; 电容式触摸屏本身或FPC具有导电性, 避免与金属物质直接接触;
- 6.1.4 When assembling, please do not bend or strength to pull FPC, Avoid to cause the injured; 安装时请勿折弯或强力拉扯FPC, 避免造成折伤;
- 6.1.5 When assembling, please do not touch ink face of back of TP, Avoid to scratches; 安装时请勿用硬物接触电容式触摸屏背后的油墨, 避免造成刮伤;
- 6.1.6 When assembling, please do not contact the visual area, if have dirty in VA, Recommend the use of anhydrous ethanol to clean; 安装时请勿接触可视区, 如果触摸造成脏污, 请采用指定的清洁方法除污, 建议使用无水乙醇清洁;
- 6.1.7 Operation of the capacitive touch screen, Use finger or conductive touch pen, please; must avoid high voltage and static electricity. 操作电容式触摸屏时, 请采用手指或导电性笔触摸; 注意预防高压和静电。

6.2 Other instructions 其他说明:

- 6.2.1 Out of this inspection standard in project, to ref confirmed drawings or specs. 本检验标准中未提及或未规定的项目以双方确认的工程图纸或规格书为准, 双方如有特别要求, 可协商确定, 以协商确定的图纸或规格书要求为准, 当工程图纸或客户有指定要求时, 以工程图纸或客户要求为准。
- 6.2.2 When have quality issue, to follow up this standard, approved specification, and approved samples. Others, will be discuss one by one. 在发生产品品质争议时, 首先以本标准、双方确认规格书, 双方协定技术要求和限度样本为准, 无协定或本标准未提及的, 双方另行协商处理。

6.3 Suggest 建议:

- 6.3.1 The finished product protection film is used to protect finished product in the process of the goods shipped to the customer, prevent the finished goods delivery Process in the environmental impact, so the external surface of the protective film is there is no guarantee that no scratches or dirt, the finished product protection film Strongly do not recommend use in client follow-up process. 成品保护膜是用来保护成品于货物运送至客户指定地点之过程中, 避免成品受到货物运送过程之外在环境影响, 因此保护膜外表面是无法保证完全没有刮伤或脏污, 该成品保护膜强烈不建议在客户端的后续制程中使用。

6.3.2 Storage condition 储存条件:

- 6.3.2.1 suggest to keep the products at temperature $23\pm 3^{\circ}\text{C}$ and humidity 40%~70%RH and Storage can not be more than 6 months.

建议将材料存储在温度 $23\pm 3^{\circ}\text{C}$; 湿度40%~70%RH并不超过6个月以避免环境引起的保护膜脱胶, 从而导致产



品表面污染。

6.3.2.2 Suggest to keep the materials no more than 3 months in normal condition.

建议在正常环境下（非恒温恒湿），材料的储存周期不能超过3个月，以避免环境引起的保护膜脱胶，从而导致产品表面污染。

6.3.3 Advising clients to peel off protective film from TP. Then necessary to do cleaning and inspection

before assembling · Don't put the used protective film back to TP. 建议客户在使用前撕去成品保护膜,进行必要清洁及外观检查,再使用该成品进行后续加工组装,不要将已撕去之成品保护膜贴回产品上,因为已撕去的保护膜已经被作业员接触到保护膜内面而造成污染,再将已撕去的成品保护膜贴回产品上会造成脏污转移污染。

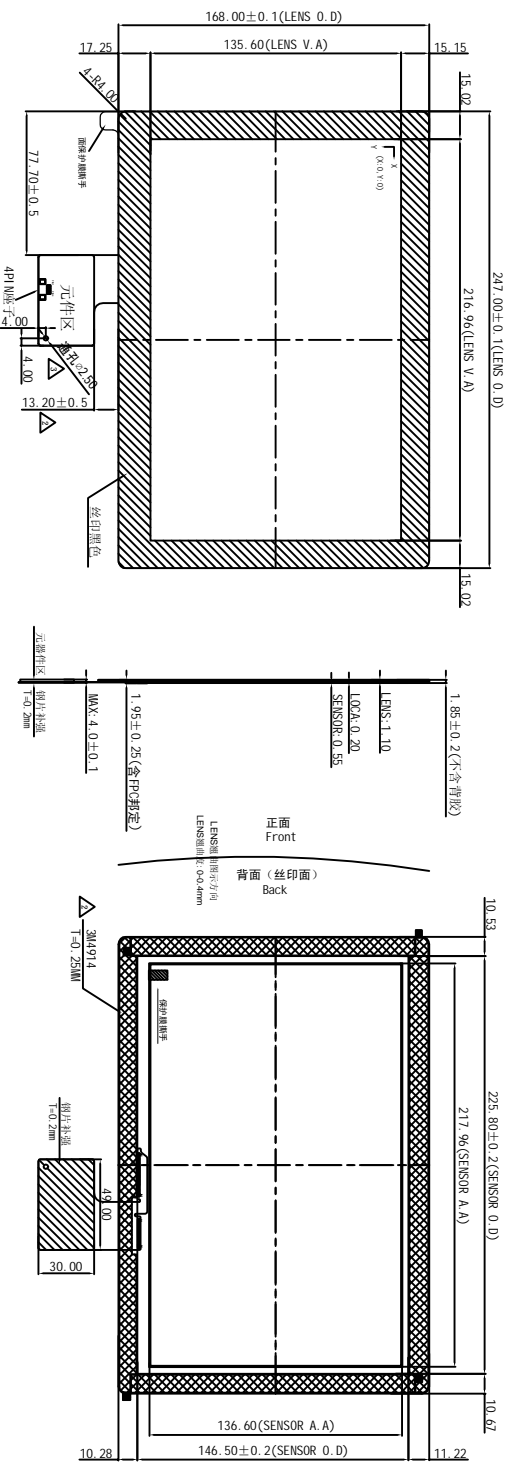
6.3.4 It is strongly recommended that clients to remove the protective film in clear room, to clear the surface

with Ethanol anhydrous before assembling . 强烈建议客户或使用者在使用本产品进行外观检查或贴合前，一定要先完全撕去保护膜,然后使用无尘室专用的无尘干布加上适量的溶剂(如Ethanol 无水乙醇),戴上干净的手指套,然后使用正确的清洁手法进行清洁。

Appendix 附件 工程图

No.	Rev.	Revision Record	Date
△	A0	MGJ10472A-GDA-A1基础上接口改为USB	2016-09-02
△	A1	更改FPC长度	2016-09-05
△	A2	FPC增加通孔更改双面胶材质及厚度	2017-02-10

TOP VIEW SIDE VIEW BOT VIEW



USB

PIN	定义
1	VDD/5V
2	D-
3	D+
4	GND

结构图

DOPO TECH GROUP LIMITED	
Sheet	1 of 1
Model NO.	GG10103005JY-USB
UNIT	mm
Model P/N	CUSTOMER P/N
REV.	A0
Designed	LLL
Date	2017-02-10
Scale	FIT
Checked	SLA
Date	2017-02-10
Approved	Date

- 技术参数:**
1. 结构: GHG
 2. COVER LENS 为化学强化玻璃;
 3. FPC接口线为IIC和USB标准接口;
 4. IC: ILL2301S+M2V, 十点触摸
 5. 工作电压: 3.3V, IO电压3.3V; 中断方式: 下拉脉冲;
 6. 表面硬度 $\geq 6H$;
 7. 透光率为85%以上;
 8. 未注明公差为 $\pm 0.2mm$;
 9. 产品符合RoHS标准。

