

TOUCH 触屏工匠
CONTROL

DOPO TECH GROUP LIMITED
深圳市多普泰克科技有限公司

Company Profile 公司简介



Established in 2012, DOPO is a professional designer and manufacturer of touch panels and touch display. We can provide customers with the high quality and good competitive touch solutions to meet the needs of diverse applications and custom-made items.

Currently, the main items include PCT (projected capacitive touch panel), 4Wire resistive TP, 5Wire resistive TP, touch monitors and some touch application devices. The final device fields are kiosks, financial devices, medical apparatus and instruments, smart home, game machines, industrial control, education, conference and other special fields.

With years development, now we have professional producing machines, high level engineers and skilled workers (the total staff is more than 400 persons). Our strict quality management system under ISO14001:2004, ISO9001:2008, ISO/TS16949:2009 management system, which make our products are high quality to reach customers' requirements. And our items got CE, FCC, ROHS certifications.

DOPO items have entered international market and got more and more customers' trust, the main customers include Bosch (Germany), Uniwell (Japan), Satel (Poland), M4B (Poland), Algra (Switzerland) and others. We pay more attention to quality control and technology innovation, and hope to offer better service to customers.

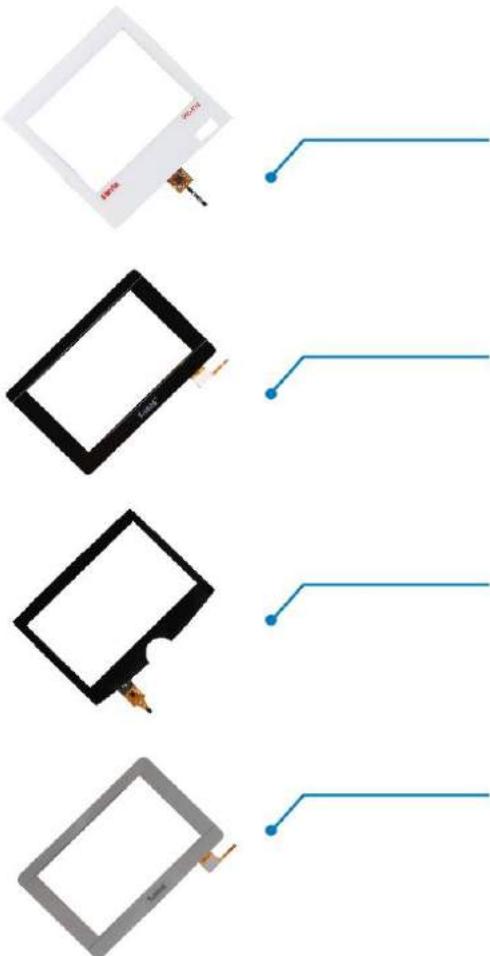
Application fields 应用领域



The workshop 车间



Projected capacitive touch panel 投射式电容屏

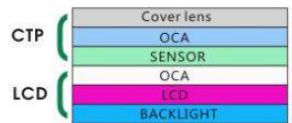


Product feature 产品特性

Operating voltage : 2.8V~5.5V DV	3.3~5V DV,35mA
Transmittance : 86%~88%	Life time:>20 million times
Structure : G(glass)+G or G+F/F(film)	
Input : conductive metal pen or finger	Operating pressure : Capacitance induction without operating pressure
Contact chatter time : <3ms	
resolution : 4096*4096(according to the resolution of the ICD)	Operating temperature : -20°C~+70°C
linear<1.5%	Storage temperature : -30°C~+80°C
Type of glass : common , chemical strengthening , tempering	Glass thickness : 0.55mm-10mm
Contact number : max 10	interface : IIC/USB

工作电压 : 2.8V~5.5V DC	表面硬度 : 6H
透光度 : 86%~88%	寿命 : 大于2千万次
结构 : G(glass)+G or G+F/F(film)	
输入方式 : 导金属笔或者手指	操作压力 : 电容感应, 无需操作压力
触电抖动时间 : <3ms	操作温度 : -20°C~+70°C
分辨率 : 4096*4096 (根据LCD分辨率调整)	储存温度 : -30°C~+80°C
线性 : <1.5%	玻璃厚度 : 0.55mm-10mm
玻璃各类 : 普通玻璃,化学强力玻璃,钢化玻璃	通讯接口类型 : IIC/USB
触点数量 : 最大可支持10个	

Capacitive touch panel & bonding(optical/frame) 电容屏贴合



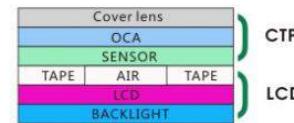
Optical(No air-layer)Bonding

- Surface light reflection and intra panel reflection losses:<0.3%
- ✓ Touch Display Integration
- ✓ High Contrast Ratio
- ✓ Thinner & lighter
- Difficult To Assemble
- High Cost



Used In Outdoor

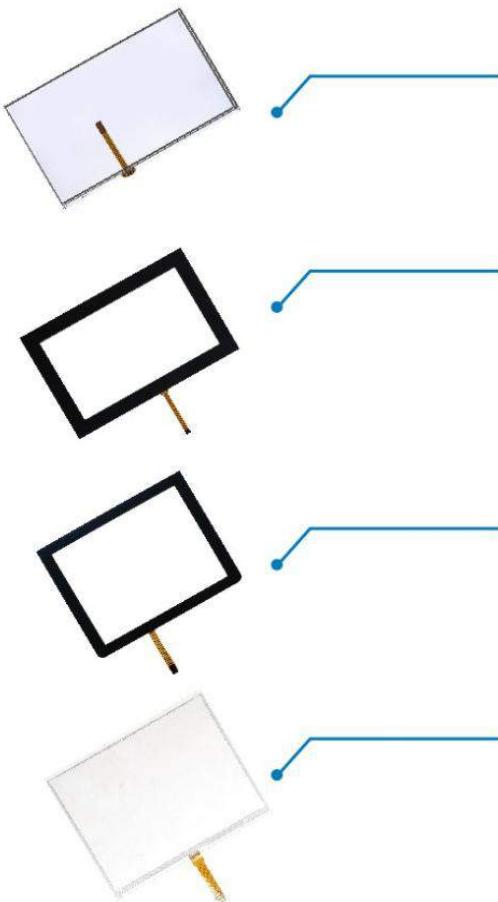
With Optical Bonding With Frame Bonding



Frame(air-layer)Bonding

- Surface light reflection and intra panel reflection losses:<5%-20%
- ✓ Touch Display Integration
- ✓ Easy to Assemble
- Slight Reflection

4Wire/5Wire/8Wire Resistive touch panel 电阻屏

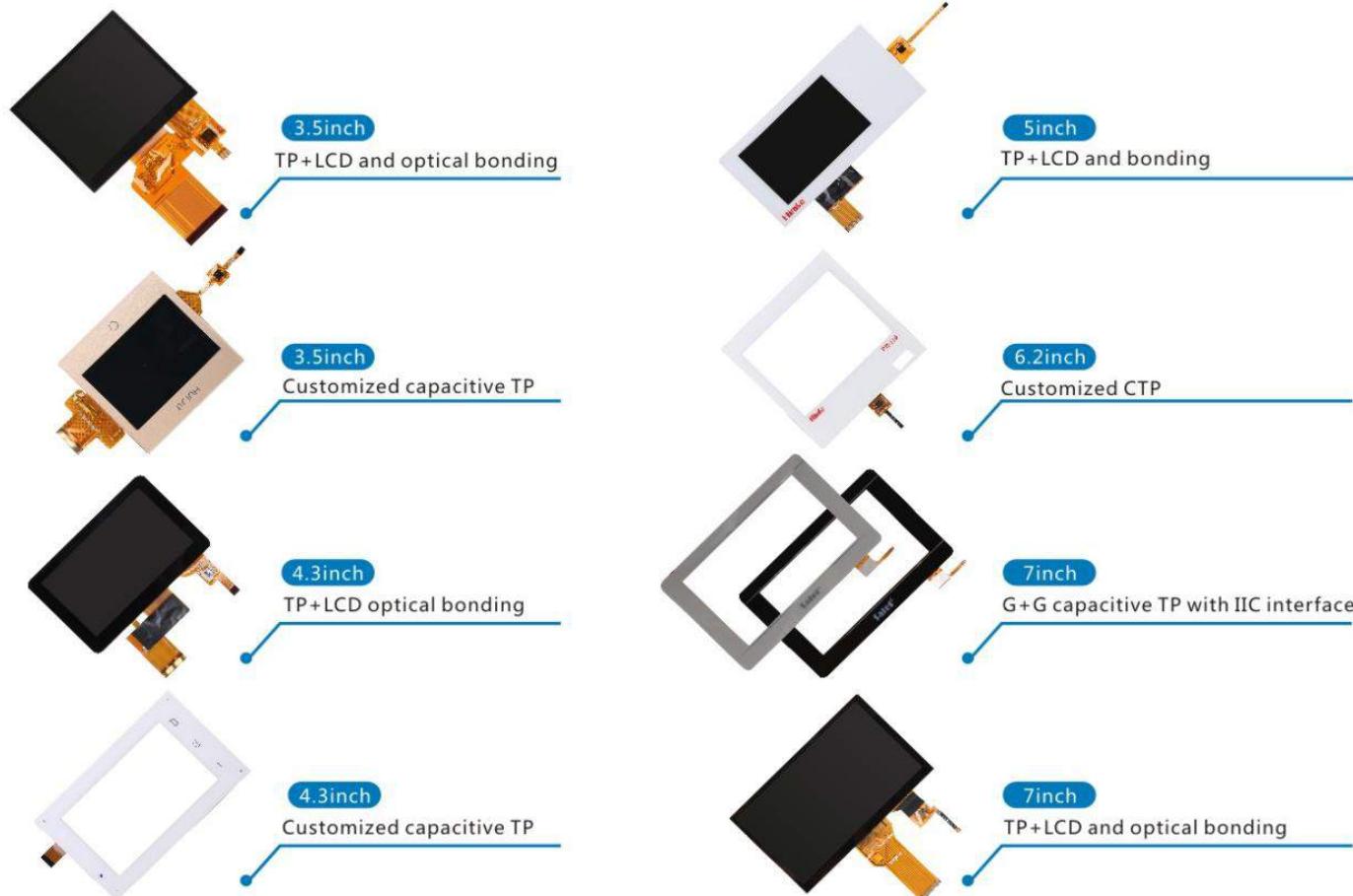


Product feature 产品特性

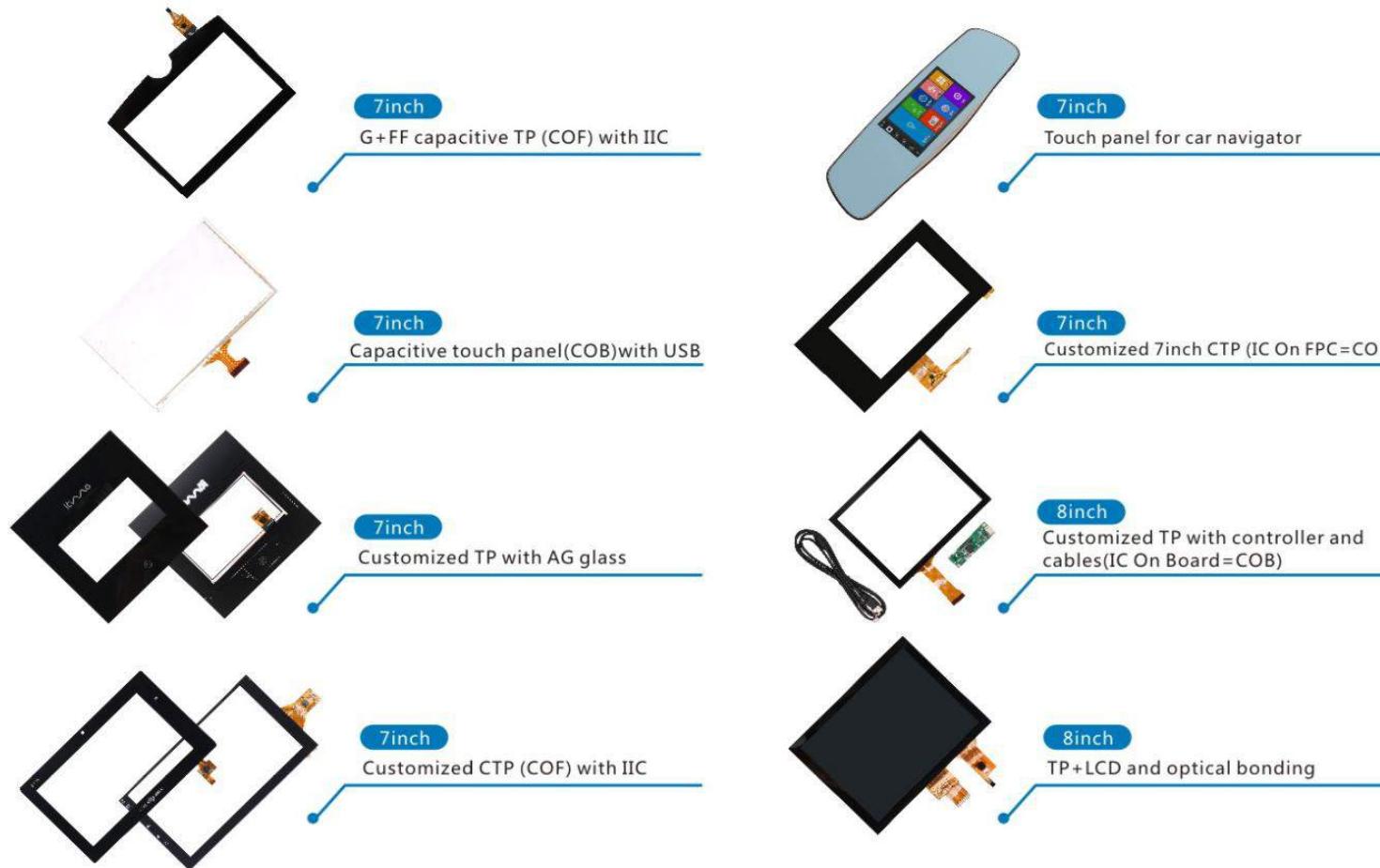
Circuit grade : 5V DC ,35mA		3.3~5V DV,35mA
transmittance	FILM + FILM + GLASS > 78% FILM + FILM > 80% FILM + GLASS > 83% panel + OCA + FILM + FILM + OCAZ + plates > 78%	Life time of click : 100million times 5 wire > 3500million times Life time of cling : 10million times 5 wire > 500million times
	Contact chatter time : <10ms	Operating temperature : -20°C ~ +70°C
	Resolution : 4096*4096	Storage temperature : -30°C ~ +80°C
	Linear <1.5% (special requirements <1.0%)	Glass thickness : 0.55mm/0.7mm 1.1mm/1.8mm/3.0mm
	Operating pressure : 60g~150g	Type of glass : common/chemical

电路等级:5V DC ,35mA		3.3~5V DV,35mA
透光率	FILM + FILM + GLASS > 78% FILM + FILM > 80% FILM + GLASS > 83% 面板+OCA+FILM+FILM+OCAZ+承托板> 78%	敲击寿命：大于100万次 其中5线大于3500万次 笔划寿命：大于10万次 其中5线大于500万次
	触点抖动时间：<10ms	操作温度：-20°C ~ +70°C
	分辨率：4096*4096	储存温度：-30°C ~ +80°C
	线性<1.5% (特殊要求<1.0%)	玻璃厚度：0.55mm/0.7mm 1.1mm/1.8mm/3.0mm
	操作压力：60g~150g	玻璃种类：普通玻璃/化学强化玻璃

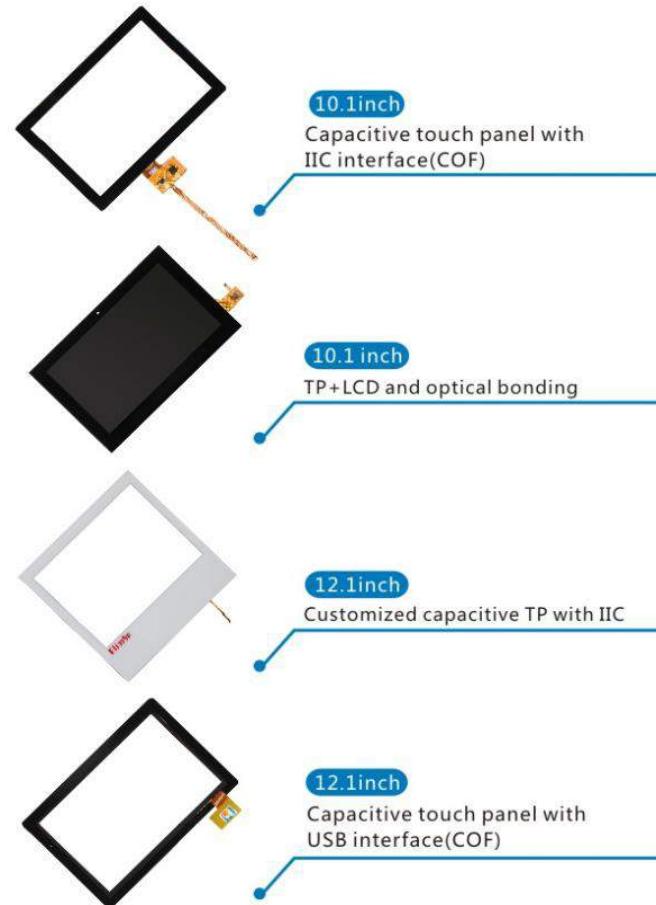
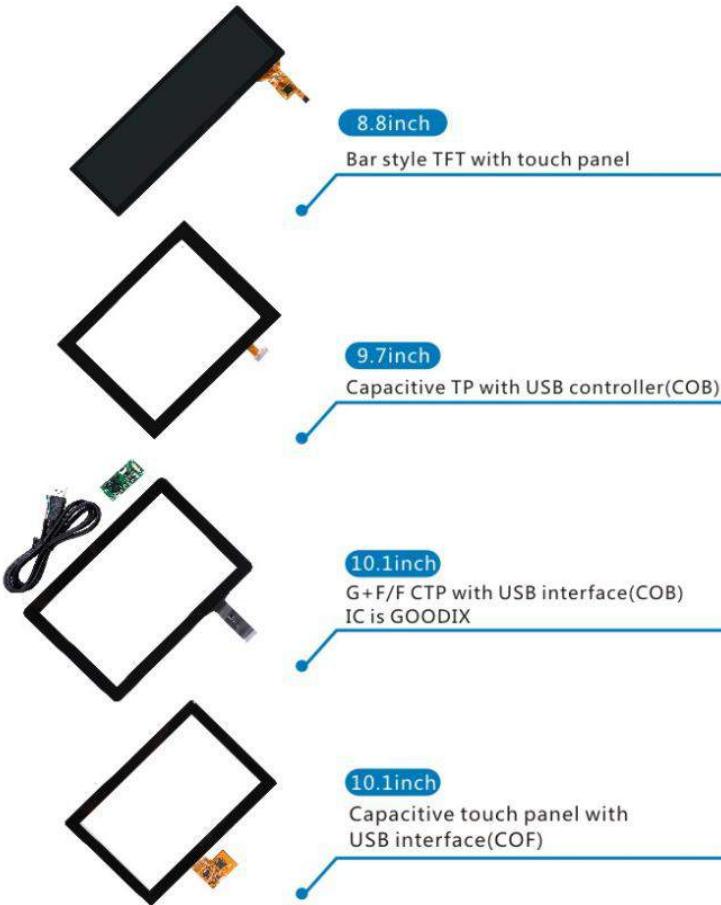
Case show 案例展示



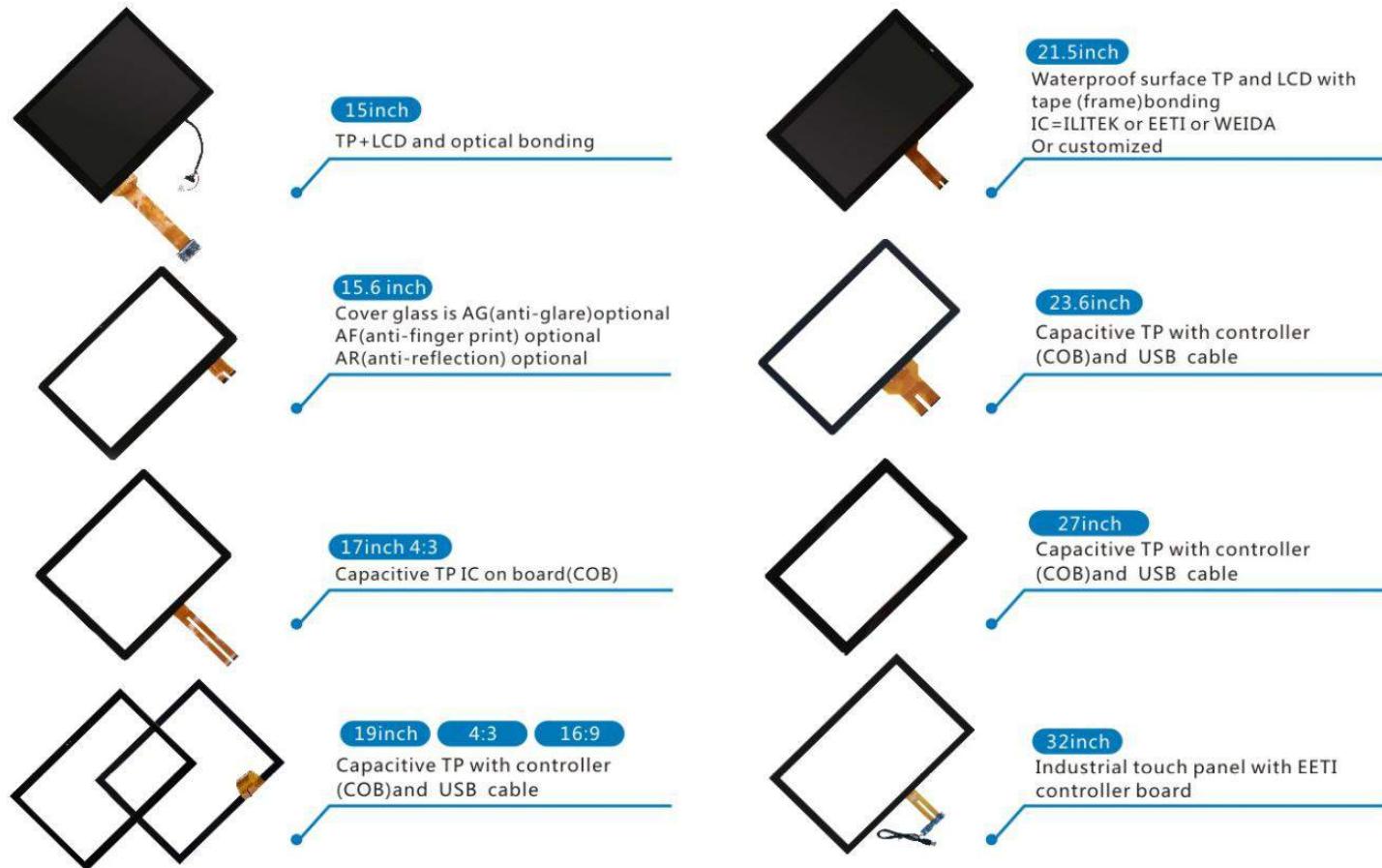
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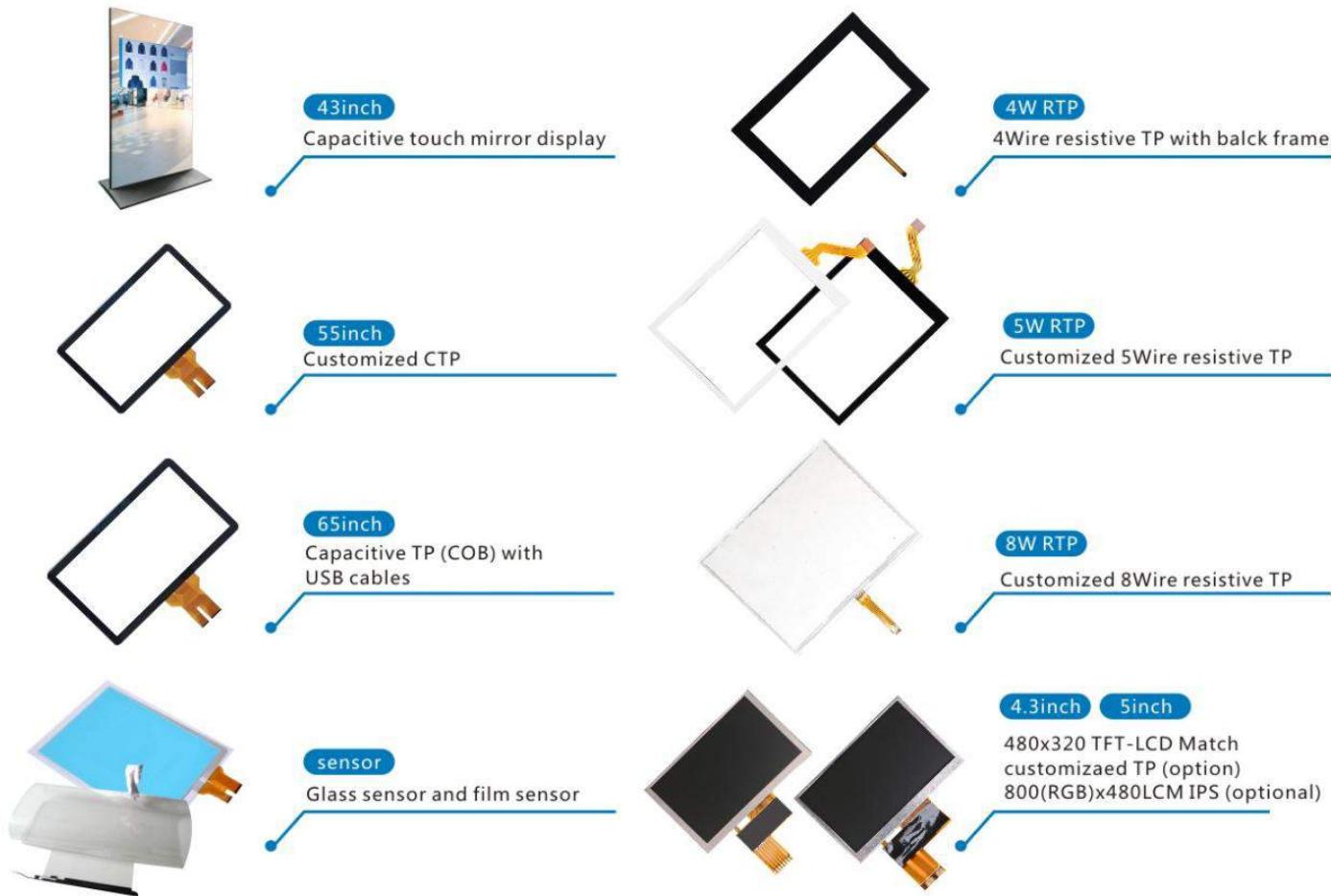
Case show 案例展示



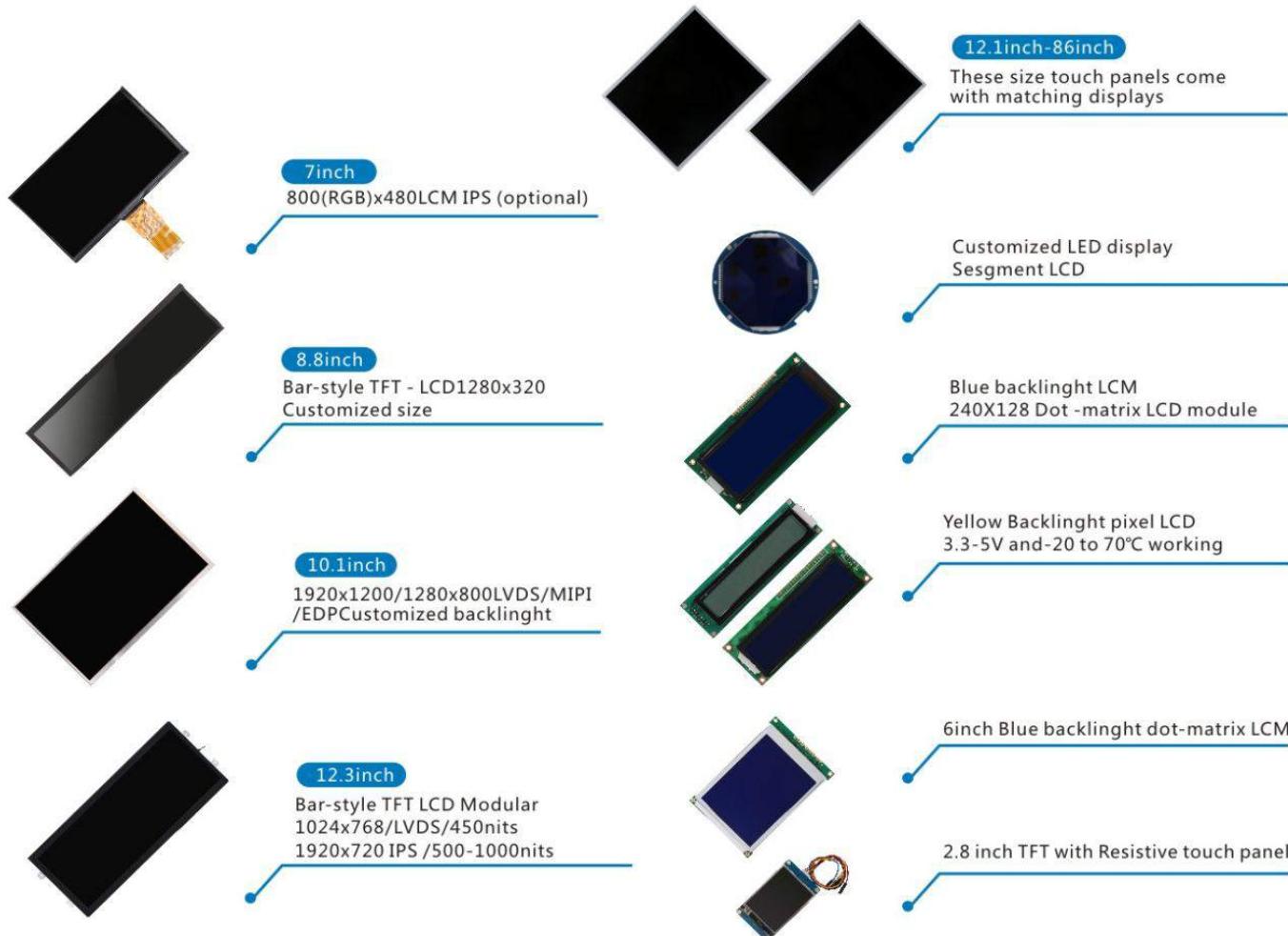
Case show 案例展示



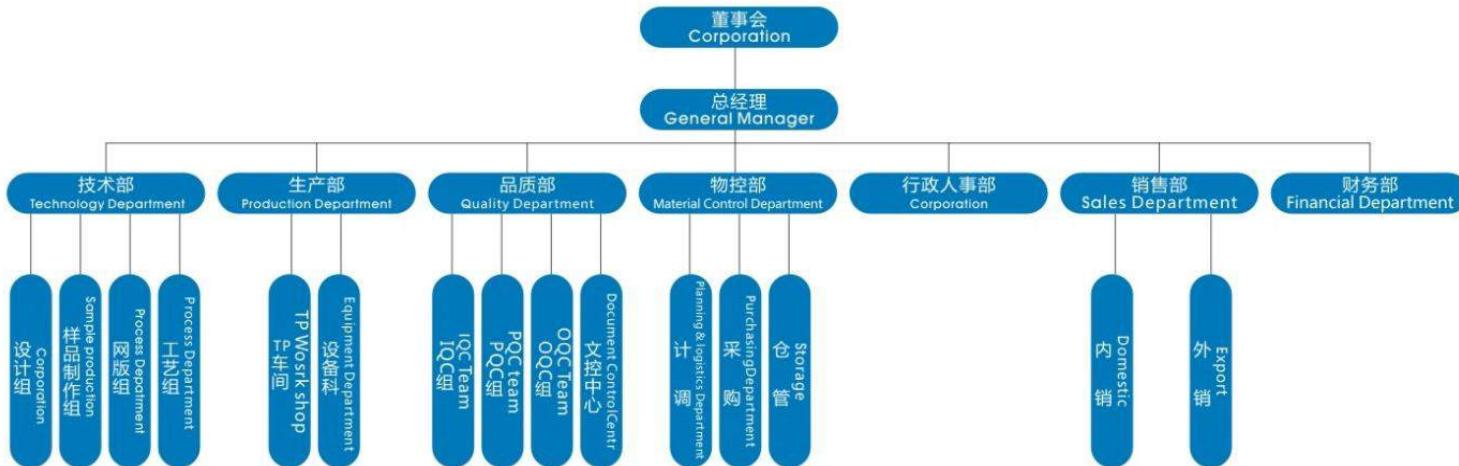
Case show 案例展示



Case show 案例展示



Organizational structure 组织架构



Company quality objectives 公司质量目标

1. The customer return rate : within 2000PPM
2. Customer promise rate : 100%
3. Customer satisfaction : ≥98%
4. The qualification rate of the manufacturing process : ≥90%
5. The rate of customers complains : 100%

- 1.客户退货率：2000PPM以内
- 2.客户承诺实现率：100%
- 3.客户满意度：≥98%
- 4.制造过程合格率：≥90%
- 5.客户有效投诉处理率：100%

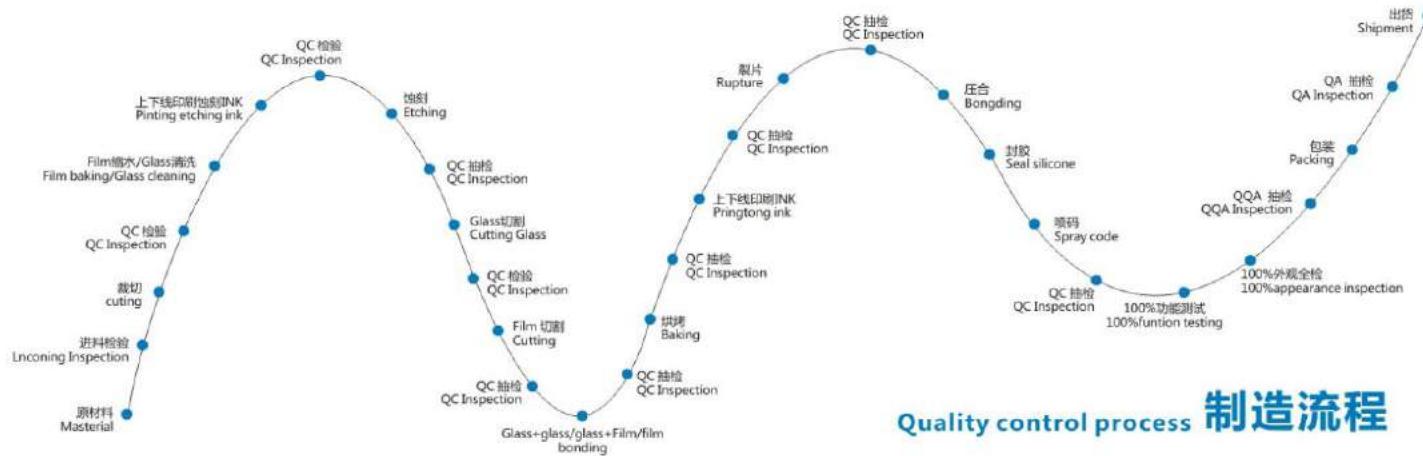
Quality policy 品质政策

Popularize the quality consciousness,to carry out the management authorities and responsibilities clear,accurate delivery establish documented procedure of quality records,
普及全员品质意识，落实管理权责分工与整合，准确供货，掌握需求。
保存准确及清楚的品质记录，持续改善。

Formula quality policy 公司质量方针

Quality first,reputation first,management is base,service first
质量为先、信誉为重、管理为本、服务为先。

Manufacturing Process 制造流程



Quality control process 品质控制流程

Process	Control Process	Method	Content	Department
1	TQC Material for processing	Sampling inspection	1.New material:ITD rawmaterial, ink, oil purchased from famous foreign Sampling manufacturer(Oike Asahi, Nitto Toyobo).In order to make sure about inspection the quality of the material, confirm the samples and small Batch trial produce. The inspector must check every single part before product.	IQC QA
2	The production process inspection	All inspection	IPQC monitor the production process and quality maintenance.	OQC
		Sampling inspection	Each working procedure have operator self-inspection, QC require 100% inspection accuracy	IPQC
		Patrol inspection	Patrol inspectors do patrol inspection during production PPAP's MSA's inspection FMEA SPC is the inspection methods.	IPQC
3	Inspection of finished product	Sampling inspection	1.A functional test: 100% use the linear test machine; before delivery multimeter confirm again. 2. Visual inspection: 100%	IQC QA
4	Reliability test		1.Name development (new material, new technology new structure)must do reliability test; 2.The product of main customers will do reliability test every quarter. Environment reliability testing (High- low- and constant temperature/humidity chamber) & Life reliability test (Life span test machine)	QA
5	Customer Complaint handling		The customer in the province we will send the specialists to confirm analysis and improvement measures. ID report form feedback customer in 3 days.	QE

流程	控制工序	方式	工作内容	部门
1	IQC 来料控制	抽样检验	1. 新开发物料、IQC原材料、油墨等关键物料，均从原厂或厂家(Oike, Asahi, Nitto Toyoboshi)采购，先进行理化试验，再批量进厂，再批量测试，确保材料品质。 2. 批量采购的主要原材料：IQC按照GB/T2828-2003 正常检验的抽样方案，一般按技术要求100%全检。	IQC QA
2	生产制程 检验	全数检验	首工段通过由IPQC对生产过程进行监控及品质维护，前工序对每一产品的外观和功能进行严格监控、测试，确认合格后才准许流到下一道工序。	OQC
		抽样检验	首件确认：每个工序的由操作者自检，源品师和班底干部进行首件确认，要求首件请认证率达到100%。	IPQC
		巡查检验	巡查生产过程由质量组进行不间断巡检，并填写巡检记录，在扭矩、贴合、压合、热压合等环节时对关键质量点运用QC七大手法、PPAP、MSA、FMEA、SPC等进行管控。	IPQC
3	成品检验	抽样检验	1. 功能性(或可靠性)测试机(片)100%用功能性测试机测试端电容。电堆组件及线性，出货前再用万用表测量端电容。 2. 外观检验(经检测相关图片)被检验标准100%外观检验	IQC QA
4	可靠性 测试		1.新开发(新材料、新工艺、新结构)产品必须进行可靠性测试。 2.大客户的品质管理体系执行例外可靠性测试。环境可靠性测试包括恒温恒湿、寿命可靠性测试(寿命测试机)	QA
5	客诉处理		省内客户在24小时内各处客户现场核实，原因分析及改善措施3天内以书面形式反馈客户。	QE



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