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深圳市晶泰液晶显示技术有限公司

Shenzhen Jingtai Liquid Crystal Display Technology Co., Ltd.





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CERTIFICATE & HONOR







Date of Establishment

- Shenzhen Jingtai LCM: Sep. 2007
- Huizhou Jingtai LCM: Sep. 2023

(Huizhou Jingtai is a wholly-owned subsidiary of Shenzhen Jingtai)

- Registered Capital (CNY): 20 Million (Chinese Yuan)
- Number of Employees: Over 700
- Main Product : TP+TFT LCD Module (TLCM)

Business Philosophy:

Dedicated to the research and production of high-tech products, providing customers with high-quality display products and contributing to the technological development of the industry

Enterprise Vision:

Becoming a leading enterprise in the global display product field





ABOUT JINGTAI























- ✓ Main Product: TP+ TFT LCD Module
 - From designing to manufacture
 - Full lamination technology
 - Blind hole phone screen
- ✓ Product Application:

Our LCM products can be used on smart phones, smart wearable devices, industrial control, consumer electronic products, finance, education and other electronic products.



Smart Phone



e Smart Watch



POS Machine



Smart Home



Video Telephone



Machine/Pen



Facial Recognition POS Machine

About Huizhou Jingtai Industrial Park









ENGINEERING & RESEARCH AND DEVELOPMENT















4 Core Processes of LCM Manufacture





Glass Inspection



Polarizer Attaching Machines





COG Bonding



PAD Automatic Cleaning



Automatic Washing

Grinding

Automatic Glue Drying



Automatic CF/TFT Polarizer Attaching



Visual Inspection



FOG Electrical Measurement Inspection



Electrical Measurement Inspection



Degas



Visual Inspection and Semi-product Collecting



FOG Bonding

AOI Automatic Inspection





3 in 1 Glue Dispensing

LCM Core Process: Full Lamination





TP Functional Test



OQC/TP Functional Test



OQC Visual Inspection



TP&CG Cleaning and Visual Inspection



OQC Functional Test



1st Blind Hole Glue Dispensing



UV Oven



Semi-product Collecting



Automatic Matching



FOG Functional Test



Full Lamination Degas



Cleaning & Visual Inspection

LCM Core Process: Backlight Unit Assembly









QR Code Scanning



FPC Matching & Folding



FOG/BL Automatic Assembly



OQC Visual Inspection



Packaging



2nd Blind Hole Glue Dispensing



OQC Electrical Measurement Inspection



Warehousing



Blind Hole Light Leak Inspection



Visual Inspection



Automatic QR Code Printing



3 in 1 Automatic AOI Inspection





PRODUCTION CAPACITY & EQUIPMENT



> Production Capacity:

- 8 Automatic LCM Production Lines: Production capacity is 2.4KK a month,
- 8 Full Lamination Lines: Production capacity is 2.4KK a month,
- Blind Hole Production Line: Production capacity is 800K a month

Production Equipment: Used in Process of Polarizer Attaching



Process	Polarizer Attaching	Polarizer Attaching	Polarizer Attaching Inspection	
Machine				
Machine Name	Automatic grinding, cleaning and Polarizer Attaching Machine	Automatic grinding, cleaning and Polarizer Attaching Machine	Automatic Polarizer Attaching Inspection Machine	
Model	ATP-A08M-G	LCAB-A08VA-B	LH-T2000I	
Number of Machine	2 4		1	
Size of LCD Panel	el 3-8" 3-8"		0.96-11"	
Production Capacity (10 h)	11K	11К 22.5К		
Accuracy	X:±0.15mm,Y:±0.15mm X:±0.1mm,Y:±0.1mm		Omission Ratio≤0.3%, Fall-out ratio < 6%	

Production Equipment: Used in Process of COG&FOG Bonding (1)



Process	COG Bonding	COG Bonding	FOG Bonding		
Machine					
Machine Name	Automatic COG Bonding Machine	Automatic COG Bonding Machine	Automatic FOG Bonding Machine		
Model	SCL-2000	FPX-005CG	SFB-2000J		
Number of Machine	4	2	4		
Size of LCD Panel	3-8″	1.3-10.1"	3-8″		
Production Capacity (10 h)	30К	16K	30К		
Accuracy	ACF Bonding Accuracy: X:±0.2mm,Y:±0.1mm; COG Bonding Accuracy: X:±0.03mm,Y:±0.03mm; FPC Bonding Accuracy: X: ±0.1mm,Y:±0.1mm				

Production Equipment: Used in Process of COG&FOG Bonding (2)



Process	FOG Bonding	AOI Inspection	3 in 1 Glue Dispensing	
Machine				
Machine Name	Automatic FOG Bonding Machine	AOI Particle Indentation Inspection Machine	Automatic 3 in 1 Glue Dispensing Machine	
Model	BMX-6000	AK2S1L-COF-0107/EST-AOI-2207C	CDY616	
Number of Machine	2	5	6	
Size of LCD Panel	1.3-10.1"	1.3-10.1"	3-8″	
Production Capacity (10 h)	16K	46K	46K	
Accuracy	ACF Bonding Accuracy: X:±0.2mm,Y:±0.1mm; COG Bonding Accuracy: X: ±0.03mm,Y: ±0.03mm; FPC Bonding Accuracy: X: ±0.1mm,Y: ±0.1mm;			

Production Equipment: Used in Process of Full Lamination



Process	Silicone Dispensing	Full Lamination	1 st Blind Hole Glue Dispensing		
Machine					
Machine Name	Automatic Silicone Dispensing Machine	Automatic Vacuum Full Lamination Machine	Semi-automatic Round Hole Glue Dispensing		
Model	CDY-909	LCAAL-A08VA-G	HSPM-AS5500		
Number of Machine	2	3	3		
Size of LCD Panel	3-8″	3-8″	3-8″		
Production Capacity (10 h)	27К	27К	ЗК		
Accuracy	Soft to Hard Accuracy: X: ± 0.1 mm,Y: ± 0.1 mm; Hard to Hard Accuracy: X: ± 0.05 mm,Y: ± 0.05 mm;				

Production Equipment: Used in Process of Backlight Unit Assembly



Process	Backlight Unit Assembly	2 nd Blind Hole Glue Dispensing	Finished LCM AOI Inspection		
Machine					
Machine Name	Automatic B/L Assembly Machine	Semi-automatic Round Hole Glue Dispensing	3 in 1 Screen Inspection Machine		
Model	KDY-BL1000T7/KDY-BL1000TX4	HSPM-AS5500	ET545		
Number of Machine	6	3	8		
Size of LCD Panel	1.3-8″	3-8″	3-8″		
Production Capacity (10 h)	46K	ЗК	24К		
Accuracy	B/L Assembly Accuracy:X: ±0.1mm,Y: ±0.1mm;Blind Hole Glue Dispensing:Concentricity≦0.1°				





QUALITY ASSURANCE

Jingtai Quality Assurance---Process Assurance





Jingtai Quality Assurance--- Delivery Assurance



Inspection Process



OQC Requirements:

- 1. OQC establishes a time sharing report and provides feedback on the batch return rate every 2 hours. If the batch return rate exceeds 10%, the 2H product will be returned for production and rework. If the batch return rate exceeds 20%, the production line is required to stop and review the reasons; ;
- 2. When OQC detects functional defects such as white screen abnormal lines, the engineering analyzes the cause and OQC returns the batch+ the last two batches to production rework;
- 3. After batch returns and reworks, and NG occurs again in spot-check, OQC has the right to conduct trap testing on the batch of products until production rework picking out defect products;
- 4. Ensure customer online ≤ 2880DPPM

Jingtai Quality Assurance---Human Resource



New Worker Training

- a. Basic defect name legend recognition
- b. Use of inspection tools
- c. Training on inspection standards and SIP/SOP

training

d. Physical sample training

Assessment & Work Training

- a. Limited sample training, every Tuesday/Thursday training to strengthen the grasp of samples
- b. Training on omissions, OQC TOP training
- c. From OQC omissions to SI TOP training and collected 10pcs

of restricted sample edges for blind testing

Standard Change & Sample Management

- a. Face to face counting and verification of restricted samples between teams, and management of duplicate samples
- b. Communication of customer standards rationality and changes, promoting electronic management of samples

Inspection Ability Improvement

Off-work Training Mechanism

- a. Blind test for worker who missed the inspection and returned more than 2 batches on the same day.
- b. For worker who have three batches return within 3

days, laid-off retraining will be adopted, and they can

only be on work after passing the re examination.

Missing Detection DOA TOP Training

- a. Weekly CS sampling, blind inspection of defective products, and assessment of omission ratio risks.
- b. Develop a training plan after studying thedifferences in methods and tools for defectiveproduct inspection.

Team Leader Training

Teaching methods, participating in guidance, independent handling, etc., Y20 goal training 4 team leaders with engineer abilities, each team leader's goal is to bring out 4 multi skilled workers or job responsibilities with team leader abilities, enhancing team strength

Jingtai Quality Assurance--Reliability Assurance





Tool: constant temperature and humidity machine

Quantity: 5



Tool: Soft Static Pressure Tester Quantity: 1



Tool: Thermal Shock Tester

Quantity: 2



Tool: PV Impact tester

Quantity: 1



Tool: salt spray tester

Quantity: 1



Tool: Pulling Force Tester

Quantity: 2



Tool: Power Frequency Vibration Tester

Quantity: 1



Tool: RoHS 2.0 Analyzer

Quantity: 2



Tool: UV Accelerated Weather Resistance Tester

Quantity: 1



Tool: FPC Folding Resistance Tester

Quantity: 1

Jingtai Quality Assurance—Quality Test Tools





Tool: 2D Measurement

System

Quantity: 3



Tool: contact

Quantity: 1

angle

Test





Tool: CA-310 Color



- Tool: ESD Tester Quantity: 1
- Tool: Broad Exposure 903 Tester Quantity: 1





Tool: Particle Tool: Thrust meter Concentration Meter Quantity: 1

neter Tool: Altimeter

Quantity: 1



Analyzer

Quantity: 2

Tool: QR Code Classification Meter

Quantity: 1



Tool: Transmittance tester

Quantity: 1



Tool: Stress Tester Quantity: 1

Jingtai Quality Control---Client Satisfaction Assurance



	Assure Cpk1.33 Standard		Machine	Quantity	Test	
	Assure Cpk1.55 Standard		CA - 310	2	Optical Property CPP Determination	
			2D	3	Size CPP Determination	
CA-310	2D	RA Tester	Share & Peel off Tester	FPC peel off tester	1	FPC Bonding Test
	20	INA TESTET		IC Share Tester	1	IC Bonding Test
Optical Property Grayscale Determination & Flicker Uniformity Contrast	LCM Size Determination; Core Dimensional Tolerance; Reliability Test; Spot Check by Product;		Height guage	1	Product Thickness CPP Determination	
		onal Spot Check by Product; Monthly Spot Check; Spot Check by	Bonding Test; Spot Check by Pressure Head; Spot Check by Production Team	Optical Align	3	Panel & BLU/TP Automatic Assembly
	BLU Assembly Tolerance; TP Lamination Tolerance					
Optical Property Management	Product Size Management	Reliability Assurance				
Clients' Requirements						





CERTIFICATE & HONOR

System Authentication

- ISO9001:2015 Quality Management System
- ISO14001:2015Environmental Management System
- ANSI ESD S20.20-2014ESD Electrostatic Discharge Control Program
- IECQ QC080000:2017 Hazardous Substance Process Management System
- IATF16949:2016 Automotive Quality Management System



Jingtai has obtained multiple international authoritative management system authentications.

We have adopted ERP system, our products are manufactured according to environmental standards such as RoHS、 REACH、 halogen-free, etc.







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Jingtai LCM Empower Client Success!