



湖南飞优特电子科技有限公司

Hunan Future Electronics Technology Co., Ltd



创新科技 引领视界
Innovative Technology Leads the Vision

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About Us-History



Shenzhen Future was
founded in 2005



Certified ISO9001/2002
Certified ISO14001/2004 in 2007



Established LCM line in 2005, Established
TFT Division & production line in 2013



Factory Moved to Hunan and built
two full-automatic LCD lines in 2017



Certified ISO9001/2015

Certified ISO14001/2015 in 2018



Certified IATF16949 in 2019

Established University Research Base

Increased 12 FOG&COG Full-Automatic lines in 2021



Built the new TFT and CTP production
line in Chenzhou in 2022

About us-General information

Established: Sep, 2005

Capital Stock: \$10million

Employees: 800+

Headquarters: Hunan Province ,China

Branch: Shenzhen, Zhejiang, Hongkong, Japan

Website: www.future-displays.com

Main Products : Mono LCD Display, LCM,
TFT Module, CTP, OLED



Company Location



1 Head office/Factory(Yongzhou,Hunan)

With 17,000 square meters and 800 employees, Manufacturing LCD screen, LCM module, TFT module, TP, OLED etc.

2 Sub -factory (Chenzhou,Hunan)

It covers an area of 25,000 square meters
Expected to run MP in 2023
Mainly Produce TFT module, CTP, OLED.

3 China&oversea Offices(Shenzhen&JP&HK)

Employees: 80+
FT R&D & purchasing & management Dept, as well as the headquarters of domestic and foreign marketing teams, also HK,japan`s Office.

4 East China Sales Office (Hangzhou)

Address: building 611 , Shangcheng Ring Yicheng 1
, Hangzhou , China

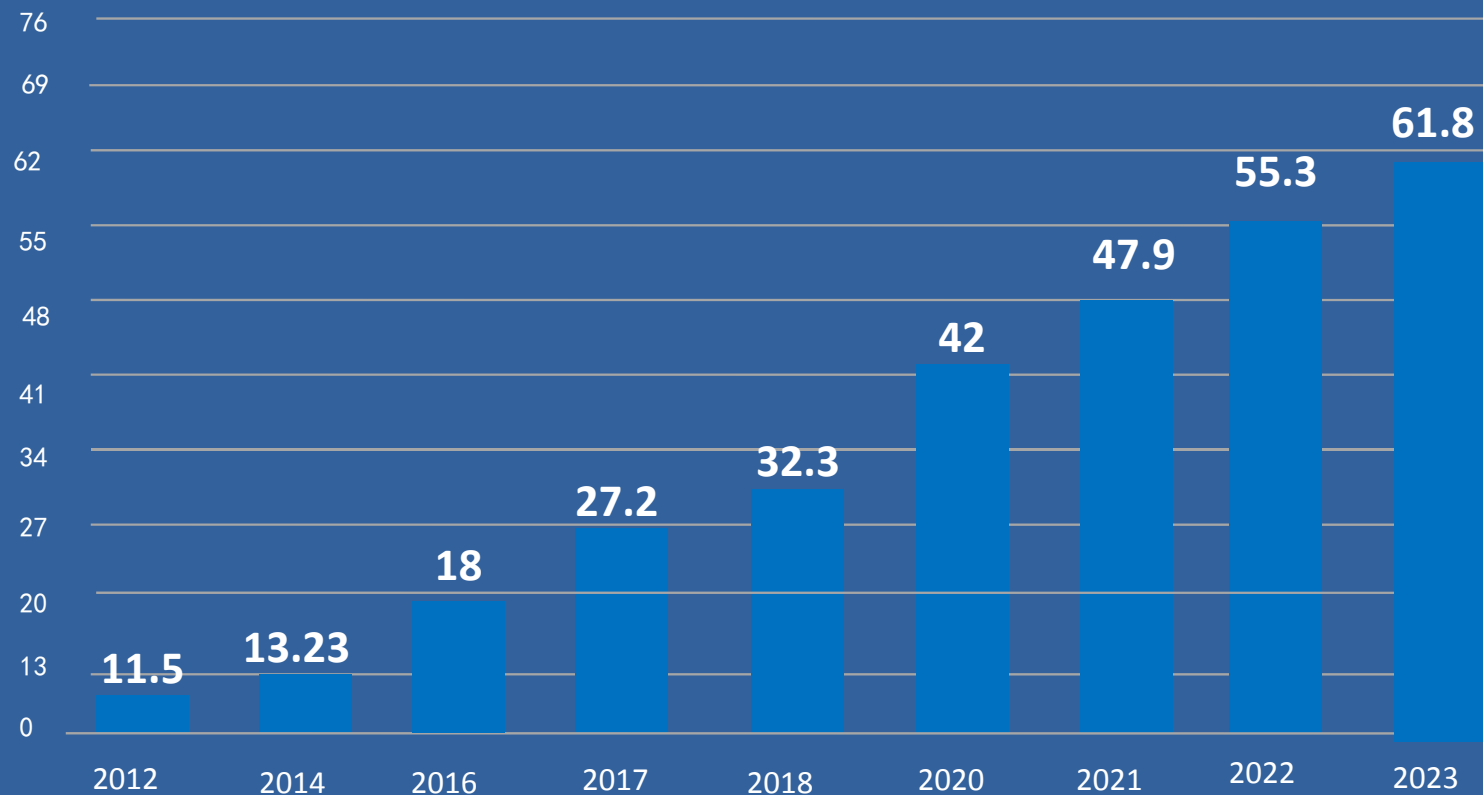
Business turnover (USD million)



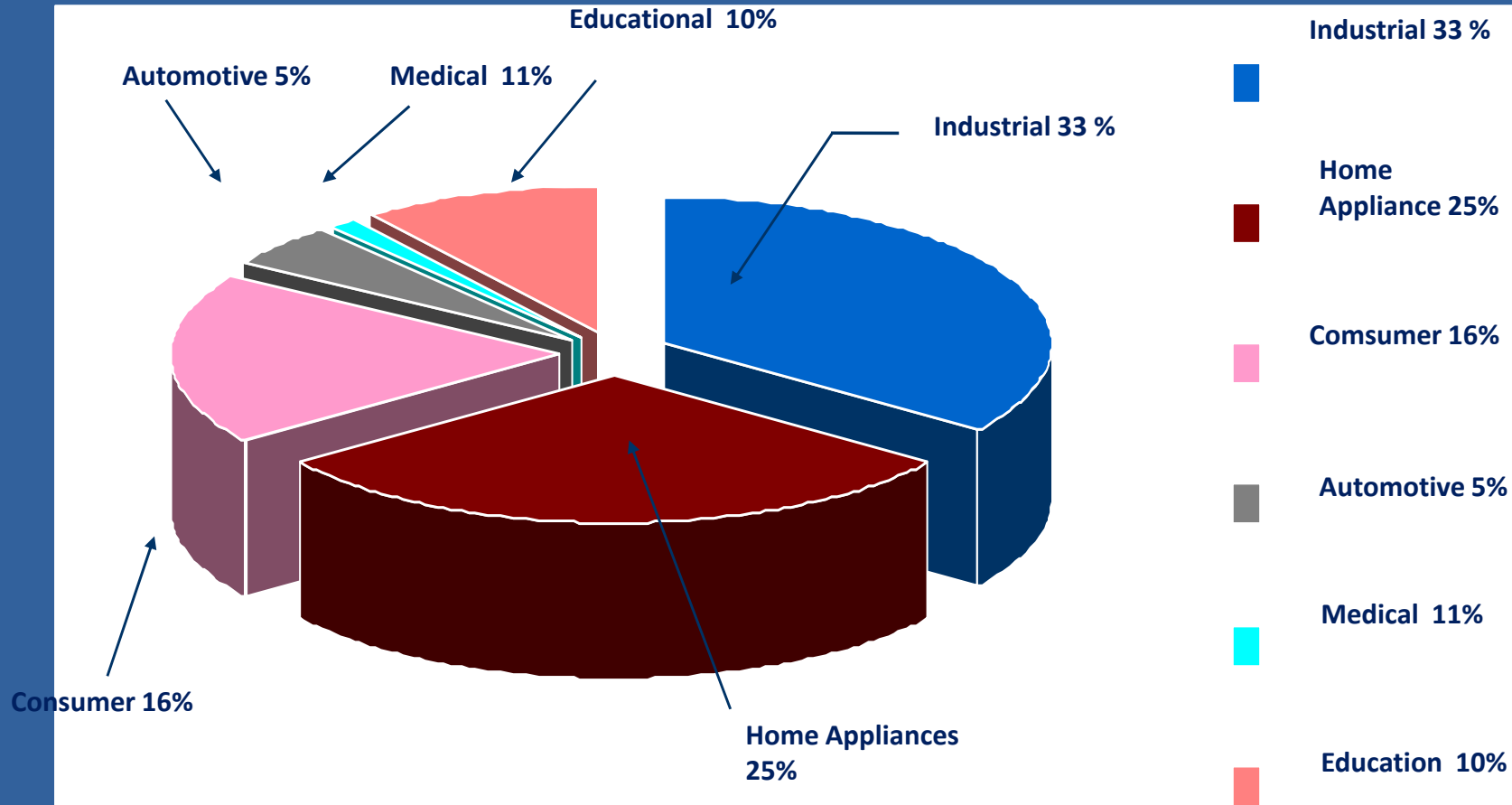
1. Grateful for the trust of our customers

Grow 3 times from 2016 to 2023

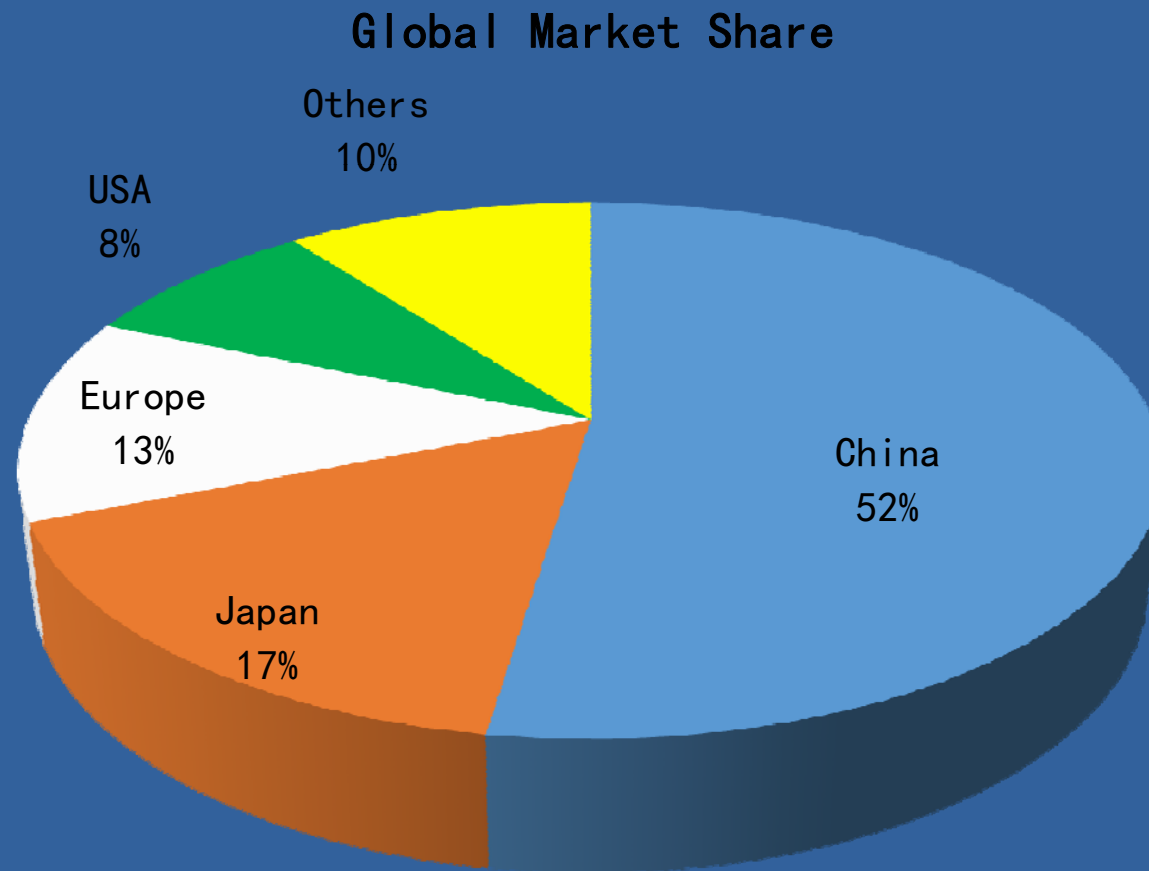
2. Aim to increase business turnover by 4 times in FY2025 compared to FY2016



Market Share of Application Field



Global Market Share



Production Capacity



Years Capacity	2019	2020	2021	2022	2023	Next 5 Years (Target)	Remark
LCD	1.8	2	2.5	3	3.3	6	K sheets/Day
LCM	50	60	80	90	100	200	K pieces/Day
OLED	4	5	6	8	10	60	K pieces/Day
PCBA	5	5	10	15	20	50	K pieces/Day

About us-Company Culture



Vision

To be the global innovative
enterprise
in the display field

Mission

Innovative technology
Leading the horizon

Philosophy

Sustainable management,
Continuous innovation,
Future technology Leader,
for customers, for employees,
for the society to create value

Quality Policy

Quality-oriented
Management-oriented
Benefit-oriented
Win reputation with service,
Promote development with
innovation.

Main Product Specification-monochrome LCD, TFT



- Monochrome LCD
- LCD Panel, LCD Modules (COG, COB, TAB)
- Display Type: TN / HTN / STN / FSTN / VA
- STN Gray, STN Yellow/Green, STN Blue
- Display Mode: Transmissive/Transflective/Reflective
- Duty: Max 240
- Glass thickness: 0.4 mm / 0.55 mm / 0.7 mm / 1.1 mm
- Connector type: FPC / PIN/ Zebra
- Mono/Multi-color/Silk Printing
- Backlight Type: White, Amber, Blue, Yellow/green, RGB
- Operating temperature: - 40 °C~90 °C
- Customized

- TFT
- TN / IPS
- Transmission type: Transmissive / Semi Transmissive
- Display color: 65K/262K/16.7M
- Supply voltage: 2.8V-3.3V
- Glass thickness: 0.3mm/0.4mm / 0.8mm / 1.0mm
- Connector type : FPC
- Interface Type: IPS/MCU/RGB/MIPI/LVDS
- BL type: White LED
- Operating temperature: -30 °C ~ 85 °C
- OEM/ODM

Category-monochrome LCD

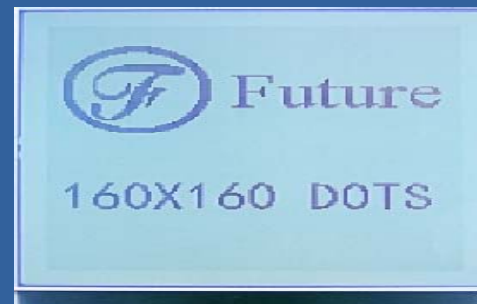
1. LCD Display Type (VA、DFSTN、FSTN、STN、HTN、TN)



VA



DFSTN



FSTN



FSTN



TN



HTN



STN



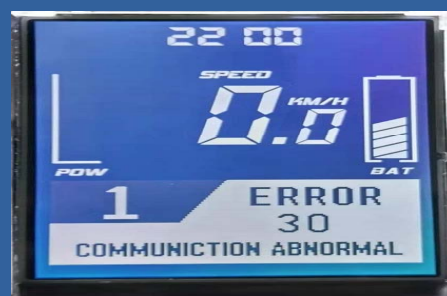
TN

Category-monochrome LCM

2. LCM (COG、FOG、COB、TAB、PIN、Assembly frame and other series)



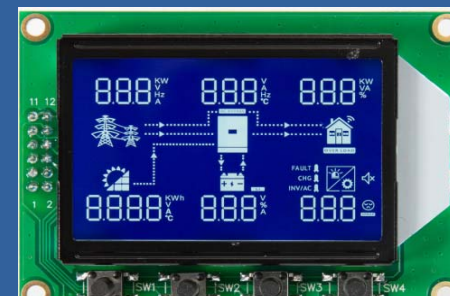
COG



COB



TAB



COB



LCD+PIN



COG



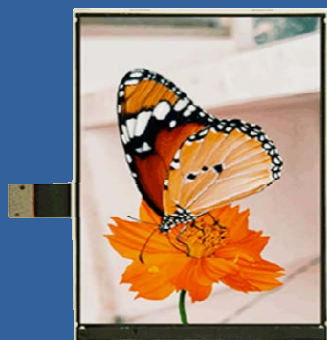
Assemble Frame



OEM

Category-TFT LCD

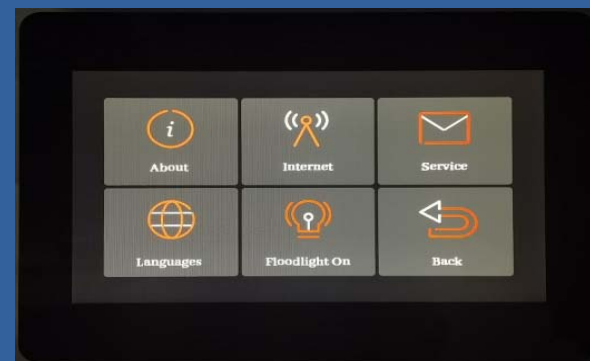
3. TFT Modules (0.96", 1.44", 2.4", 2.8", 3.0", 3.5", 4.3", 5.0", 7.0", 8.0", 10.1", 12.1" etc.)



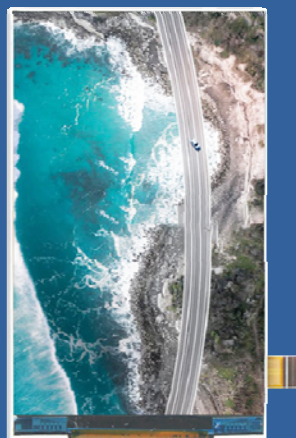
2.4"



4.3"



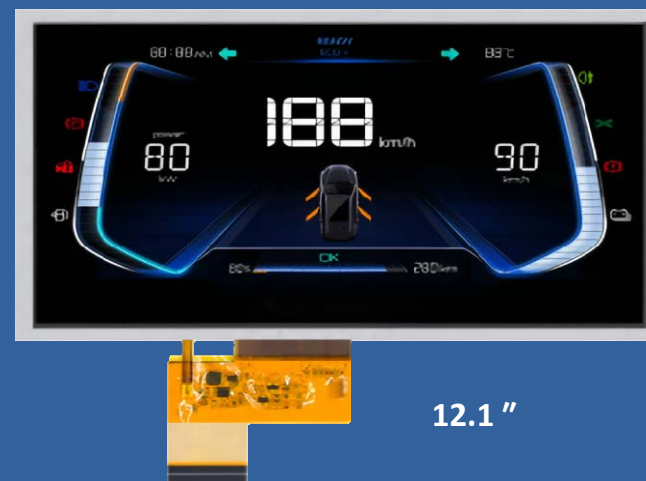
7.0"



5.0"



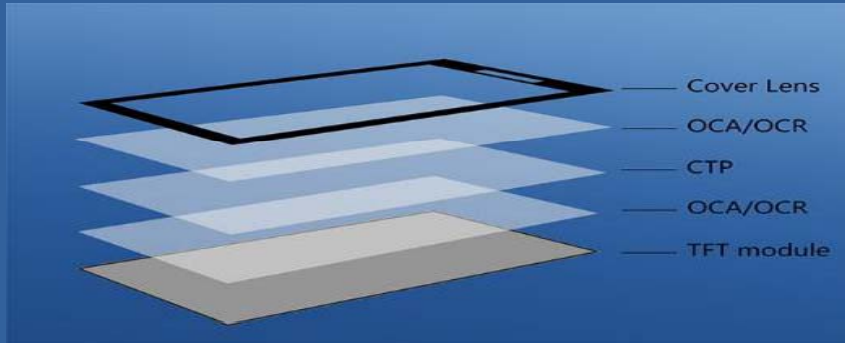
10.1"



12.1"

Category-TFT LCD

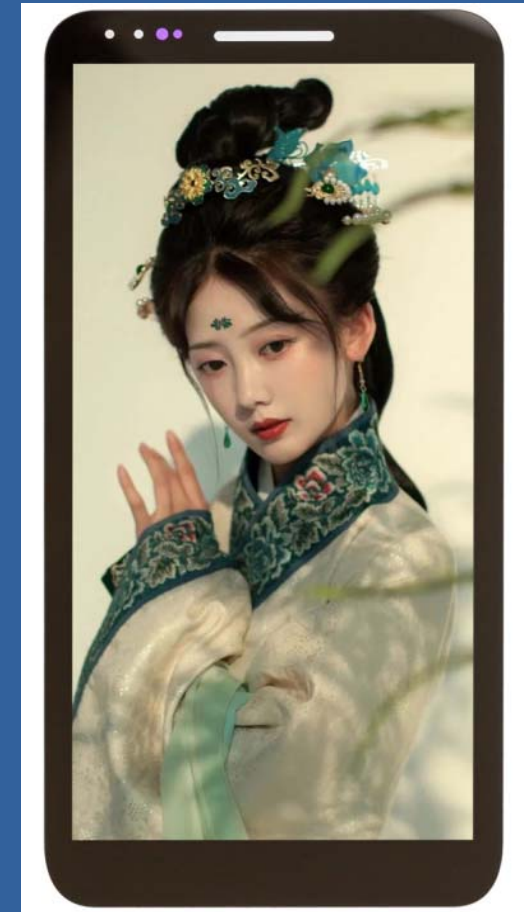
TFT +Customized Capacitive Touch Screen—Optical Bonding/Air Bonding



10.1"



4"



5.5"

Product applications



Smart Home

appliances, smart control, Elevator, etc



Industrial control

Instrument, Industrial Device, fuel dispenser, etc



Medical

Oximeter, Temperature Probe, Message Chair, etc



Finance

Handheld terminal, POS machine, etc.



Education

pad, Translation pen, etc.



Automotive

Display, GPS, Central control ,etc.

Product applications



Electronic Meter



Water Meter



Control System



Printer



Telephone



Printer

Product applications



Thermostat controller



Refrigerator



Rice Cooker



POS machine



POS machine



Industrial PAD

Product applications



Forehead thermometer



Blood Pressure Instrument



Blood Glucose Monitor



Elevator



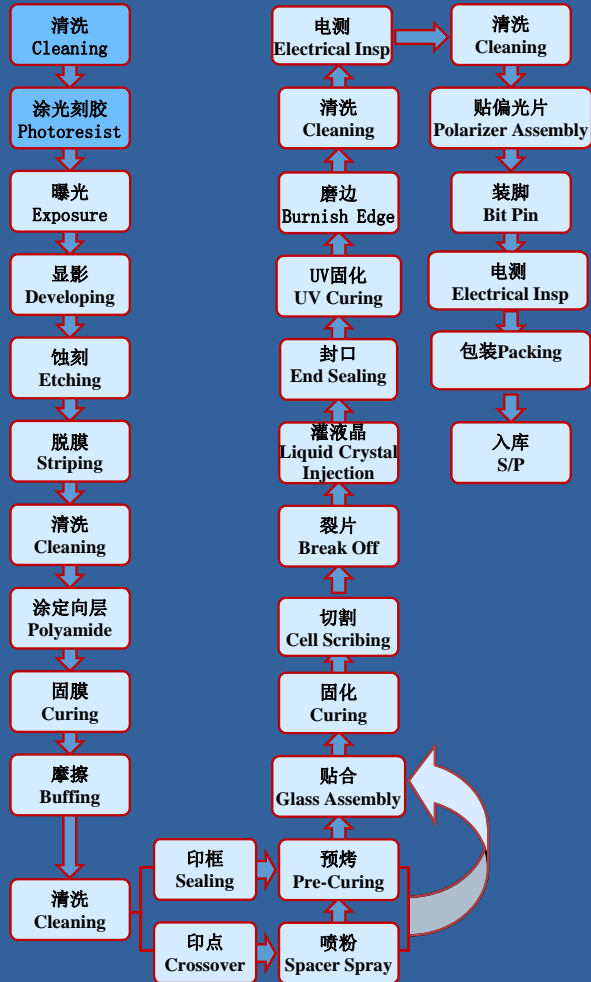
Central control



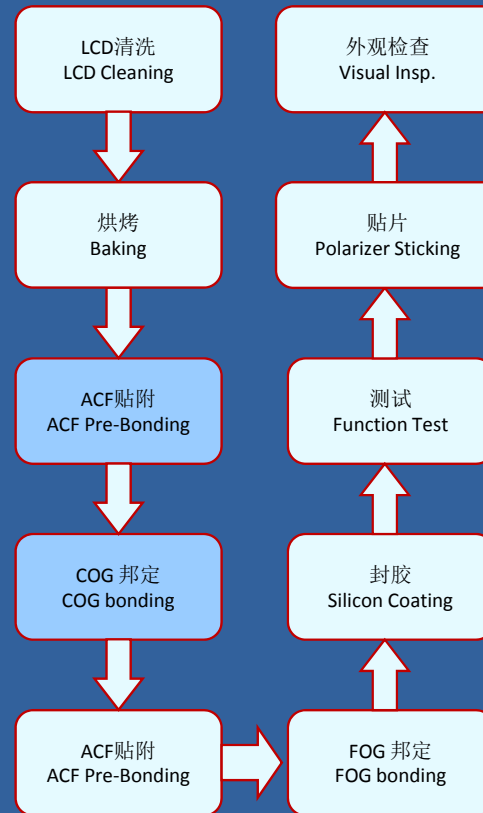
Central control

LCD, LCM, COG, COB production flow chart

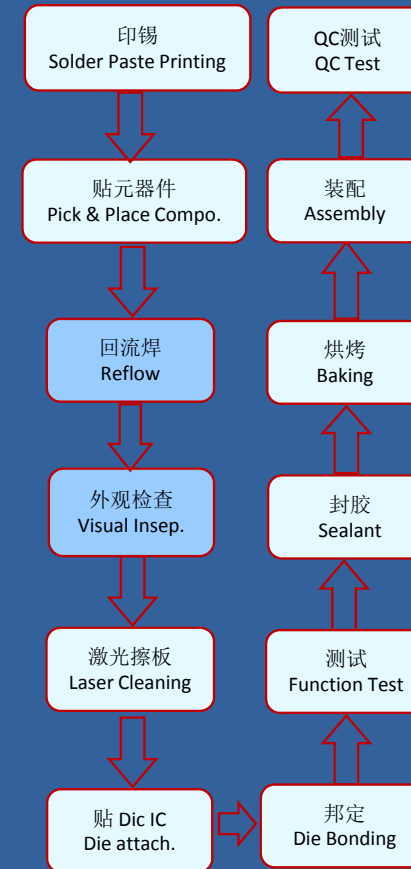
LCD



COG



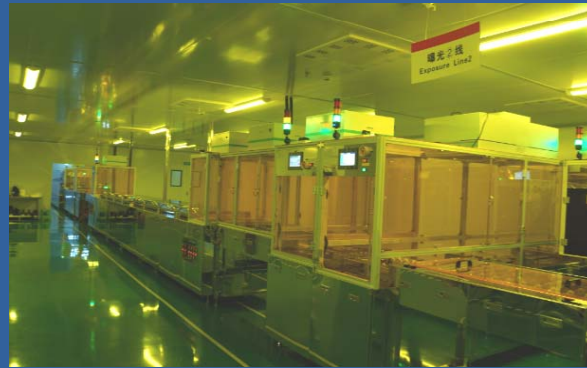
COB



LCD Production Line



Cleaning



Exposure



PI Process



Automatic Polarizer Assembly



Cutting & LC injection



Automatic Assembly line

LCM Production Line



TFT Production line



COG Production line



AOI Test



Fully Automatic Integrated line



Fully automated COG line



Clean assembly line

LCM Production line



Fully Automatic Polarizer Attach Line



Fully Automatic COG Line



Fully Automatic COG Line



COB Assemble Line

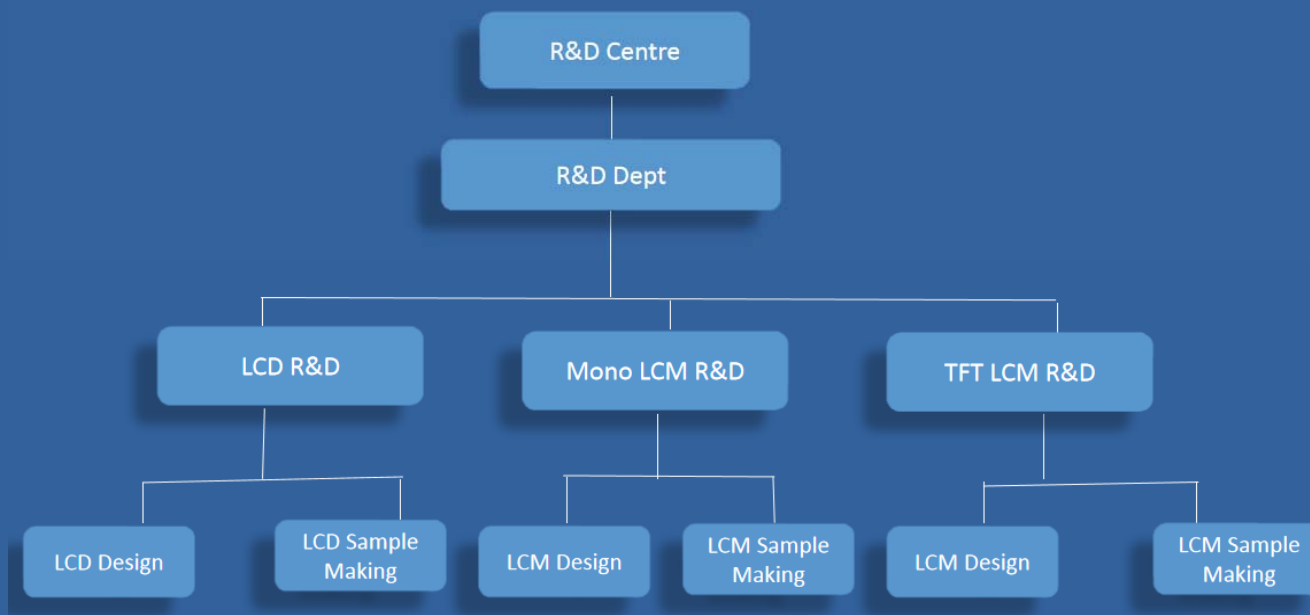


Fully Automatic Wash Line



Fully Automatic Wash Line

R&D Teams



38 patents have been applied and 25 patents have been granted, including 5 invention patents and 20 utility model patents!

R&D Laboratory



In order to carry out each verification item properly and to maintain the accuracy of the data, we installed a large number of test facilities in our company and installed the laboratory. The laboratory is certified by the Shenzhen government.



Part weldability

Instrument and equipment: soldering iron, temperature control equipment, analysis platform, exhaust equipment.
Function: mainly for parts welding, and desoldering, product analysis.



Assembly/visual inspection

Instrument and equipment: appearance inspection platform (standard light source), Nikon. Microscope, clean workbench.
Functions: mainly for LCM assembly, product analysis and appearance inspection.



Electrical measurement

Instrument and equipment: multimeter, oscilloscope, power supply, Open chamber, VG-859, ESD platform.
Function: product electrical measurement, high and low temperature characteristic inspection.



Optical measurement

Instrument and equipment: BM-5AS, BM-7A, SR-3, Signal generator VG-859, fully automatic optical measurement platform (DMS).
Function: module and backlight optical characteristic measurement.



Mechanical measurement/mechanism performance

Instruments and equipment: 2D, 3D measuring instruments, Instron 5965, Thrust Gauge.
Functions: module size measurement, strength test

Reliability test List

- Low temperature
- High temperature
- High temp& humidity
- Thermal Shock
- Drop test
- Hardness Testing
- Vibration test
- Tension test
- Salt fog
- ESD, EMC test



Thermal Shock Chamber



ESD, EMC Test



Salt spray Tester



Drop Tester



High temp& humidity Chamber



Vibration Tester

Certifications



ISO 9001

- Continue to improve in February 2018
- Reliability Assurance
- SPC
- 8D

ISO 14001

- 2020.06
- Environmental management
- Pollution prevention

Certificate of High tech Enterprise

- 2018 12.3
- Hunan Provincial Department of Finance
- State Construction Administration of Taxation
- Hunan Science and Technology Department

TS 16949

- 2020.6
- Vehicle parts application
- Main performance mark
- APQP / PPAP
- Manufacturer certification

SGS EU CE certification

- 2022.5.23
- ROHS2.0 Directive

Management Philosophy



Quality policy:

Early achievement of 10ppm shipping quality (quality improvement activities)
High-quality human resource development, thorough process control, and elimination of factors through periodic audits.

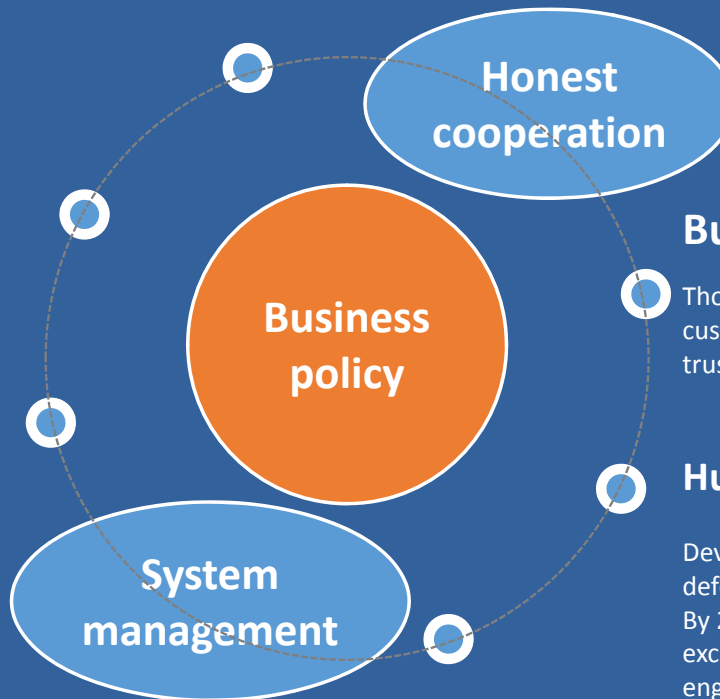
Quality measures:

Process control to achieve a defect rate of 10ppm (aiming to achieve 100% by FY2025)
Investigate the causes of defects (direct and motivational) and eliminate defects.

Manufacturing Policy: Establishment of a system to prevent defects through strict process control by regular audits by quality experts.

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Business Policy:

Thorough management control for customer satisfaction and customer trust

Human Resource Policies:

Develop human resources to achieve and maintain a defect rate of 10ppm asap.
By 2027, increase 25% of the workforce to engineers with excellent (discerning) engineering degrees.

CEO's Policy

- Expand target markets globally Special focus on the European, American and Japanese market.
- Place top priority on product reliability.
- Invest aggressively to improve production capacity and reliability.

Our Characteristics

- High rate of automation in the manufacturing process, low variation, high product reliability.
- Professional and experienced Japanese advisors highly reliable products and attentive customer service.
- Producing distinctive products with a number of unique technologies.

Our advantages

- Low price and low MOV(\$2000), quick response time, short lead time(LCD 3weeks, LCM 4-5weeks)
- Flexible company policy

Our Customers

HUNAN FUTURE ELECTRONICS TECHNOLOGY CO.,LTD

合作客户 クライアント

OUR CUSTOMERS

COMMUNICATION
通讯 通信

FINANCE
金融 ファイナンス

INDUSTRIAL CONTROL
工控类 作業制御

APPLIANCE (AMP)
家電 (功放)

APPLIANCE
家电类 家電類

AUTOMOTIVE
车载 車載



Corporate culture



- Rich employees` activities, to create and share, and seek common benefits.
- Treat each employee with respect and care, Keep improving the professional competence of employees.
- 2 times company employee travel in a year
- Prepare gift for the employee's birthday



Government support



Government leaders came to visit Future industrial park,
and awarded the key enterprises in Hunan,China.



Secretary of Hunan Provincial Party Committee came to give guidance



The Governor of Hunan Province visit our factory



Awarded the key enterprises to Future



The mayor visited the company for research



Secretary of the County Party Committee delivered a speech at the opening ceremony

Thank you!

Hunan Future Electronics Technology Co., Ltd

湖南飞优特电子科技有限公司

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