



Shenzhen CDTECH Electronics



Professional Vehicle Displays Provider



Revolution in Industrial Displays



Connectivity to the World

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Company Profile

Shenzhen CDTech Electronics established in 2011, is a national high-tech enterprise specializing in TFT LCDs, Touch Displays, HDMI Displays and other display products.

The factory covers an area of 5,000 square meters, including thousand-level dust-free workshop area of over 1000 square meters. CDTech has industry-leading automatic production and testing equipment which can provide customers with standard and customized display and touch total solutions. Our products are widely used in Industrial Control Equipment, Medical, Smart-Home, Automotive and Vehicle Displays, Instrumentation, and other Information Terminal applications. CDTech has obtained ISO9001, ISO14001, ISO13485, and IATF16949.

01

Committed to the "Zero-Defect" quality policy and our standards, CDTech strictly controls the quality of products and has establish strategic partnership with many established enterprises in Europe, Americas, Middle-East, Russia, Japan and Taiwan relied on our products and quality services , winning high recognition by customers.

- CDTech will continue to promote investment and innovation, improve quality, and strive to become the world's leading professional display manufacturer!



Formed More Than

12+



Development Projects

3000+



Patent About

36+



Product Category


TFT with PCAP
TFT with RTP
TFT with HDMI Board





Production Capacity

500kpcs/month


Americas


 Canada


 United States


 Mexico


Europe


 Germany

 U.K.


 France


 Italy


 Poland

 Russia


Asia Pacific

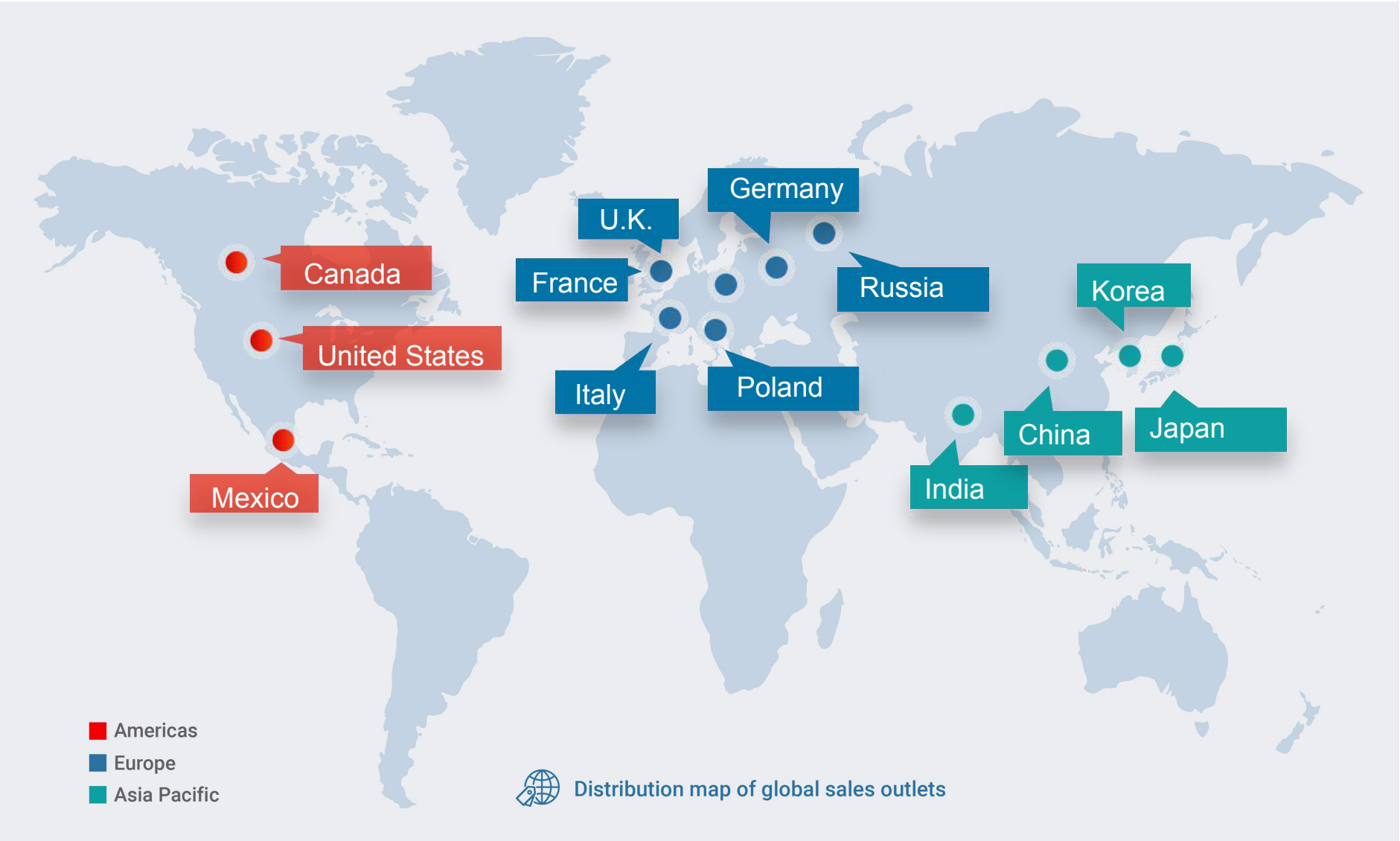
 Korea

 India

 Japan

Headquarters

 China



Development Path

More than Ten Years of Industry Experience



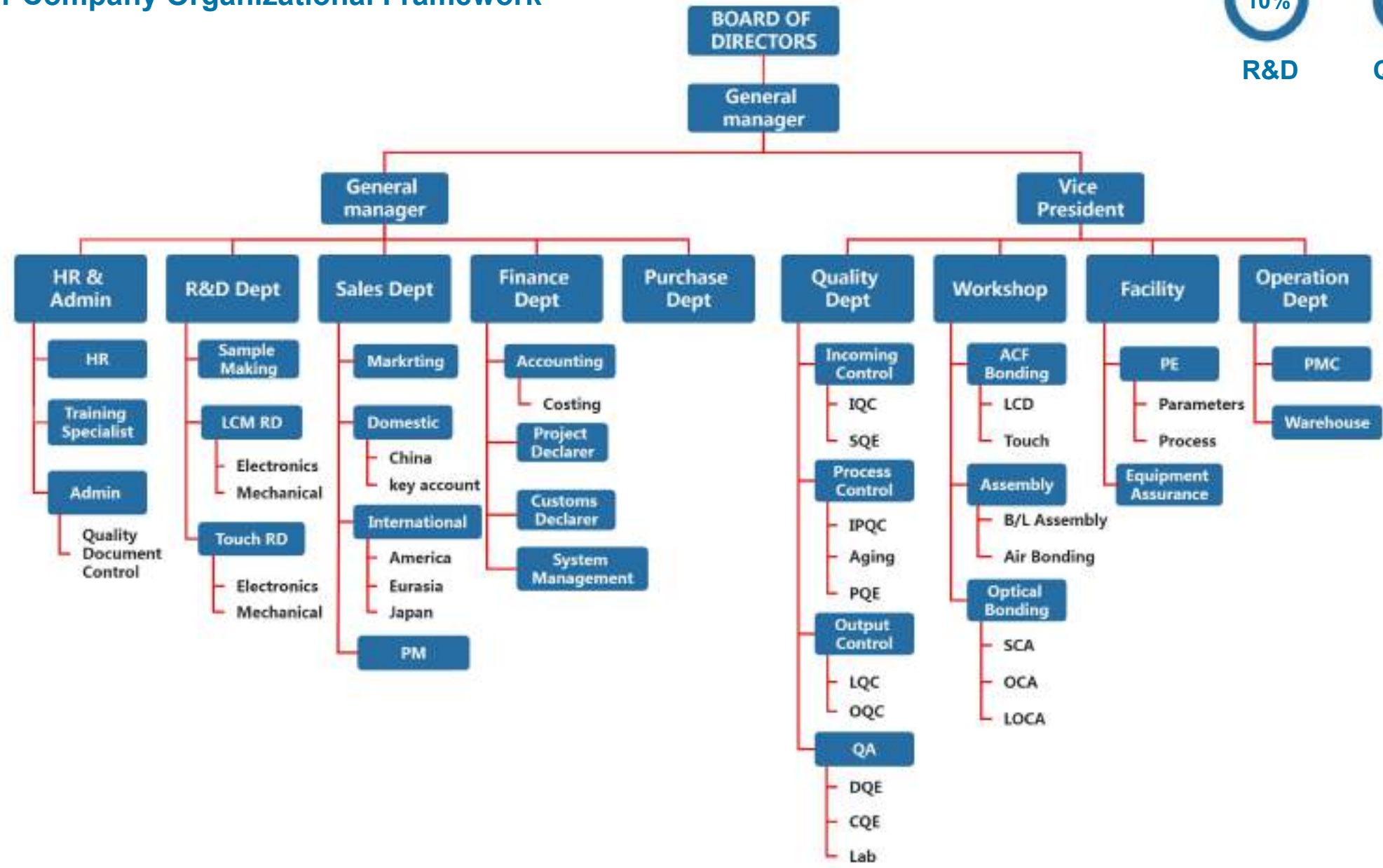
- **2011.9**
SHENZHEN CDTECH ELECTRONICS was established and entered the LCD display with touch panel industry.
- **2014.7**
Committed to "Zero Defect" quality policy, strengthened our own quality level, and established the "Aging Laboratory".
- **2014.8**
Transformed into a manufacturing enterprise, and moved to a 1,280 square meter factory with 300 square meters of dust-free workshop.
- **2015.3**
Obtained the "ISO9001 Certificate" for the first time.
- **2015.8**
Won the title of "Shenzhen Software Enterprise" and "National High-tech Enterprise".
- **2016.7**
Introduced the ERP system management.
- **2017.7**
Successfully developed the technology of cutting LCD displays that can achieve mass-production, and obtained the utility model patent.
- **2019.2**
Obtained the "ISO9001 certificate" through the continuous improvement of internal quality management system.

- **2019.9**
Moved to a new factory of 5,000 square meters in Songgang, built a thousand-level dust-free workshop of over 1,000 square meters, and equipped with industry-leading fully automatic production and testing equipment.
- **2019.12**
Made a breakthrough in the field of automotive display, improved the quality system of automotive products, and obtained the "IATF16949 certificate".
- **2020.3**
Added CTP production line and customized CTP.
- **2020.4**
Made a breakthrough in the medical field, improved the quality system of medical products, obtained the "ISO13485 certificate" and obtained the "ISO14001 Certificate" for the first time .
- **2020.6**
Added the OCA full bonding production line.
- **2021.6**
Introduced the QR code management.
- **2022.5**
Added the fully automatic backlight assembly equipment and upgraded the CTP assembly line.



Our Team

Our Company Organizational Framework





WHAT DO WE DO

LCD Display

Bar Type Display

CTP Display

Optical Bonded Display

Adapter Board

LCD Display



- P/N: S101HWX66HD-DC29
- Size: 10.1" TFT LCD Module with CTP/HDMI
- Resolution: 1280x800
- Brightness: 400/800nits
- Viewing Angle: Full Viewing Direction
- PCAP touch screen with Air / Optical bonding
- Plug and play HDMI interface & USB touch

Process Flow

- | | |
|---|---|
| 01. Attach top/bottom- polarizer | 21. SCA bonding |
| 02. LCD ITO microscope inspection & cleaning
& Plasma cleaning | 22. SCA defoaming |
| 03. ACF Attach & IC pre-bonding & main bonding | 23. CTP appearance inspection, Paste the inner
protective film |
| 04. ACF Attach & FPC pre-bonding & main bonding | 24. UV curing |
| 05. AOI Inspection | 25. Double side adhesive |
| 06. Dispensing surface glue, line glue, silver paste | 26. Assemble BL |
| 07. FOG Inspection | 27. Assembled bezel |
| 08. FOG Appearance Inspection | 28. Solder BL |
| 09. Attach fixed FPC bonding high temperature tape | 29. Solder pad and solder ball inspection |
| 10. Cleaning sensor | 30. LCM testing |
| 11. Sensor (front) ACF attachment | 31. LCD & Touch screen assemble |
| 12. Clean FPC | 32. HDMI board Assemble |
| 13. Sensor FPC hot pressing (front) | 33. Finished product LCM testing |
| 14. Sensor (back) ACF attachment | 34. Attach component tape, fixed FFC, attach label |
| 15. Sensor FPC hot pressing (back) | 35. Finished product CTP testing |
| 16. CTP FOG Microscope Inspection | 36. Appearance inspection |
| 17. CTP FOG Inspection | 37. OQC Inspection |
| 18. CTP FOG dispensing line glue | 38. Finished product packing |
| 19. Sensor paste SCA | |
| 20. TP FOG & cover lens bonding | |



Highlights Special Statement

Customization options

LCD OD LCD AA FPC OD

Touch Screen Option

Resistive Touch Panel

Capacitive Touch Panel

- High Brightness version option.
- HDMI / converter board version option.
- Support OCA/LOCA option.

LCD Display Interface

RGB MIPI HDMI

LVDS SPI MCU

Bar type Display



- P/N:S088AWX22NB-DC08
- Size: 8.8 inch Bar type color TFT LCD with PCAP
- CTP Resolution: 1280x320
- LCD Interface: RGB 24bit
- Viewing Direction: IPS
- CTP interface: 12C
- Touch Point: support Mutil-Touch
- Luminance: 320/1000nits
- LCM (W x H x D) (mm): 229.66 x 67.50 x 5.65
- Active Area(mm): 216.95 x 54.24

Process Flow

01. Attach top polarizer

02. LCD ITO microscope inspection & cleaning & Plasma cleaning

03. ACF Attach & IC pre-bonding & main bonding

04. ACF Attach & FPC pre-bonding & main bonding

05. AOI Inspection

06. Dispensing surface glue, line glue, silver paste

07. FOG Inspection.

08. FOG Appearance Inspection

09. FOG cutting

10. Attach bottom polarizer

11. After aging testing

12. FOG Microscope Inspection

13. Assembling the BL
14. Assembled bezel

15. Soldering BL

16. Microscope Inspection Solder pad and cleaning

17. Stick pull tape, component tape and fix FPC,attach label

18. Functional testing

19. Appearance Inspection

20. OQC Inspection

21. Finished product packing



Highlights Special Statement

Customization options

LCD OD LCD AA FPC OD

Touch Screen Option

Resistive Touch Panel

Capacitive Touch Panel

- High Brightness version option.
- HDMI / converter board version option.
- Support OCA/LOCA option.

LCD Display Interface

RGB MIPI HDMI

LVDS SPI MCU



- P/N: CTP-123GF19-AF V1.0
- Size: 12.3" CTP with Anti-Fingerprint
- Touch Structure: G+G
- Driver IC: GT9110
- CTP Interface: I2C
- Touch Count Max: 5 Points
- Surface treatment: Anti-Fingerprint
- Surface hardness: 6H
- Outline Dimension: 314.8x138.8x1.3mm



Process Flow

- 02

- 01. Sensor (back) ACF attachment
 - 02. Sensor FPC hot pressing (front)
 - 03. Clean FPC
 - 04. Sensor (front) ACF attachment
 - 05. Cleaning sensor
 - 06. Sensor FPC hot pressing (back)
 - 07. CTP FOG Microscope Inspection
 - 08. CTP FOG Inspection
 - 09. CTP FOG dispensing line glue
 - 10. Sensor paste SCA
 - 11. Cover glass bonded to the CTP FOG
 - 12. CTP FOG Microscope Inspection
 - 13. CTP FOG Inspection
- 17. SCA bonding
 - 18. SCA defoaming
 - 19. CTP appearance inspection, Paste the inner protective film
 - 20. CTP Inspection



Highlights Special Statement

- Can be selected based on the CTP driver IC

Waterproof

Gesture

Active pen

Passive pen

Gloves

Multi Touch

Other

- Cover lens with various surface treatment



Anti-Glare



Anti-Reflection



Anti-Fingerprint

Optical Bonded Display



- P/N:S070BWS45FP-FC58
- Size: 7.0" TFT-LCD Module with CTP
- Resolution: 1024x600
- LCD Interface: LVDS
- Viewing Direction: IPS
- CTP interface: I2C
- Driver IC: GT911
- Touch Structure: G+G
- Touch Count Max: 5 Points
- Bonding Type with LCM: OCA Optical Bonding
- Luminance: 1500 cd/m²
- LCM (W x H x D) (mm): 165.00 x 100.00 x 7.56
- Active Area(mm): 154.21 x 85.92

Process Flow

01. Attach top/bottom polarizer

02. LCD ITO microscope inspection & cleaning & plasma cleaning

03. ACF Attach & IC pre-bonding & main bonding

04. ACF Attach & FPC pre-bonding & main bonding

05. Dispensing surface glue, line glue, silver paste

06. FOG Inspection

07. FOG Appearance Inspection

08. Assembling the BL

09. Soldering BL

10. Solder pad and Solder ball Inspection

11. Functional testing

12. Wrap masking tape

13. High temperature adhesive Attachment & Pull Tab Attachment

14. LCM testing

15. Appearance inspection

16. Cleaning sensor

17. Sensor (front) ACF attachment

18. Clean FPC

19. Sensor FPC hot pressing (front)

20. Sensor (back) ACF attachment
21. Sensor FPC hot pressing (back)

22. CTP FOG Microscope Inspection

23. CTP FOG Inspection

24. CTP FOG dispensing line glue

25. sensor paste SCA

26. Cover glass bonded to the CTP FOG

27. SCA bonding

28. SCA defoaming

29. CTP appearance inspection, Paste the inner protective film

30. UV curing

31. CTP paste OCA

32. LCM and CTP bonding

33. OCA bonding

34. OCA defoaming

35. Finished product LCM testing

36. Finished product CTP testing

37. Appearance inspection

38. UV curing

39. OQC Inspection

40. Finished product packing



Highlights Special Statement

- Features of Strong OCA Bonding

Anti-UV

Water-proof

Dust-proof

Sunlight Readable

OCA bonding is considered robust characterized by anti-UV, moisture-proof and dust-proof. OCA bonding eliminates the likelihood of moisture or dust entering between the LCD and the glass, reducing the amount of reflecting layers, improving readability of LCD displays, providing UV protection when applying displays outdoors, and increasing the display's resilience against direct physical contact.

Adapter Board



- P/N: S070SWV128ND-DR29
- Size: 7.0" TFT-LCD Module with RTP & Parallel board
- Resolution: 800x480
- LCD Interface: MCU
- Viewing Direction: 12 O'clock
- Luminance: 280 cd/m²
- LCM (W x H x D) (mm): 165.00 x 100.00 x 6.80
- Active Area(mm): 154.08 x 85.92

Process Flow

- | | |
|---|--|
| 01. Attach top/bottom | 13. Solder pad and solder ball inspection |
| 02. LCD ITO microscope inspection & cleaning
& Plasma cleaning | 14. LCM testing |
| 03. ACF Attach & IC pre-bonding & main bonding | 15. RTP testing |
| 04. ACF Attach & FPC pre-bonding & main bonding | 16. Assemble parallel board |
| 05. AOI Inspection | 17. Finished product testing |
| 06. Dispensing surface glue, line glue, silver paste | 18. Attach the glue to fixed FPC, attach label |
| 07. FOG Inspection | 19. Appearance inspection |
| 08. FOG Appearance Inspection | 20. OQC Inspection |
| 09. Assembled BL | 21. Finished product packing |
| 10. Assembled bezel | |
| 11. Assembled RTP | |
| 12. Solder BL | |



Highlights Special Statement

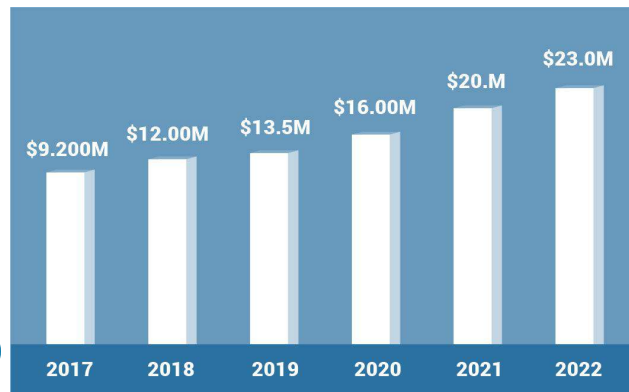
- Flexible support for custom parallel boards, interface adapter boards.
- Support custom Standard High Definition Multimedia Interface (HDMI) connector.
- Connections for 5V/12V power, EDID programming and PCAP/RTP.
- CDTECH TFT displays can be connected using a simple interface board, such as RGB to LVDS interface, LVDS to EDP.

OUR MARKET COVERAGE

Improved Sales Performance

With stable product quality, rapid response mechanism, and global marketing network all over Europe, North America, Taiwan and other countries and regions, we have established good strategic cooperation with internationally renowned enterprises, won wide recognition and praise from customers, and achieved steady increase in sales performance.

2017-2022 Annual Sales





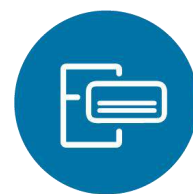
OUR APPLICATION FIELD



Vehicle Display



Industrial Display



Intelligent Application

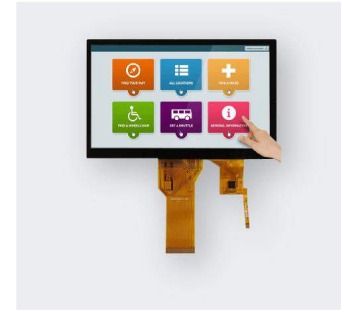


Medical Display

Vehicle Display

The full viewing angle, high brightness, wide temperature range, anti-glare and other high-performance characteristics of the vehicle TFT LCD display and its low cost advantages make it very popular in the automotive industry, such as used in instruments cluster, navigation, multi-functional monitors, and rear set entertainment and so on. What's more, CDTech's LCD automotive display provide excellent outdoor visibility by realizing an outstanding sensor of view with high brightness and ultra-high resolution. At the same time, it can also support flexible design customization, integrate touch panel for optical bonding and enhance the product's impact resistance capability and improved display performance, making its structure more complete in line with user needs.

- Full viewing angle
- Ultra-high resolution
- Anti - glare
- High-brightness
- Wide temperature
- Full lamination



7.0inch 800*480



6.8inch 800*480



5.0inch 800*480



Application field



Application field



Application field



Application field



Application field



Application field

Industrial Display

With the development of industry and technology, intelligence has become an important direction of industrial transformation, and industrial LCD displays are widely used in our daily life. CDTech provides 1.5" ~ 15.6" high-quality industrial LCD displays with longevity, high stability, high brightness, extreme temperatures operations, and touch & display integration. They are mainly used in industrial control, human-computer interface, instrument, elevator, and other applications. For special environments and extreme weather, our products can be designed with touchable by gloves, waterproof, anti-condensation, anti-shatter, anti-UV, etc.



2.8inch 240*320



3.5inch 320*240



7.0inch 800*1280



Application field



Application field



Application field



Application field

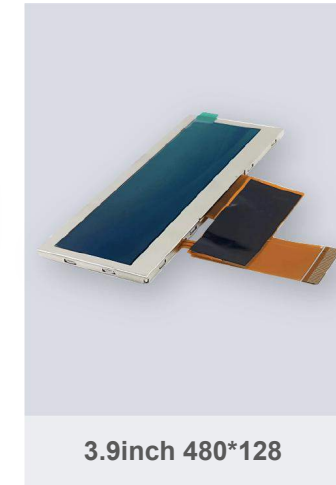
- Longevity
- High brightness
- Anti - glare
- Support glove touch
- Water proof
- Sunlight readable

Intelligent Appliance Display

The regular aspect ratio of TFT LCD panels is 4:3 or 16:9, but for some smart home applications, such as refrigerators, air conditioners, ovens, fireplaces, speakers, coffee machines, etc. The bar type displays would be much better than the current mainstream 4:3 or 16:9 to display the products required information. CDTech's own bar type display cutting technology and the 2.9" ~ 12.3" bar LCD displays and options with touch panel can be widely used in these home appliances, and the bar type displays can also be designed according to the characteristics of different home appliances. It can support touch with gloves, anti-fingerprint, etc.



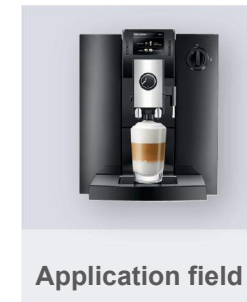
8.8inch 1280*320



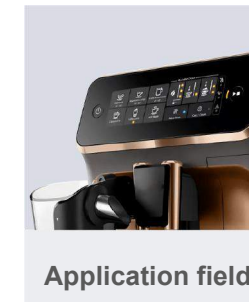
3.9inch 480*128



5.8inch 800*320



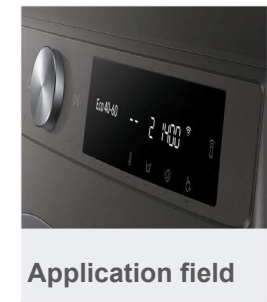
Application field



Application field



Application field

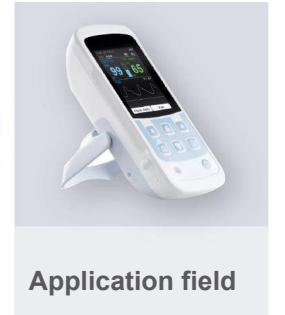
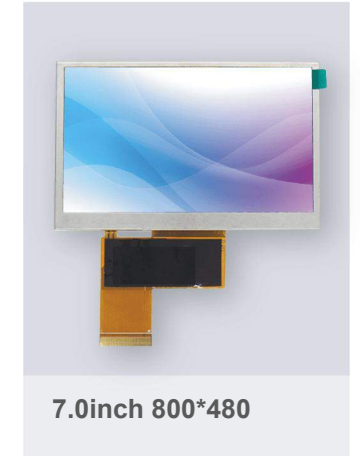
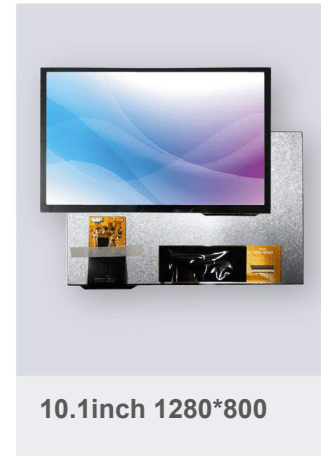


Application field

- Various shapes
- Universal Home Appliances
- Support glove touch
- Various sizes
- First-class cutting technology
- Anti-fingerprint

Medical Display

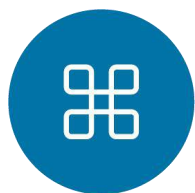
Medical equipment will pay more attention to the safety of users and avoid secondary harm to patients, so CDTech can attach a layer of explosion-proof film on the surface of our products and also achieve anti-glare effect. Of course, it is not limited to this, we can also develop more derivative solutions on the standard LCD display according to customer requirements, such as custom backlight, FPC (LCD module or CTP), resistive touch panel (RTP) and projected capacitive touch panel (CTP) or anti-reflective (AR) / anti-glare (AG) / anti-fingerprint (AF) coating, or customized PCB board, etc.



- Longevity
- High brightness
- Anti - glare
- Glove touch
- Water proof
- Anti- interference



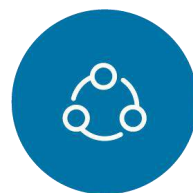
OUR ADVANTAGE



OEM/ODM



Supply Chain



Production Capacity



Management



Qualification

OEM/ODM



Support Customization

We support the customization of various materials, such as FPC(including the pin layout, size, position, etc.), BL, CTP(including the selection of CTP IC, cover glass, CTP FPC, etc.), RTP, adapter board, HDMI board, etc.



Faster Development

Fast development speed, the tooling time for common parts is generally 3~4 weeks, for more special requirements, the tooling time is generally 5~6 weeks. For material suppliers with quality and price advantages, we will also review and optimize our supply chain to provide customers with quality and market advantages of OEM / ODM products to reduce customers' time costs and procurement costs.



Rigorous Test Process

24-hour ambient temperature ageing of semi-finished FOG for each product, which helps to identify in advance whether problems will occur when the screen is lit for a long time after completion of assembly, to analyse the causes of the problems and to discuss solutions.



Strong Development Team

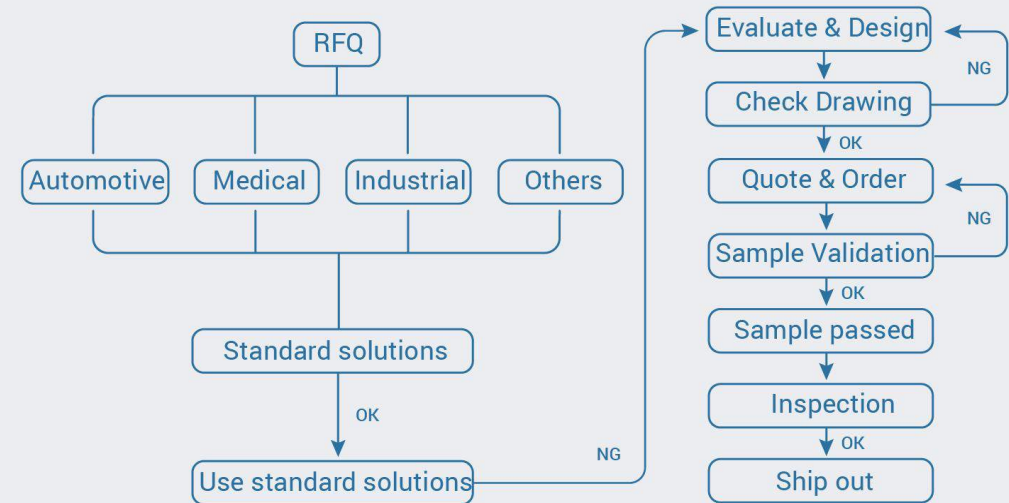
We have 10 R&D staff at present, and the R&D department is recruiting talented people and increase R&D efforts, so as to lay a more solid foundation and stronger strength for providing more and better OEM / ODM services.



Covering a Wide Range of Industries

Our customized products include but not limited to medical, automotive, home, industrial control, audio, catering and other industries, and we have certain understanding and experience in many industry markets, we can provide OEM / ODM solutions to meet the market requirements and diversification for different markets.

Process Flow



RFQ Assignment



Place Tooling Order



Customized Solutions



Verification Passed



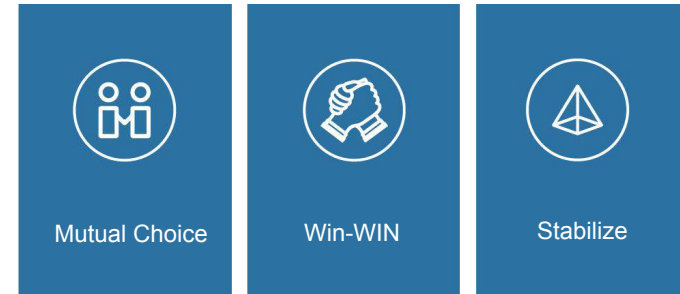
Out Drawings



Ship Out

Supply Chain

Our Relationship with Supplier



Mutual Choice

Strictly check the qualification and production capacity of suppliers, and select suppliers from various aspects such as service, cooperation and professionalism to ensure that the materials provided by suppliers meet our internal quality control system.

WIN-WIN

Cooperation with suppliers to achieve win-win cooperation, ensure the quality of product delivery, and collaborate to manage the design and working principle of products.

Stable Cooperation

We maintain good communication with our suppliers and establish a stable and reliable supply chain through cooperation. Therefore, we can avoid the situation that change suppliers temporarily and repeatedly and unable to guarantee the product quality and supply.

Why do Suppliers Work with Us?

Support Customization

Professional R&D team and a sound quality assurance system



Advanced Equipment

Industry-leading fully automatic production equipment and automatic testing equipment



Integrated Solution

Focus on providing customers with display and touch total solutions



High Quality Product

Focus on providing customers with high-quality and reliable products



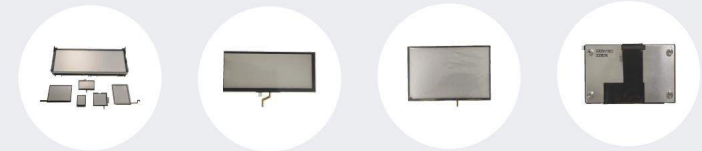
Technical Services

Focus on providing pre-sales and after-sales technical support and services to customers



Product Types

Backlight



FPC



Cover lens



Production Capacity

Process Control and Process Capability

- | | | |
|----------------------------------|----------------------------------|---------------------------------|
| 01. Polarizer Pasting | 04. Fully Automatic Glue Machine | 07. Backlight Assembly |
| 02. COG and FOG bonding | 05. Function Test | 08. Touch Panel Assembly |
| 03. Automatic Optical Inspection | 06. Aging Test | 09. Finished Product Inspection |



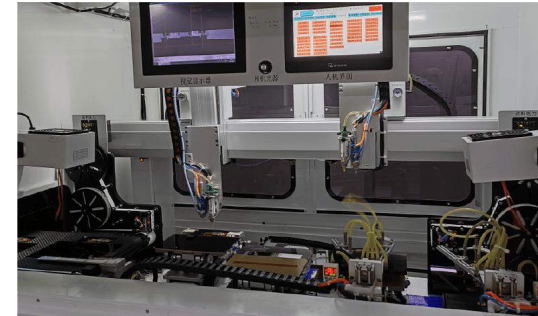
Process 2: COG and FOG bonding

Highlights: The workshop is full of fully automatic machines, and we combine the machines to 2 large production lines. The standard capacity of each line is 800pcs per hour, which is 200K per month. So, our standard capacity of two lines is 400k per month.



Process 3: Automatic Optical Inspection

Each line is equipped with the AOI detection machine, which will 100% scan the bonding area. Some potential defects caused by bonding can be detected here. For example, shortage of effective particles, and the existed foreign particles or bubbles under the FPC and the Driver IC, these adverse phenomena have certain hidden function dangers. Over time, there is a risk that the product may appear abnormal after a period of use by the customer.



Process 4 : Fully Automatic Glue

Highlights: The automatic glue machine is composed of three full-automatic machines. Before glue process, our products are all protected in the 100-level dust-free environments of the full-automatic machines, and try to avoid exposure in the air and contact with foreign particles.



Process 8: Touch Panel Assembly

We have our own CTP line and bonding line to support air / OCA / LOCA bonding.



Process 9: Finished Product Inspection

Highlights: In the whole process of production, we will carry out one time AOI scanning and three times full function tests. After three times of function test, we will do the fully appearance test, and then the product will be delivered to OQC. And after OQC pass, and will be bagging.

Management



Intelligent Management System

With the ERP management system, we manage goods in and out in a scientific and rational manner, effectively control the use of materials, realising the principle of "first in, first out" of materials, for the purpose of reducing waste and delay of materials, improving management efficiency and ensuring visualisation and control from raw materials to delivery.

Warehouse keepers can scan orders through PDA, which can quickly realize the goods-in and goods-out and ensure the consistency of inventory and physical goods. This way effectively improve the accuracy of materials-in and materials-out and efficiency of warehouse management.



Quality Assurance System

From each batch of raw materials to every production process, we have established a set of scientific and strict quality management system, and have passed ISO 9001, IATF16949, ISO14001, ISO13485, intellectual property rights and other system certifications.

Committed to the "Zero Defect" quality policy and adhered to the guidelines of quality control, we have exerted to provide our customers with reliable products and quality services!

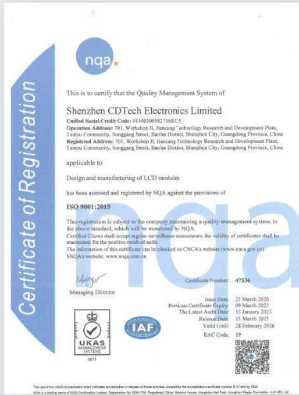


Management Measures

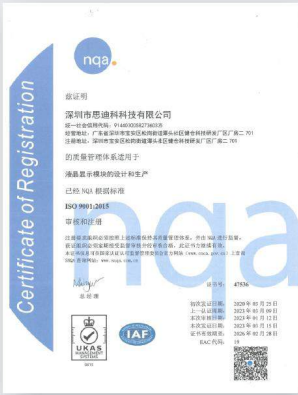
Our core technology and service team has more than a decade of experience in the TFT LCD and touch screen industries. At the same time, each year, we continue to improve the cooperation between various departments to assist, from sales, R&D, production, quality, to purchasing, all require a rapid response to customer needs within the specified time frame.



Qualification



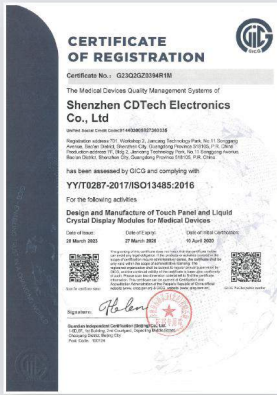
ISO9001CN



ISO9001EN



13485 CN



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National Advanced New Technology 2020



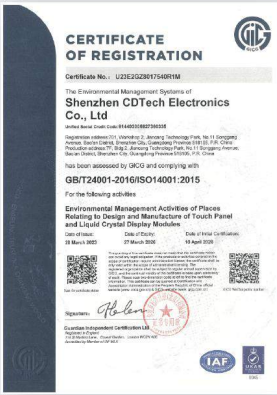
IATF16949 CN



IATF16949 EN



ISO14001 CN



ISO14001 EN



Shenzhen Specialized Enterprise 2021