

Some of our partner clients



**Focusing on industrial-grade LCD
display assembly module solutions**

**Industrial Control and Medical Equipment
Intelligent Terminals
Portable Devices
3D Interaction Field**

Online Store
Global Sources



DCE

Tel: +86 13247911575
Email: wujiaming@davidelec.com
Address: Room 1701C1, Block A, Fencheng Zhigu Building, No. 60 Tiezai Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong Province

Shenzhen David Camp Electronics Co., Ltd

BOE (Beijing Oriental Electronics) LCD Panel Core Strategic Partner

DCE



Company Profile



Shenzhen David Camp Electronics Co., Ltd

Founded in Shenzhen, a global hub for hardware innovation, we have been deeply involved in the industrial display field for many years and are a core strategic partner of BOE (Beijing Oriental Electronics Co., Ltd.) for LCD screens.

Our core business is the R&D and manufacturing of LCD screen assembly modules. We focus on industrial-grade display solutions, providing high-precision, high-reliability, and scenario-adaptive display technologies for industrial control, medical, smart terminals, and 3D interaction in portable devices.

We utilize Chengyi 802A fully automatic bonding line, Eurolink semi-automatic bonding line, COG fully automatic bonding, FOG fully automatic bonding, FOG fully automatic dispensing machine, FOB drying machine, and FOB semi-automatic pressing machine.

Industry experience

10 years

Factory size

2500 M²

Number of employees

80+



Corporate Culture

Our company is guided by the principles of diligence, pragmatism, mutual assistance, and win-win cooperation, and is committed to management and technological innovation. We are people-oriented, recognizing that people are the carriers of knowledge and skills. Our corporate culture focuses on maximizing the potential of our employees, transforming their mindset, improving their professional theoretical and technical capabilities, and forming the core competitiveness of the company. We have a vibrant, knowledgeable, innovative, and highly qualified workforce.



Business Philosophy

Adhering to the business philosophy of "people-oriented, seeking common development, and operating with integrity," we enhance our sense of social responsibility, correctly understand the changing trends of the competitive environment we operate in, and comprehend our mission and responsibilities from a strategic perspective. We provide efficient and professional services to our clients, with a focus on stability. Through repeated exploration, learning, and adjustments in all aspects, we provide efficient and secure industry consulting and professional services to clients nationwide, continuously creating maximum value for society and our employees.



Company Qualifications

The company has obtained the High-tech Enterprise Certificate issued by the Shenzhen Science and Technology Innovation Committee, and the Quality Management System Certification: ISO 9001; it has also obtained multiple patents, including for LCD screens, LCD displays, and backlights.

Application areas



Application of doorplate medical equipment

Smart healthcare

Examples include grayscale medical displays, color medical displays, portable or mobile medical displays, and monitor screens.



Applications in consumer electronic devices

Consumer electronics

Such as portable displays, laptops, desktop computers, etc.



Applications of car headrests and aftermarket car accessories

In-vehicle display

Instrument panel display, central touchscreen, head-up display (HUD), rear-seat entertainment screen, electronic rearview mirror display, etc.



Application of mobile financial terminal devices

Mobile Finance

Examples include mobile robots, self-service checkout machines, mobile smart counters, and drone ground stations.



Applicable to various embedded devices

Intelligent industrial control

Examples include industrial data acquisition unit (DTU) displays, embedded screens for industrial monitoring terminals, outdoor industrial equipment display modules, and embedded operation screens for motion controllers.



Applications in electronic technology and home appliances

Smart Home

Examples include smart central control systems, refrigerators, air purifiers, range hoods, access control systems, smart bathroom mirrors, and smart speakers.

Product Application

Smart healthcare



Black and white grayscale medical monitor

Resolution: Various resolution options are available, with common ones including 1280×1024, 1600×1200, and 2560×2048. The appropriate resolution can be selected based on different medical imaging equipment and diagnostic needs to clearly display image details.

Brightness: According to relevant technical specifications for medical imaging displays, the minimum brightness of these displays should not exceed 1 cd/m², and the maximum brightness should not be less than 250 cd/m² with the ratio of maximum to minimum brightness not less than 250. In clinical practice, screen brightness is typically set between 400 and 500 cd/m².



Color medical monitor

Resolution: Commonly uses 4K (3840×2160) or 8K (7680×4320) resolution, with a pixel density of over 250 PPI, clearly displaying the fine structures of medical images.

Brightness: Brightness is typically ≥1000 cd/m², with some products reaching 1500 cd/m², and contrast ratio above 2000:1, adaptable to different environments such as bright operating rooms or dark rooms, making image details more distinct.



Mobile medical display

Resolution: Various resolution options are available, with common ones including 800×600, 1024×768, and 3840×2160. The appropriate resolution can be selected based on different medical imaging equipment and diagnostic needs to clearly display image details.

Brightness: Brightness is typically between 350 and 450 cd/m², sufficient to handle variations in indoor and outdoor lighting. Displays for equipment used in ambulances and field rescue operations require a brightness of 500 cd/m² or higher.



Monitor display

Resolution: Standard monitoring equipment typically uses 800×600; mainstream monitors commonly use 1024×768, considered the golden resolution for monitors; high-end intelligent monitoring systems use 1280×800.

Brightness: ≥500 nits is required in brightly lit environments such as operating rooms; 300-400 nits is needed in ICUs at night and should be adjustable; standard monitors in general wards typically have a brightness of around 300 nits.

In-vehicle display



Dashboard display

Resolution: Basic entry-level car dashboards typically feature simple electronic auxiliary displays or small LCD screens, with a common resolution of 800×480, and some early entry-level models even using 720×480. Mainstream car dashboard displays generally have a resolution of 1920×720 or 1920×1080.

Brightness: The basic brightness of ordinary car dashboards is typically 250-500 nits, while luxury brand car dashboards often reach 1000-1300 nits, and some high-end models even exceed 1500 nits in strong sunlight.



Central control touch screen

Resolution: Common sizes are 9 inches, 10.1 inches, and 10.2 inches, adapting to the center console layout of different car models. In terms of resolution, entry-level models are mostly 1024×600, mainstream models mostly use 1280×800, and high-end models can reach 1920×1080 clearly displaying navigation maps, high-definition audio and video content, etc.

Brightness: The brightness of the center console screen in ordinary car models is 300-500 cd/m², while outdoor high-brightness or high-end models can reach over 1000 cd/m². Some achieve a peak brightness of 1500 cd/m² through Mini LED technology to cope with direct sunlight.



Rear seat entertainment display screen

Resolution: Entry-level models typically feature rear-seat entertainment screens with a standard definition (720×480), sufficient only for basic video playback. Mainstream models primarily use 1920×1080 full HD, while high-end models upgrade to 2K or even 4K. For example, the new Alphard's 17.3-inch ceiling-mounted screen has a 2K resolution, offering outstanding detail when playing 4K videos and providing an immersive viewing experience.

Brightness: Typical screen brightness ranges from 250 to 500 nits, with 400-500 nits being the preferred range for normal in-car lighting conditions.



Electronic rearview mirror display

Resolution: Entry-level models typically have a resolution of 1280×720, suitable for small displays around 7 inches; high-end models feature a 12.3-inch surround-view electronic rearview mirror display with a resolution of 1920×3 (RGB) ×720.

Brightness: Brightness is generally high, with mainstream parameters ranging from 900 to 1000 cd/m², avoiding the problems of excessively dark images in strong light and glare in low light.

Product Application

Intelligent industrial control



Industrial Data Acquisition Terminal (DTU) Display Screen

Resolution: Embedded or interactive DTUs mostly use TFT screens. 2.5-inch models typically have a resolution of 320×240, while 3.5-inch models can reach 320×480. High-end composite DTUs have larger screens; 7-inch and 10.1-inch models commonly have a resolution of 1024×600, and some high-precision scenarios can even accommodate ultra-high-definition specifications of 3840×2160.

Brightness: Standard indoor models have a brightness of 300-450 cd/m². For outdoor or high-light environments, the screen brightness can be increased to over 700 cd/m².



Industrial monitoring terminal embedded screen

Resolution: Most mainstream 10.1-15.6 inch screens are 1920×1080 (FHD), suitable for complex data display in production lines, logistics warehouses, and other scenarios. High-end, high-precision monitoring scenarios, such as industrial inspection and medical imaging monitoring, use 13.3-inch screens with resolutions up to 3840×2160 (4K).

Brightness: Standard indoor models have a brightness of 300-500 cd/m², suitable for indoor monitoring environments such as factory control rooms. Dedicated models for outdoor high-light scenarios offer significantly improved brightness.



Outdoor industrial equipment display module

Resolution: Resolution varies depending on module size and application precision requirements. Small outdoor terminals around 7 inches typically have a resolution of 800×480. Commonly used modules in the 8-15.6 inch range often have a resolution of 1024×768 or 1920×1080. Large outdoor devices of 55 inches and above often have a resolution of 2K or higher.

Brightness: To cope with direct sunlight, brightness is generally ≥500 cd/m². Outdoor-specific models typically range from 800 to 1500cd/m², with some models reaching 1600 cd/m² for extreme light conditions. Most also feature anti-glare and anti-reflective coatings to prevent blurry images under direct sunlight.



Motion controller embedded operation screen

Resolution: Commonly found in CNC machine tools, industrial robots, dispensing machines, and other automated equipment. Sizes are mostly 7-10.1 inches, with a resolution primarily of 1024×600.

Brightness: 320-400 cd/m², mostly 24-bit true color. Brightness is suitable for typical workshop lighting environments, and 24-bit true color allows for the differentiation of color representations for different axis movement states.

Smart Home



Smart central control screen

Resolution: 7-15 inches; Resolution: 1280×800, 1920×1080, high-end models up to 2K (2560×1440) to ensure display detail.

Brightness: 300-500 cd/m² (adapts to indoor lighting conditions, some models support automatic brightness adjustment), Contrast Ratio: 800:1-1500:1.



Smart speaker

Resolution: Sizes vary widely, ranging from portable mini models to extra-large entertainment screens, with mainstream sizes concentrated between 4 and 10.1 inches, and resolutions including 800×480, 1280×800, and 1920×1200.

Brightness: Most brightness levels are between 300 and 400 nits, with some large-screen or commercial models offering even higher brightness, reaching up to 400 cd/m² (similar to nit values).



Smart refrigerator

Resolution: The size of the embedded screen in smart refrigerators varies from a few inches to over 20 inches, depending on the product positioning. Medium-sized screens are mostly 9-10.1 inches, using 720P resolution. Large interactive screens are typically 15 inches or larger, often using mainstream high-definition resolutions such as 1920×1080.

Brightness: Brightness is generally fixed at 200-300 cd/m² meeting basic viewing needs in typical kitchen lighting conditions while avoiding excessive power consumption due to high brightness.



Smart bathroom mirror

Resolution: Most mainstream models range from 13.3 to 23.6 inches, with high-end custom models reaching up to 32 inches. Common mainstream models primarily use 1920×1080 (1080P) resolution, including popular 21.5-inch touchscreen LED mirrors; high-end models can achieve 4K ultra-high definition.

Brightness: Standard brightness is 300-450 cd/m², with some high-end models offering adjustable brightness from 350-1000 cd/m², automatically adapting to strong or weak light in bathroom environments.

Product Application

Mobile Finance



Unmanned Aerial Vehicle Ground Station

Resolution: Screen sizes are mostly between 7 and 10 inches, convenient for outdoor portability; multi-screen industrial-grade ground stations are typically around 15.6 inches, suitable for multi-tasking parallel display. In terms of resolution, the mainstream configuration is 1920×1080 high-definition, while smaller handheld models also offer 1280×800 resolutions for compatible sizes.

Brightness: Outdoor-specific models generally have a brightness of 800-2500 nits (or cd/m^2). Regular models will also be labeled with features such as "high brightness" and "visible in strong light" to ensure image clarity during outdoor operations.



Self-service cash register

Resolution: Commonly found in supermarkets and convenience stores, these screens are relatively large, facilitating user-friendly scanning and payment. The mainstream size is 16-32 inches, with most resolutions at 1920×1080, and some 32-inch models supporting 2K resolution.

Brightness: Due to high foot traffic and potentially uneven lighting in stores, brightness is generally around 300 nits. Some large-screen models in shopping malls may have brightness levels up to 400 nits to ensure users at different angles can clearly see the screen content.



Mobile smart counter

Resolution: Portable mainstream models are mostly 10-10.1 inches, suitable for staff to carry while handling business. The resolution is mostly 1024×600. Fixed, stationary enhanced models are mostly 17-19 inches in size, suitable for placement in community service points, industrial parks, and other fixed or temporary service points. The resolution is mostly 1920×1080.

Brightness: Ordinary indoor models have a brightness of 200-350 cd/m^2 , while outdoor models can reach 500 cd/m^2 .



Mobile robots

Resolution: Industrial AGVs typically use compact screens ranging from 4.3 to 12 inches, while commercial service robots have a wider range, from portable 10.1-inch control screens to large display screens of 32 inches and 55 inches. Industrial models commonly use basic specifications such as 800×480 and 800×1280; commercial large-screen models are mostly 1920×1080; small interactive screens often reach 1920×1200 to ensure clear touch interaction.

Brightness: Industrial models typically have a brightness of 800-1100 cd/m^2 , suitable for factories with strong light and dust; commercial models typically have a brightness of 200-600 nits.

Consumer electronics



Laptop

Resolution: The mainstream range is 13-16 inches, with resolutions varying based on product size and positioning: 1920×1080, 2560×1600, 2880×1800, 3000×1876, and 3200×2000.

Brightness: Most entry-level office laptops and basic gaming laptops have a brightness range of 300-400 nits, mainstream thin and light laptops and mid-range creative laptops have a brightness range of 400-600 nits, while high-end creative laptops and flagship gaming laptops can reach 600-1600 nits.



Portable display screen

Resolution: Common portable display screen sizes include 7 inches, 10.1 inches, 13.3 inches, 15.6 inches, 16 inches, and 18.4 inches. The main resolutions for portable displays are 1920×1080 (FHD), 2560×1600 (2.5K), and 3840×2160 (4K).

Brightness: The brightness of portable displays is generally between 250-1000 nits. Ordinary portable screens typically have a brightness of 250-300 nits, sufficient for everyday indoor use. Mid-to-high-end products can reach brightness of 400-500 nits, providing good visibility even in bright light.



Game console

Resolution: Mainstream handheld game console screen sizes range from 7 to 11 inches, with resolutions varying depending on the size, including 1280×720, 1920×1200, and 2560×1600.

Brightness: Brightness is typically fixed at 500 cd/m^2 , meeting basic viewing needs in everyday lighting conditions while avoiding excessive power consumption due to high brightness.



Tablet PC

Resolution: Tablet PC screens typically range from 8 to 14.6 inches, with resolutions of 2560×1600, 3048×2032, and 3200×2136, among others.

Brightness: Depending on the product positioning, brightness levels range from 500 nits, 600 nits, 700 nits, to 1000 nits, with some even reaching 1600 nits.

Product Catalog

8-13.3INCH

Item	Model	Size	Category	Resolution	Operating temperature	Interface	Shipping format	Normal brightness cd/m ²	Custom brightness cd/m ²
01	GV080WXB-N83	8	Square	1024x768	-30+80	LVDS	FOB/MDL	250	500/1000
02	QV080WXM-N88	8	Square	1280x800	-20+60	LVDS	MDL	300	
03	GV097QXB-N41	9.7	Square	1536x2048	-30+80	MIPI	FOB/MDL		500/1000
04	GV101WXB-NN0	10.1	Landscape	1280x800	-20+70	LVDS	FOB/MDL	300	500/1000
05	GV101WXB-NZ1	10.1	Landscape	1280x800	-20+70	LVDS	FOB/MDL	300	500/1000
06	GV101WXB-NZ3	10.1	Landscape	1280x800	-20+70	LVDS	FOB/MDL	300	500/1000
07	GV101WXB-N83	10.1	Landscape	1280x800	-20+70	LVDS	FOB/MDL	300	500/1000
08	GV101WXM-N10	10.1	Landscape	1280x800	-20+70	MIPI	MDL	280	
09	GV101WXM-N80	10.1	Landscape	1280x800	-20+70	LVDS	MDL	500	
10	GV101WXM-N81	10.1	Landscape	1280x800	-20+70	EDP	MDL	250	
11	GV101WXM-N85	10.1	Landscape	1280x800	-20+70	LVDS	MDL	430	
12	GV101FHB-N10	10.1	Landscape	1920x1080	-20+70	LVDS	FOB/MDL	300	500/1000
13	QV116FHB-N81	11.6	Landscape	1920x1080	-20+70	EDP	FOB/MDL	280	500/1000
14	QV116FHB-N85	11.6	Landscape	1920x1080	-20+70	EDP	FOB/MDL	280	500/1000
15	QV116FHB-N86	11.6	Landscape	1920x1080	-20+70	EDP	FOB/MDL	280	500/1000
16	GV121WXB-N80	12.1	Landscape	1280x800	-20+70	LVDS	FOB/MDL	280	500/1000
17	GV121WXM-N80	12.1	Landscape	1280x800	-20+70	LVDS	MDL	450	
18	PV121X0B-N10	12.1	Square	1024x768	50	LVDS	FOB/MDL	280	500/1000
19	QV133FHB-N50	13.3	Landscape	1920x1080	0+50	EDP	FOB/MDL	280	500/1000
20	GV133FHB-N40	13.3	Landscape	1920x1080	-20+70	EDP	FOB/MDL	250	500/1000
21	QV133FHB-N81	13.3	Landscape	1920x1080	-20+70	EDP	FOB/MDL	280	500/1000

Product Catalog

15-32INCH

Item	Model	Size	Category	Resolution	Operating temperature	Interface	Shipping format	Normal brightness cd/m ²	Custom brightness cd/m ²
22	DV150X0M-N10	15.0	Landscape	1024x768	-20+70	LVDS	MDL	350	
23	QV156FHB-N81	15.6	Landscape	1920x1080	0+50	EDP	FOB/MDL	280	500/1000
24	QV156FHB-N82	15.6	Landscape	1920x1080	0+50	EDP	FOB/MDL	280	500/1000
25	QV156FHB-N83	15.6	Landscape	1920x1080	0+50	EDP	FOB/MDL	280	500/1000
26	ZV156QUM-N10	15.6	Landscape	3840x2160	0+50	EDP	MDL	280	500/1000
27	GV156FHB-N10	15.6	Landscape	1920x1080	-20+80	LVDS	FOB/MDL	280	500/1000
28	GV185FHB-N10	18.5	Landscape	1920x1080	-30+80	LVDS	FOB/MDL	250	500/1000
29	QV185FHB-N82	18.5	Landscape	1920x1080	0+50	LVDS	FOB/MDL	250	500/1000
30	QV185FHB-N83	18.5	Landscape	1920x1080	0+50	EDP	FOB/MDL	250	500/1000
31	GV185FHM-N10	18.5	Landscape	1920x1080	-30+80	LVDS	MDL	350	
32	GV215FHM-N10	21.5	Landscape	1920x1080	-20+70	LVDS	MDL	450	
33	GV215FHB-N10	21.5	Landscape	1920x1080	-30+80	LVDS	FOB/MDL	280	500/1000
34	HR215WU1-120	21.5	Landscape	1920x1080	0+50	LVDS	MDL	250	
35	MV215FHB-N40	21.5	Landscape	1920x1080	0+50	LVDS	FOB/MDL	250	500/1000
36	MV238FHM-N10	23.8	Landscape	1920x1080	0+50	LVDS	MDL	250	
37	MV238QUB-N12	23.8	Landscape	3840x2160	0+50	EDP	FOB/MDL	250	500/1000
38	MV270QUB-N50	27	Landscape	3840x2160	0+50	EDP	FOB/MDL	280	500/1000
39	HV320FHB-N02	32	Landscape	1920x1080	0+60	LVDS	FOB/MDL	280	500/1000

Note: This product catalog only shows a portion of the models. Please feel free to contact us if you have any needs.