

## Transparent VA LCD Display with Wide Temperature Range and Low Power Consumption for Custom 7 Segment Applications

Our Product Introduction

for more products please visit us on [lcdtftscreen.com](http://lcdtftscreen.com)

### Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



### Product Specification

- Viewing Direction: 6 O'clock Or 12 O ' Clock
- Connect: Pin, Zebra Or FPC
- Va Size: 78\*59/56mm\*1.1T Or Custom
- Backlight Type: LED
- Technology: LCD
- Polarizer Type: Transflective/Transmissive/Reflective
- Touchscreen: Customized
- Lcd Type: VN LCD Display
- Highlight: **Transparent VA LCD Display,**  
**Wide Temperature Range 7 Segment LCD**  
**Display**  
**Low Power Consumption Transparent LCD**  
**Display**



## TN STN HTN FSTN VA Transparent LCD Display, Custom Size 7 Segment LCD Display

### Product Overview

High-performance transparent LCD display with customizable sizes and configurations for various industrial and commercial applications.

### Technical Specifications

Type	VN LCD Display
Storage Temperature	-10~+60 , -20~70 , 30~80
Voltage	2.8~5.0 V
Connector	Pin Or Zebra
Driving Method	Static/Dynamic
Polarizer Type	Transflective/Transmissive/Reflective

Item	Content	Description
1	LCD Type	TN, HTN, FSTN, VA, DFSTN, STN LCD Display
2	Outline Size	Customized
3	VA Size	78*59/56mm*1.1T or Custom
4	Viewing Direction	6 O'clock or 12 O'clock
5	Voltage	2.8V,3.0V, 3.2V,3.6V,4.0V,4.5V,5.0V
6	Display Mode	Positive or Negative
7	Backlight	With or without
8	Operation Temp	0°C TO +50°C,-10°C TO +60°C,-20°C TO +70°C
9	Storage Temp	-10°C TO +60°C, -20°C TO +70°C,-30°C TO +80°C,-35°C TO +90°C
10	Contact	Pin, Zebra or FPC

Transparent VA liquid crystal display is a display technology that combines VA (vertical alignment) liquid crystal technology with transparency features. It has the characteristics of a wide temperature range and low power consumption, and is widely used in various fields. Here is the relevant introduction:

#### Product Introduction

Technical principle: The VA liquid crystal display technology arranges the liquid crystal molecules perpendicularly to the substrate. When a voltage is applied, the liquid crystal molecules rotate, thereby controlling the transmission and blocking of light, achieving image display. Transparent VA liquid crystal display, on this basis, through special materials and structural design, makes the liquid crystal layer as transparent as possible when not displaying an image, allowing light to pass through.

Wide temperature range characteristic: By selecting special liquid crystal materials, wide-temperature backlight modules, and optimizing circuits, the working temperature range is broadened. Generally, conventional wide-temperature liquid crystal displays can operate at a temperature range of -20°C to +70°C, and some high-end models can extend to -40°C to +90°C.

Low power consumption feature: Using low-power liquid crystal panels, combined with intelligent backlight adjustment technology, the brightness is automatically increased or decreased according to the ambient light, reducing energy consumption. For example, some wide-temperature liquid crystal screens used in outdoor charging stations, vehicle cabins, and train car information screens, the static power consumption is ≤5W, and the dynamic power consumption is ≤15W, which is more energy-efficient compared to civilian screens of the same size.

Other performance: VA liquid crystal display usually has the characteristic of high contrast, capable of achieving very deep black performance, providing a higher static contrast, and making the picture more layered. At the same time, it has a high color saturation, can cover a wide color gamut, and the color reproduction is relatively accurate, with better viewing angles than TN panels.

#### Product applications

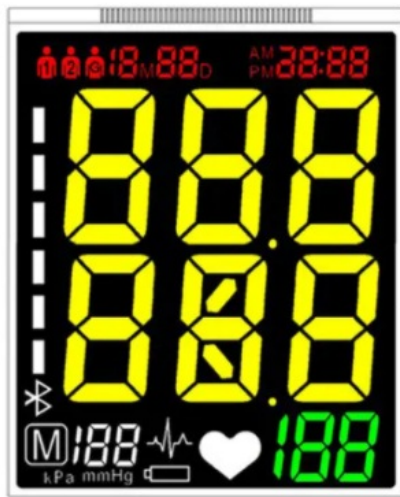
Industrial control: Can be used for display screens in industrial control cabinets and operation consoles, such as PLC displays in steelmaking workshops and chemical plants, and CNC machine operation screens, etc. It can display equipment parameters stably in harsh environments such as high temperature and dust, and the wide temperature range avoids black screen due to high temperature, ensuring clear data.

Transportation: Suitable for vehicle displays, such as driver cabins of trucks and construction machinery, as well as train car information screens, etc. It can withstand vibration and adapt to extreme temperatures. In the aerospace and shipbuilding fields, such as aircraft window displays and ship navigation screens, it also has applications, able to withstand low temperatures in the air and high humidity and salt content in the sea.

Outdoor public equipment: Often used in outdoor advertising machines and information screens, such as bus stop screens and highway information screens, etc. It can work stably in strong light, high temperature, and low temperature environments. The high brightness property ensures visibility during the day, and the wide temperature range avoids the influence of seasonal temperatures. In addition, outdoor charging stations, self-service terminals, etc. also often use such liquid crystal screens, which can clearly display information in the case of large temperature changes in outdoor conditions.

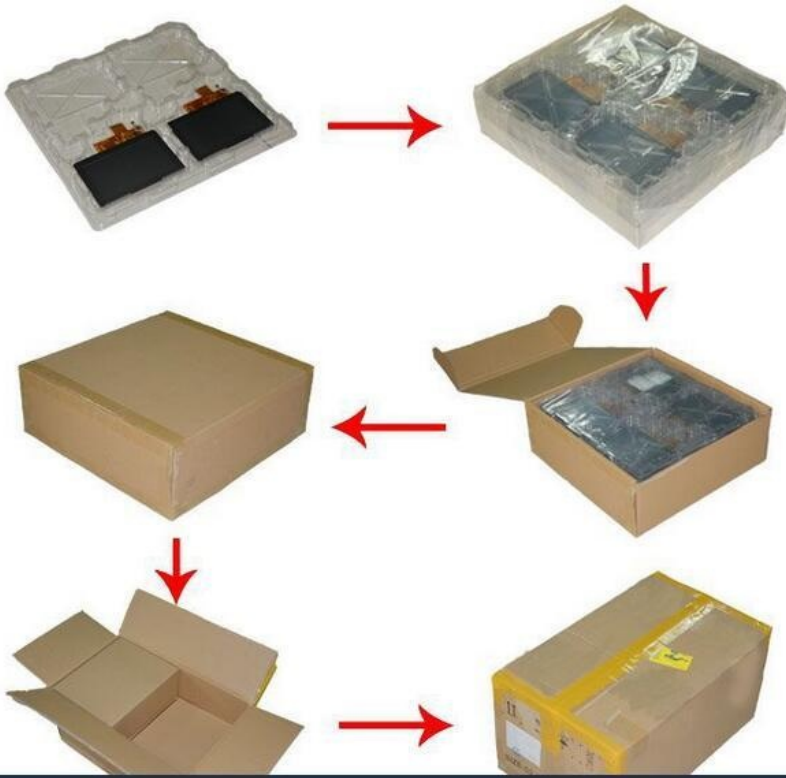
Medical equipment: Such as monitoring screens for outdoor emergency vehicles and detection screens for low-temperature laboratories, etc., which need to display vital signs or experimental data stably within the temperature range of -20°C to +50°C, high reliability avoids screen failure affecting diagnosis or experiments.

Smart home: Can be applied to display screens of smart appliances, such as smart refrigerators and smart ovens, etc. The low power consumption feature is suitable for long-term operation of appliances, the wide temperature range can adapt to different kitchen environment temperatures, and the transparent property can better integrate with the appearance of appliances, enhancing the beauty and technological sense of the product.



## Packaging & Shipping

**Packaging:** Carton boxes, cupboard, EPE, blister tray - customized based on product size and customer requirements.



**Shipping:** DHL, FedEx, EMS, UPS, air or sea shipping - available according to customer preference.

						
	2-7days	2-8days	2-7days	3-15days	2-5days	2-7days
<b>Notice</b>	1. EMS for Brazil, Russia and Remote areas . 2. SF for Hong Kong, Taiwan, South Korea, Japan, Thailand, Singapore and Malaysia . 3. Having logo product can' t be sent by FEDEX . 4. The Brazil want to use FEDEX/DHL , need to offer CNPJ / CPF to us !					

#### Payment Methods



**Dongguan Bibuke Electronic Technology Co., Ltd.**

+8613711912723

Jack@smartwinlcd.cn

lcdtftscreen.com

Shangyu Commercial Centre Chang'an, Dongguan, Guangdong, China 523881