



## 6.5 Inch 800x480 Resolution TFT LCD Display with 50 Pin RGB Interface and Resistive Touch Panel

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: IDO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.74-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



### Product Specification

- Display Type: TFT LCD
- Module Size: 155.2×89.4×5.5 Mm
- Operating Temp: -20°C To +70°C
- Touch Screen: Resistive Touch Panel
- Connectivity: ZIF / Plugging
- Storage temperature: -30°C To 80°C
- Pin Number: 50 PIN
- Resolution: 800x480



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## Product Description

### 6.5 Inch 800x480 Industrial RGB Interface 50 Pin With Touch TFT LCD Display

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#### Product Introduction

<b>Keywords:</b>	6.5 Inch TFT LCD Display
<b>Resolution:</b>	800x480
<b>Interface:</b>	RGB
<b>LED Lifetime:</b>	40,000 Hours
<b>Viewing Direction:</b>	6 O'clock
<b>Operating Temp.:</b>	-20 To +70
<b>Touch Screen:</b>	Resistive Touch Panel
<b>Cover Glass Dimension:</b>	ODM
<b>Surface Luminance:</b>	320 Cd/m <sup>2</sup>
<b>Pins:</b>	50
<b>Connection:</b>	ZIF / Plugging

This is an industrial-grade TFT LCD display module with a 6.5-inch size and a resolution of 800×480 (WVGA). It adopts a 50-pin RGB parallel interface and integrates a capacitive touch screen. It is specially designed for high stability and high definition in embedded and industrial applications.

#### Display Characteristics

**Size:** 6.5 inches, widescreen with a 17:9 aspect ratio

**Resolution:** 800×480 (WVGA), with fine picture quality, capable of clearly displaying text, charts and images

**Brightness:** Typical 400-450 cd/m<sup>2</sup>, some customized versions can reach 700 cd/m<sup>2</sup>, suitable for medium brightness environments indoors and outdoors

**Contrast:** 500:1, with natural color reproduction and clear display layers

**Viewing Angle:** Horizontal/vertical approximately 70°/50°, meeting the multi-angle viewing requirements of industrial scenarios

**Backlight:** WLED, with a lifespan of approximately 50,000 hours, low power consumption and stability

#### Interfaces and Touch

**Interfaces:** 50-pin 24-bit RGB parallel interface, high-speed transmission, good picture quality, high refresh rate, suitable for mainstream embedded controllers such as STM32, FPGA

**Touch:** Integrated capacitive touch screen, supporting multi-touch, sensitive response, high precision, surface hardness up to 6H, scratch-resistant and wear-resistant

**Driver IC:** Commonly used capacitive touch IC (such as GT911), plug-and-play

#### Structure and Environment

**Dimensions:** Approximately 155.2×89.4×5.5 mm, display area 143.4×76.7 mm, compact and lightweight, suitable for embedded installation in devices

**Operating Temperature:** -30°C to +85°C, industrial-grade wide temperature range, suitable for harsh working conditions

**Reliability:** Anti-interference, shock resistance, dust-proof, meeting the requirements for long-term stable operation of industrial equipment

#### Main Applications

**Industrial Control HMI:** PLC human-machine interface, production line operation panel, equipment control cabinet terminal, used for displaying parameters, status and interaction

**Medical Equipment:** Portable monitor, health detector, small B-ultrasound, etc., displaying vital sign data and detection images, balancing portability and clarity

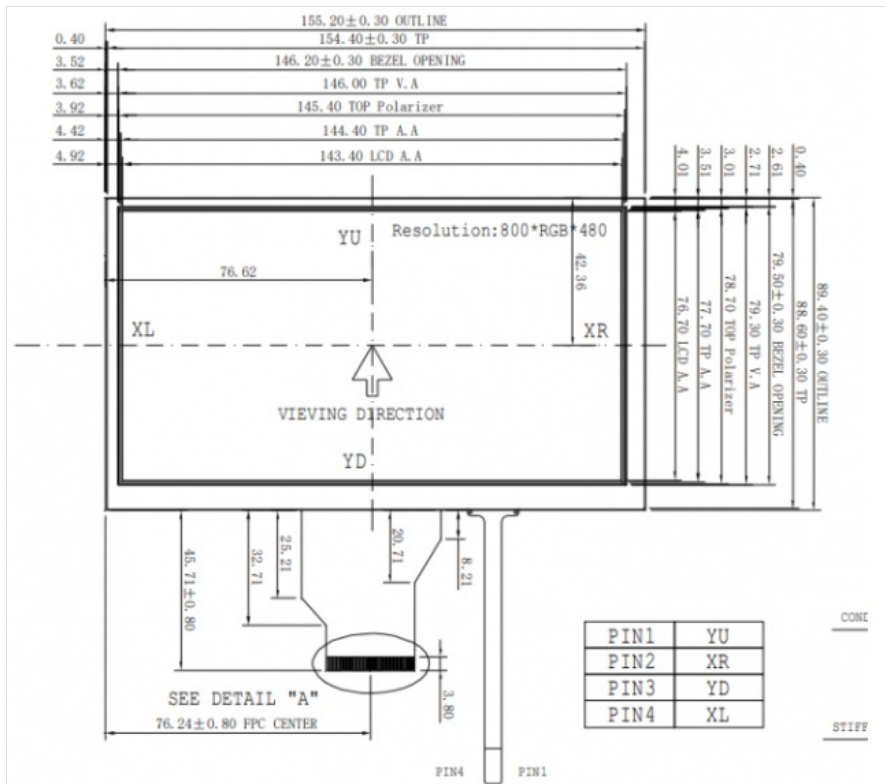
**Vehicle Electronics:** Vehicle central control panel, navigator, rearview camera display, suitable for interior brightness and temperature environments, convenient touch operation

**Smart Home:** Smart control panel, visible doorbell, home energy management terminal, providing intuitive interaction interface

**Embedded Development:** STM32/FPGA development board, DIY project prototype, 50-pin RGB interface with strong universality, suitable for most controllers, convenient for development and debugging

**Security and IoT:** Access terminal, monitoring display, IoT data collector, stable display of monitoring images and data information

## Product Drawing





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## FAQ

### 1. I want the LCD display 8 digits and the outline size is 65x30x2.8mm?

Answer: No problem. Firstly, please kindly send us your specification/drawing paper. If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

### 2. This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.

Answer: For the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.

### 3. This LCD display is HTN type, but I want STN type, can you make?

Answer: That's all right. We can change for you as per you request.

### 4. I want customize a new LCD module. Can you do?

Answer: Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.

### 5. What is leading time for tooling?

Answer: General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.

### 6. Can you send us samples for checking?

Answer: Yes. Samples order is available.

### 7. What is the Leading Time?

Answer: If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. Suppose we can finish earlier, we will report the information in advanced.

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## Our Service

Free repair within one year after the shipment of products from us

Replacement within 30 days after the shipment of products from us due to products' problems

We can print your logo and stick your model No. on the cameras

We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts

Professional technician supports. We have a good after-sales service team. They can solve your problems in time

All goods will be inspected and tested by our engineers and QC/QA before packing and shipment

Customers satisfactory is most important to us. If you have any problem or questions regarding our transaction. Please contact us by Email or online. It will be responded within 24 hours

Products pictures only for your reference. Please kindly refer to the specification. We can provide the products based on the specification. Or you can offer your own specification or drawing, we can customize all kinds of LCD displays for you. Thanks for your kind support always



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