

12.1 Inch 1000nits High Brightness IPS TFT LCD Display with 1024x768 Resolution

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- Active Area: 245.76*184.32mm
- Operating Voltage: 3.3V
- Colors: 256K / 16.7M
- Overall Dimensions: 260.48 × 204 × 7.2
- Screen Size: 12.1 Inches
- Display Technology: TFT LCD
- Resolution: 1024*768 Pixels
- Backlighttype: LED
- Highlight: **1000nits High Brightness TFT LCD Display , 1024x768 Resolution IPS TFT Screen , 12.1 Inch Screen Size LCD Display Module**



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Product Description

12.1 Inch High Brightness 1000nits 1024×768 Dots IPS TFT LCD Display

Professional industrial-grade color LCD module designed for demanding outdoor and industrial applications with ultra-high brightness and wide temperature operation.

ITEM	CONTENTS	UNIT
LCD Type	TFT / Transmissive / Normally Black	
Size	12.1	Inch
Viewing Angle	85/85/85/85	
Display Mode	Normally Black	
LCD (W × H)	260.48 × 204 × 7.2	mm
Active Area (W × H)	245.76 × 184.32	mm
Dot Pitch (W × H)	0.08 × 0.08	mm
Number of Dots (Pixels)	1024 (RGB) × 768	
White Point (x,y) (Under C Light)	X: 0.305, y: 0.347 (Typ.)	
Response Time	≤35	ms
LCD Luminance	1000 (typical)	cd/m ²
Contrast Ratio	1000:1 (Typ.)	
Interface Type	LVDS	
Colour Depth	256K / 16.7M	
Pixel Arrangement	RGB Stripe	
Surface Treatment	AG	
Operating Temp	-20~70	
Storage Temp	-30~80	

Product Introduction

This 12.1-inch industrial LCD display features a classic 4:3 aspect ratio with XGA resolution (1024×768) and an effective display area of 245.76mm×184.32mm. Utilizing IPS technology, it delivers a full 178° viewing angle with consistent color and brightness from any perspective. The 1000 nits ultra-high brightness ensures clear readability even in direct sunlight, enhanced by anti-glare surface treatment to minimize reflections.

The module employs LVDS interface (20-pin common type) supporting 16.7M full-color display with approximately 1200:1 contrast ratio. Operating temperature ranges from -20°C to +70°C (with wide temperature options available), and backlight life exceeds 50,000 hours. Designed for high reliability and long-term stability, it features optimized power consumption for embedded and vehicle-mounted applications with flexible installation options.

Core Features

Strong Daylight Visibility: 1000 nits brightness with anti-glare coating ensures clear display in outdoor and direct sunlight conditions

Full-View Without Deviation: IPS panel provides 178°/178° viewing angles with consistent picture quality for multi-user collaboration

Wide Temperature Range: Industrial-grade temperature operation from -20°C to +70°C, resistant to vibration and electromagnetic interference

Color Accuracy & Stability: 16.7M color depth with high color reproduction accuracy for detailed imaging applications

Main Applications

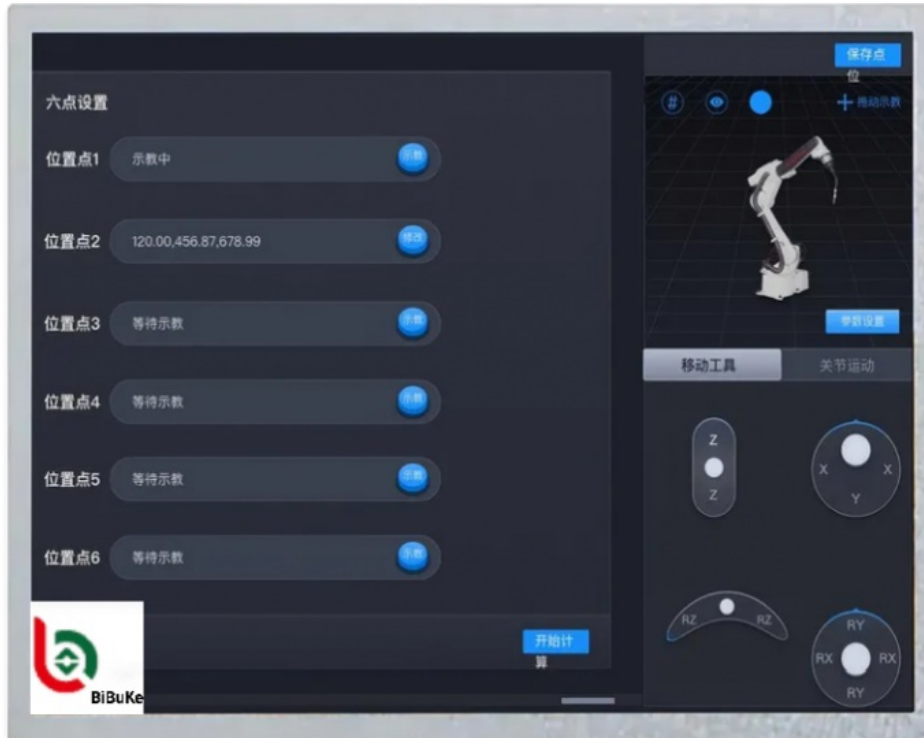
Industrial Automation: CNC machines, robot control panels, production line monitoring, outdoor inspection terminals

Vehicle & Construction Machinery: Cockpit displays for engineering vehicles, agricultural machinery, port equipment, vehicle navigation systems

Medical Equipment: Portable ultrasound machines, monitors, mobile diagnostic terminals with full-view readability

Outdoor Self-Service Terminals: Parking fee collection, logistics express cabinets, outdoor advertising, highway toll booths

Aerospace & Maritime: Drone ground stations, ship navigation screens, outdoor data display in challenging light conditions



Frequently Asked Questions

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

No problem. Please send us your specifications or drawing. If you don't have specifications, you can provide samples and we'll recommend suitable options. We can also customize based on your requirements.

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.

For segment type LCD modules requiring size modifications or display content changes, we need to create new LCD glass modules. This requires opening new tooling for your specific requirements.

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

Yes, we can modify the display type according to your request and specifications.

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

Yes, we provide custom LCD module services. Please send your drawing or provide outline size, display information (glass thickness, polarizer, display type, connector mode, temperature specifications, supply voltage, viewing direction, drive conditions).

What is leading time for tooling?

Typically 15 to 25 days after drawing confirmation and tooling charge payment. We will provide exact timelines upon drawing approval.

Can you send us samples for checking?

Yes, sample orders are available for quality verification and testing.

What is the Leading Time?

For standard products in stock, lead time is one day after payment. For mass production of special orders, lead time is approximately 15-30 days. We will notify you if we can complete orders earlier than scheduled.



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